Supplemental for the article "Quasi-structured quadrilateral meshing in Gmsh - a robust pipeline for complex CAD models"

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This supplemental contains the results of our end-to-end meshing pipeline applied to the 114 models of the Mambo dataset and to 1000 models of the ABC dataset.

All the meshes were generated with the same global size parameter (clscale=0.1), using the following command line:

```
gmsh CAD_MODEL -aglo quadqs -clscale 0.1 -2 -o OUTPUT_MESH
```

The statistics and the figures have been generated automatically. When the quadrilateral mesh generation failed (10/1000 cases in the ABC dataset), the mesh figures are replaced by figures of the CAD model. In some instances, the figures are blurred due to inconsistent image compression. The compression was necessary to limit the size of this supplemental.

The SICN quality metric is the Signed Inverse Condition Number. It is equivalent to the scaled jacobian (Q<=0 for invalid quads (e.g. flat or concave corner), Q=1 for quads with right-angled corners).

In the topological statistics:

- regular vertex means a quad-valence of 4 inside a CAD face and a quad-valence of 2 on a curve (viewed from the adjacent faces).
- irregular vertex means a quad-valence of 3 or 5 inside a CAD face and a quad-valence of 1 or 3 on a curve.
- very irregular vertex means a quad-valence of 6+ inside a CAD face and a quad-valence of 4+ on a curve.

The timings correspond to the execution on a single core of a laptop 2.8 GHz CPU.

Reproductility note:

As of 21/01/2021, the quad mesher is available in the public Gmsh git repository, in the `quadMeshingTools` branch (link). The commit identifier is `9186af24` (hash: 9186af24e2747f977bb4f625a24b71504c1e776c). Integration in the Gmsh master branch is in progress and should be completed in the coming weeks.

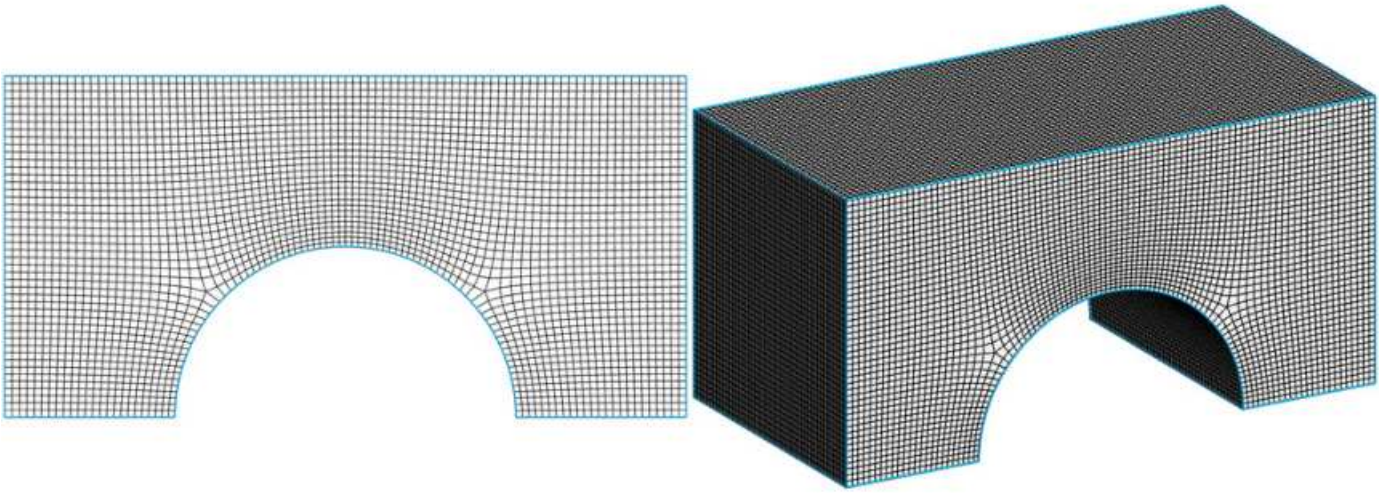
Update 08/03/2021: the quad mesher is available in Gmsh (version 4.8.1+, -aglo quads in command line or Quasi-structured quad 2D algorithm in GUI). As the code has been re-written, the meshes obtained with the new version may be different from the ones in this supplemental, but should be similar in spirit.

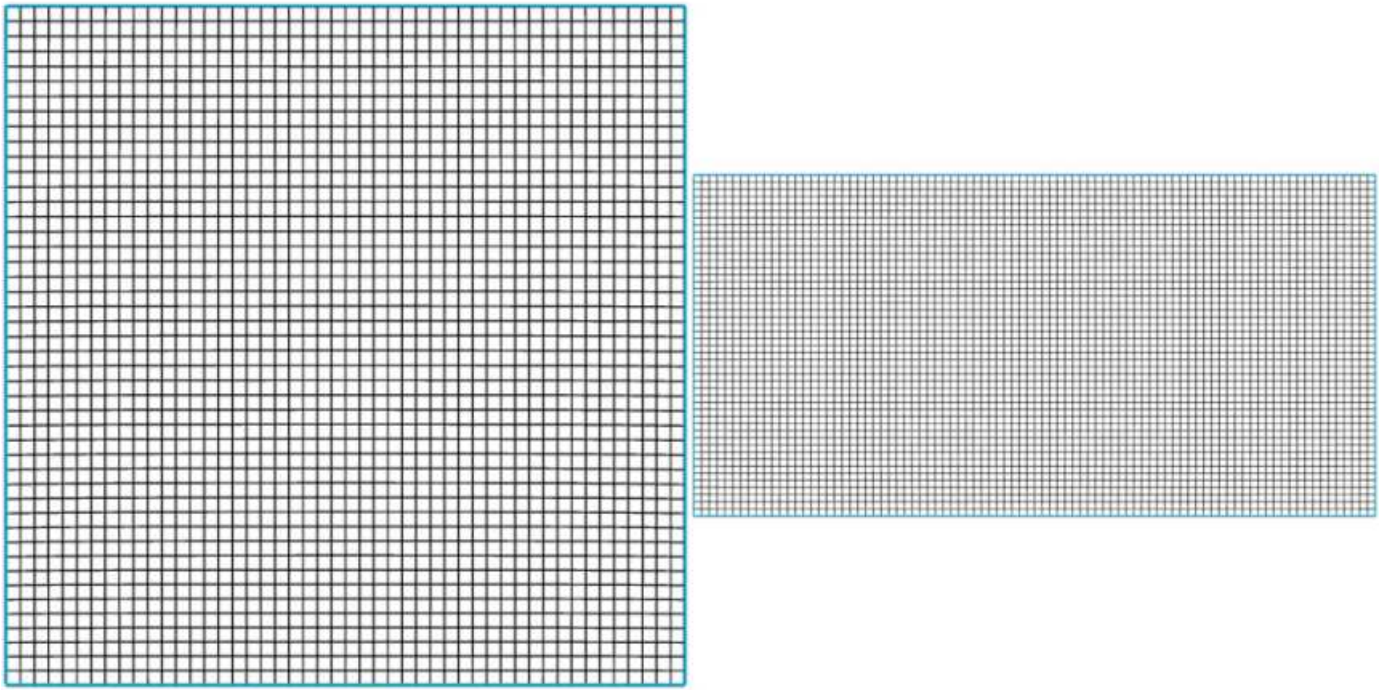
Model: B0 (from Mambo dataset)
CAD: 14 corners, 21 curves, 9 faces
Cross field: 4 singularities detected
Timings: 10.0932 sec to generate the unstructured mesh, 1.15621 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21162	22123	88	0
Quasi-structured	21530	22491	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0426681	0.10751	0.192133	0.581517	0.993375	0.997959
Quasi-structured	0.064173	0.106518	0.253151	0.748885	0.995876	0.997773



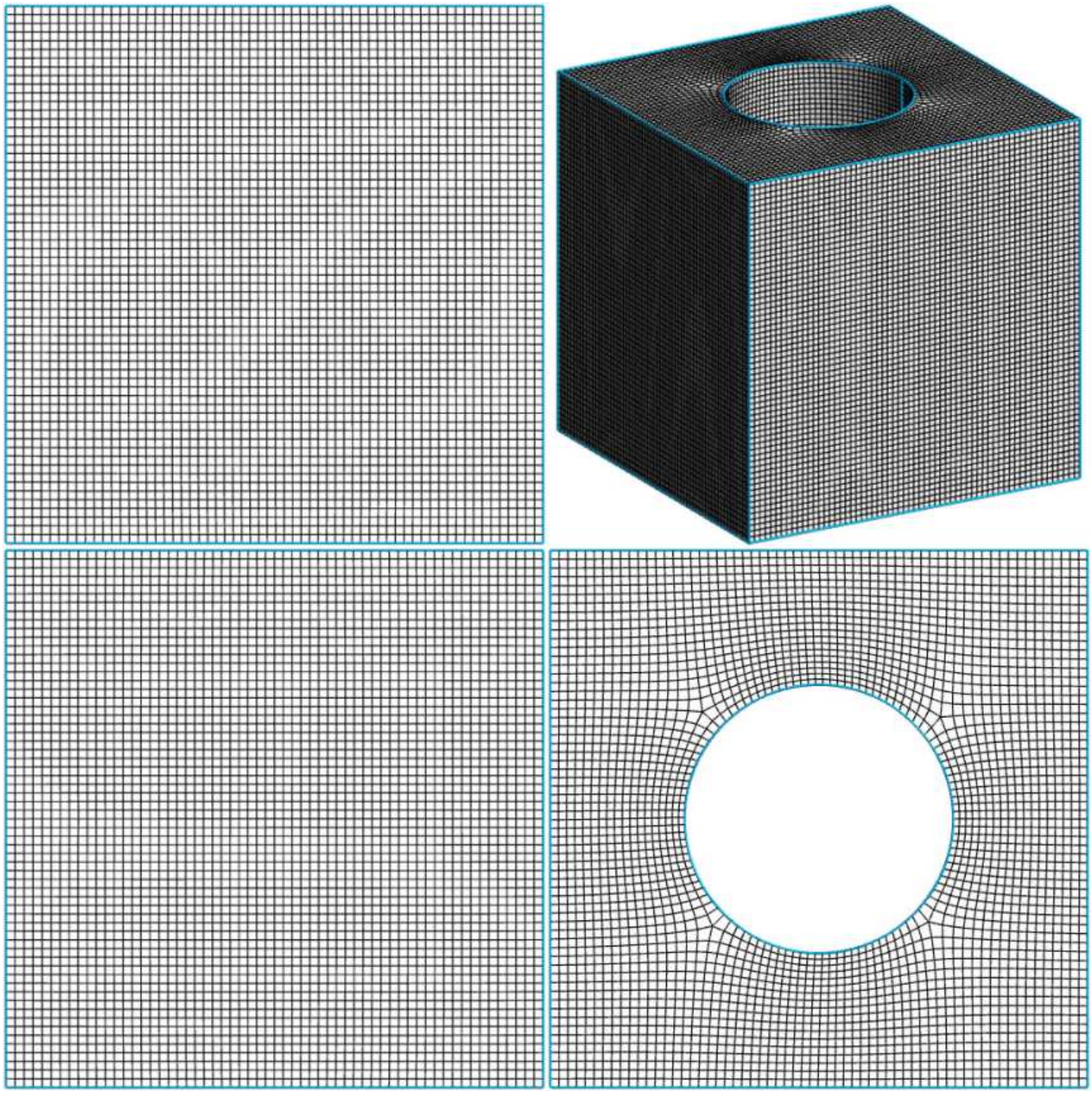


Model: B10 (from Mambo dataset)
CAD: 10 corners, 15 curves, 7 faces
Cross field: 8 singularities detected
Timings: 14.1158 sec to generate the unstructured mesh, 1.86914 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29220	30184	122	71
Quasi-structured	29340	30304	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0525598	0.1566	0.27911	0.523333	0.993707	0.999759
Quasi-structured	0.100198	0.156126	0.315566	0.82441	0.99846	0.999893

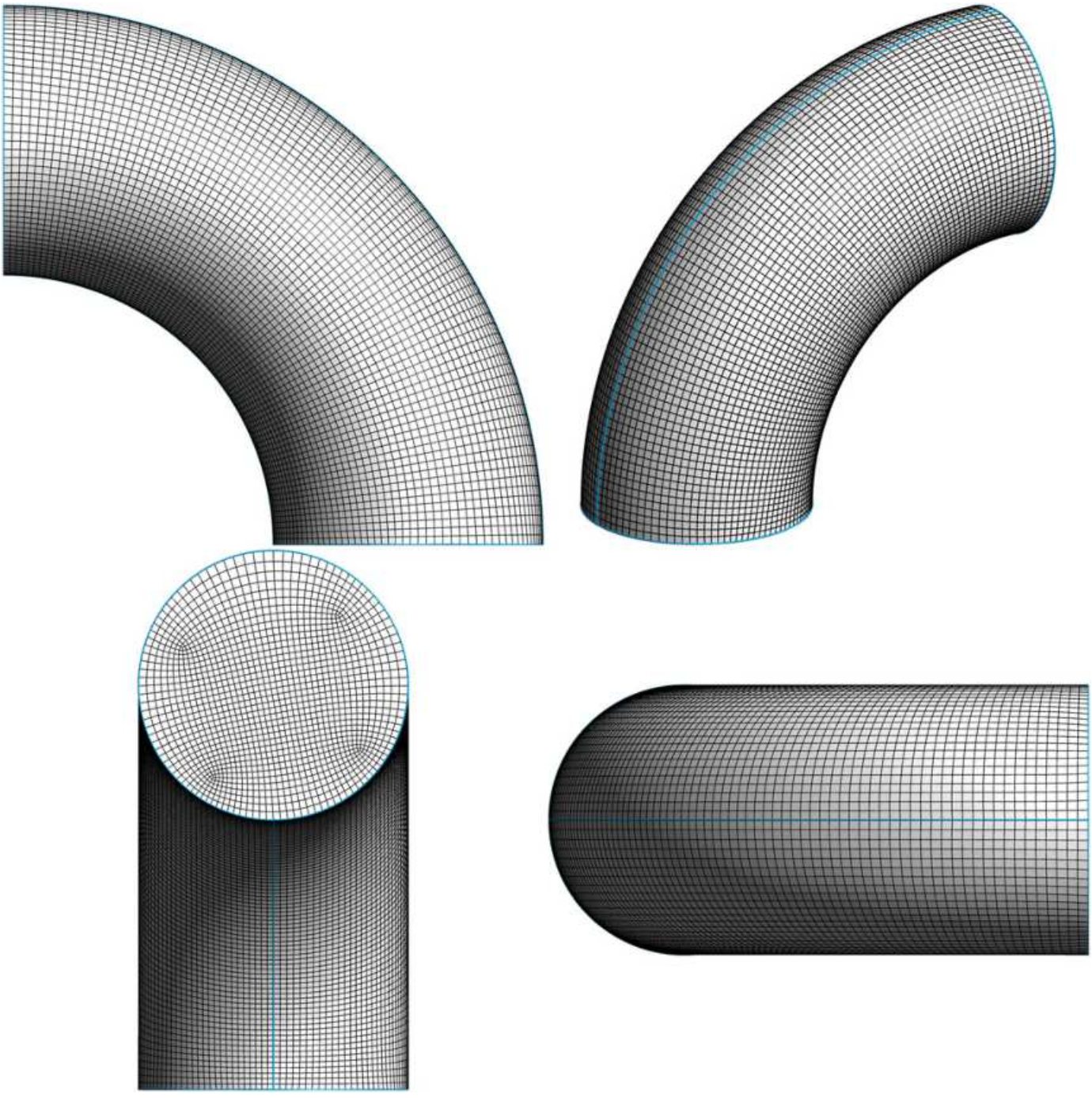


Model: B11 (from Mambo dataset)
CAD: 4 corners, 6 curves, 4 faces
Cross field: 8 singularities detected
Timings: 5.82303 sec to generate the unstructured mesh, 0.646184 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11112	11488	50	2
Quasi-structured	11112	11488	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0727975	0.279552	0.417788	0.59711	0.983893	0.990293
Quasi-structured	0.0874707	0.278956	0.417788	0.848448	0.99177	0.994058

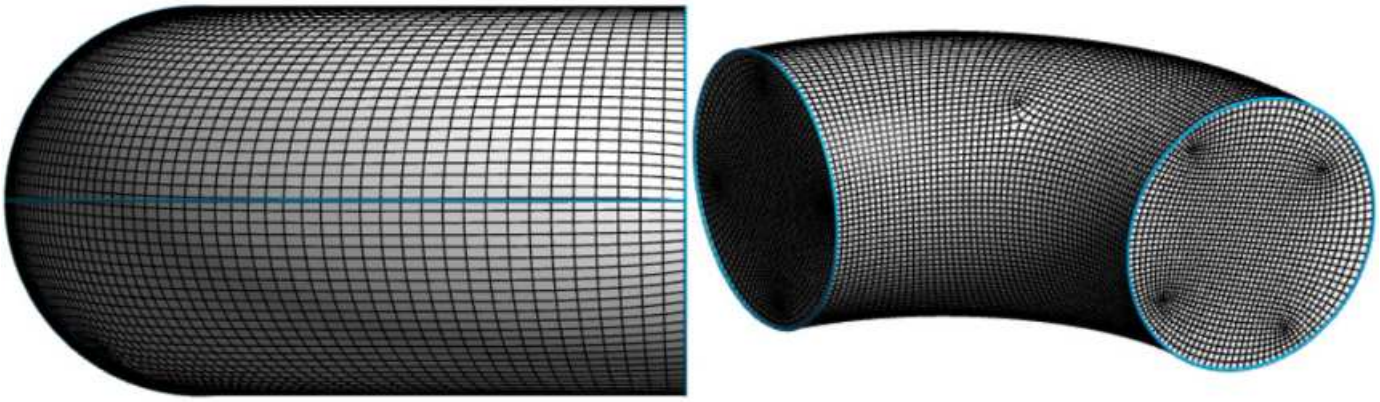


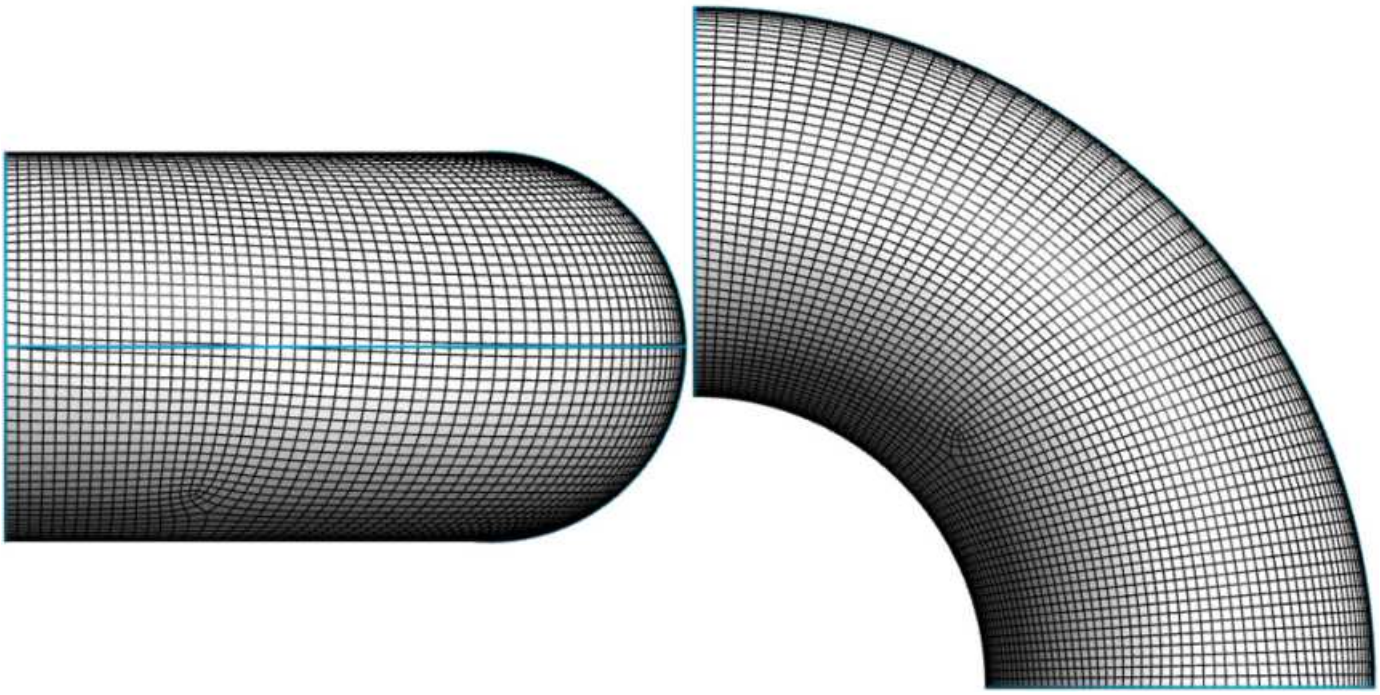
Model: B12 (from Mambo dataset)
CAD: 2 corners, 3 curves, 3 faces
Cross field: 10 singularities detected
Timings: 8.82477 sec to generate the unstructured mesh, 2.61028 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12086	12328	148	88
Quasi-structured	10056	10298	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.015266	0.050229	0.107232	0.3917	0.97647	0.988707
Quasi-structured	0.0153662	0.0544866	0.119252	0.737561	0.966622	0.993008



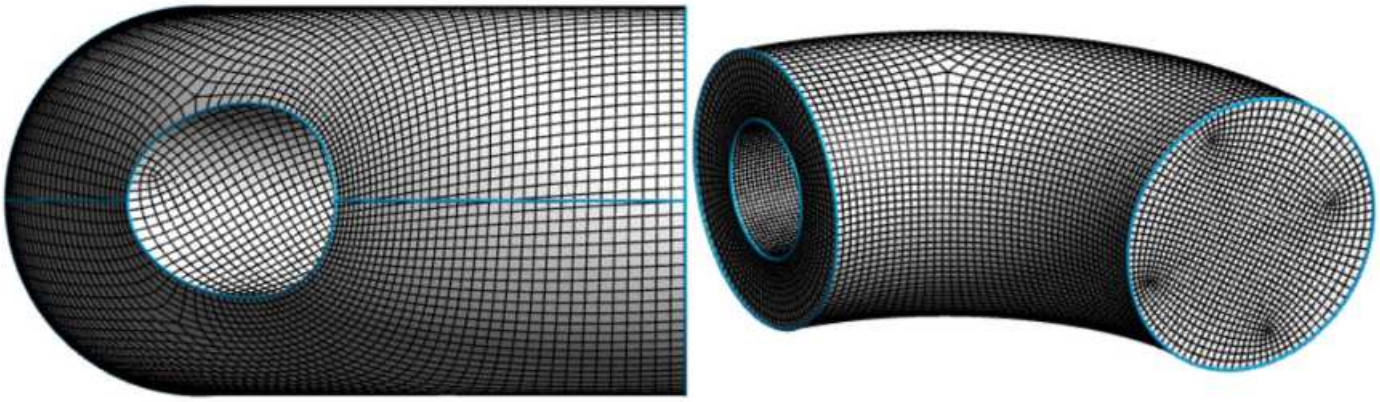


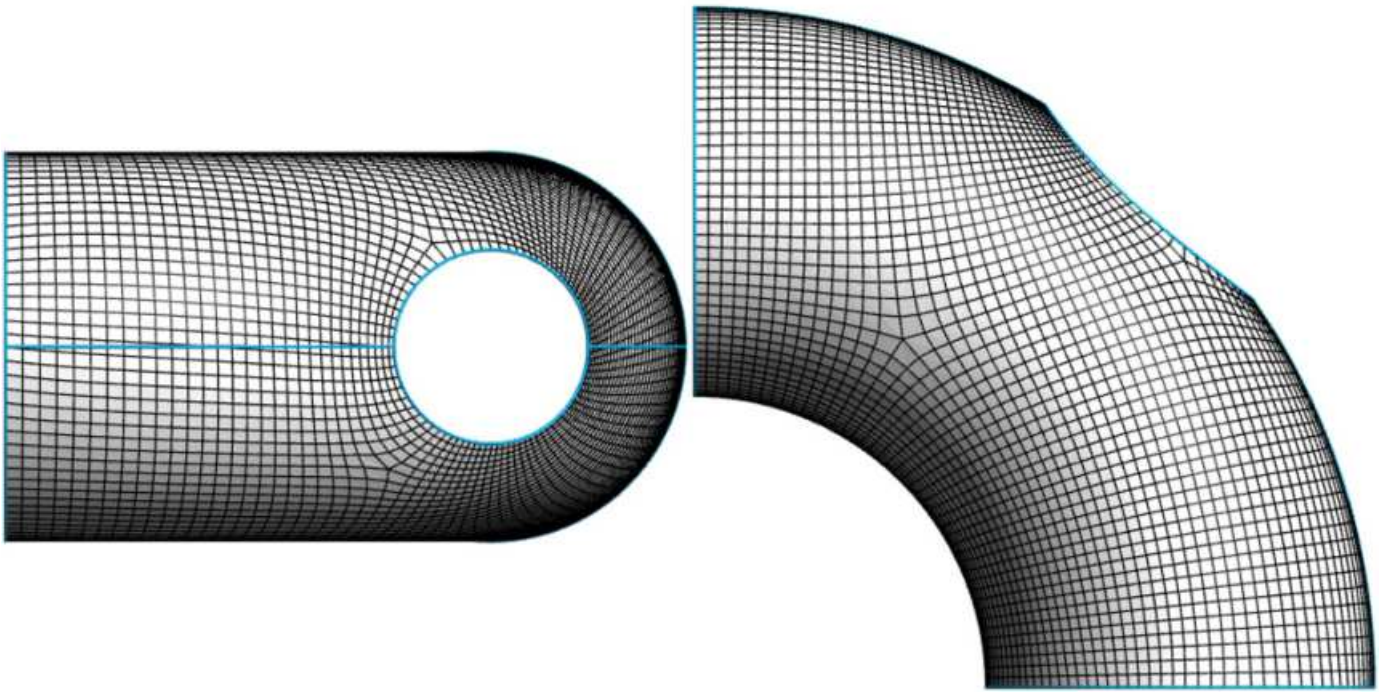
Model: B13 (from Mambo dataset)
CAD: 6 corners, 9 curves, 4 faces
Cross field: 10 singularities detected
Timings: 10.8468 sec to generate the unstructured mesh, 3.65075 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13634	14020	212	122
Quasi-structured	12960	13346	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0101432	0.0500694	0.115524	0.44714	0.973122	0.991042
Quasi-structured	0.0149878	0.0509867	0.200192	0.510744	0.983722	0.995431



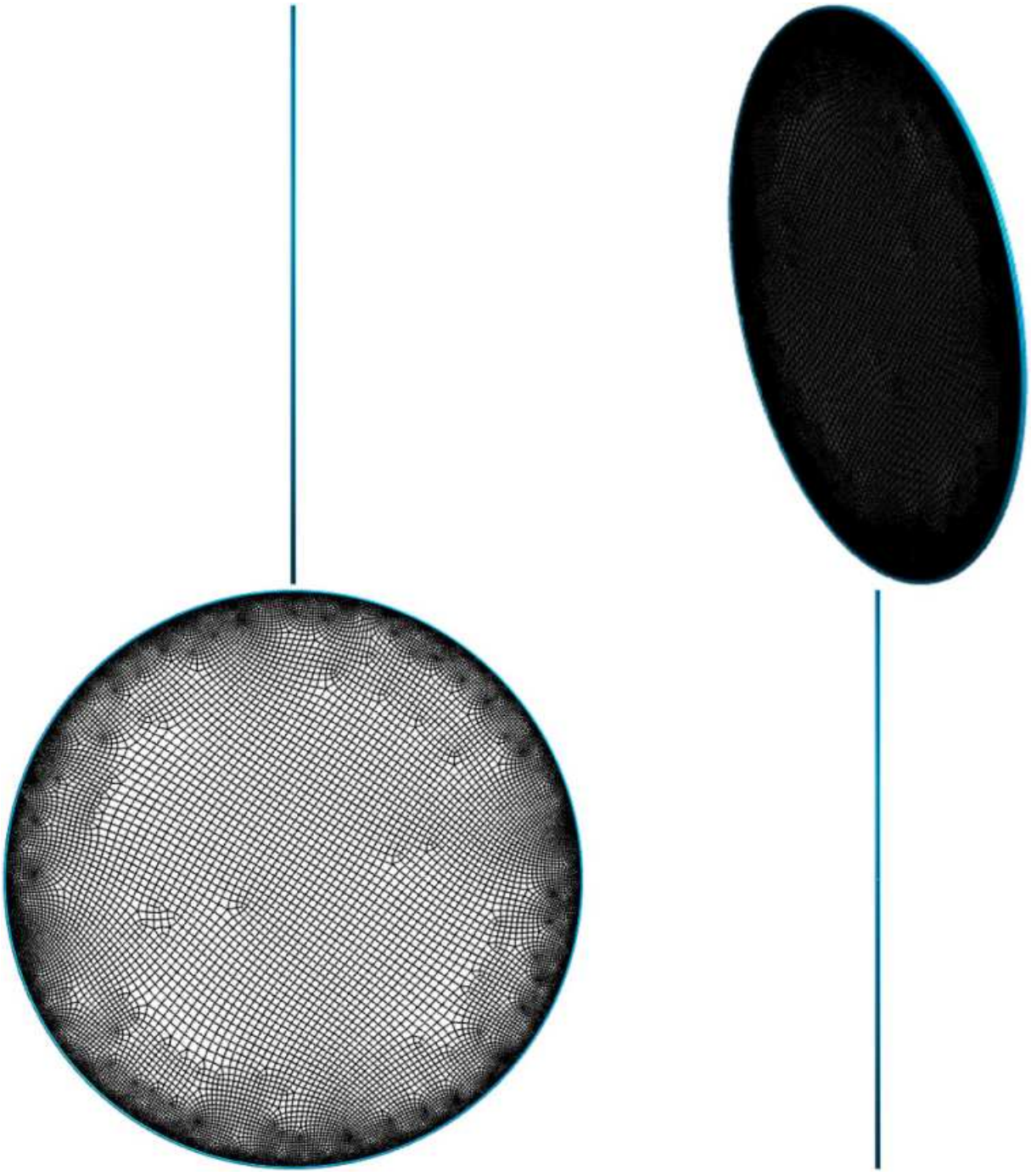


Model: B14 (from Mambo dataset)
CAD: 2 corners, 3 curves, 3 faces
Cross field: 8 singularities detected
Timings: 7.57047 sec to generate the unstructured mesh, 146.148 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37990	40508	2176	45
Quasi-structured	38921	41439	632	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.237841	1.10187	4.40733	0.472918	0.936177	0.979843
Quasi-structured	0.17993	1.07715	4.0111	0.560705	0.978768	0.988528

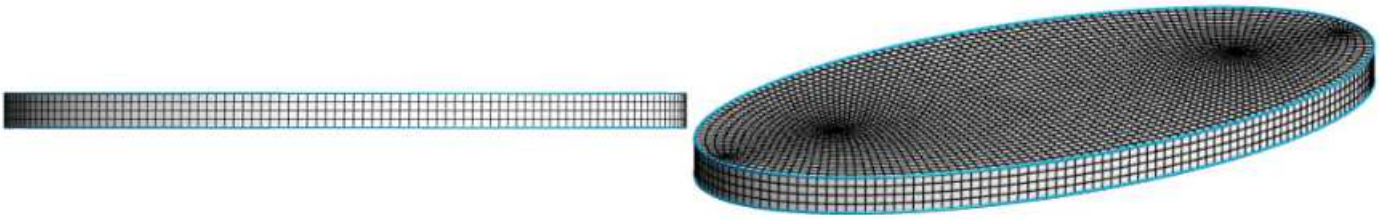


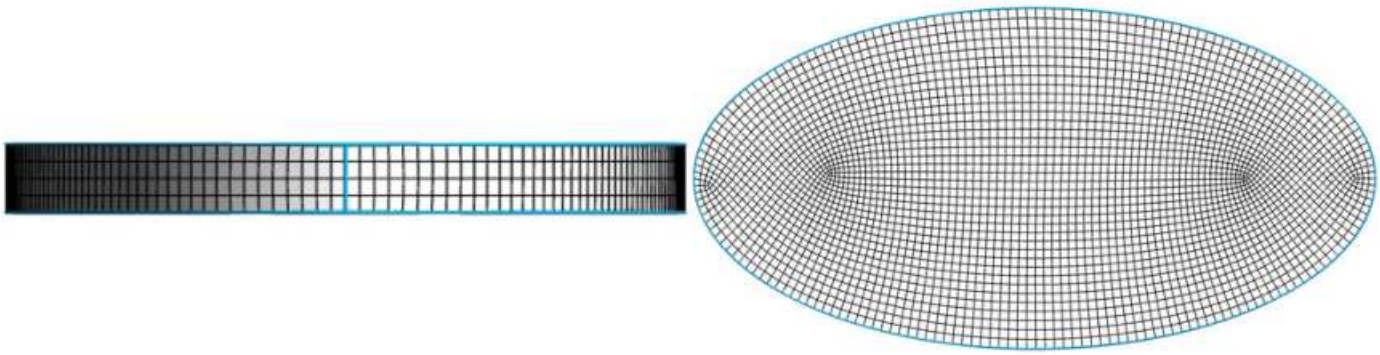
Model: B15 (from Mambo dataset)
CAD: 2 corners, 3 curves, 3 faces
Cross field: 8 singularities detected
Timings: 5.71008 sec to generate the unstructured mesh, 0.580545 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7078	7456	50	5
Quasi-structured	7018	7396	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.301197	1.12084	2.25276	0.613098	0.990484	0.998707
Quasi-structured	0.341009	1.12382	1.46498	0.838127	0.996793	0.998164



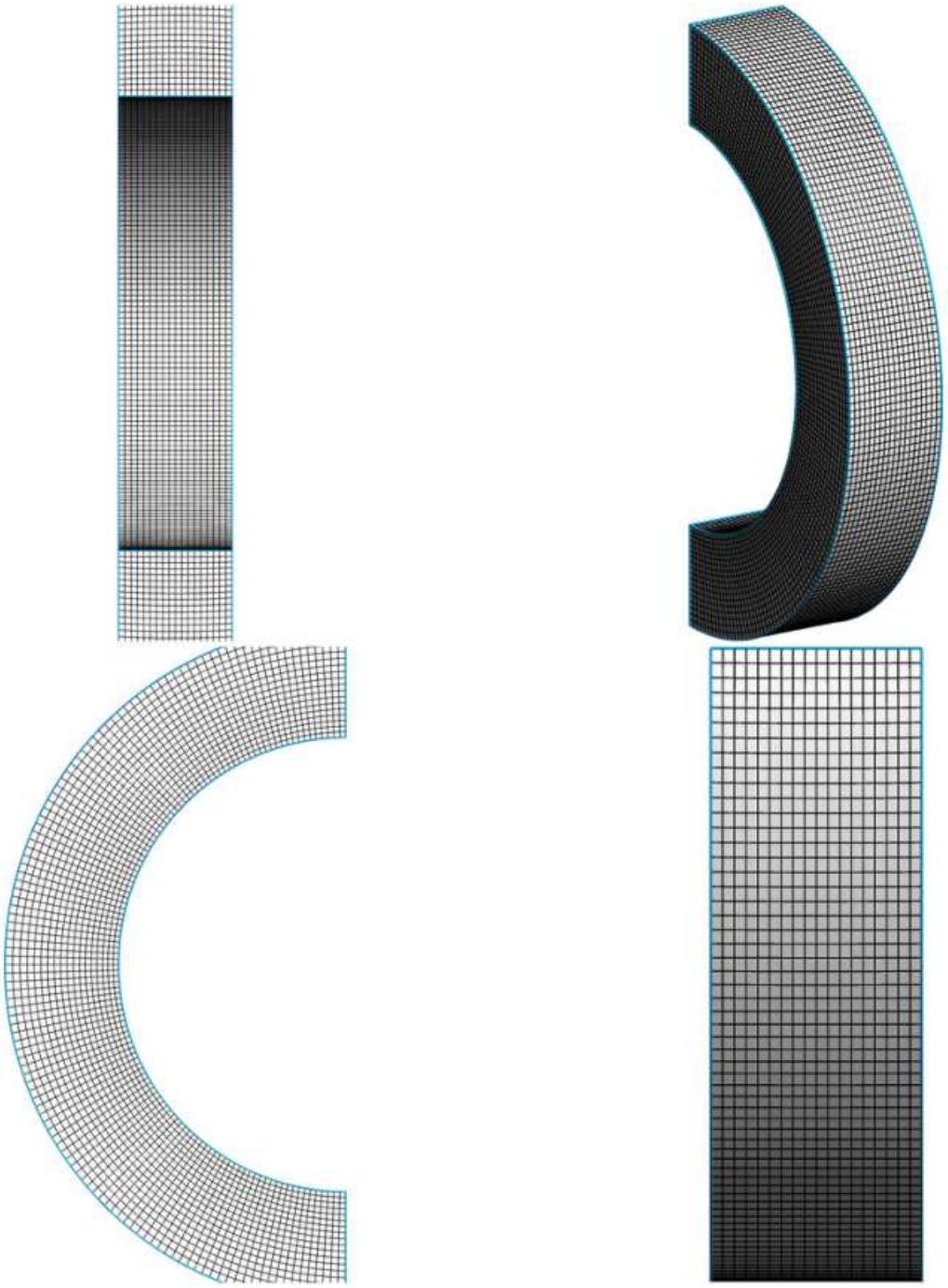


Model: B16 (from Mambo dataset)
CAD: 8 corners, 12 curves, 6 faces
Cross field: 0 singularities detected
Timings: 5.65935 sec to generate the unstructured mesh, 0.436274 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9720	10374	0	0
Quasi-structured	9720	10374	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0980243	0.117219	0.151832	0.95109	0.984349	0.992353
Quasi-structured	0.0922228	0.117103	0.151835	0.953109	0.984943	0.992643

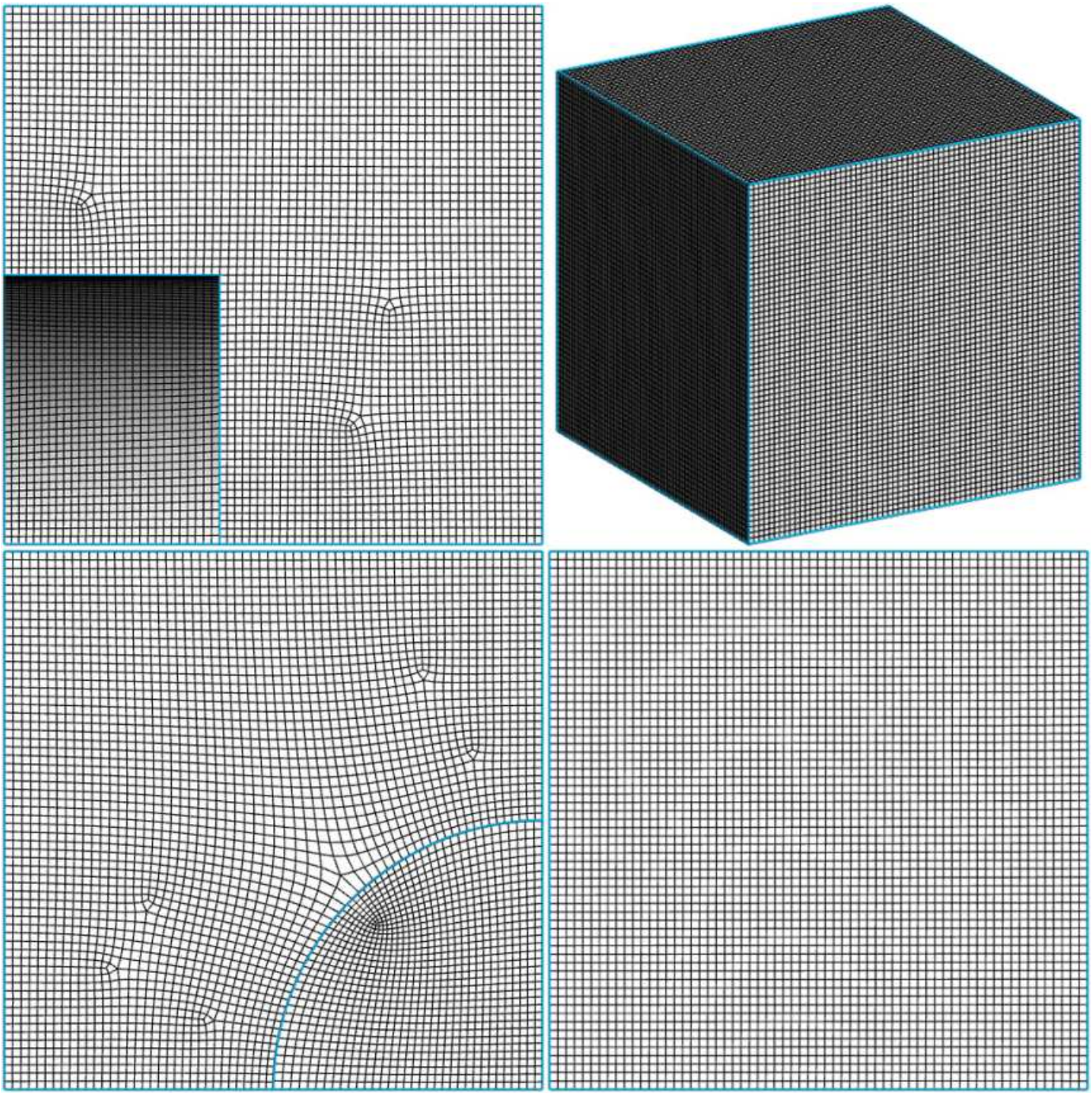


Model: B17 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 2 singularities detected
Timings: 13.8708 sec to generate the unstructured mesh, 1.766 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24650	25572	82	2
Quasi-structured	24758	25680	22	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00553106	0.0154881	0.0266628	0.606228	0.995611	0.999898
Quasi-structured	0.00444968	0.0154359	0.0471081	0.649407	0.99855	0.999912

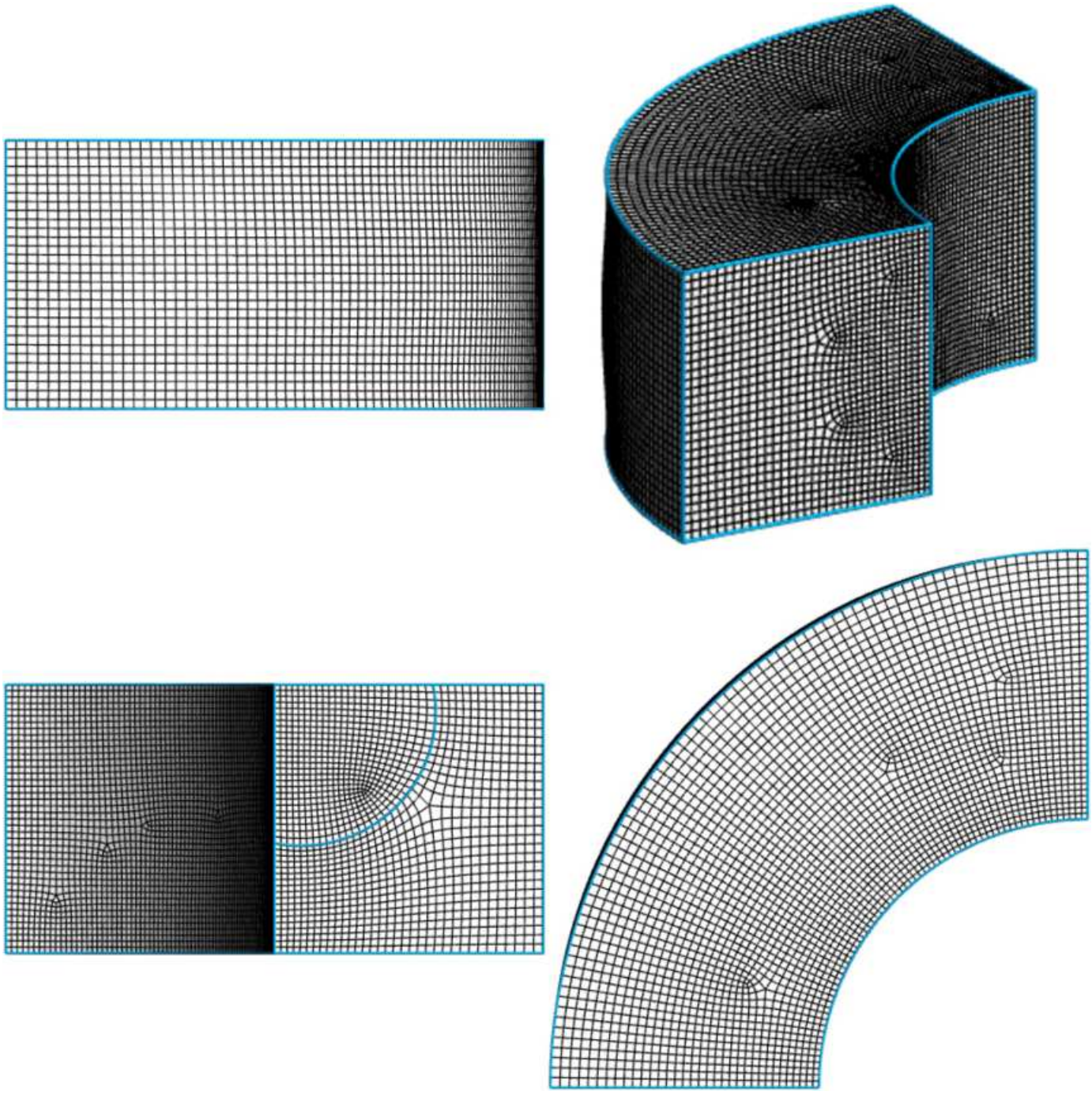


Model: B18 (from Mambo dataset)
CAD: 10 corners, 15 curves, 7 faces
Cross field: 2 singularities detected
Timings: 9.3848 sec to generate the unstructured mesh, 1.92392 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13092	13725	76	2
Quasi-structured	13328	13961	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00473247	0.0145141	0.0252852	0.623017	0.987357	0.995981
Quasi-structured	0.0046937	0.0143684	0.0280891	0.824934	0.992981	0.99684

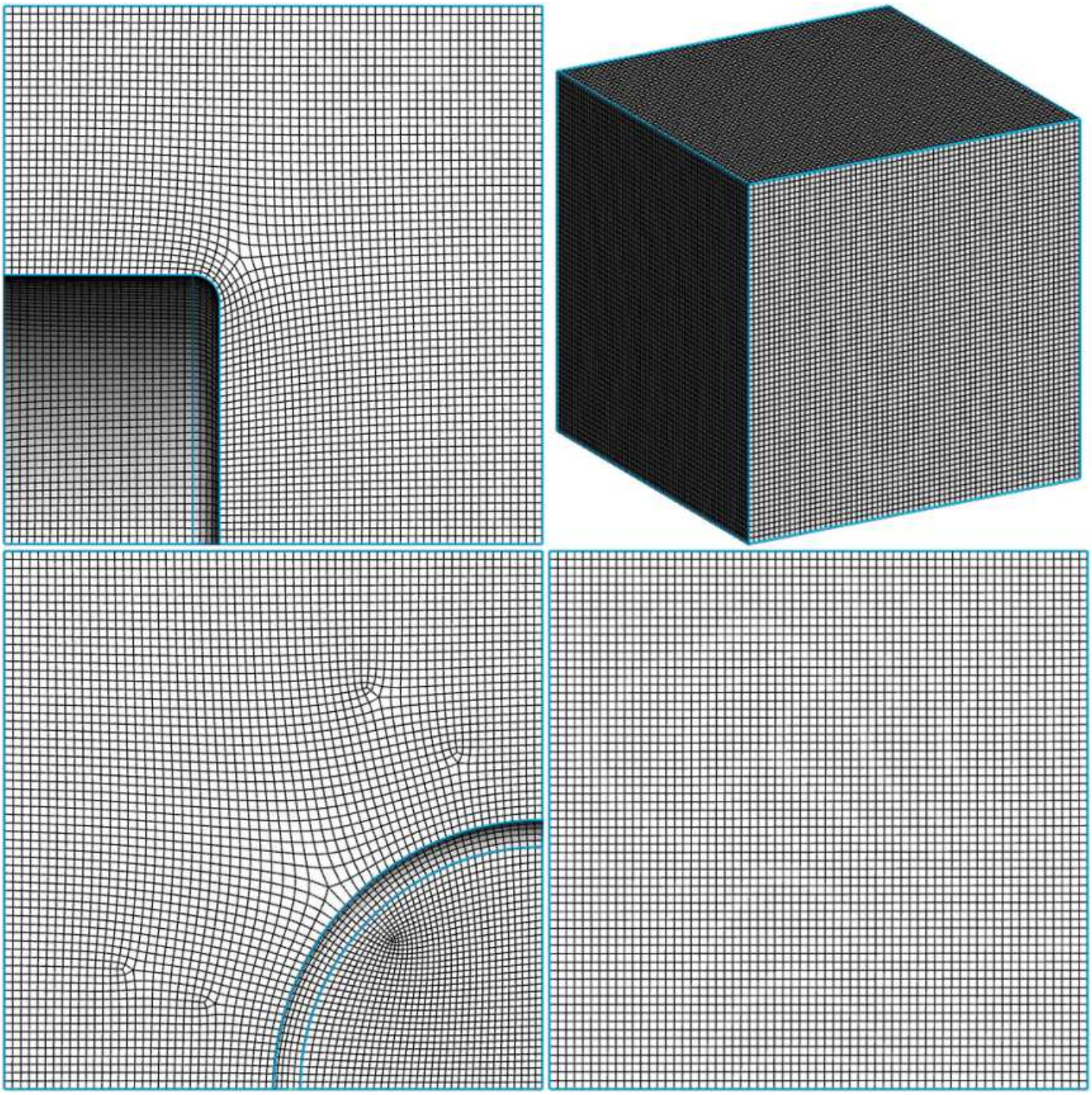


Model: B19 (from Mambo dataset)
CAD: 14 corners, 21 curves, 9 faces
Cross field: 4 singularities detected
Timings: 14.3909 sec to generate the unstructured mesh, 1.70787 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24858	25837	99	2
Quasi-structured	24994	25973	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00509089	0.0153946	0.02576	0.495603	0.994592	0.999811
Quasi-structured	0.00403103	0.0153346	0.0470582	0.654786	0.997399	0.999762

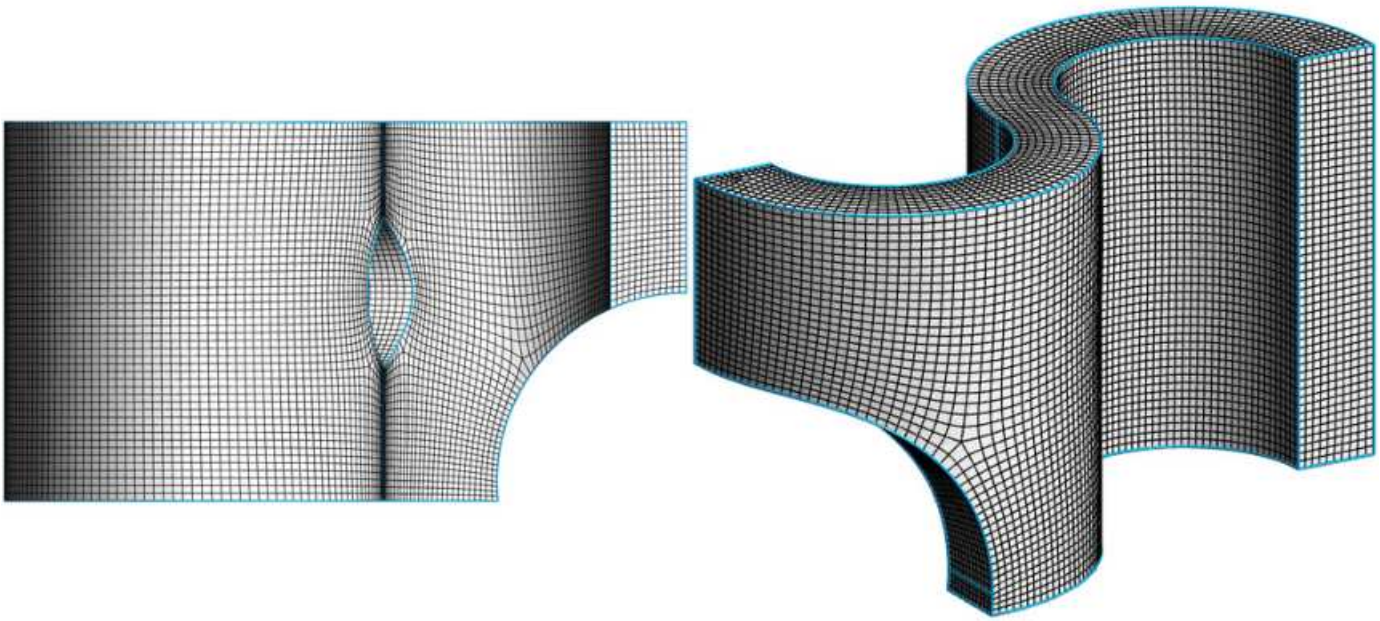


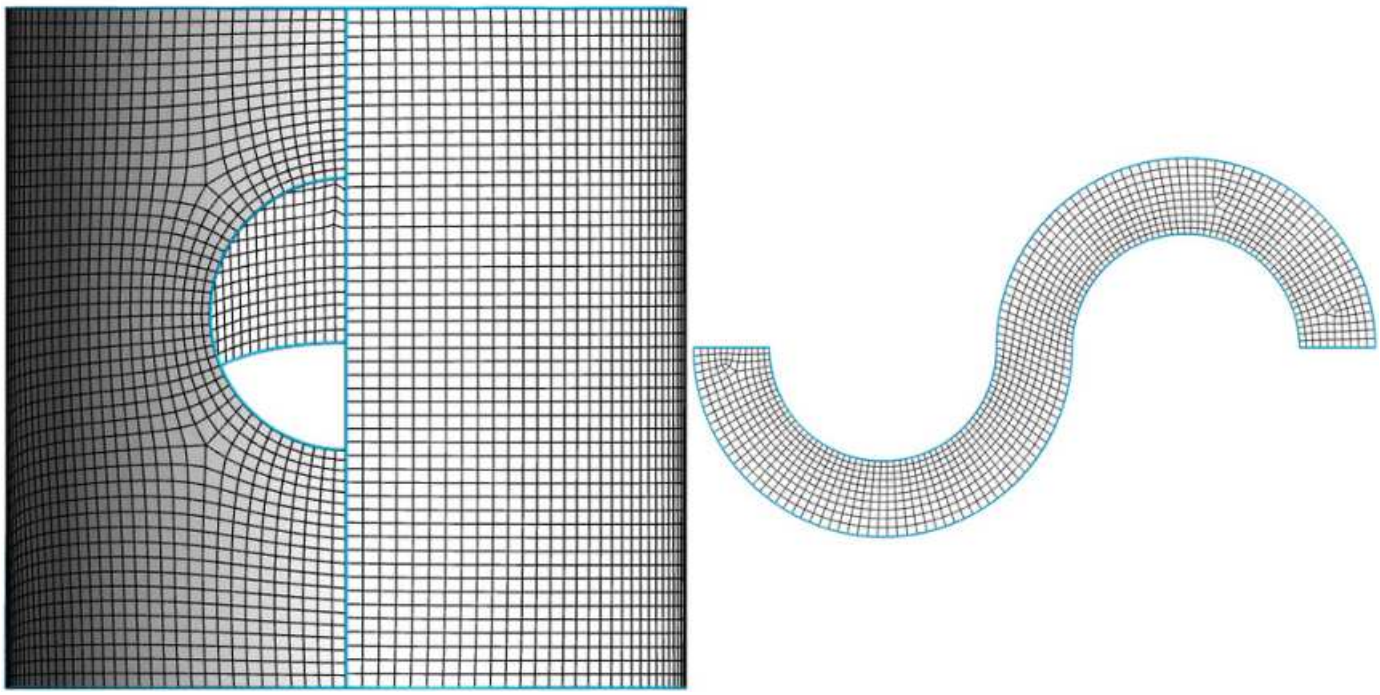
Model: B1 (from Mambo dataset)
CAD: 20 corners, 32 curves, 12 faces
Cross field: 10 singularities detected
Timings: 9.35956 sec to generate the unstructured mesh, 1.67288 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14236	15252	184	3
Quasi-structured	14809	15825	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0691865	0.200749	0.384982	0.550803	0.976712	0.993567
Quasi-structured	0.0932187	0.197878	0.469883	0.566861	0.978698	0.982326



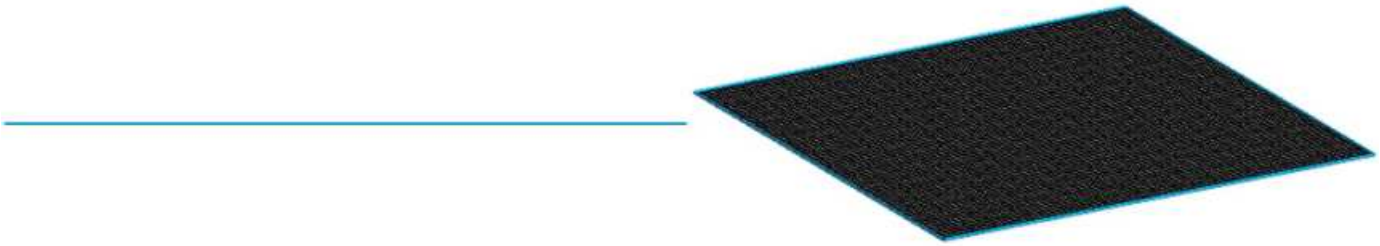


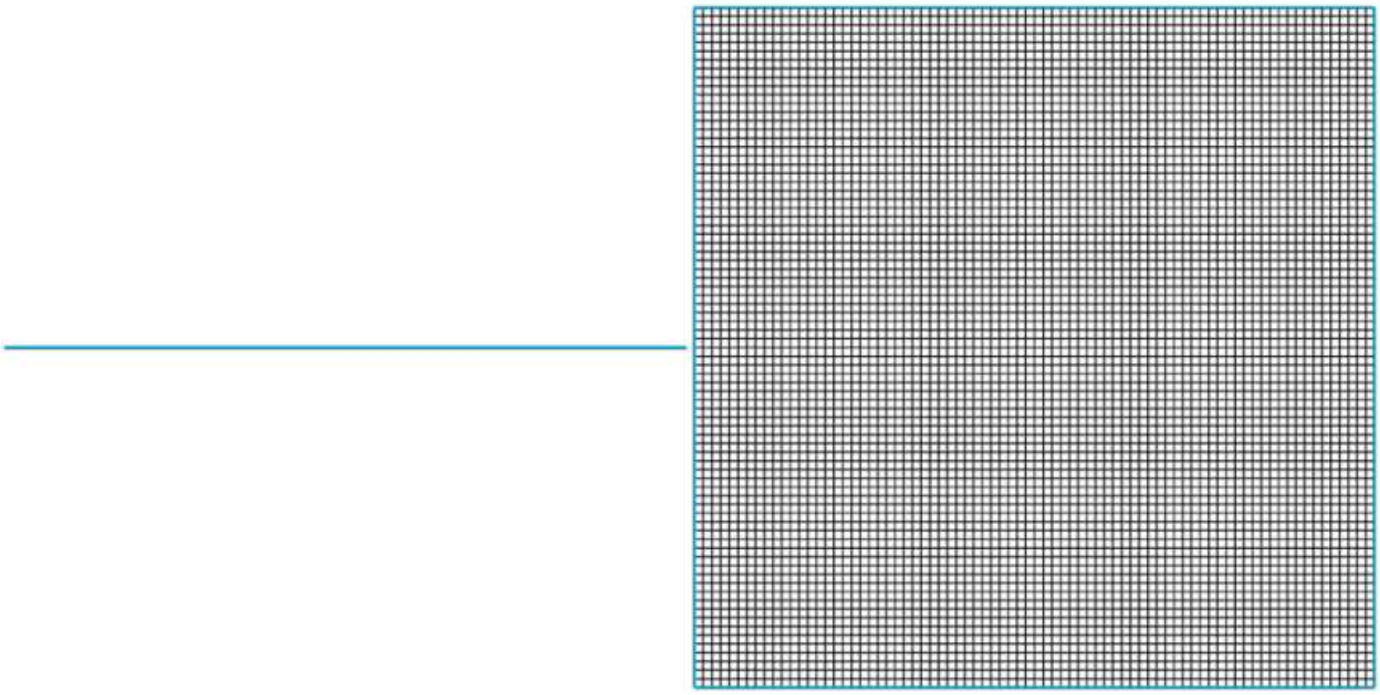
Model: B20 (from Mambo dataset)
CAD: 4 corners, 4 curves, 1 faces
Cross field: 0 singularities detected
Timings: 2.61018 sec to generate the unstructured mesh, 0.298423 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6084	6241	0	0
Quasi-structured	6084	6241	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.025641	0.025641	0.025641	1	1	1
Quasi-structured	0.025641	0.025641	0.025641	1	1	1



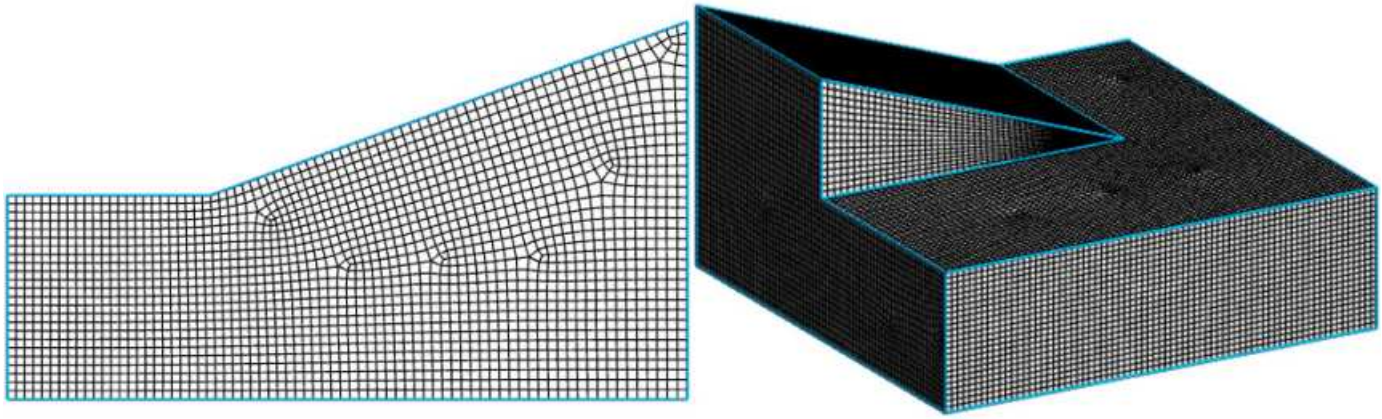


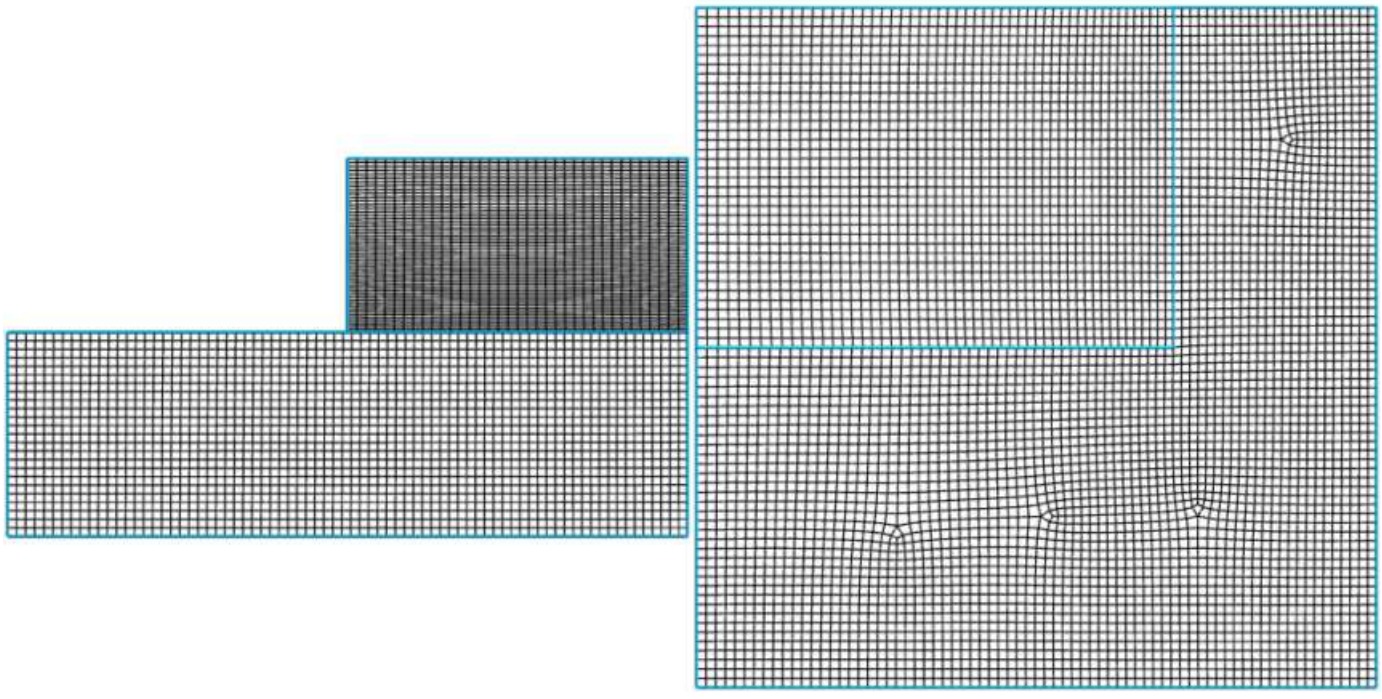
Model: B21 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 1 singularities detected
Timings: 9.0667 sec to generate the unstructured mesh, 1.40096 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19194	20062	75	0
Quasi-structured	19608	20476	27	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0426802	0.135487	0.264138	0.341999	0.993423	0.998576
Quasi-structured	0.0192844	0.134073	0.230041	0.33991	0.98862	0.998585



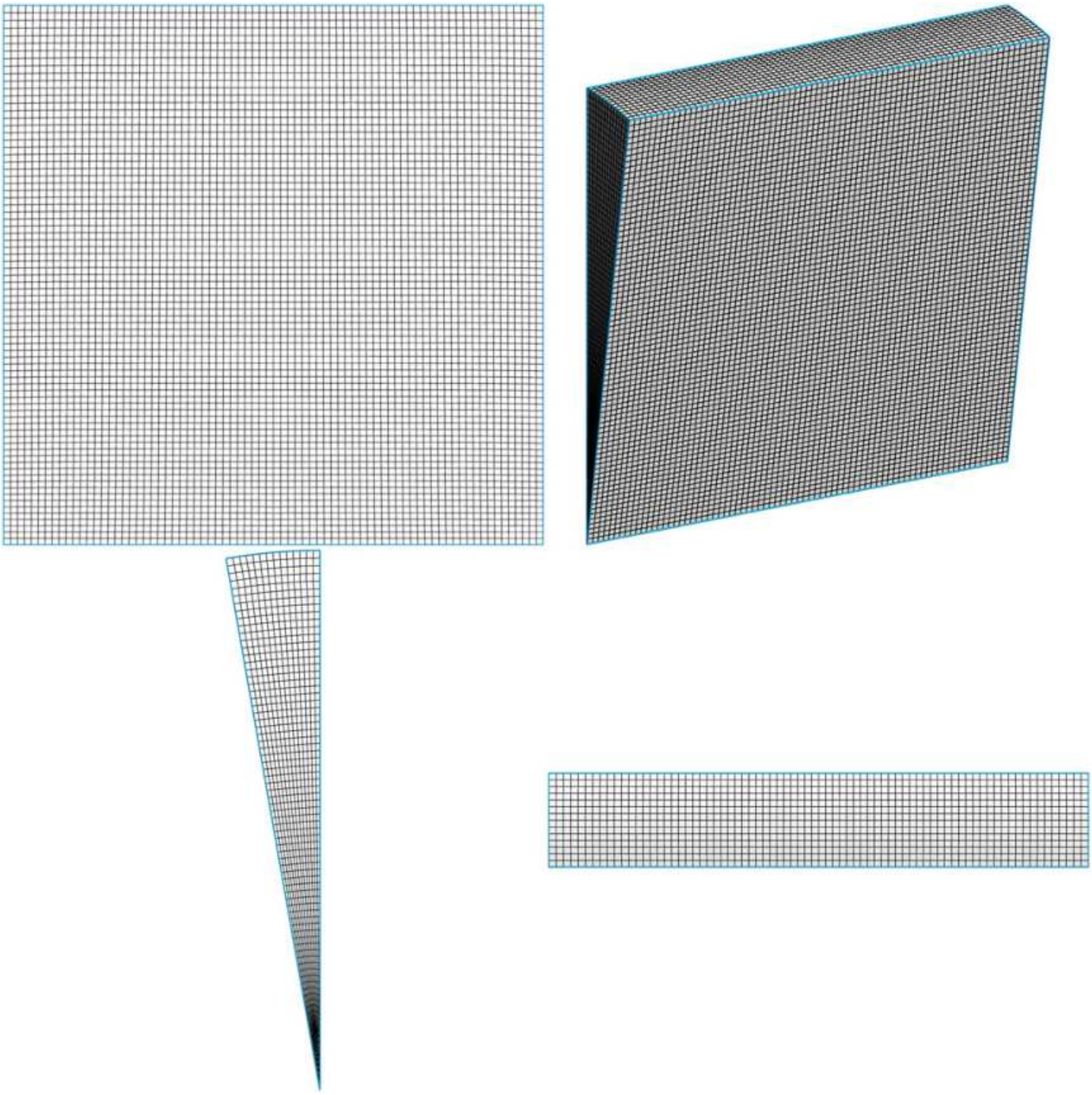


Model: B23 (from Mambo dataset)
CAD: 6 corners, 9 curves, 5 faces
Cross field: 2 singularities detected
Timings: 5.82122 sec to generate the unstructured mesh, 0.79474 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13938	14511	26	0
Quasi-structured	15006	15579	2	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00203135	0.0129825	0.0227006	0.173648	0.995051	0.998704
Quasi-structured	0.00133165	0.0125085	0.014565	0.173648	0.95659	0.998312

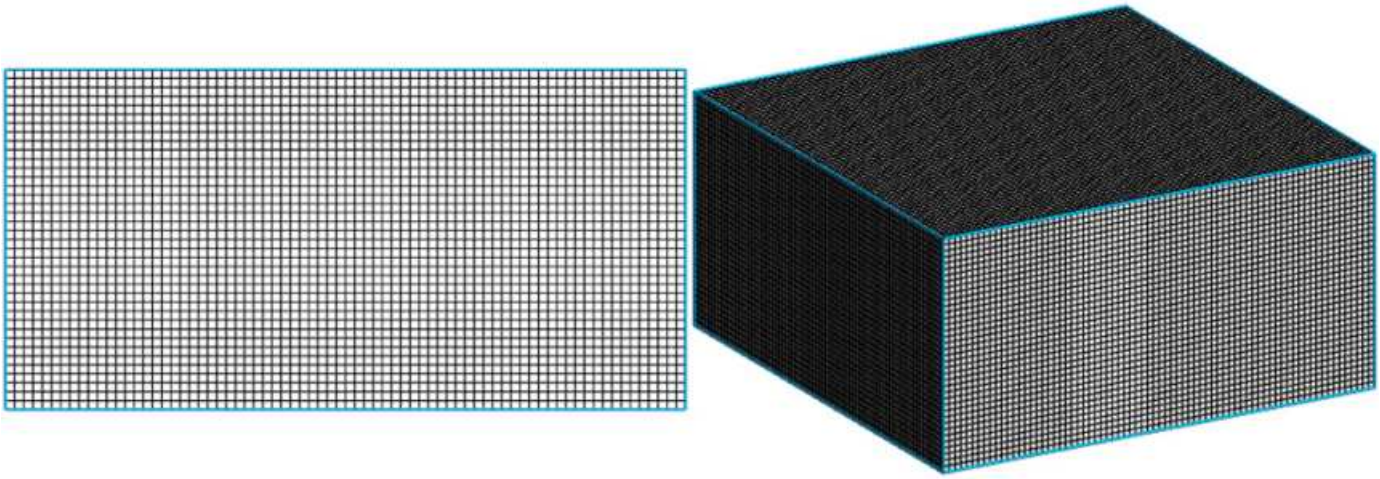


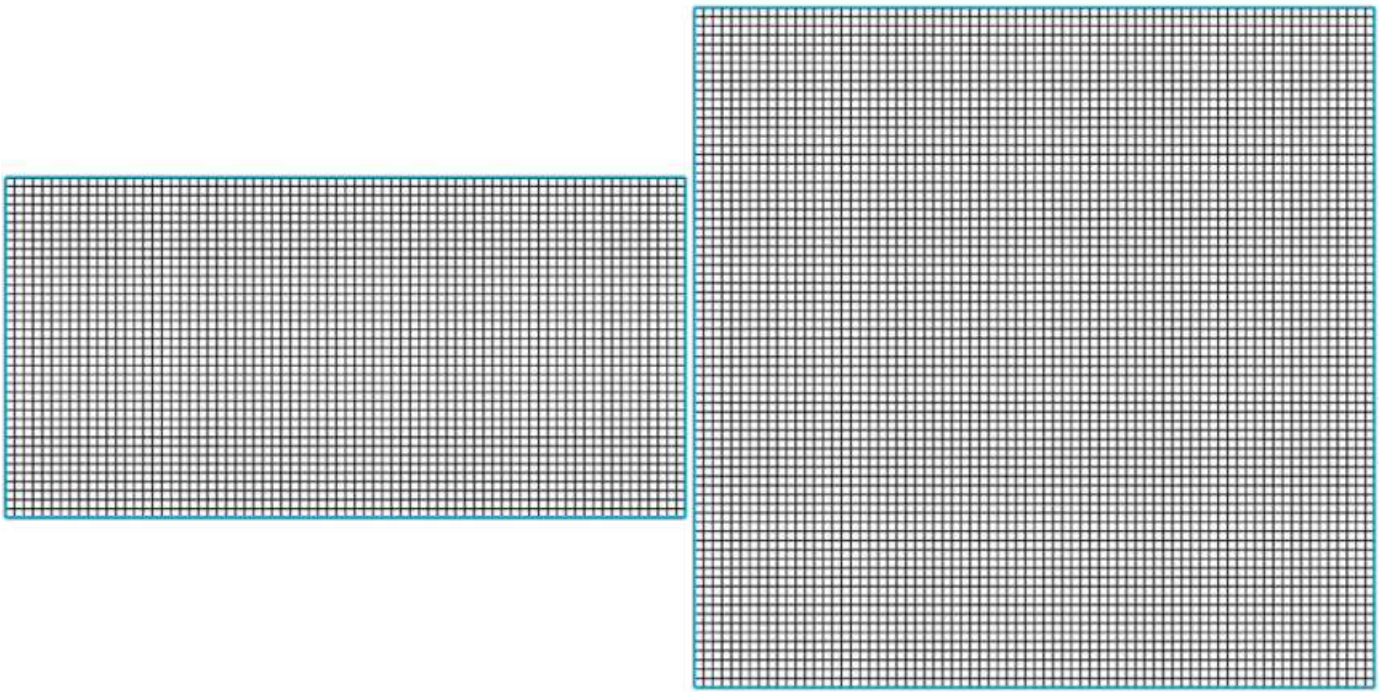
Model: B24 (from Mambo dataset)
CAD: 8 corners, 12 curves, 6 faces
Cross field: 0 singularities detected
Timings: 14.3701 sec to generate the unstructured mesh, 0.839399 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22200	22950	0	0
Quasi-structured	22200	22950	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0131579	0.0134234	0.0135135	0.999645	0.99982	0.999645
Quasi-structured	0.0131579	0.0134234	0.0135135	0.999645	0.99982	0.999645



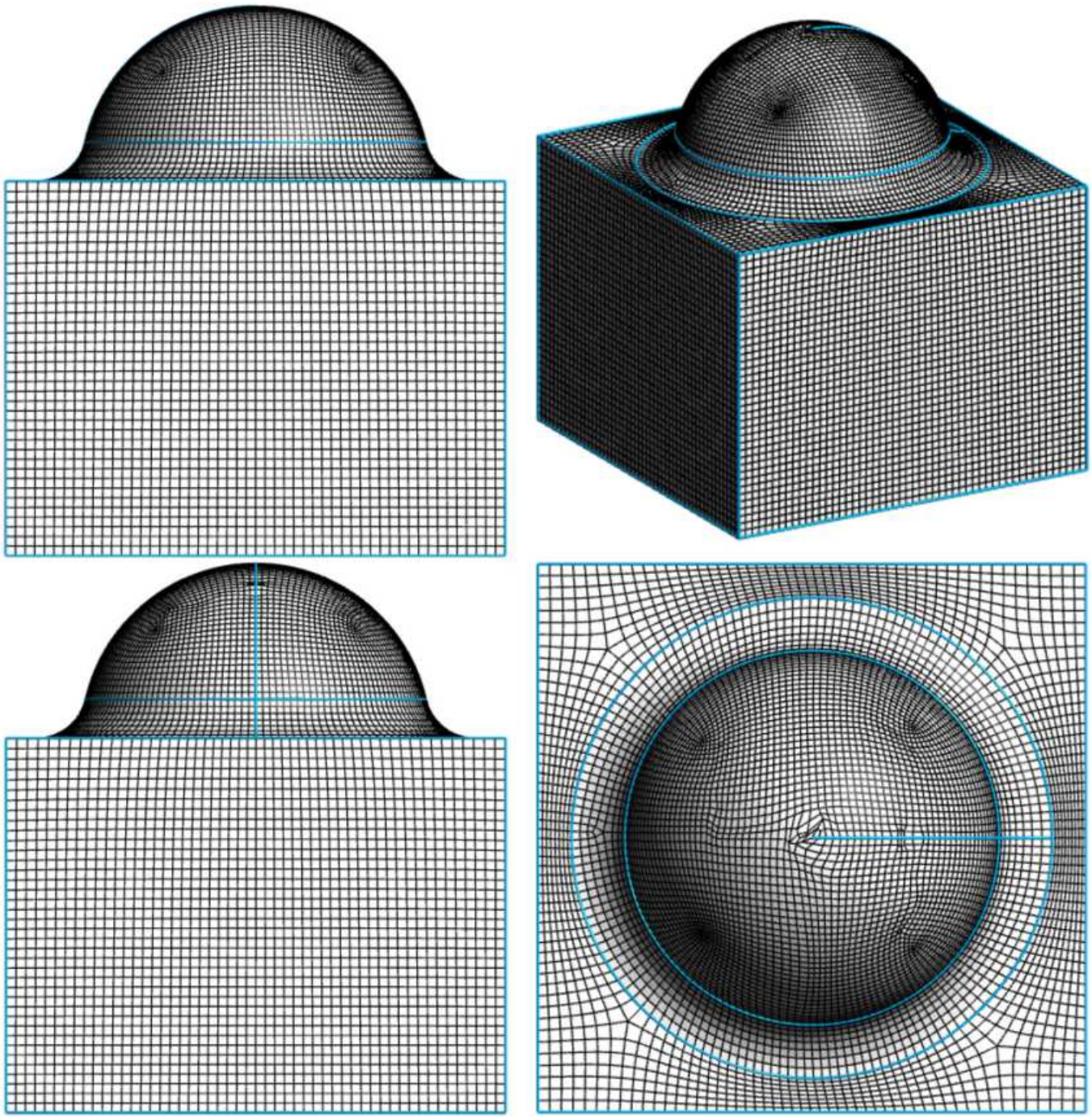


Model: B25 (from Mambo dataset)
CAD: 11 corners, 17 curves, 8 faces
Cross field: 8 singularities detected
Timings: 11.1655 sec to generate the unstructured mesh, 1.99757 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16480	17364	156	39
Quasi-structured	17102	17986	15	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00435941	0.0177668	0.0623207	0.227415	0.985189	0.999071
Quasi-structured	0.00319438	0.0174082	0.0392571	0.227426	0.979198	0.999064

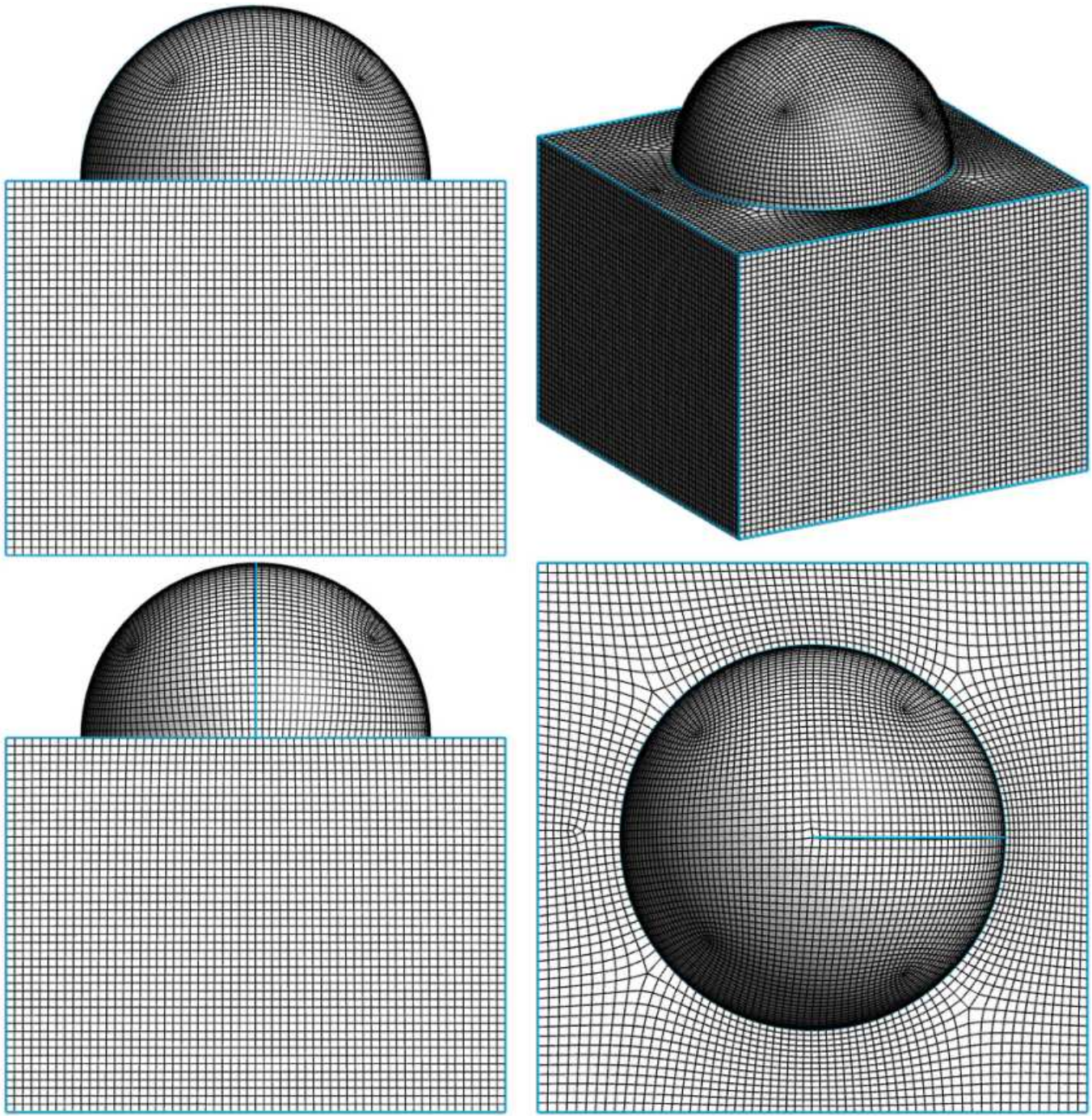


Model: B27 (from Mambo dataset)
CAD: 10 corners, 15 curves, 7 faces
Cross field: 8 singularities detected
Timings: 13.0273 sec to generate the unstructured mesh, 4.21101 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20888	21708	149	30
Quasi-structured	21222	22042	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00458834	0.0160307	0.0387321	0.36945	0.990261	0.999277
Quasi-structured	0.00461946	0.0158592	0.0449036	0.671492	0.995396	0.999442

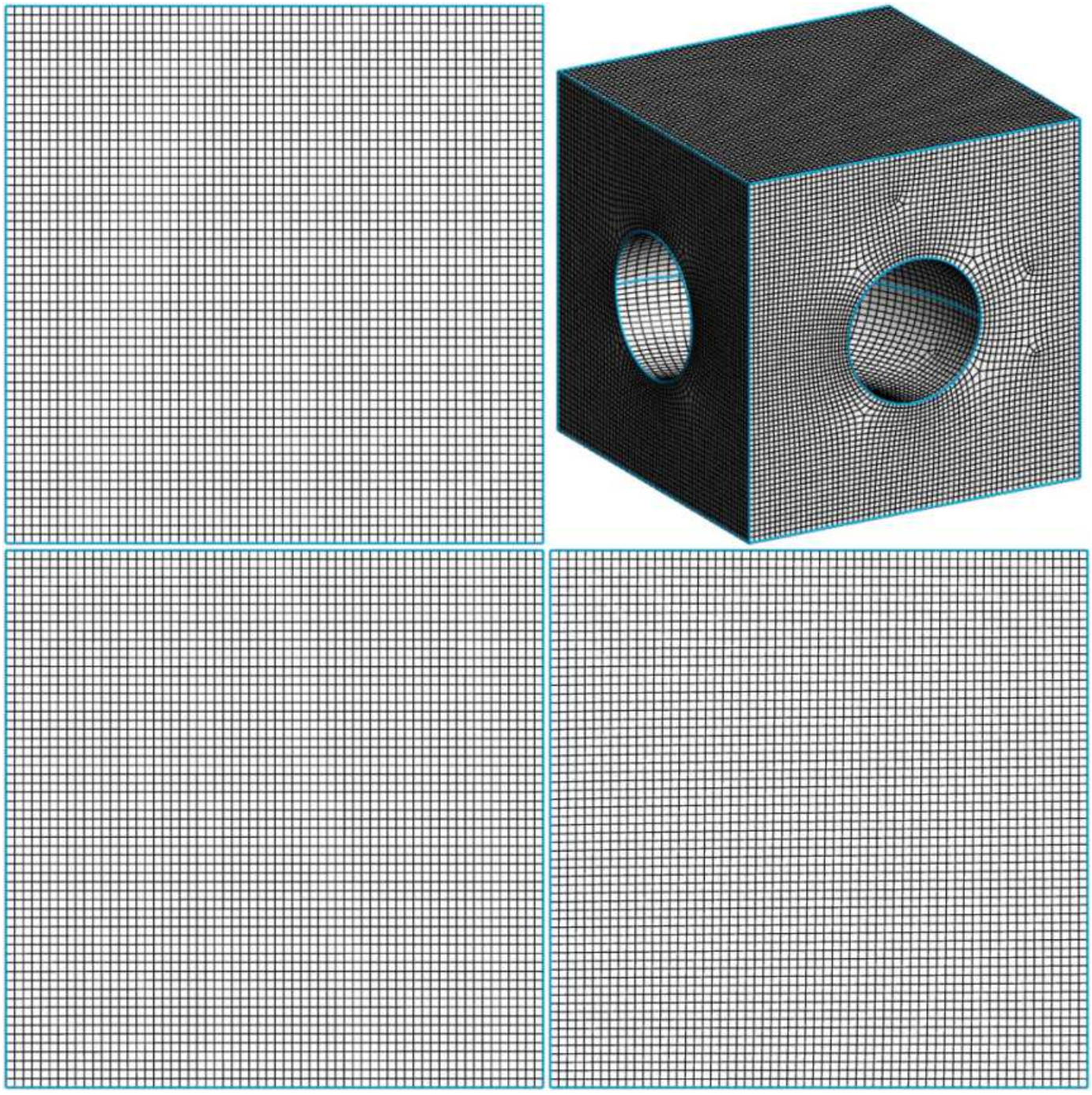


Model: B28 (from Mambo dataset)
CAD: 10 corners, 15 curves, 7 faces
Cross field: 10 singularities detected
Timings: 16.7728 sec to generate the unstructured mesh, 2.53128 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27584	28520	166	73
Quasi-structured	26298	27234	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0220939	0.0778927	0.12865	0.52614	0.990489	0.999435
Quasi-structured	0.0398361	0.079782	0.151958	0.768931	0.990563	0.99942

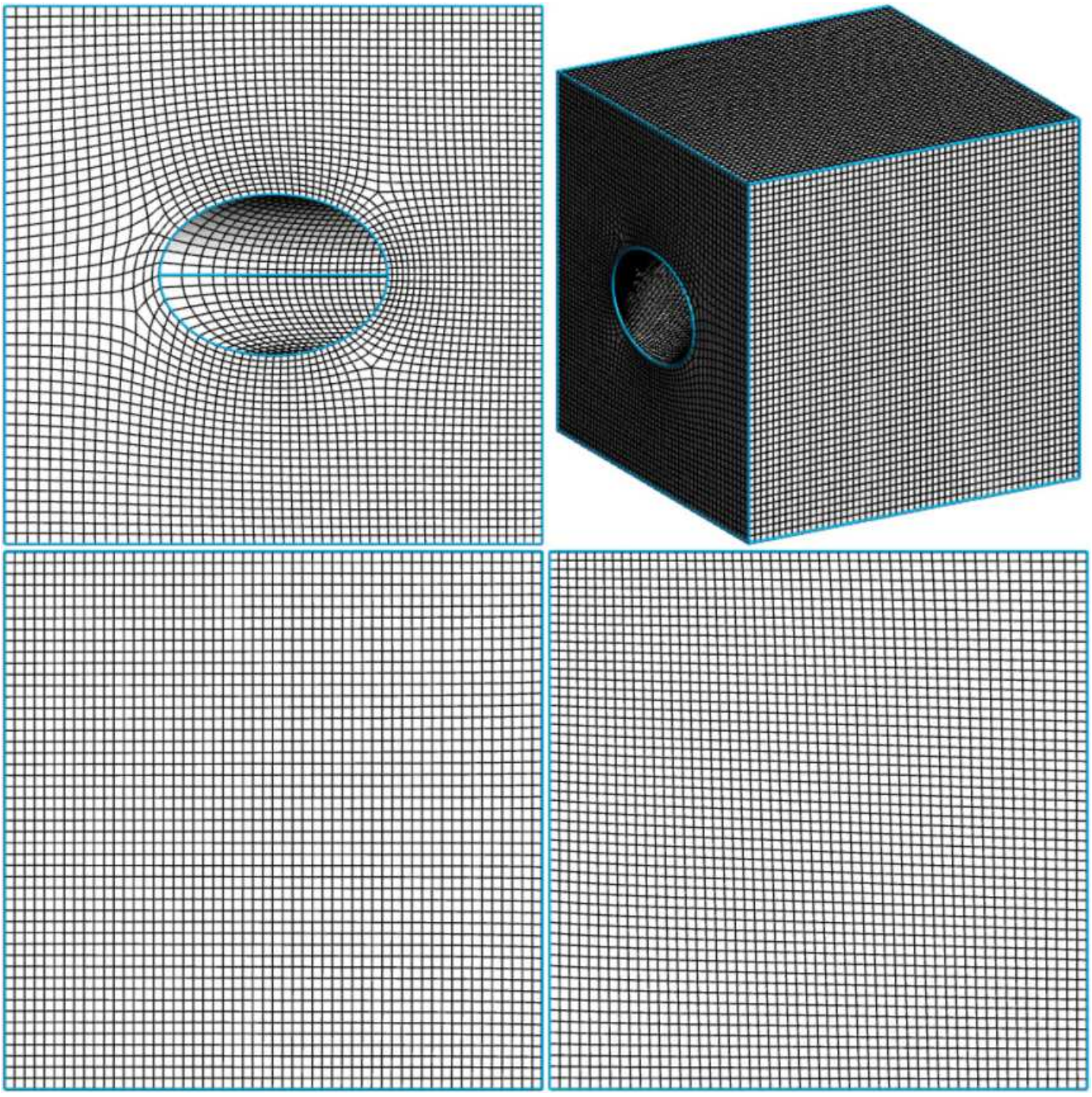


Model: B29 (from Mambo dataset)
CAD: 10 corners, 15 curves, 7 faces
Cross field: 8 singularities detected
Timings: 11.2766 sec to generate the unstructured mesh, 1.21612 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20414	21216	178	67
Quasi-structured	19780	20582	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0419482	0.176563	0.34912	0.470725	0.983568	0.994886
Quasi-structured	0.0845832	0.180302	0.58571	0.489227	0.977918	0.993331

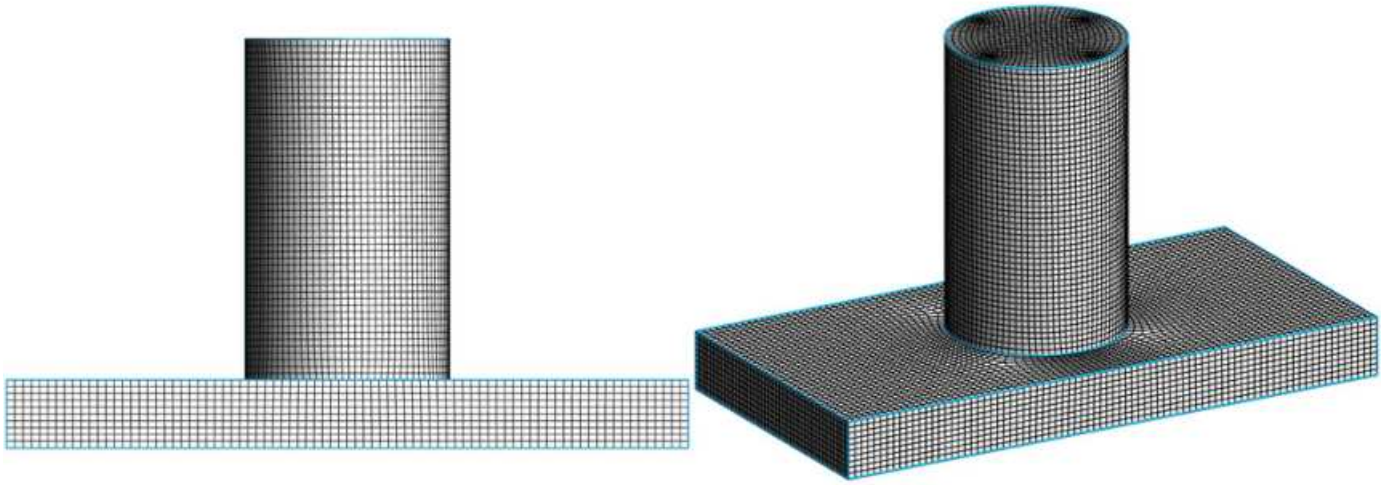


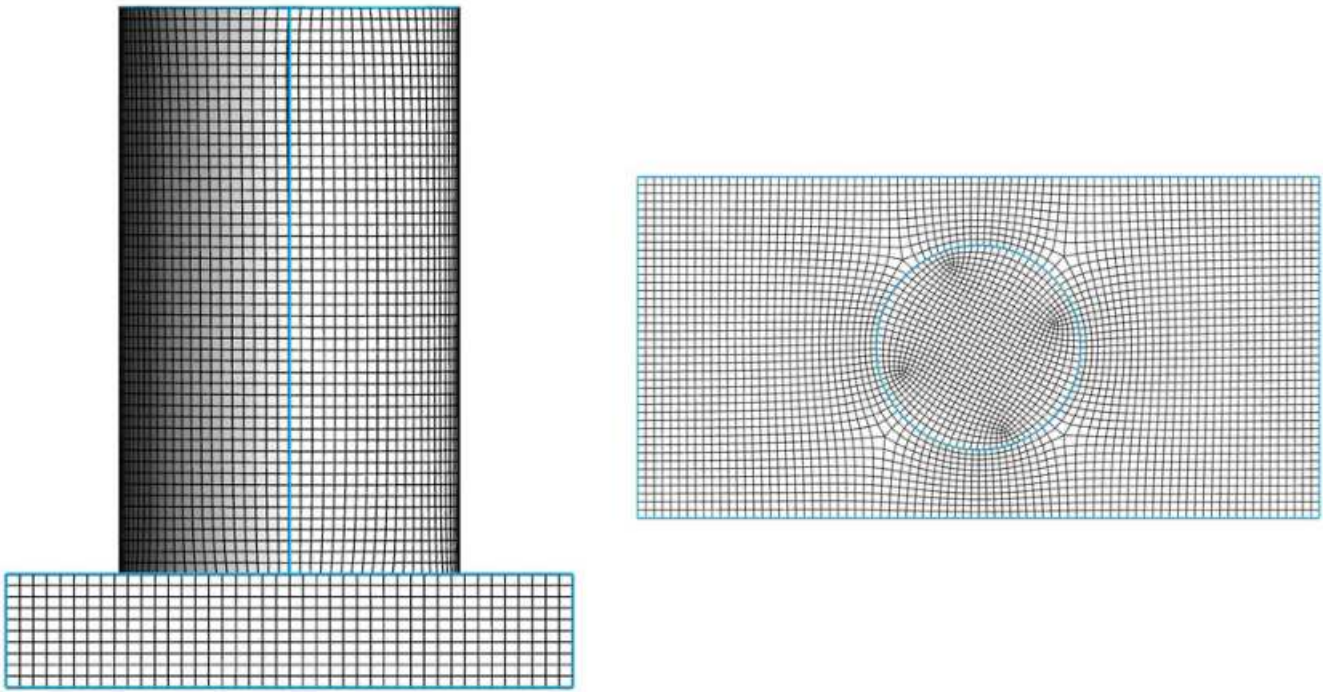
Model: B2 (from Mambo dataset)
CAD: 10 corners, 15 curves, 8 faces
Cross field: 8 singularities detected
Timings: 7.32184 sec to generate the unstructured mesh, 0.797247 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14236	14962	80	50
Quasi-structured	14568	15294	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0349827	0.111274	0.202772	0.562142	0.987389	0.995429
Quasi-structured	0.0375706	0.109806	0.205681	0.860286	0.994919	0.999551



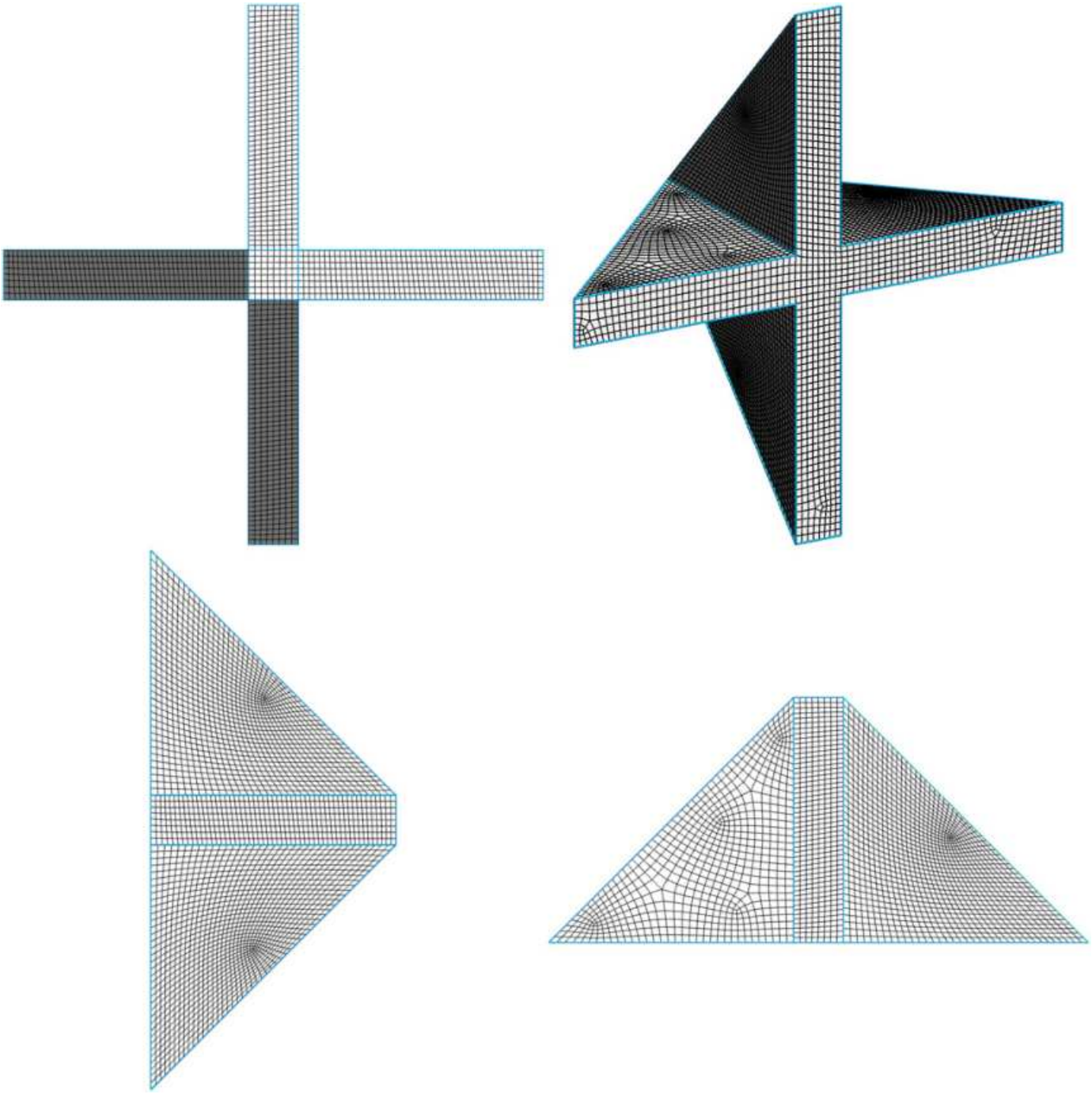


Model: B30 (from Mambo dataset)
CAD: 16 corners, 28 curves, 14 faces
Cross field: 8 singularities detected
Timings: 3.21917 sec to generate the unstructured mesh, 1.47286 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7792	8690	352	3
Quasi-structured	10912	11810	22	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0951965	0.27612	0.448198	0.475231	0.957563	0.983841
Quasi-structured	0.0545481	0.239555	1.20178	0.315659	0.885803	0.907435

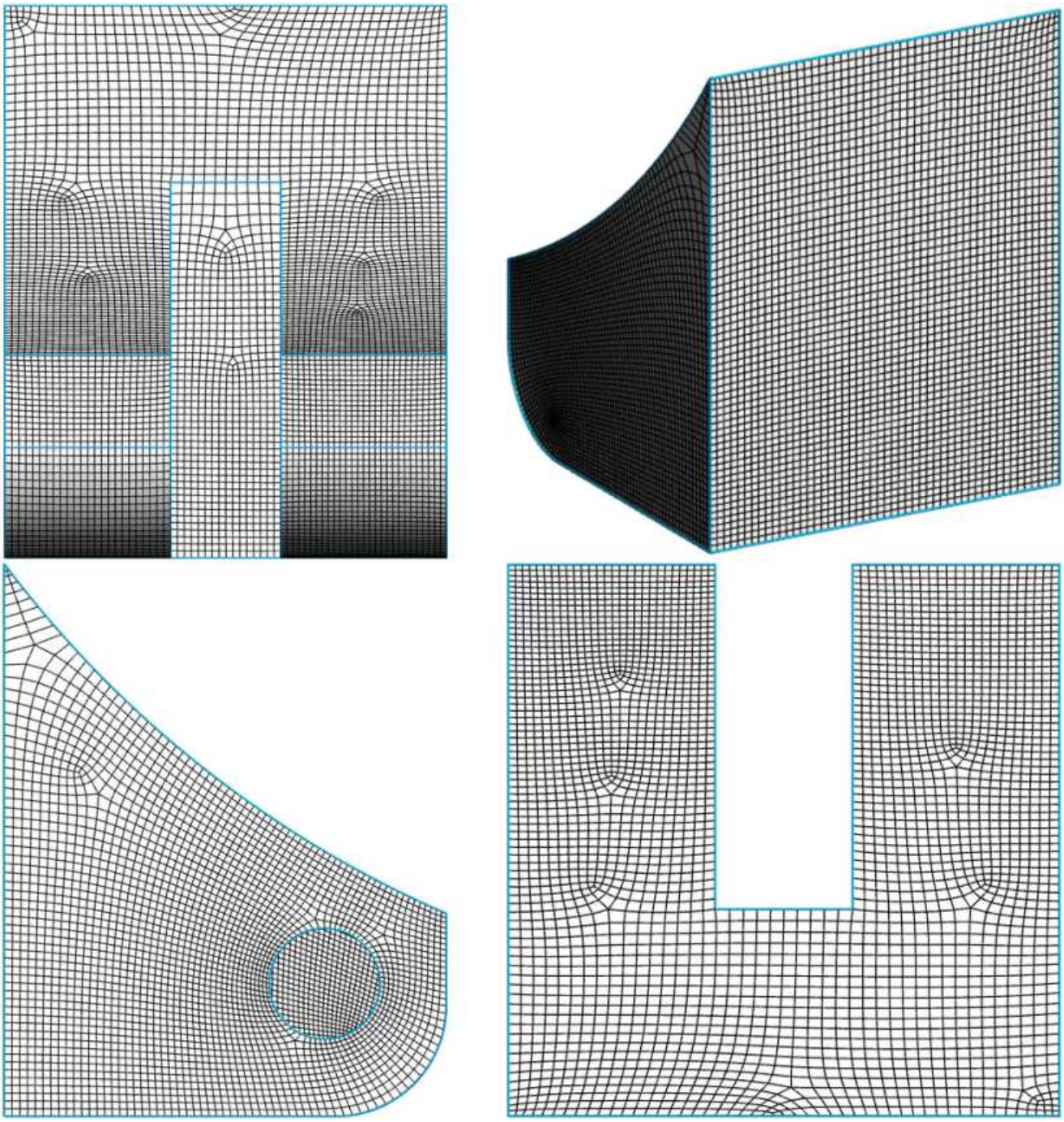


Model: B31 (from Mambo dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 10 singularities detected
Timings: 11.864 sec to generate the unstructured mesh, 2.60425 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22416	23684	258	3
Quasi-structured	23432	24700	54	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0161073	0.0649694	0.169246	0.319046	0.981215	0.995833
Quasi-structured	0.0161986	0.0633869	0.366731	0.426273	0.984841	0.993218

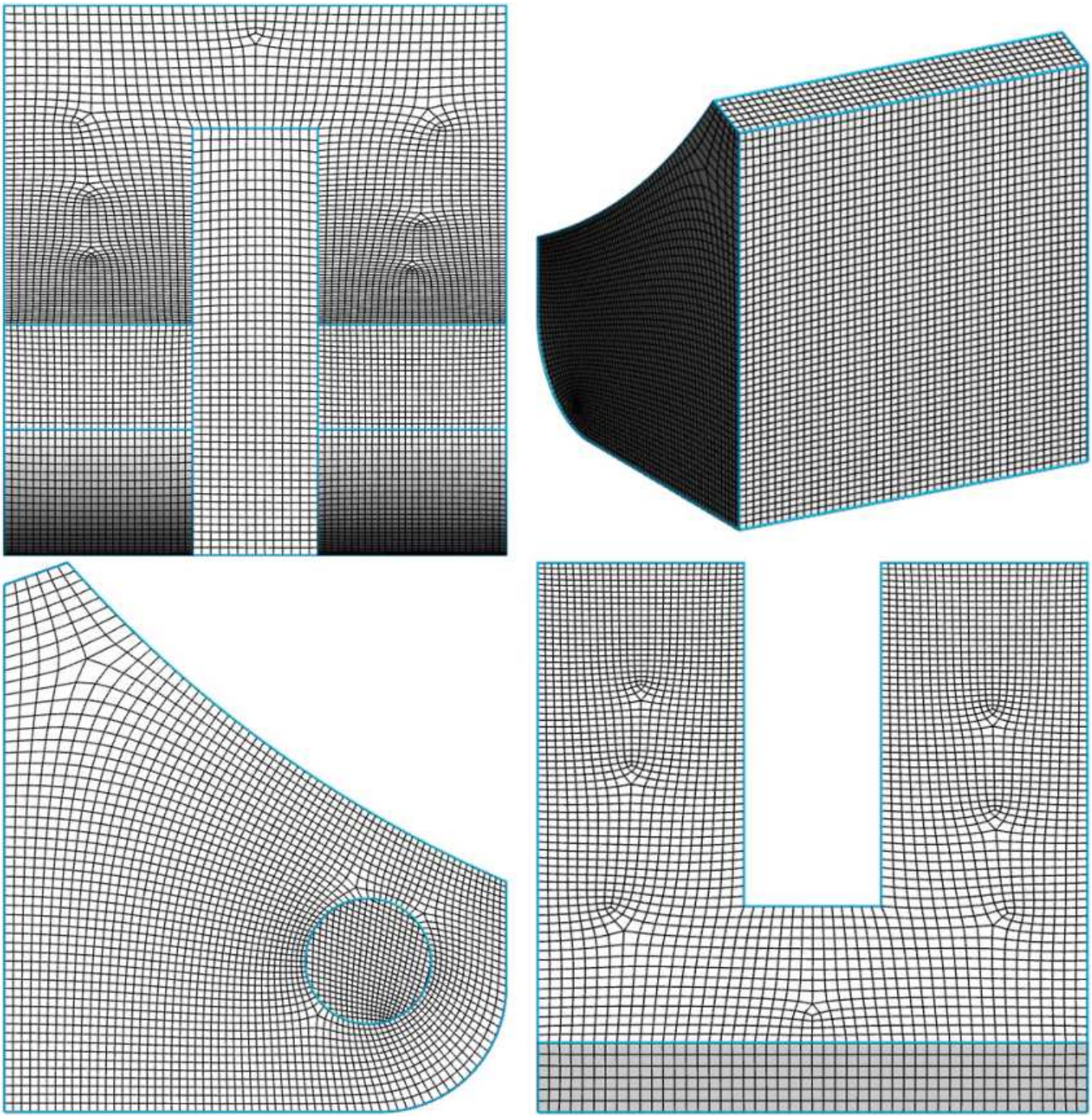


Model: B32 (from Mambo dataset)
CAD: 26 corners, 39 curves, 15 faces
Cross field: 10 singularities detected
Timings: 11.5167 sec to generate the unstructured mesh, 2.58061 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22666	23989	257	2
Quasi-structured	23194	24517	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0174782	0.0630977	0.15176	0.349636	0.982727	0.99578
Quasi-structured	0.015732	0.0621927	0.258499	0.651233	0.986136	0.994222

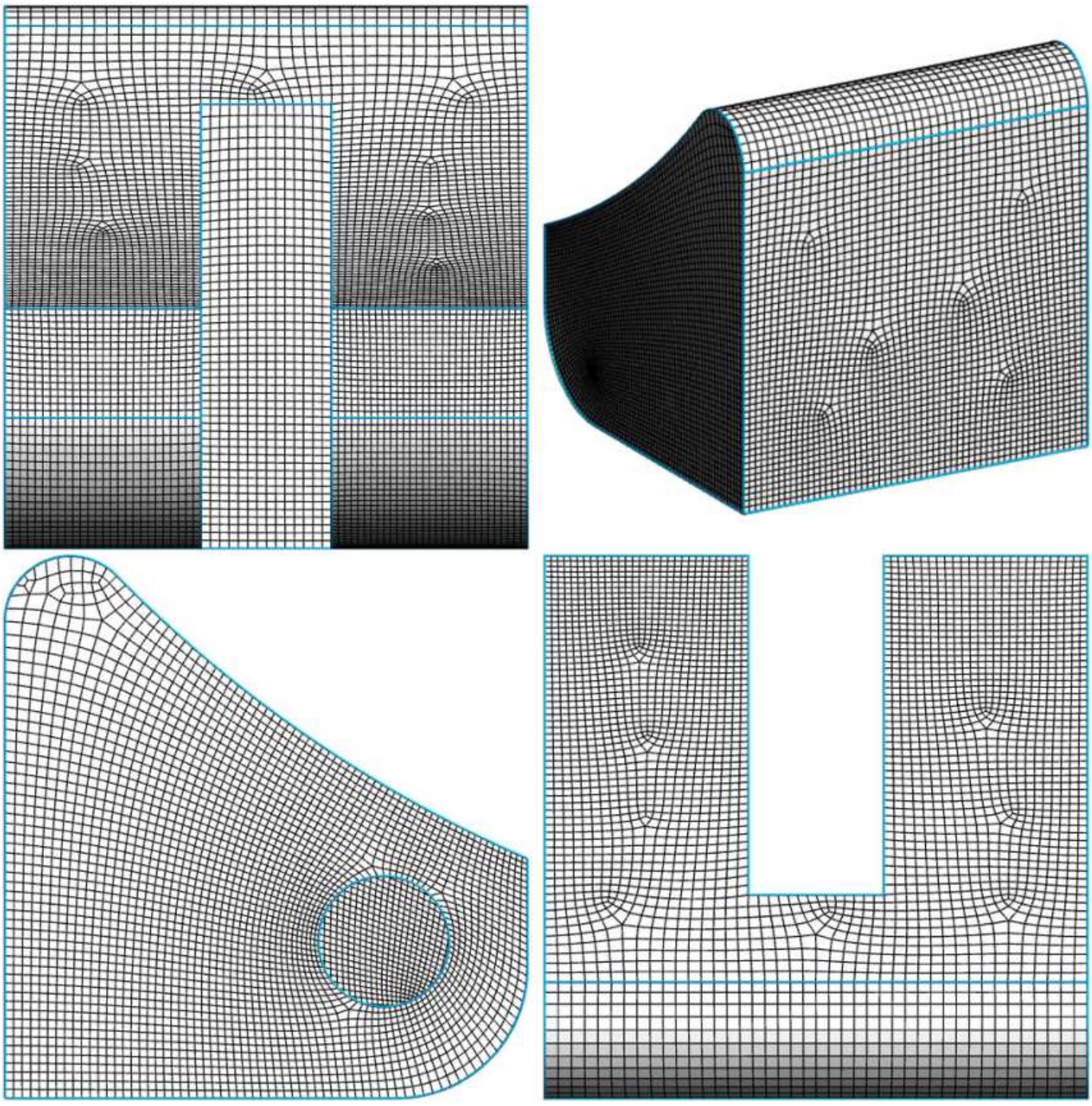


Model: B33 (from Mambo dataset)
CAD: 26 corners, 39 curves, 15 faces
Cross field: 10 singularities detected
Timings: 11.6765 sec to generate the unstructured mesh, 2.96168 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23512	24845	256	2
Quasi-structured	24898	26231	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.017402	0.0612774	0.152238	0.195743	0.983695	0.997436
Quasi-structured	0.0152016	0.0595101	0.148982	0.642833	0.982943	0.994302

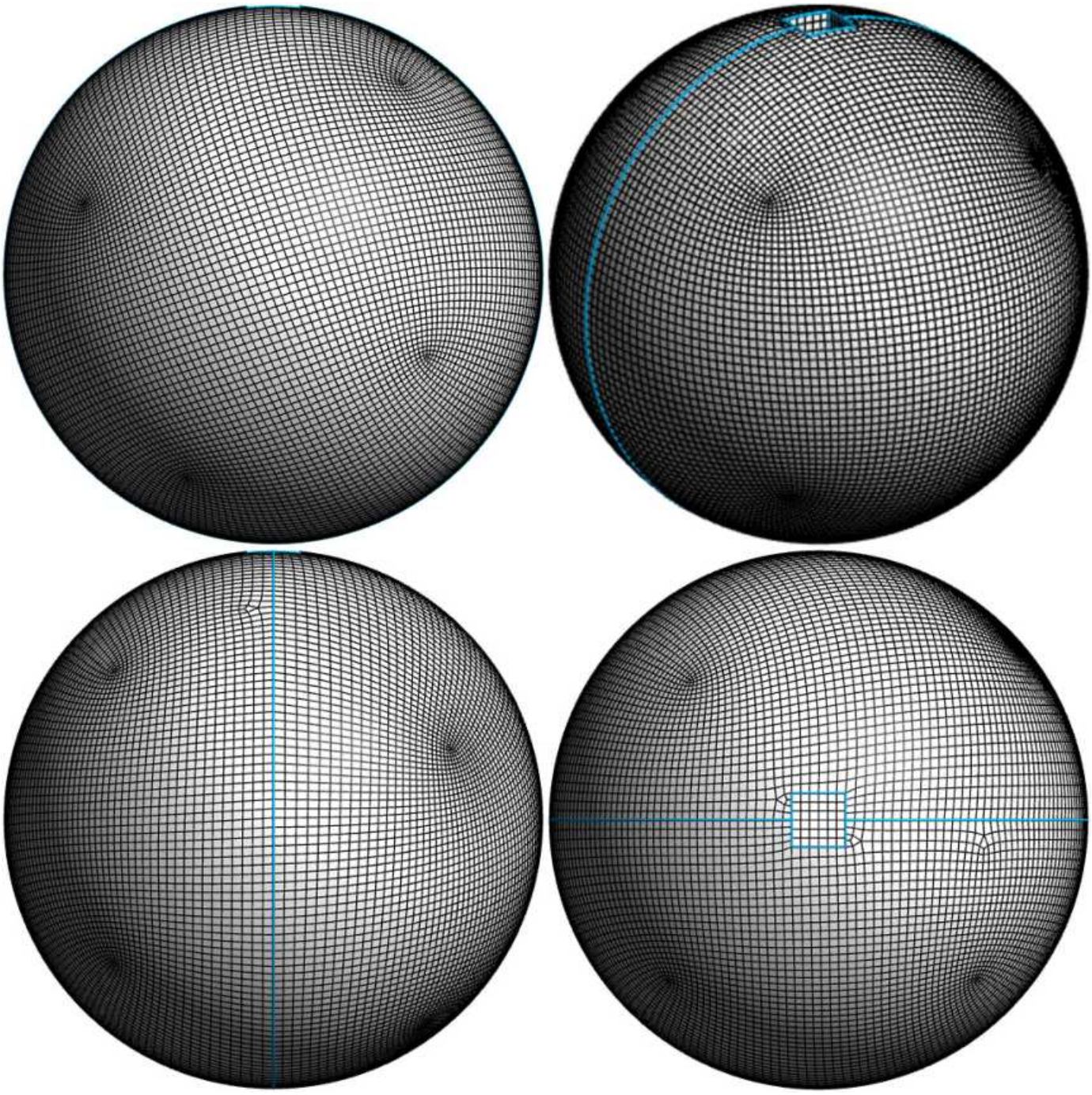


Model: B34 (from Mambo dataset)
CAD: 11 corners, 18 curves, 7 faces
Cross field: 8 singularities detected
Timings: 10.7982 sec to generate the unstructured mesh, 7.73525 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13076	13363	146	3
Quasi-structured	13574	13861	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0446455	0.156622	0.320593	0.570573	0.982868	0.997644
Quasi-structured	0.037377	0.152668	0.283959	0.784062	0.991426	0.995874

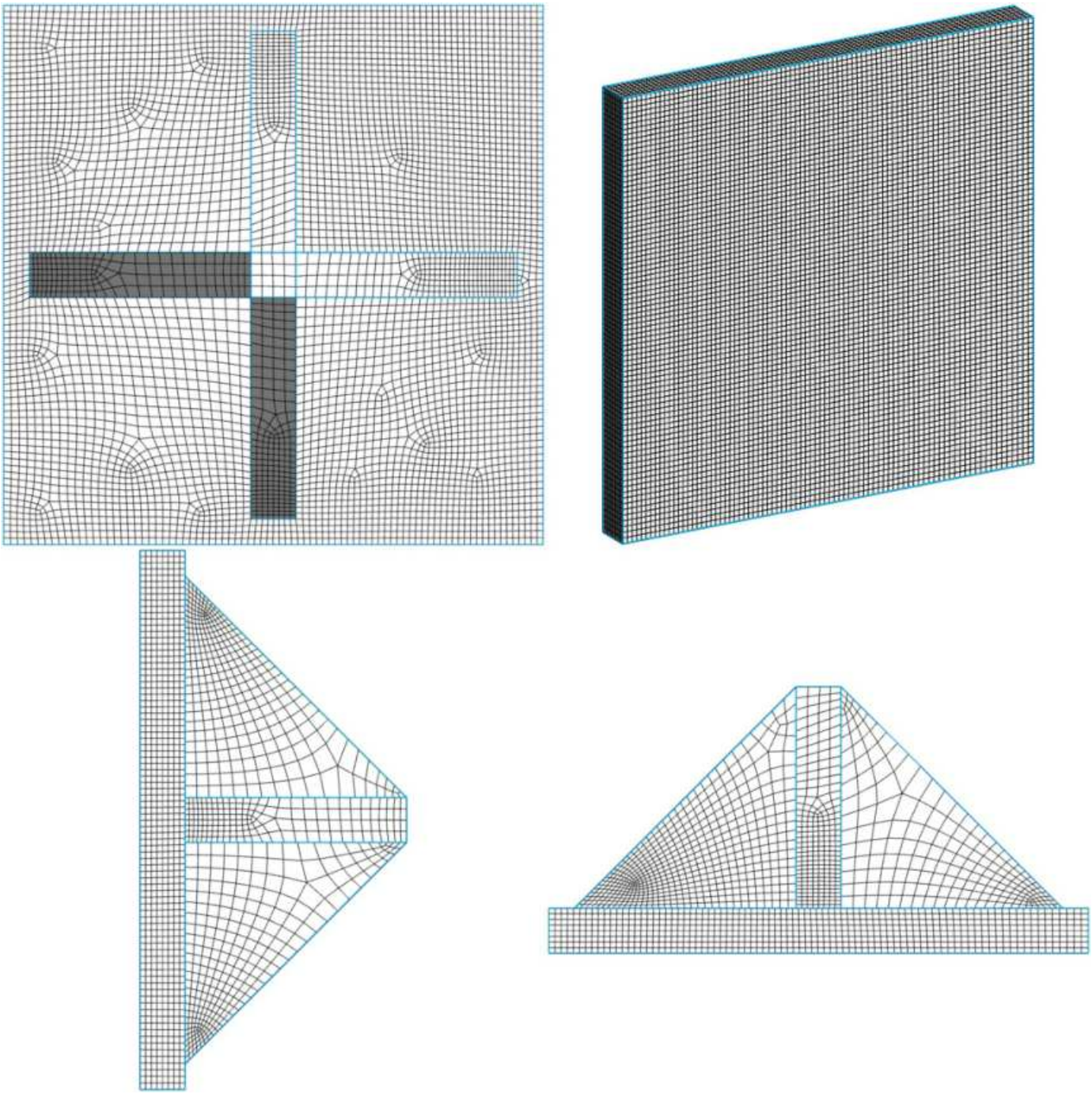


Model: B35 (from Mambo dataset)
CAD: 24 corners, 40 curves, 19 faces
Cross field: 20 singularities detected
Timings: 8.78483 sec to generate the unstructured mesh, 1.7317 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17584	18918	272	2
Quasi-structured	18442	19776	62	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0925139	0.30911	1.23972	0.467779	0.981763	0.996056
Quasi-structured	0.0698905	0.30191	1.45713	0.559661	0.977596	0.995423

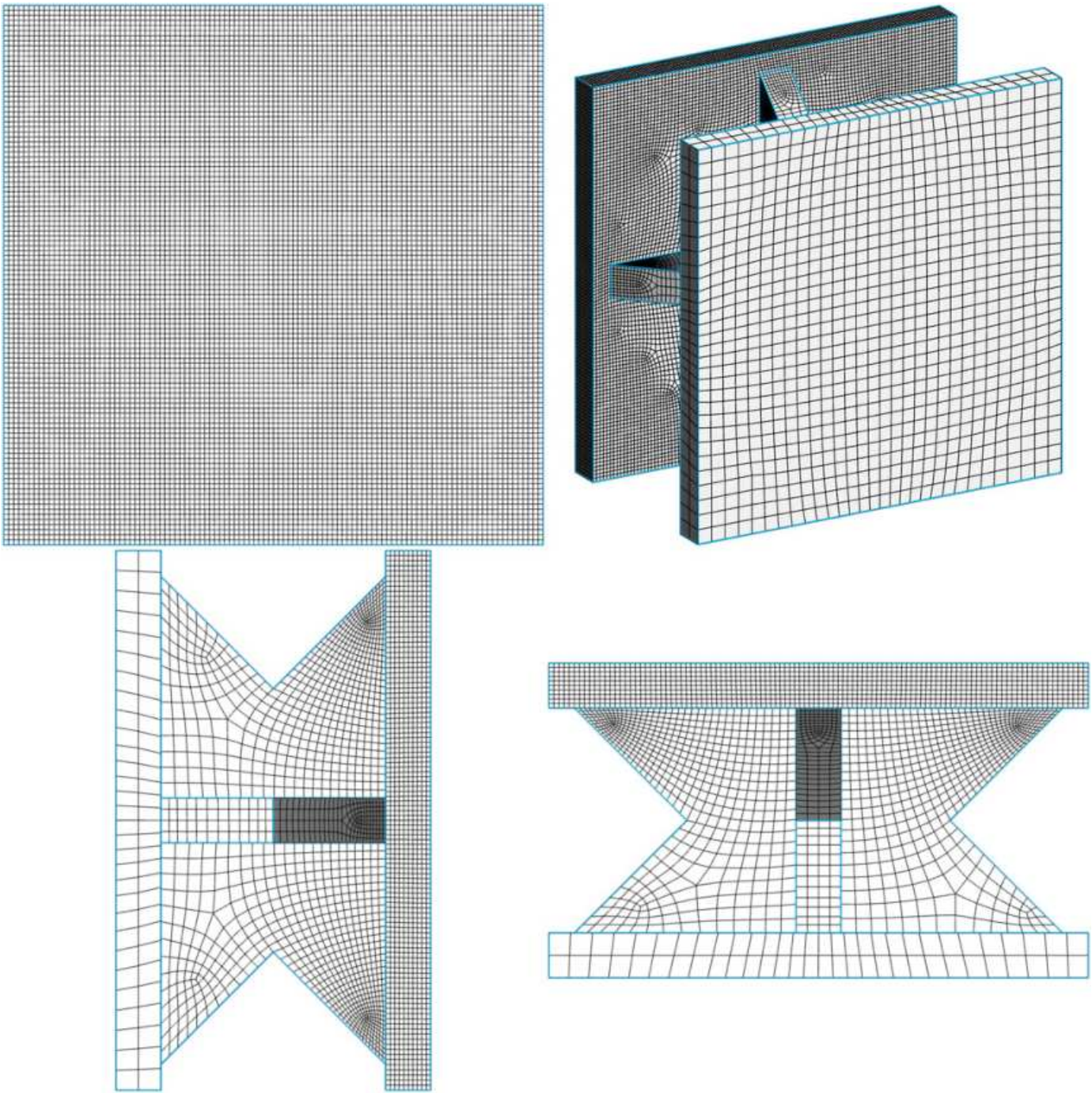


Model: B36 (from Mambo dataset)
CAD: 48 corners, 72 curves, 28 faces
Cross field: 8 singularities detected
Timings: 14.4447 sec to generate the unstructured mesh, 4.54763 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30896	32938	452	16
Quasi-structured	31999	34041	88	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0719189	0.28328	1.23425	0.481191	0.983833	0.999066
Quasi-structured	0.0631064	0.279383	1.40275	0.648928	0.982914	0.997934

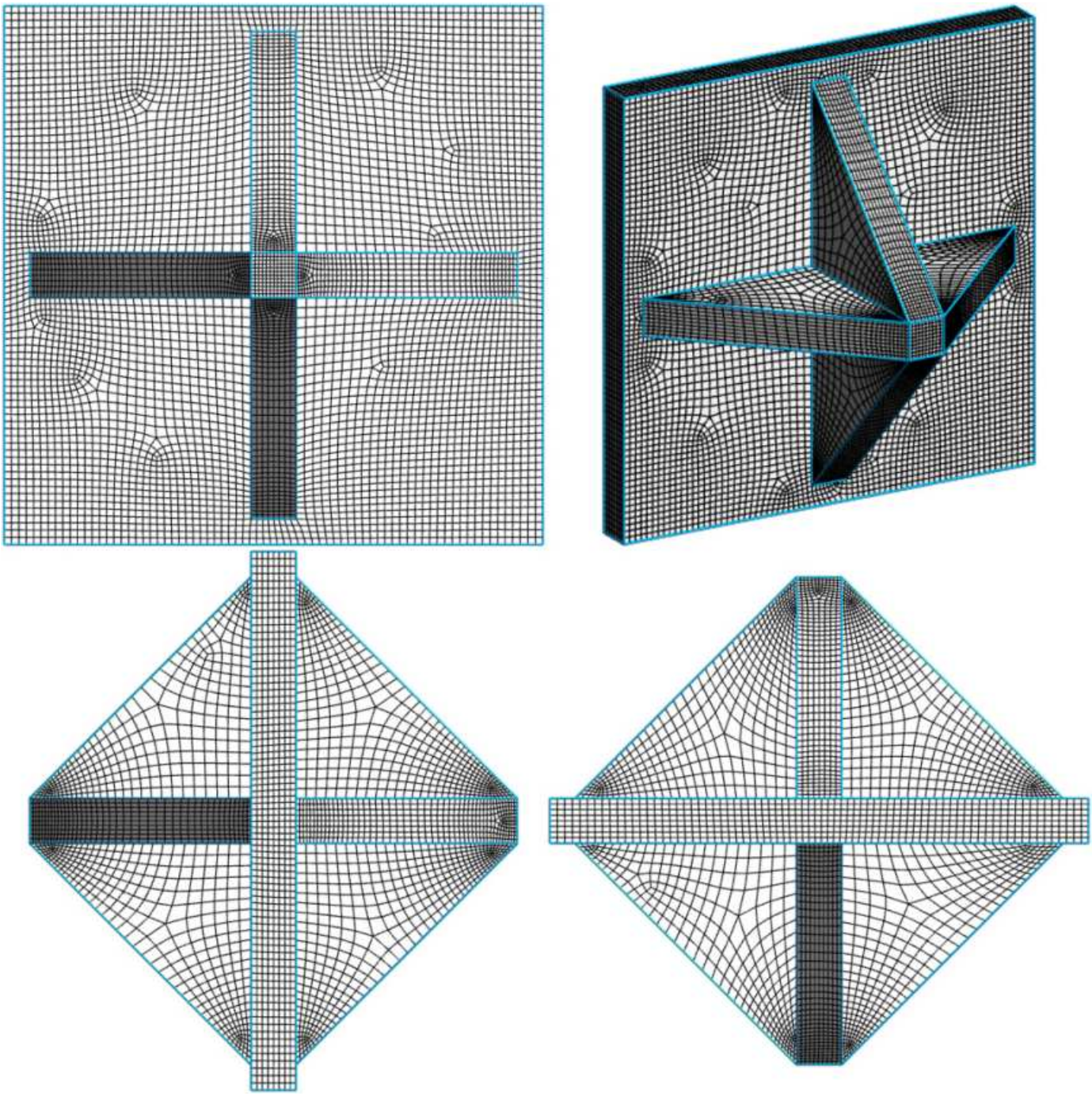


Model: B37 (from Mambo dataset)
CAD: 40 corners, 68 curves, 32 faces
Cross field: 38 singularities detected
Timings: 9.01942 sec to generate the unstructured mesh, 3.33466 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19330	21518	618	9
Quasi-structured	20044	22232	120	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0674156	0.327655	0.853621	0.220268	0.954072	0.986137
Quasi-structured	0.0589487	0.31976	1.3162	0.566868	0.952563	0.983151

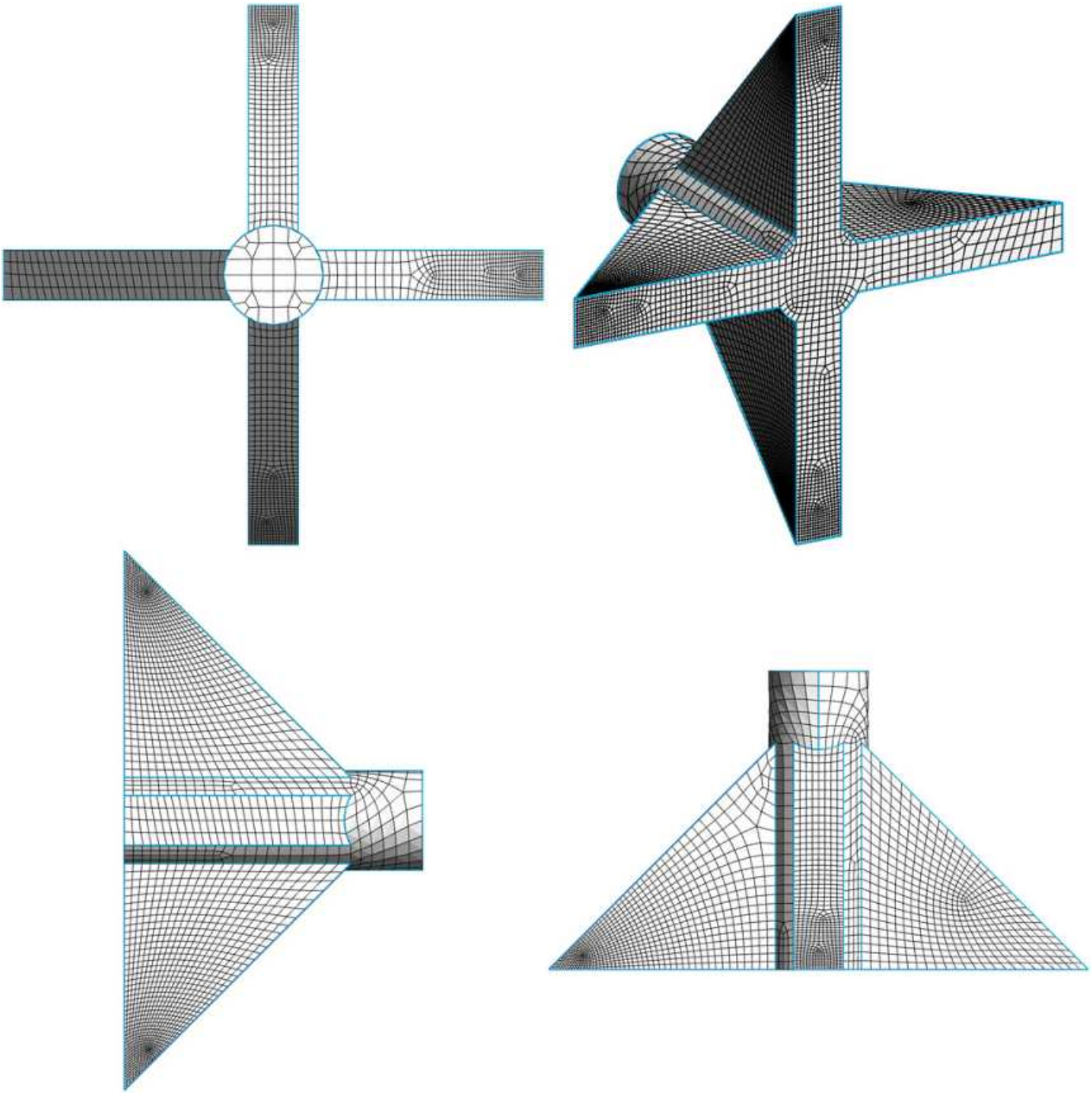


Model: B38 (from Mambo dataset)
CAD: 28 corners, 42 curves, 16 faces
Cross field: 18 singularities detected
Timings: 3.63993 sec to generate the unstructured mesh, 1.55381 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7916	8914	344	6
Quasi-structured	10163	11161	82	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0495998	0.251289	1.05362	0.130115	0.959744	0.993943
Quasi-structured	0.0345644	0.225366	1.10859	0.363542	0.920771	0.938822

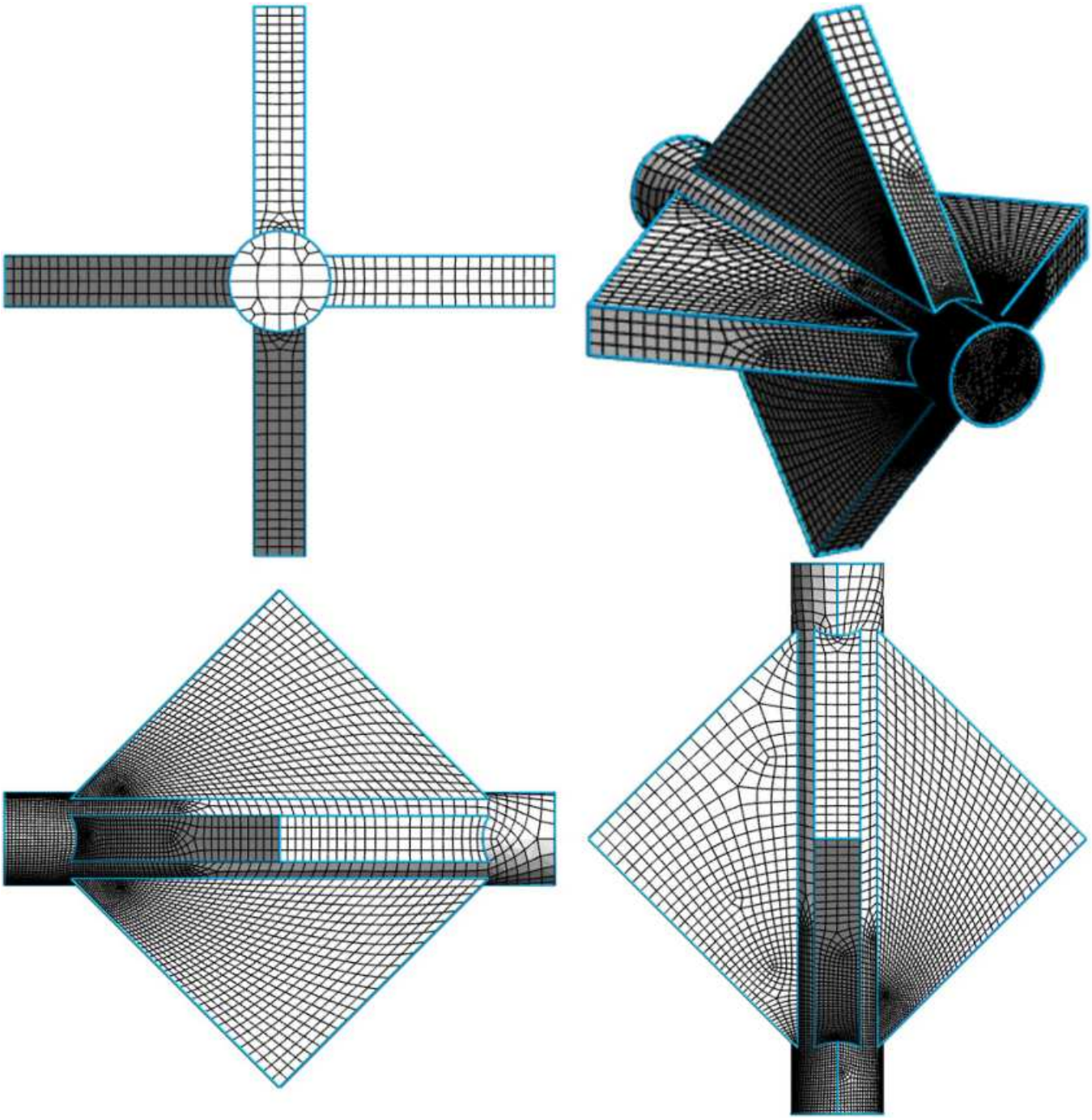


Model: B39 (from Mambo dataset)
CAD: 32 corners, 48 curves, 20 faces
Cross field: 16 singularities detected
Timings: 5.08094 sec to generate the unstructured mesh, 2.33801 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10042	11316	489	13
Quasi-structured	13149	14423	86	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.038941	0.278271	1.05583	0.172618	0.948942	0.986113
Quasi-structured	0.0393641	0.256649	1.10872	0.375408	0.880394	0.902107

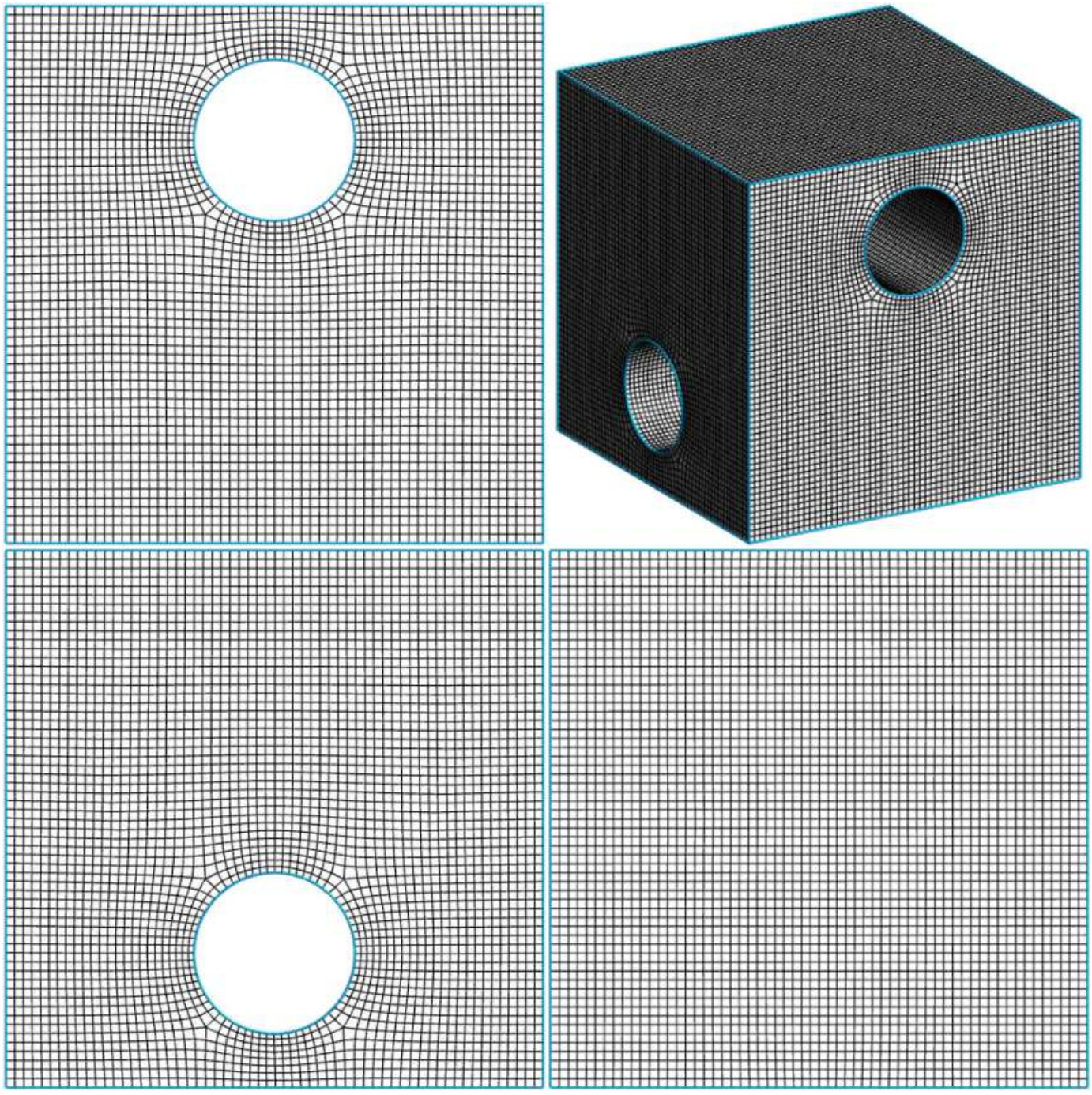


Model: B3 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 16 singularities detected
Timings: 15.5294 sec to generate the unstructured mesh, 1.70298 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30590	31584	152	150
Quasi-structured	31056	32050	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0594009	0.157264	0.264768	0.586752	0.991157	0.999764
Quasi-structured	0.106295	0.155827	0.25748	0.900702	0.998463	0.999676

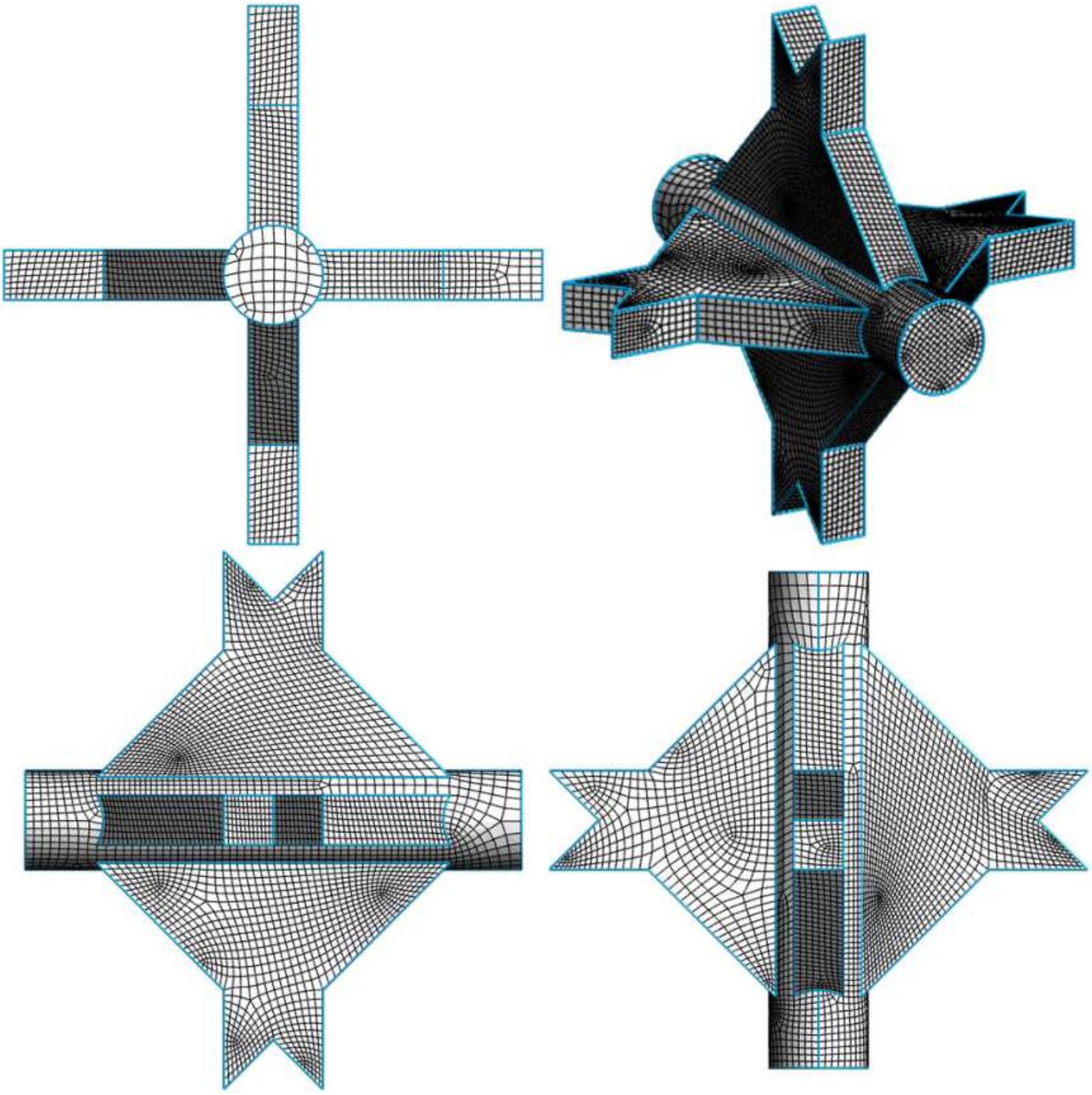


Model: B40 (from Mambo dataset)
CAD: 64 corners, 96 curves, 36 faces
Cross field: 32 singularities detected
Timings: 4.93151 sec to generate the unstructured mesh, 1.91272 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9884	11416	639	13
Quasi-structured	12448	13980	104	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0849321	0.291899	0.659757	0.179913	0.935168	0.972375
Quasi-structured	0.0464979	0.263408	0.888695	0.358049	0.901627	0.937655

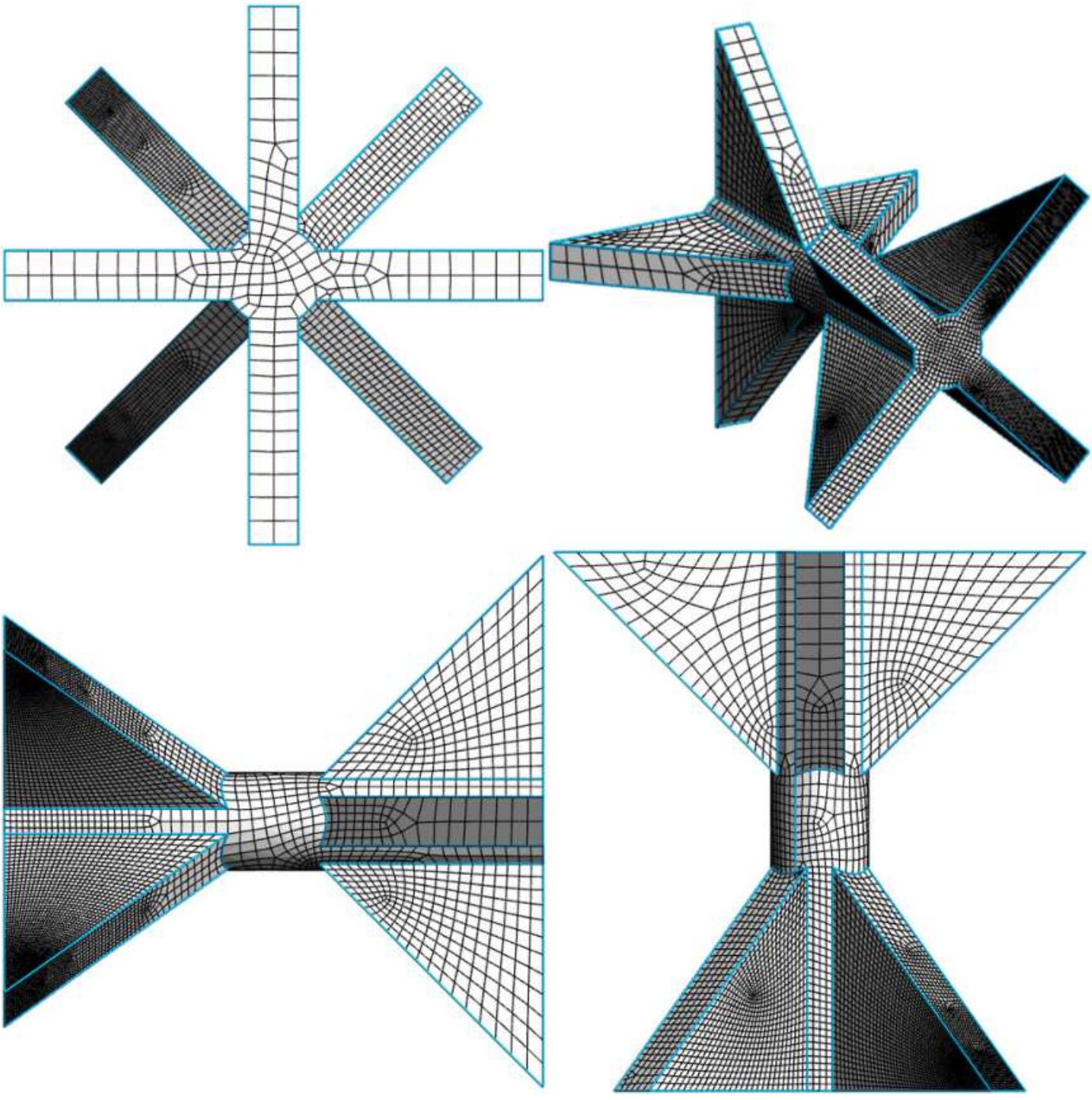


Model: B41 (from Mambo dataset)
CAD: 50 corners, 76 curves, 28 faces
Cross field: 22 singularities detected
Timings: 5.92419 sec to generate the unstructured mesh, 3.24881 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12498	14088	624	19
Quasi-structured	17290	18880	94	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.043269	0.2605	1.3732	0.0806163	0.953707	0.994146
Quasi-structured	0.0257631	0.22596	1.28223	0.0806163	0.90941	0.924384

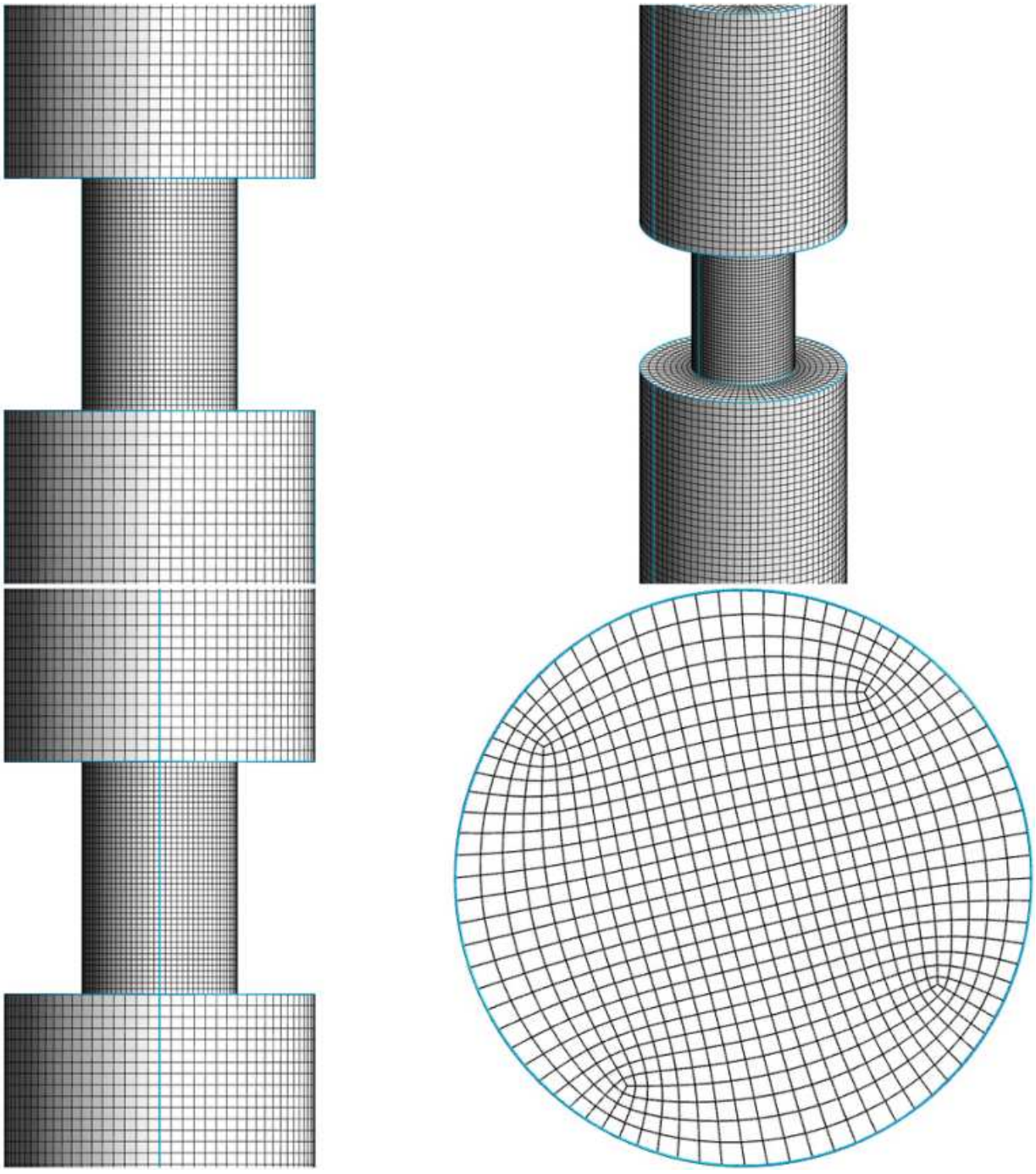


Model: B42 (from Mambo dataset)
CAD: 12 corners, 18 curves, 10 faces
Cross field: 8 singularities detected
Timings: 5.29866 sec to generate the unstructured mesh, 0.590182 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12048	12776	30	0
Quasi-structured	12052	12780	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0427952	0.120939	0.179568	0.669336	0.991214	0.999392
Quasi-structured	0.0554436	0.120832	0.182374	0.861944	0.996704	0.999749

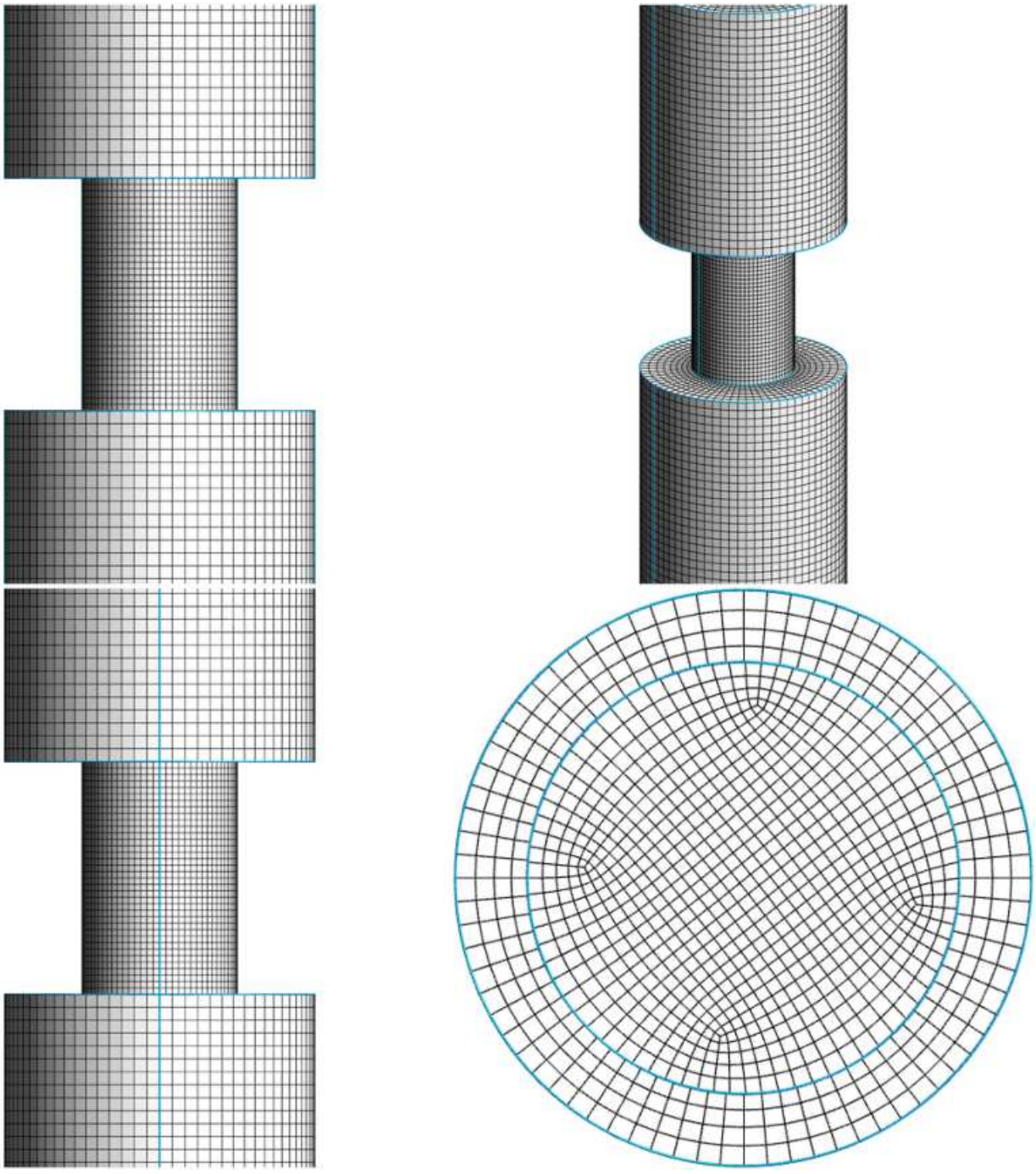


Model: B43 (from Mambo dataset)
CAD: 20 corners, 30 curves, 16 faces
Cross field: 8 singularities detected
Timings: 6.12591 sec to generate the unstructured mesh, 0.647198 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13868	14916	36	4
Quasi-structured	13868	14916	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0317688	0.120454	0.174057	0.613377	0.992033	0.999961
Quasi-structured	0.035133	0.120488	0.166788	0.83991	0.997098	0.999963

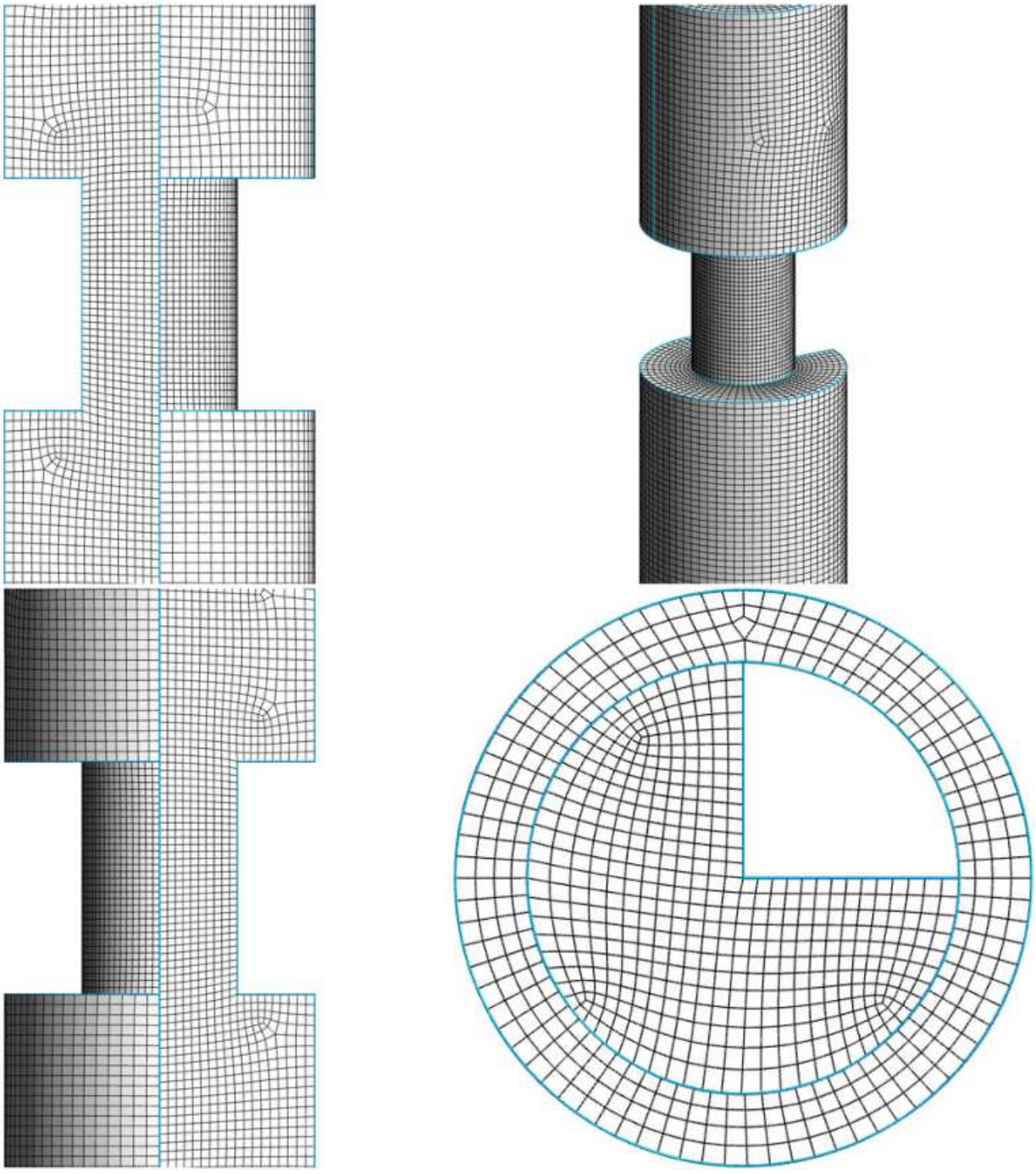


Model: B44 (from Mambo dataset)
CAD: 28 corners, 43 curves, 16 faces
Cross field: 6 singularities detected
Timings: 6.54206 sec to generate the unstructured mesh, 1.41164 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13622	14823	154	5
Quasi-structured	13886	15087	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0302277	0.121227	0.230185	0.551982	0.972909	0.987031
Quasi-structured	0.0337229	0.119923	0.21171	0.732706	0.982061	0.991666

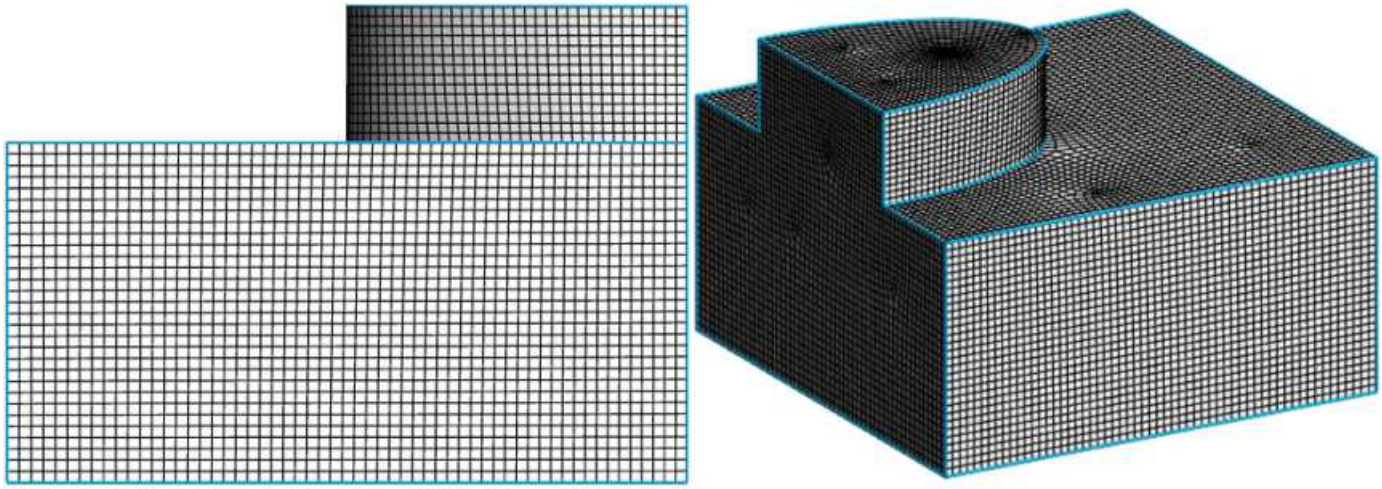


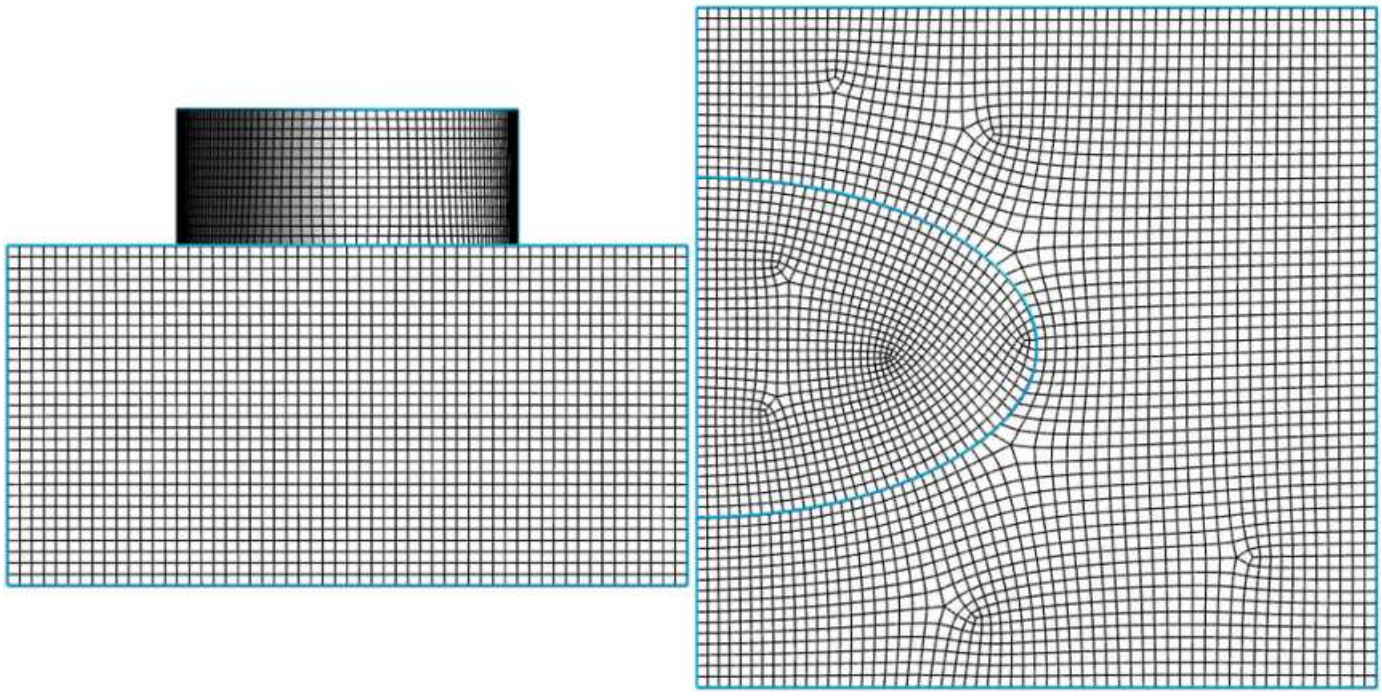
Model: B45 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 4 singularities detected
Timings: 8.76344 sec to generate the unstructured mesh, 1.13863 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15036	15806	74	1
Quasi-structured	15130	15900	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0581092	0.169736	0.307692	0.461495	0.992446	0.998126
Quasi-structured	0.0515716	0.168995	0.352266	0.79755	0.997071	0.998663



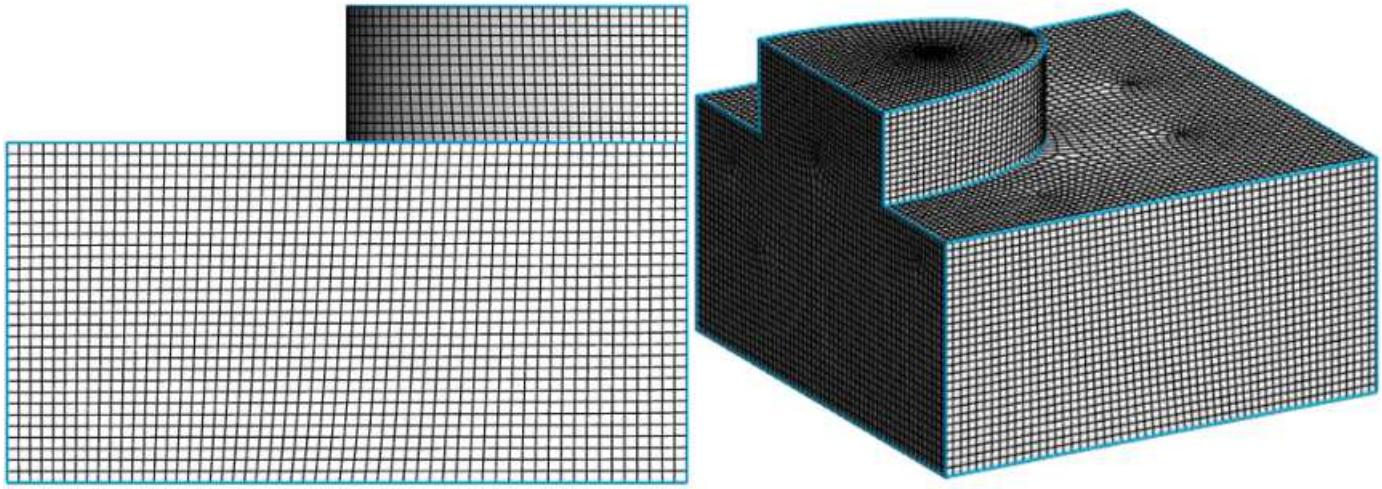


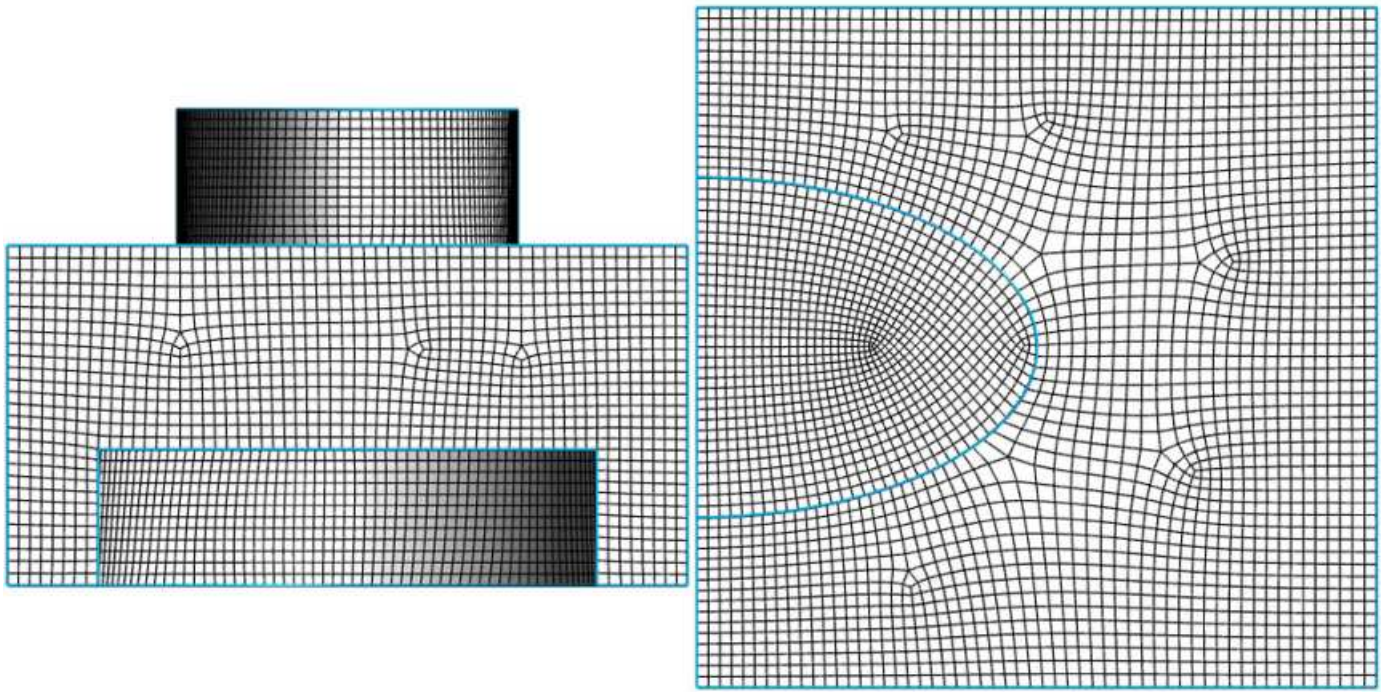
Model: B46 (from Mambo dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 7.98777 sec to generate the unstructured mesh, 1.49156 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15650	16644	143	1
Quasi-structured	15726	16720	44	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.049078	0.170247	0.308585	0.534836	0.985921	0.99663
Quasi-structured	0.0463109	0.169242	0.455913	0.666654	0.993587	0.997598



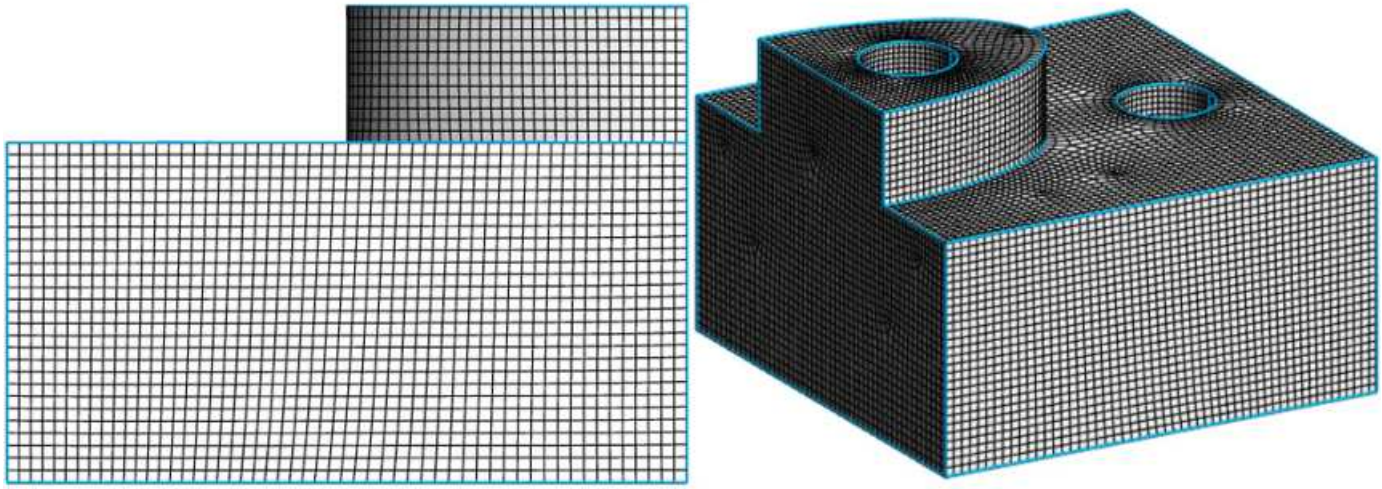


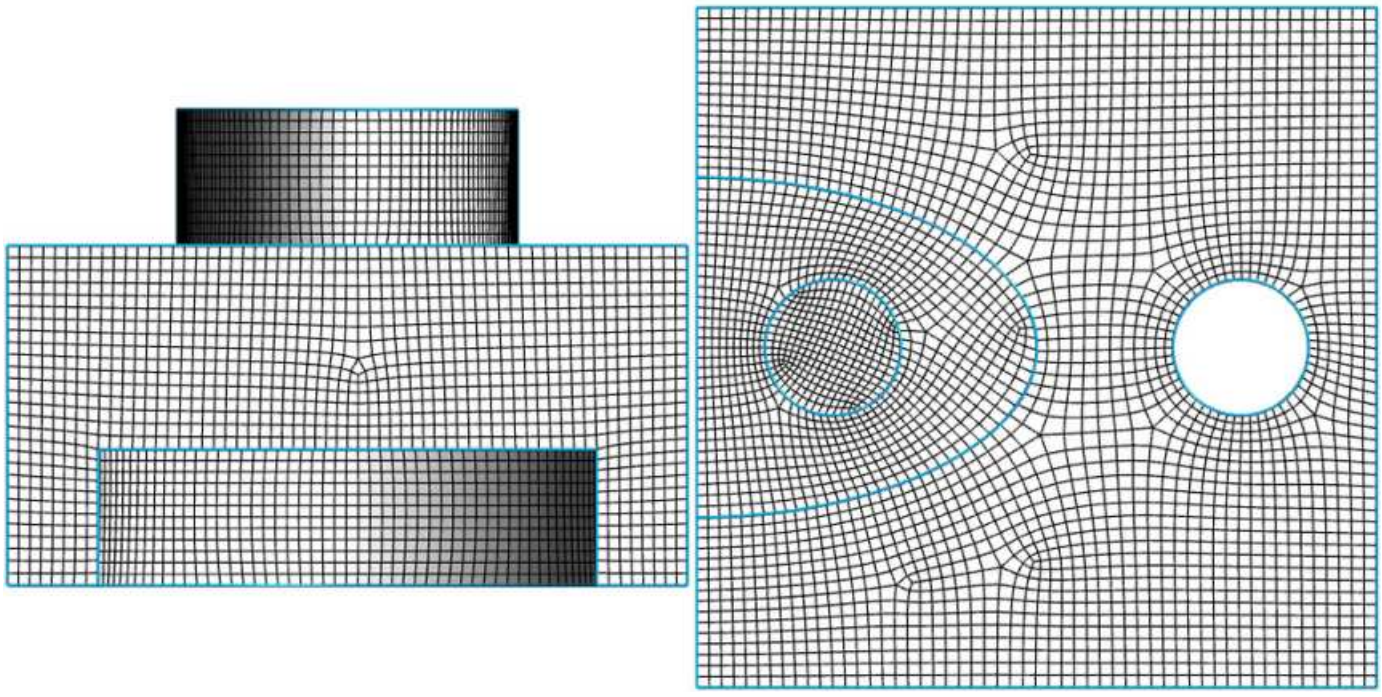
Model: B47 (from Mambo dataset)
CAD: 24 corners, 36 curves, 15 faces
Cross field: 20 singularities detected
Timings: 8.46525 sec to generate the unstructured mesh, 1.47744 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16742	17996	206	4
Quasi-structured	16674	17928	52	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0450988	0.167828	0.327528	0.482525	0.984252	0.9971
Quasi-structured	0.046849	0.167909	0.419636	0.638437	0.990011	0.997416



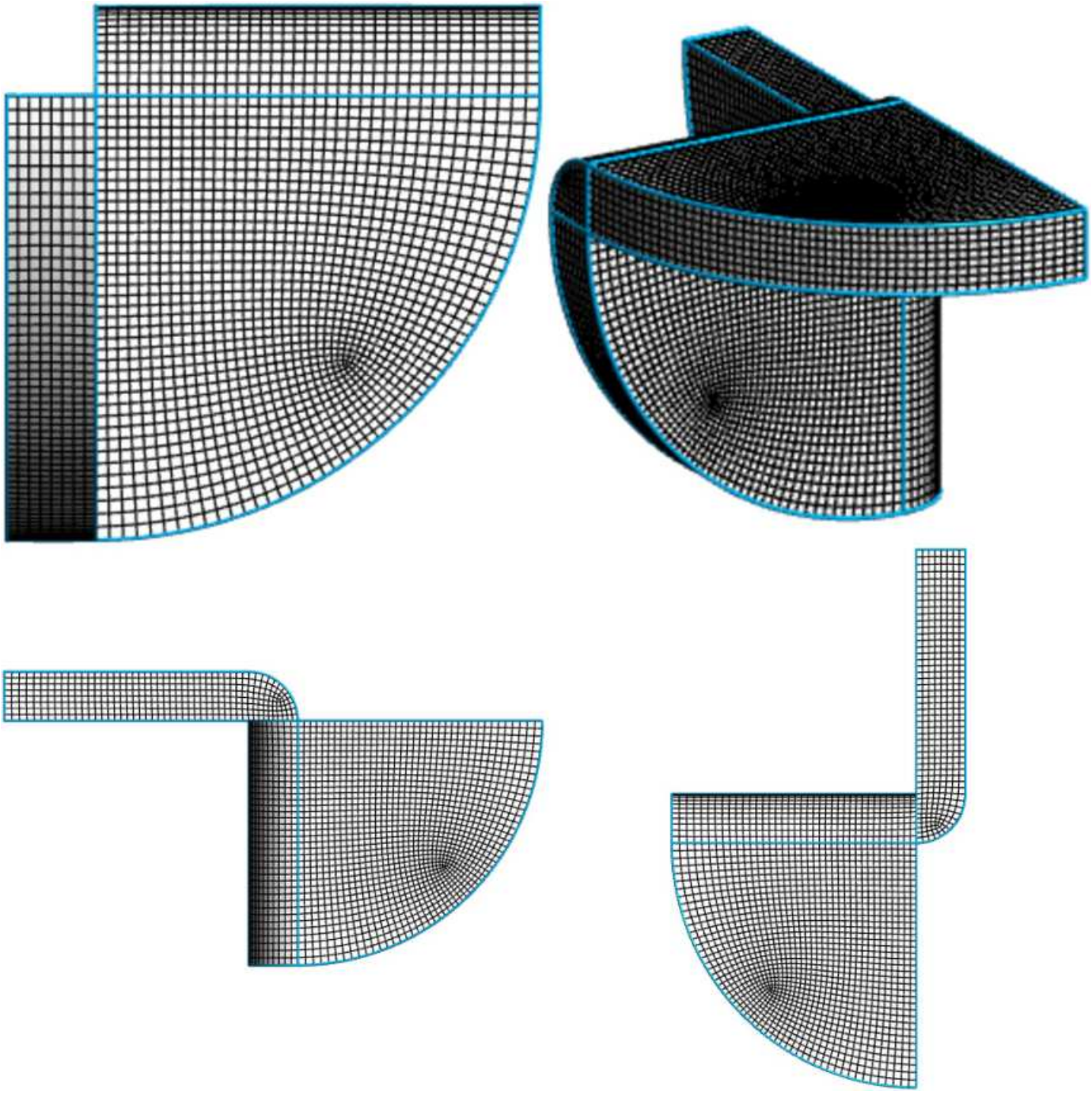


Model: B48 (from Mambo dataset)
CAD: 14 corners, 27 curves, 15 faces
Cross field: 10 singularities detected
Timings: 6.18978 sec to generate the unstructured mesh, 0.88227 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10776	11617	126	7
Quasi-structured	11410	12251	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.036175	0.125332	0.199045	0.586718	0.983319	0.997375
Quasi-structured	0.0380324	0.121161	0.164569	0.852426	0.995455	0.997868

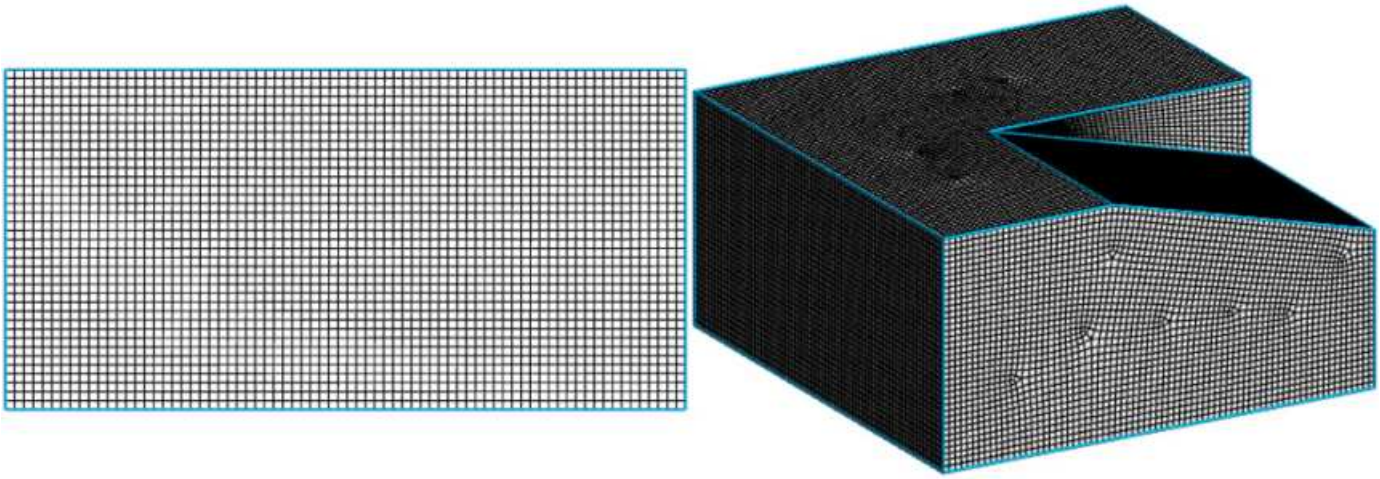


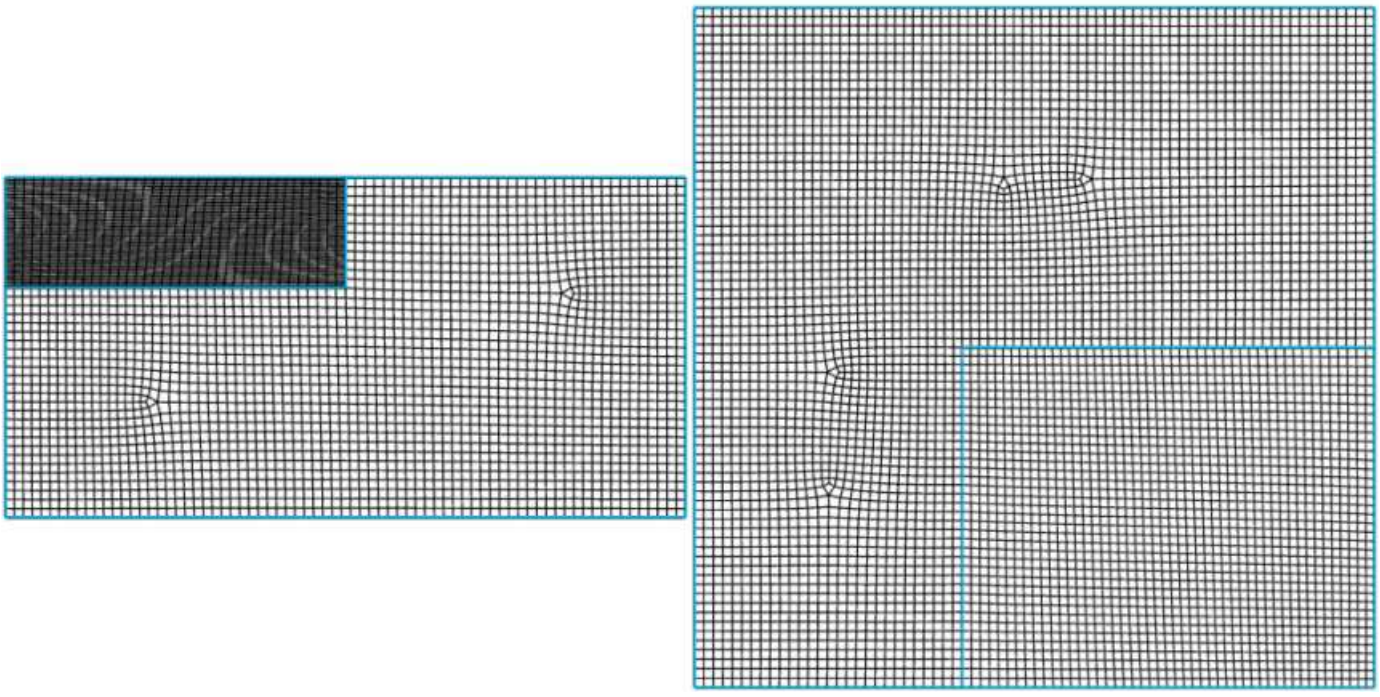
Model: B49 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 1 singularities detected
Timings: 11.3495 sec to generate the unstructured mesh, 1.4633 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21804	22690	55	0
Quasi-structured	22058	22944	27	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.032551	0.134276	0.211496	0.24753	0.996546	0.999783
Quasi-structured	0.0156693	0.133451	0.194303	0.258462	0.992785	0.999746



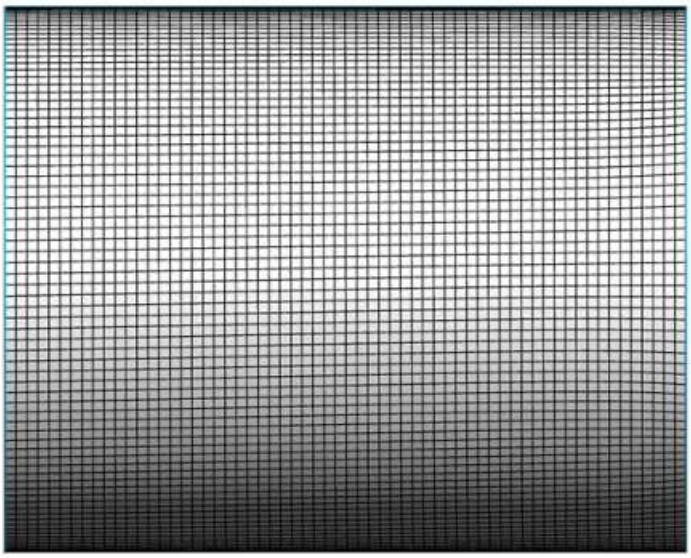


Model: B4 (from Mambo dataset)
CAD: 4 corners, 6 curves, 5 faces
Cross field: 8 singularities detected
Timings: 16.0138 sec to generate the unstructured mesh, 2.54398 sec to make it quasi-structured
Mesh topology:

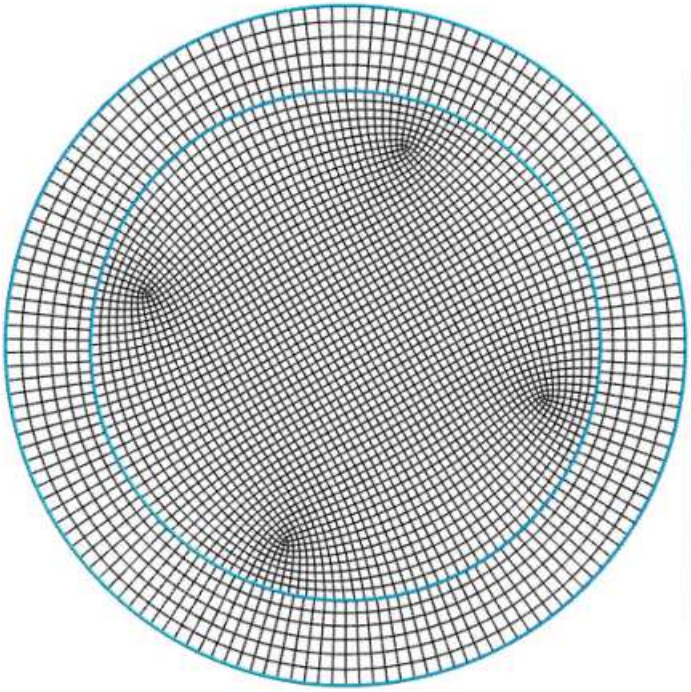
	# quads	# vertices	# irregular	# very irregular
Unstructured	27382	28006	110	137
Quasi-structured	27680	28304	14	0

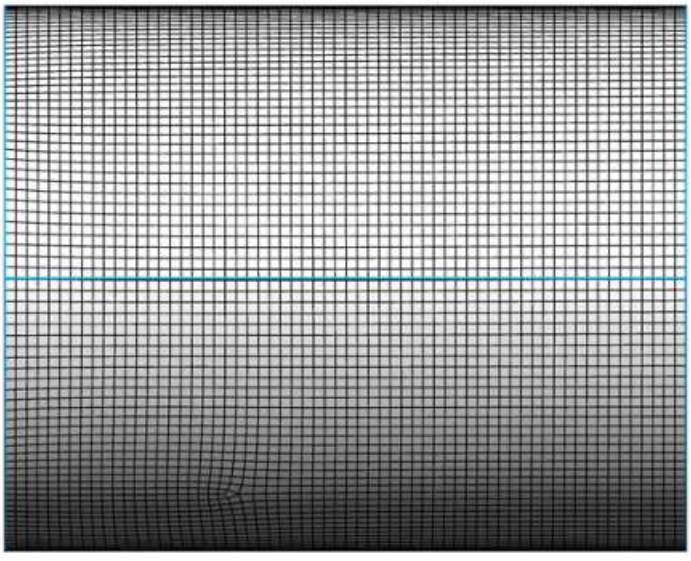
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0317877	0.136457	0.233333	0.511826	0.990033	0.998388
Quasi-structured	0.037719	0.135406	0.211522	0.840185	0.998183	0.999704







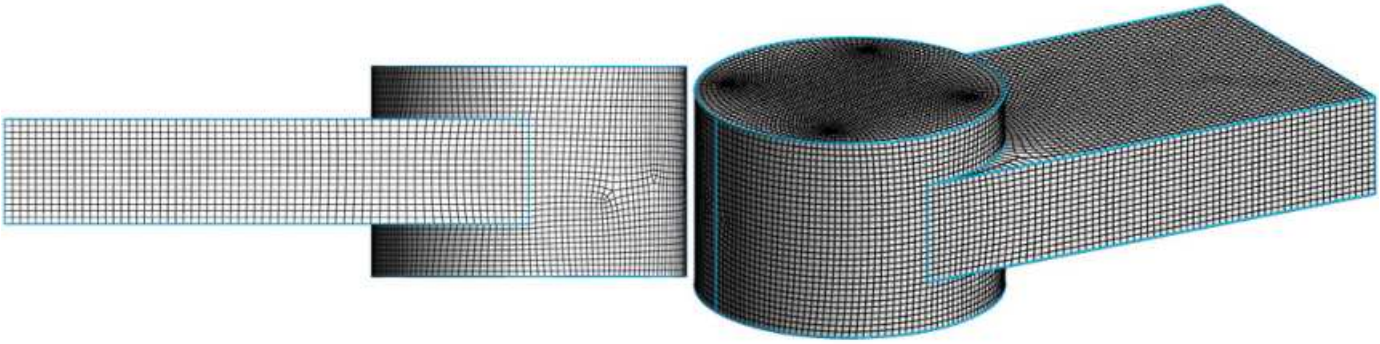


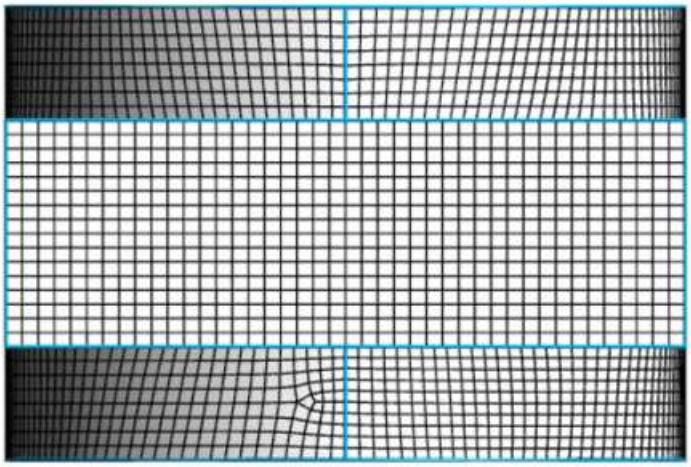
Model: B50 (from Mambo dataset)
CAD: 14 corners, 21 curves, 9 faces
Cross field: 16 singularities detected
Timings: 7.82897 sec to generate the unstructured mesh, 3.343 sec to make it quasi-structured
Mesh topology:

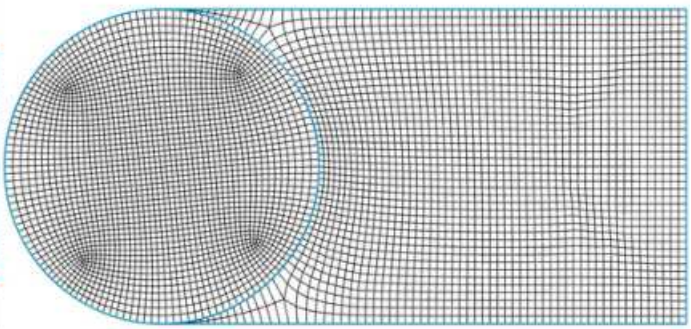
	# quads	# vertices	# irregular	# very irregular
Unstructured	15208	16113	170	1
Quasi-structured	15608	16513	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00503335	0.12923	0.22578	4.67813e-05	0.978529	0.991226
Quasi-structured	0.00938959	0.127255	0.47858	0.0194679	0.988203	0.996118





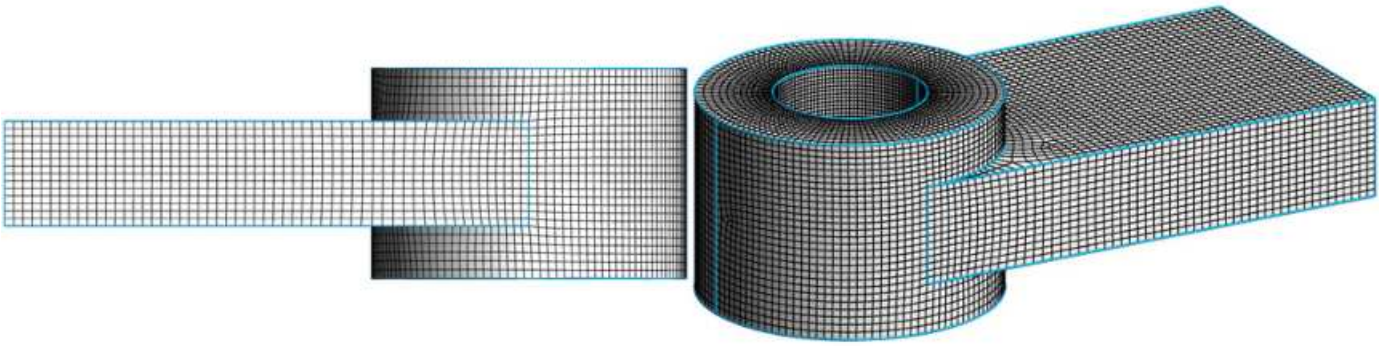


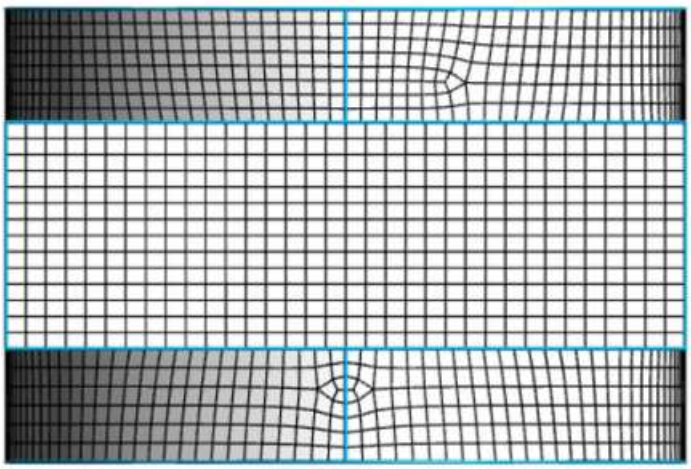
Model: B51 (from Mambo dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 8 singularities detected
Timings: 7.36235 sec to generate the unstructured mesh, 1.2225 sec to make it quasi-structured
Mesh topology:

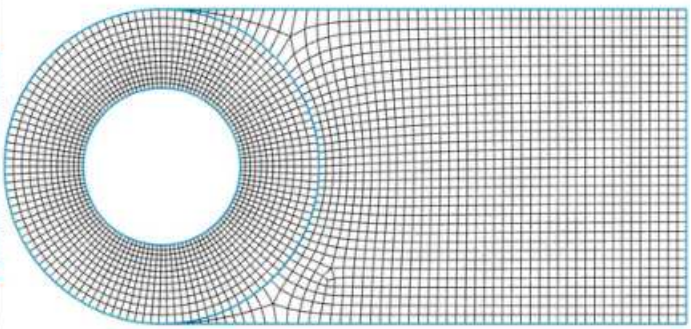
	# quads	# vertices	# irregular	# very irregular
Unstructured	16216	17315	56	0
Quasi-structured	16322	17421	22	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00718259	0.125207	0.305486	0.000238298	0.987283	0.999577
Quasi-structured	0.00209032	0.124851	0.536375	0.02413	0.990546	0.999644





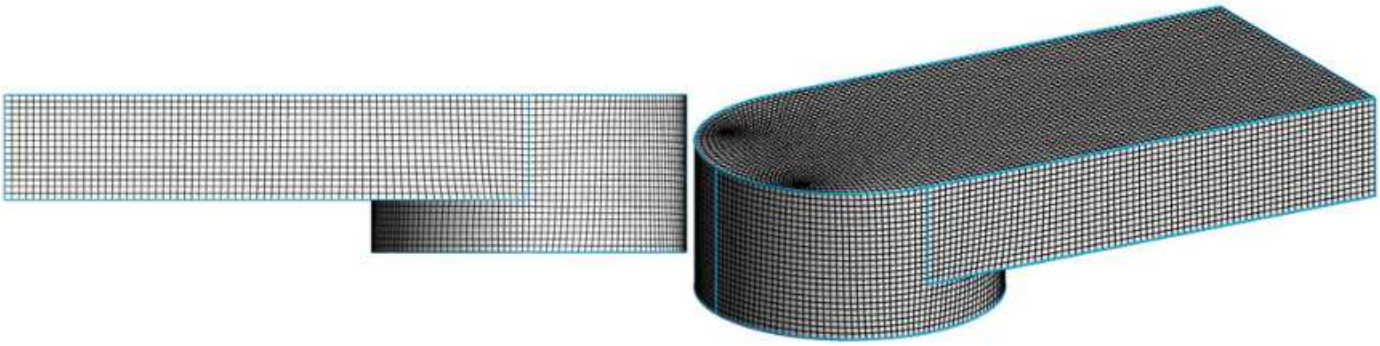


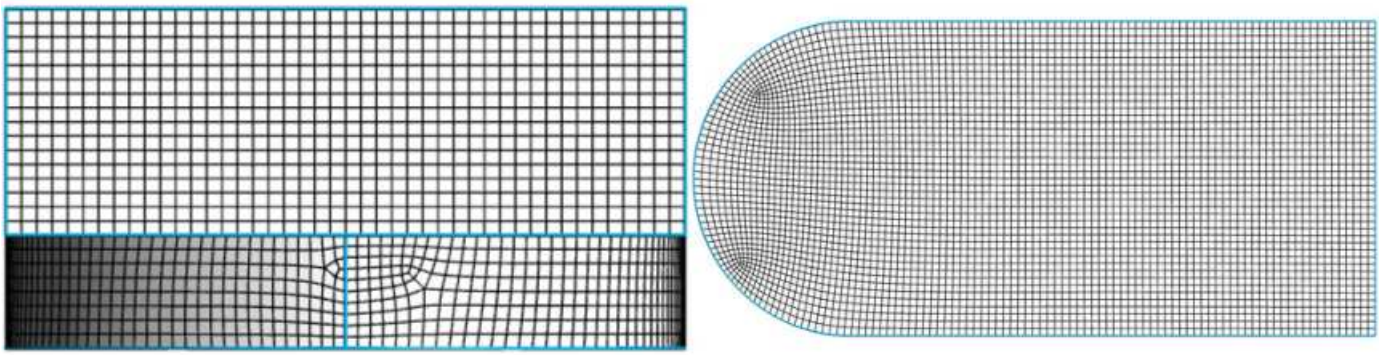
Model: B52 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 10 singularities detected
Timings: 6.85235 sec to generate the unstructured mesh, 1.98454 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14384	15160	108	0
Quasi-structured	14362	15138	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00475746	0.128222	0.204717	0.000278299	0.986043	0.99612
Quasi-structured	0.0103202	0.128209	0.412678	0.0184213	0.99331	0.997112



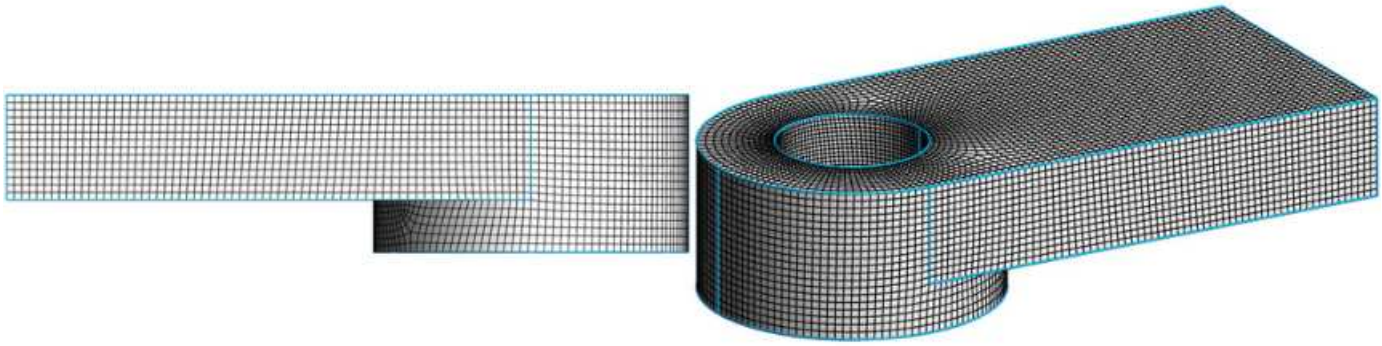


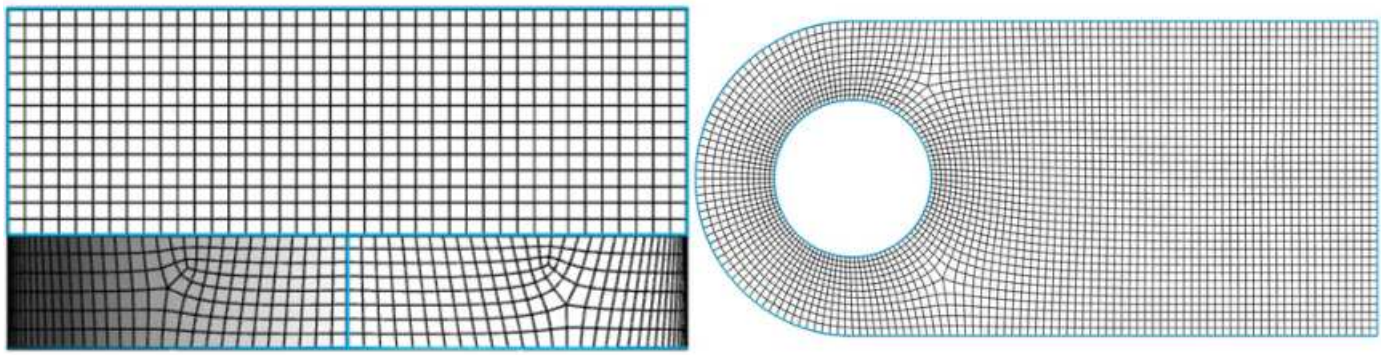
Model: B53 (from Mambo dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 6 singularities detected
Timings: 6.69842 sec to generate the unstructured mesh, 1.56764 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15166	16156	82	2
Quasi-structured	15164	16154	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00597177	0.125744	0.216149	1.70678e-05	0.988066	0.997107
Quasi-structured	0.00499853	0.125732	0.3117	0.0222762	0.993622	0.997331



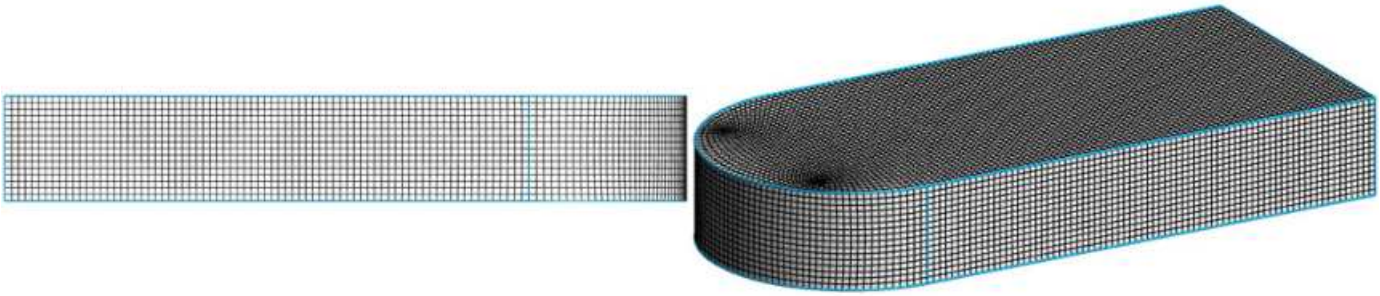


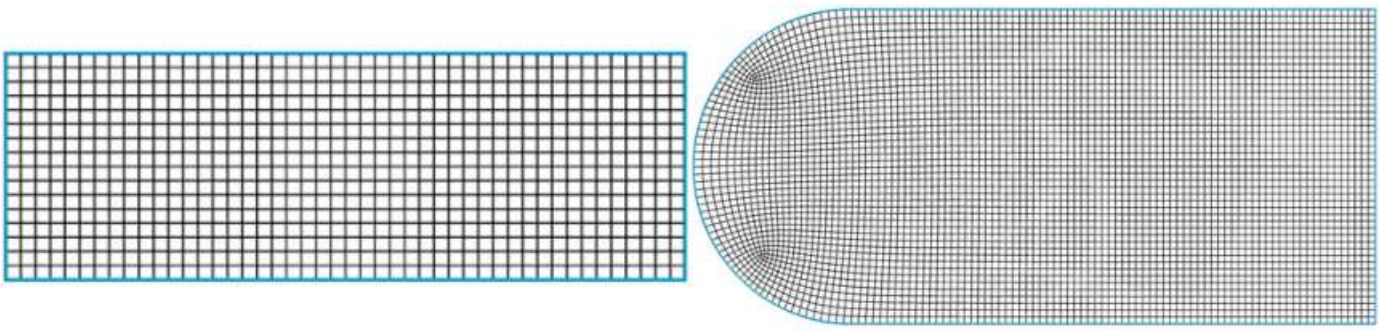
Model: B54 (from Mambo dataset)
CAD: 8 corners, 12 curves, 6 faces
Cross field: 4 singularities detected
Timings: 7.069 sec to generate the unstructured mesh, 0.755457 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13334	13936	32	0
Quasi-structured	13286	13888	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0426697	0.128134	0.158069	0.620052	0.994797	0.999226
Quasi-structured	0.0465441	0.12825	0.170976	0.856559	0.998369	0.999757



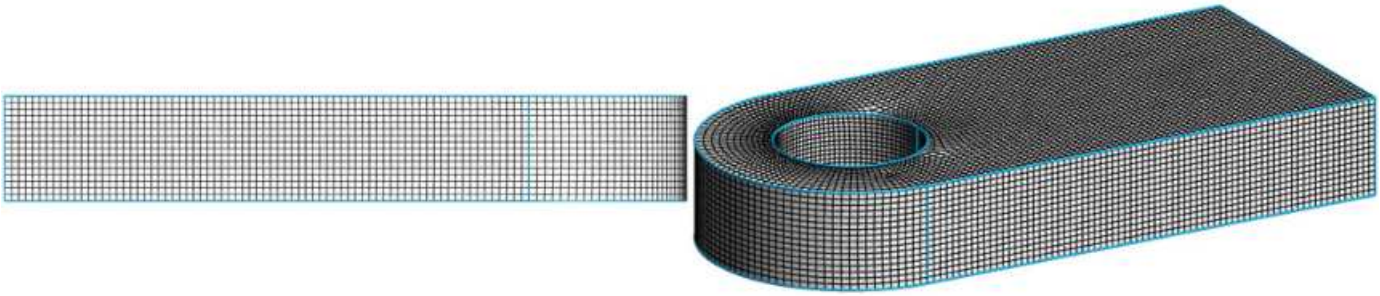


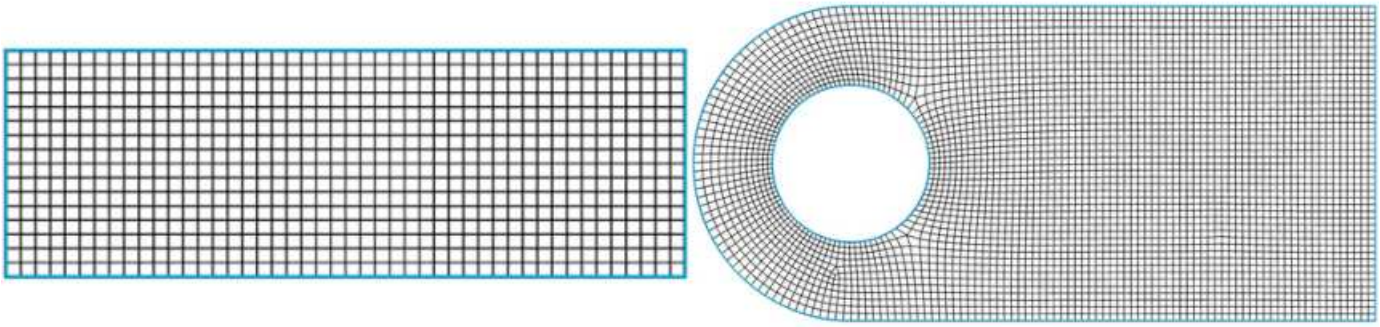
Model: B55 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 4 singularities detected
Timings: 6.39928 sec to generate the unstructured mesh, 0.938402 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13950	14764	32	0
Quasi-structured	14022	14836	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0539749	0.125756	0.241158	0.591402	0.991585	0.998031
Quasi-structured	0.0780959	0.125472	0.260803	0.717414	0.993985	0.998515



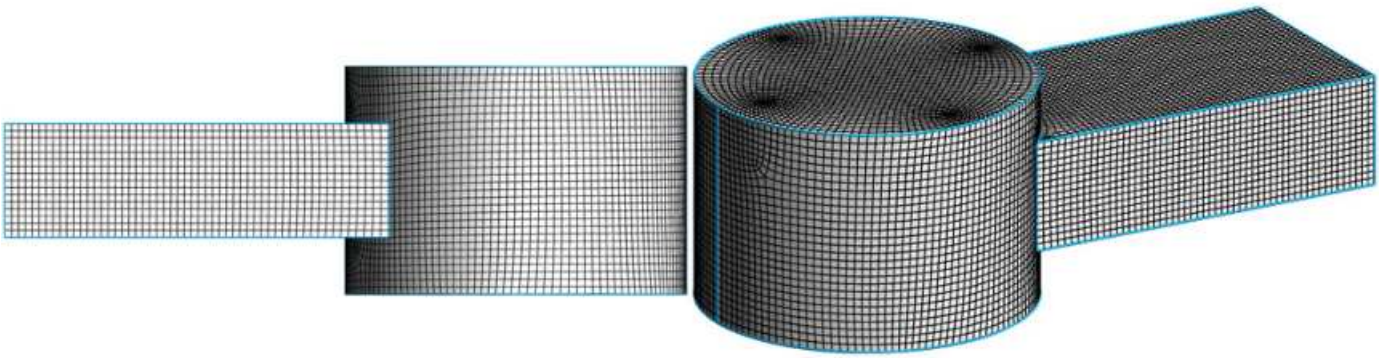


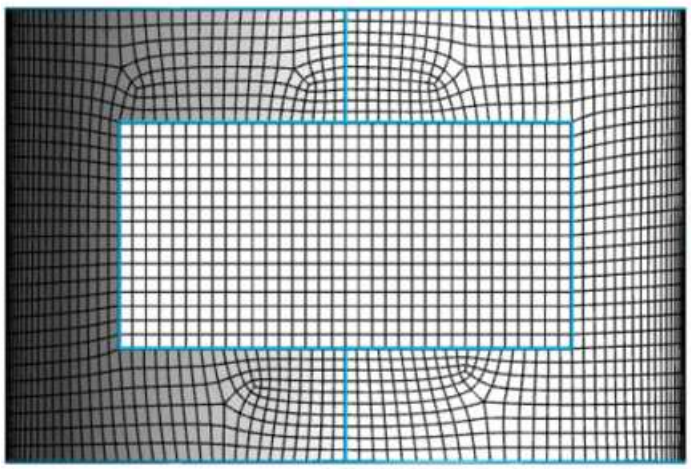
Model: B56 (from Mambo dataset)
CAD: 14 corners, 21 curves, 9 faces
Cross field: 8 singularities detected
Timings: 6.82898 sec to generate the unstructured mesh, 1.49889 sec to make it quasi-structured
Mesh topology:

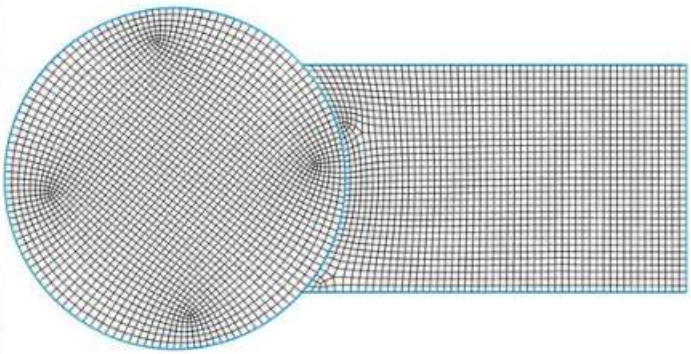
	# quads	# vertices	# irregular	# very irregular
Unstructured	13582	14347	154	2
Quasi-structured	13954	14719	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0377665	0.123401	0.207651	0.531398	0.98305	0.995498
Quasi-structured	0.0409477	0.121414	0.203341	0.752536	0.994304	0.998187





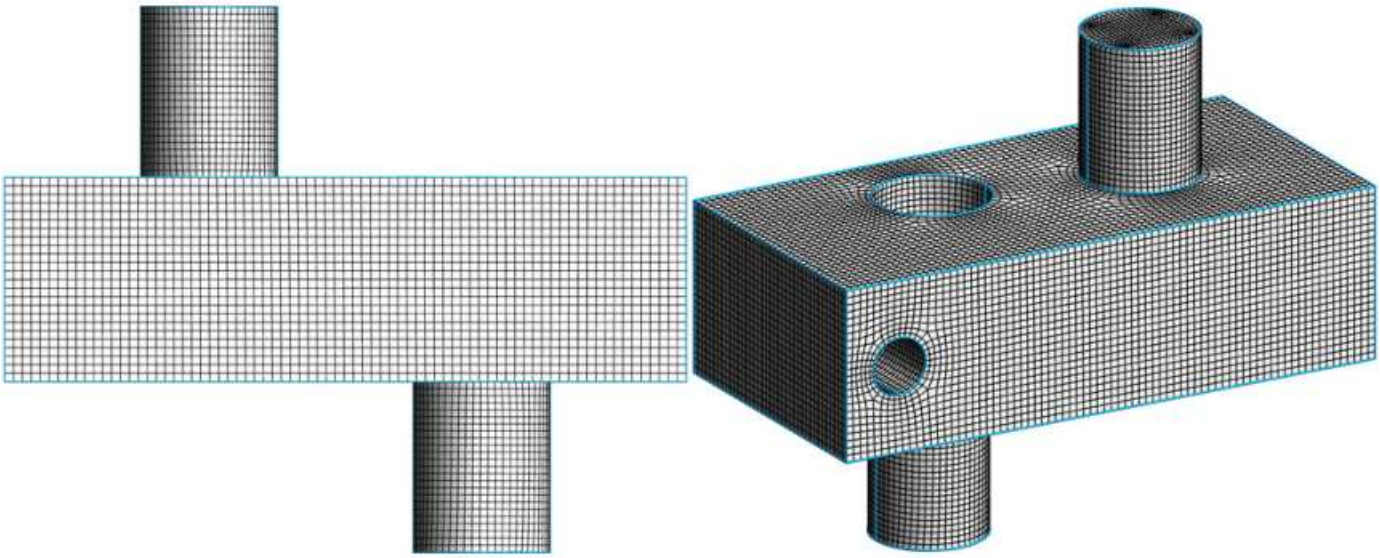


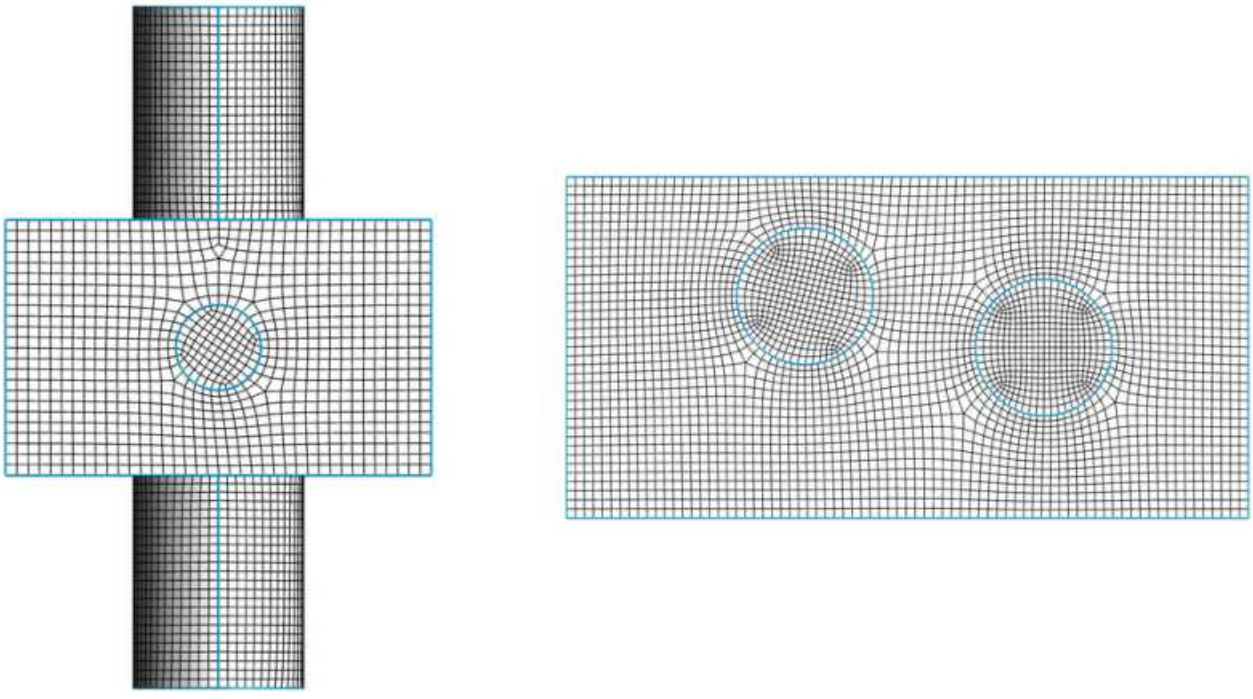
Model: B57 (from Mambo dataset)
CAD: 29 corners, 43 curves, 21 faces
Cross field: 40 singularities detected
Timings: 8.3544 sec to generate the unstructured mesh, 1.1563 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17844	19168	202	2
Quasi-structured	18160	19484	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0314889	0.118451	0.223284	0.446676	0.985819	0.998665
Quasi-structured	0.0412443	0.117326	0.242923	0.758358	0.994713	0.998623



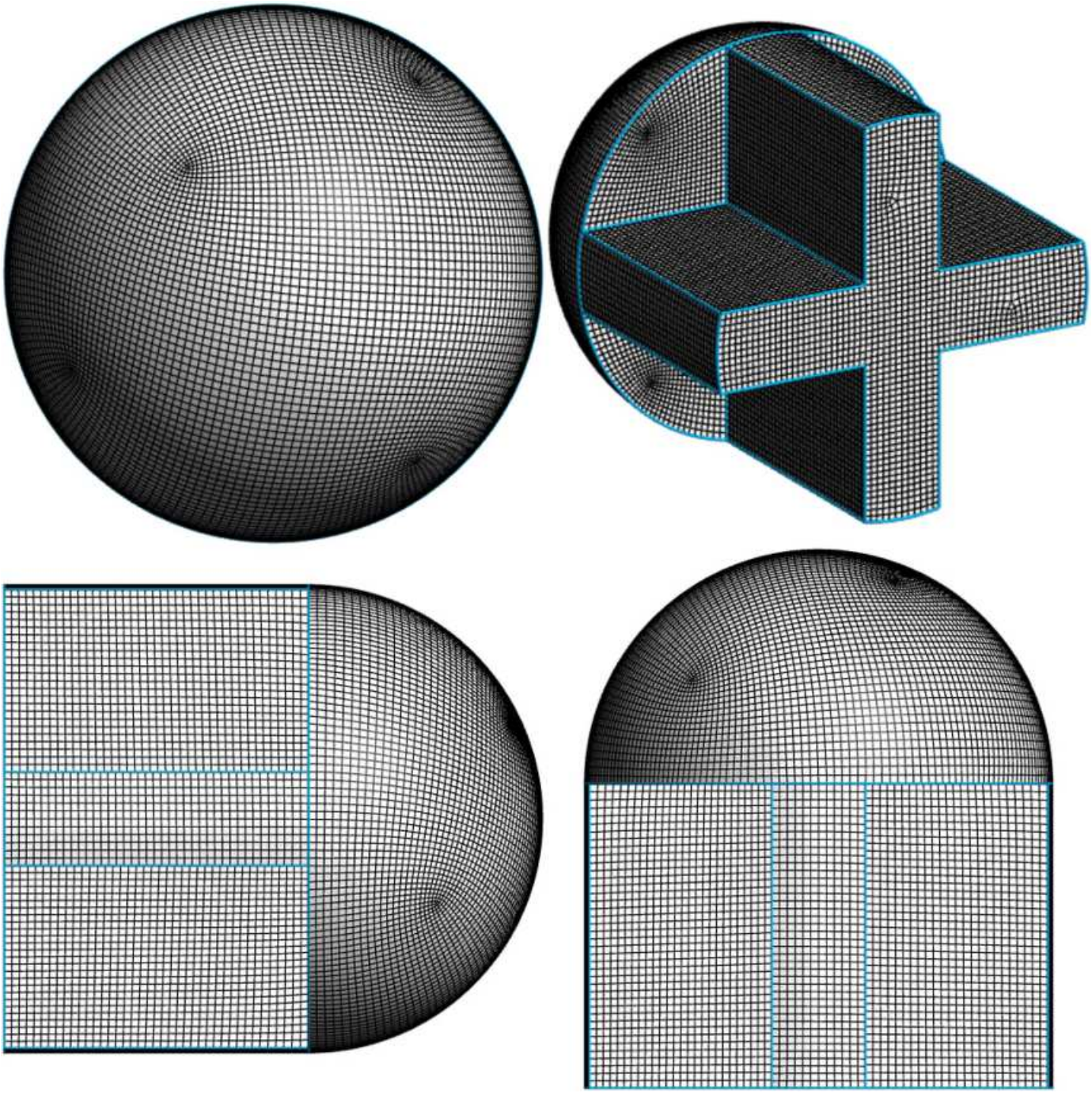


Model: B58 (from Mambo dataset)
CAD: 26 corners, 44 curves, 18 faces
Cross field: 8 singularities detected
Timings: 11.9607 sec to generate the unstructured mesh, 8.20369 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20070	21216	144	6
Quasi-structured	20486	21632	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0395475	0.156186	0.250586	0.464368	0.986483	0.995284
Quasi-structured	0.0455301	0.154101	0.216064	0.843805	0.995202	0.997029

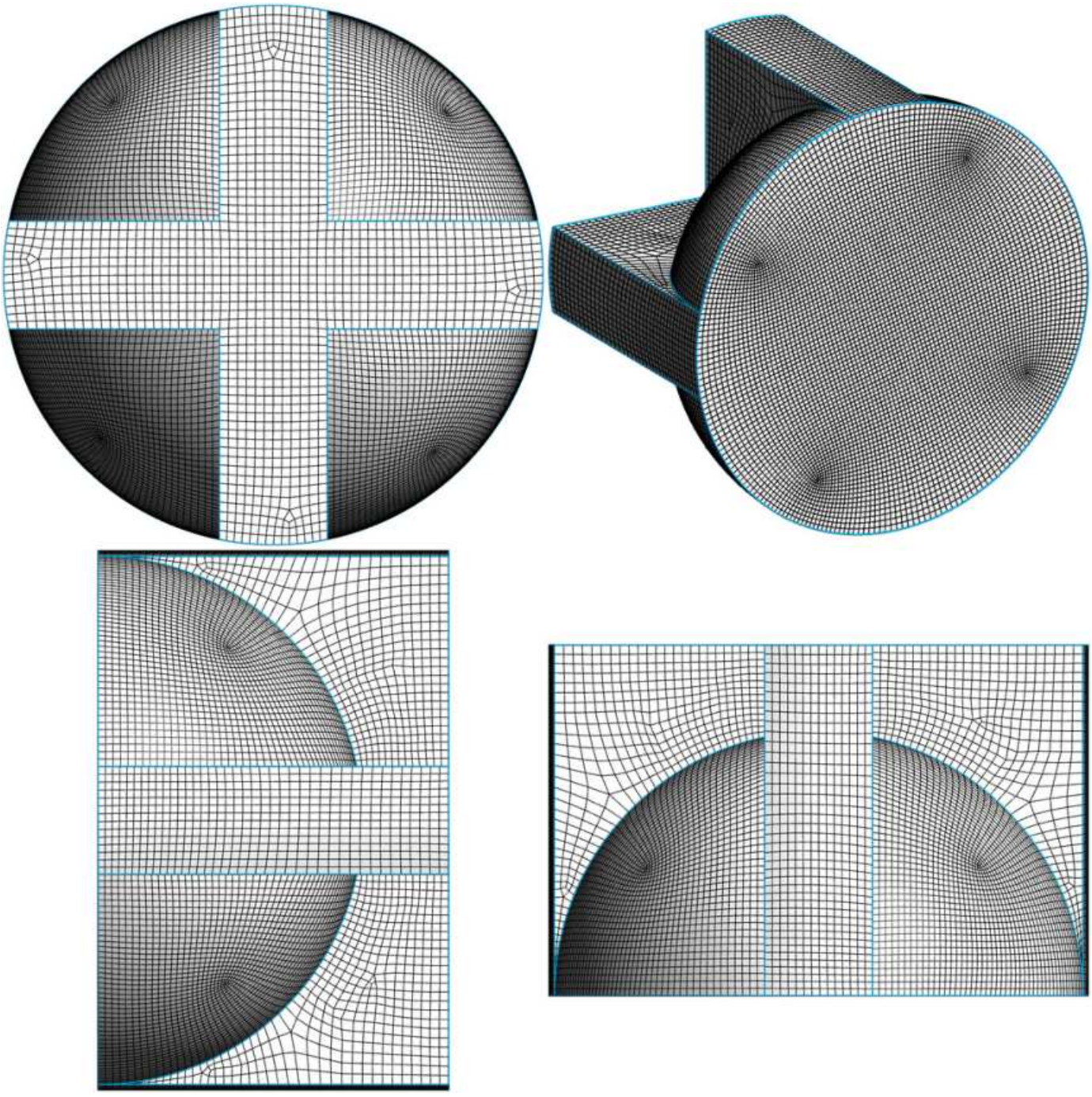


Model: B59 (from Mambo dataset)
CAD: 24 corners, 40 curves, 18 faces
Cross field: 24 singularities detected
Timings: 10.7097 sec to generate the unstructured mesh, 19.1771 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19090	20348	338	5
Quasi-structured	20220	21478	102	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0034494	0.134567	0.291736	0.000148838	0.971983	0.992179
Quasi-structured	0.00436008	0.12988	0.484185	0.0122944	0.980852	0.996452

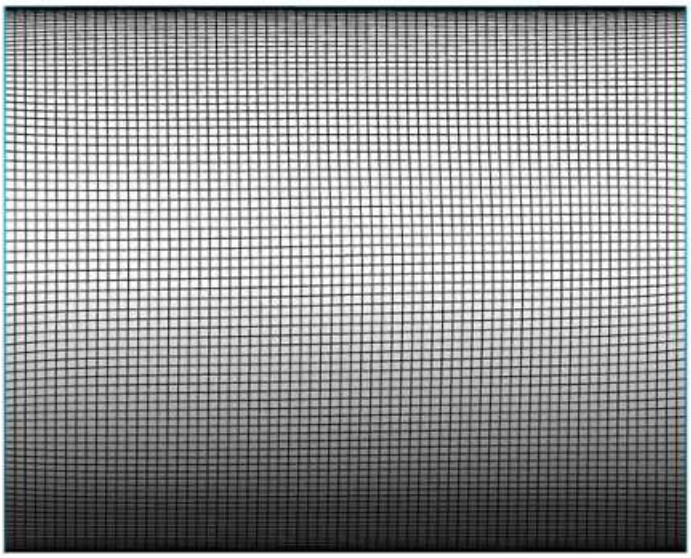


Model: B5 (from Mambo dataset)
CAD: 2 corners, 3 curves, 3 faces
Cross field: 8 singularities detected
Timings: 11.1869 sec to generate the unstructured mesh, 1.43259 sec to make it quasi-structured
Mesh topology:

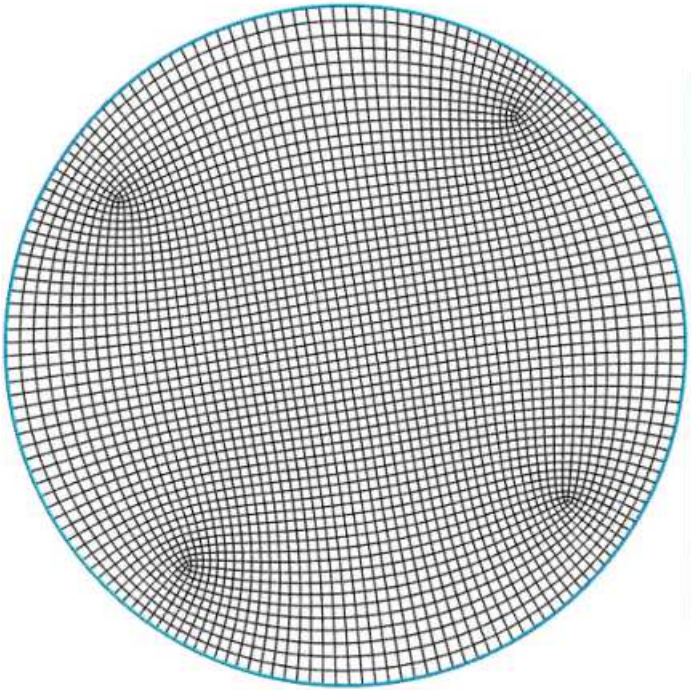
	# quads	# vertices	# irregular	# very irregular
Unstructured	18660	19010	94	72
Quasi-structured	18658	19008	8	0

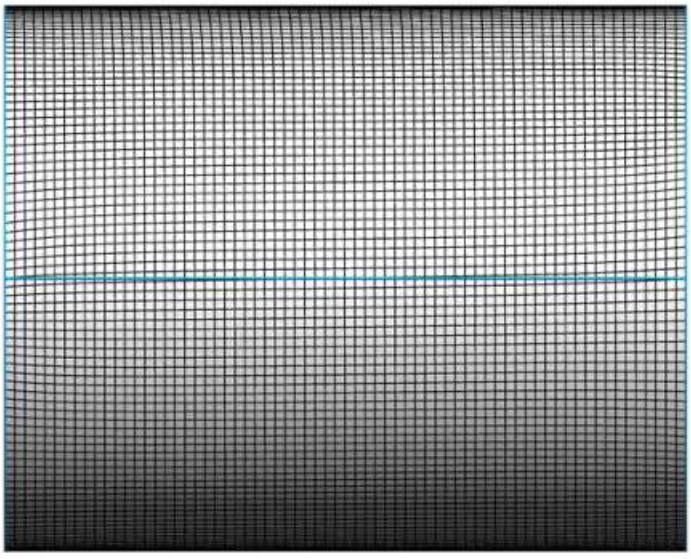
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0398606	0.136828	0.216629	0.502594	0.98792	0.994271
Quasi-structured	0.0436485	0.136434	0.180995	0.856379	0.997852	0.999089







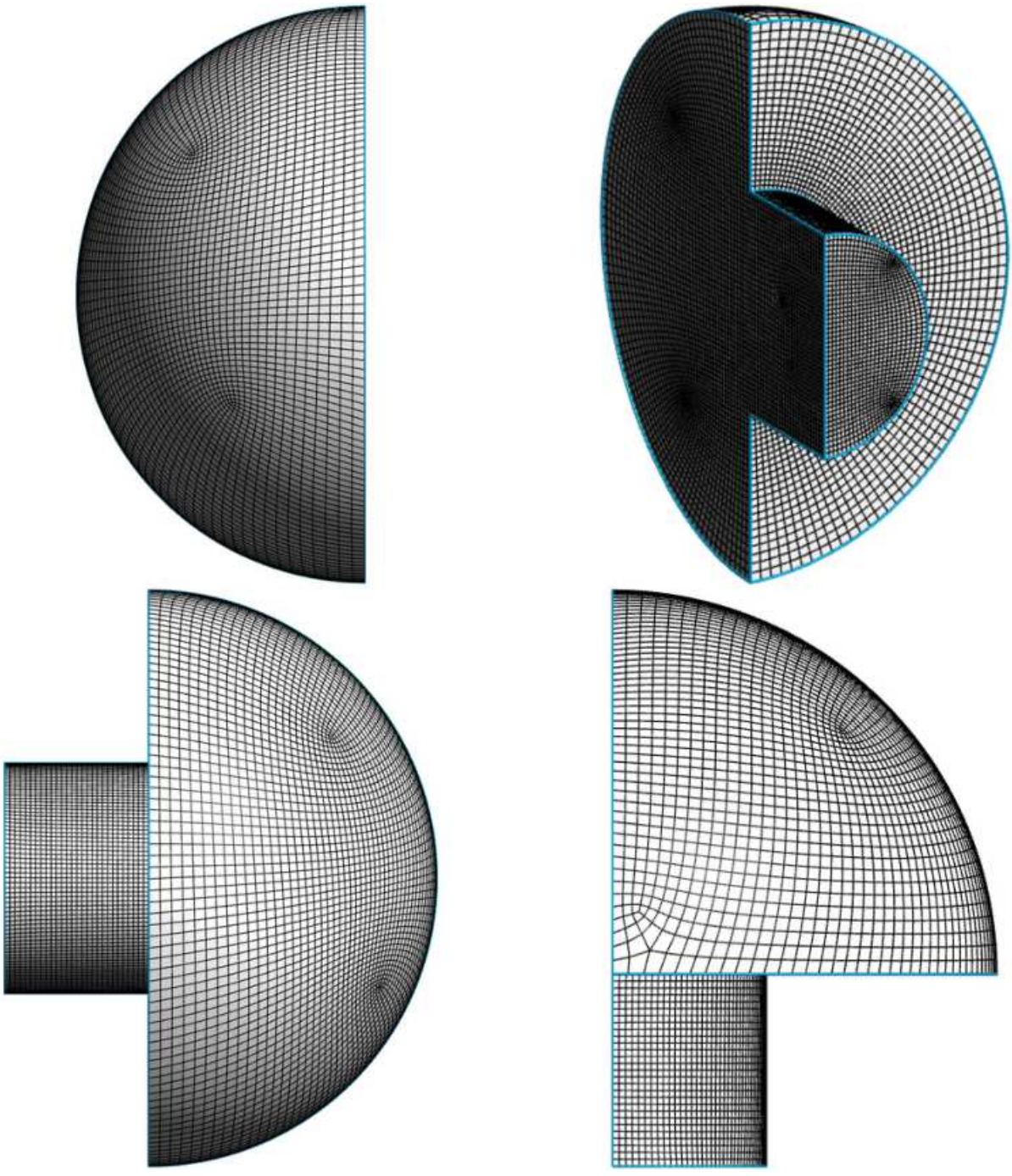


Model: B60 (from Mambo dataset)
CAD: 6 corners, 11 curves, 5 faces
Cross field: 6 singularities detected
Timings: 7.58097 sec to generate the unstructured mesh, 8.8902 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12776	13269	142	3
Quasi-structured	12652	13145	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0618051	0.232505	0.570093	0.490989	0.981525	0.993565
Quasi-structured	0.0557571	0.231121	0.636306	0.779801	0.9871	0.995328

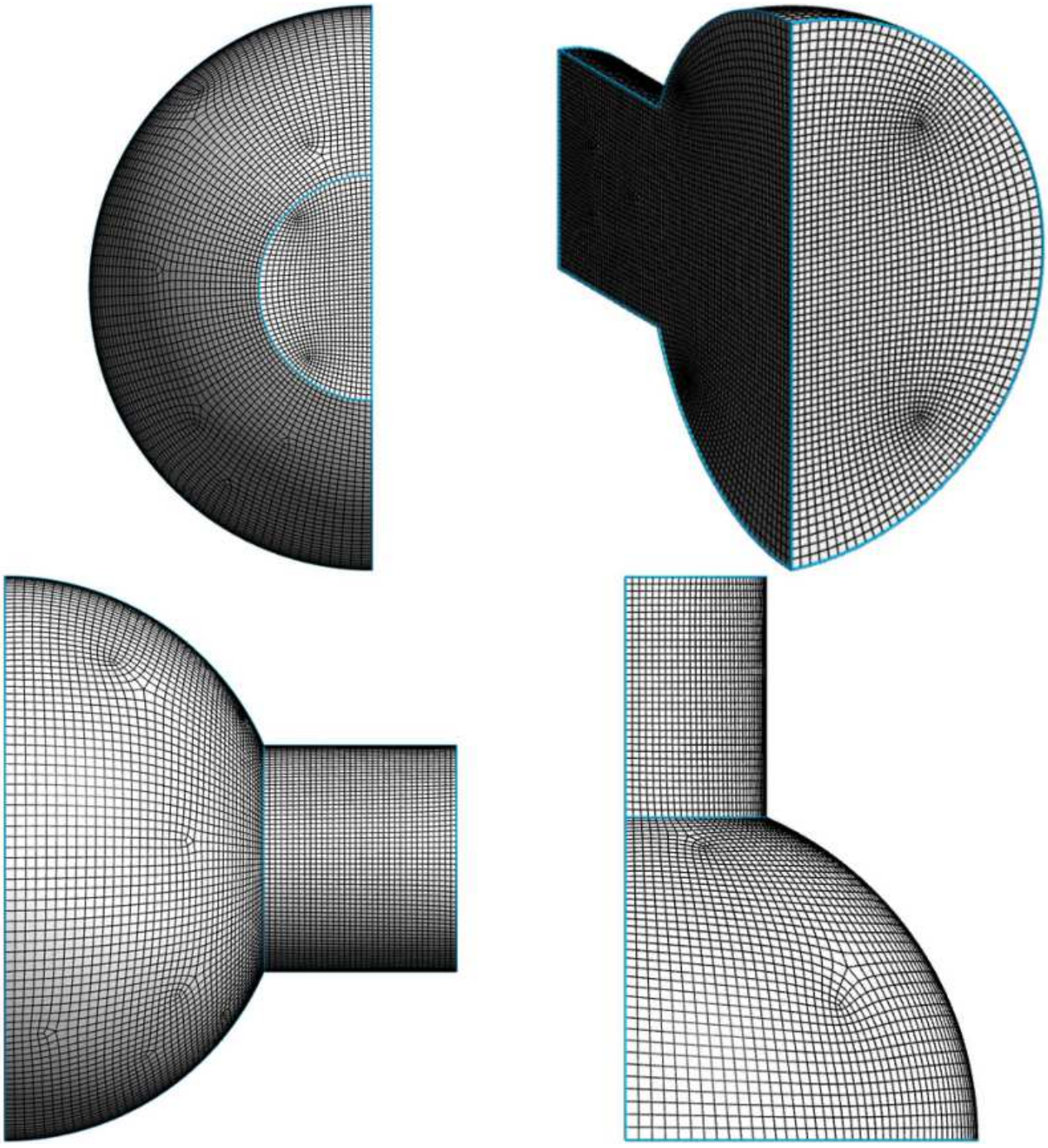


Model: B61 (from Mambo dataset)
CAD: 6 corners, 11 curves, 5 faces
Cross field: 6 singularities detected
Timings: 8.44662 sec to generate the unstructured mesh, 4.17124 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12666	13163	172	3
Quasi-structured	12714	13211	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.059334	0.240281	0.546984	0.570058	0.978432	0.994204
Quasi-structured	0.0634257	0.238438	0.535054	0.833921	0.994615	0.997506

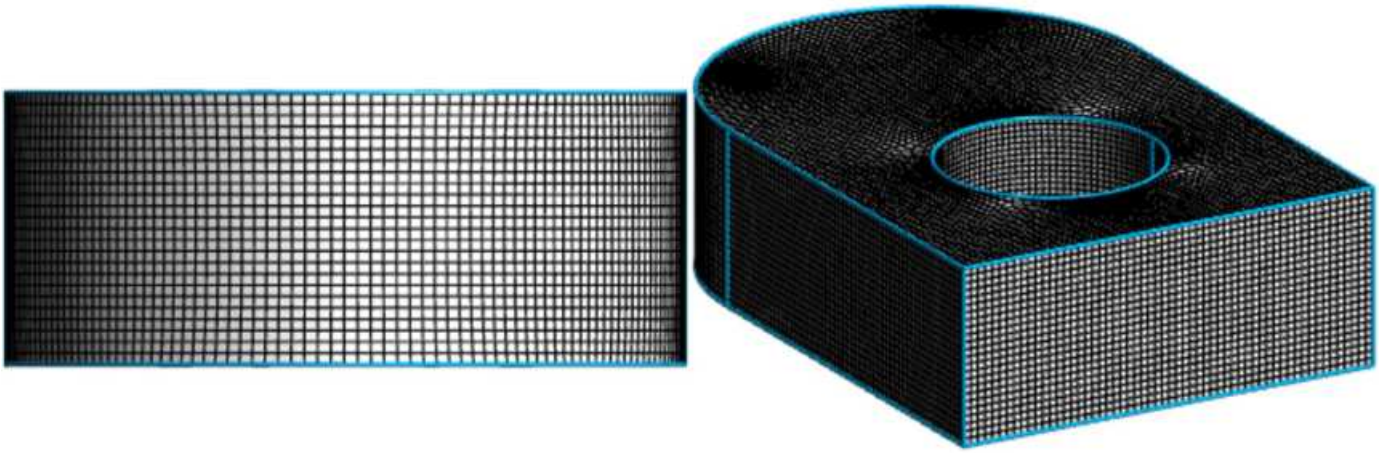


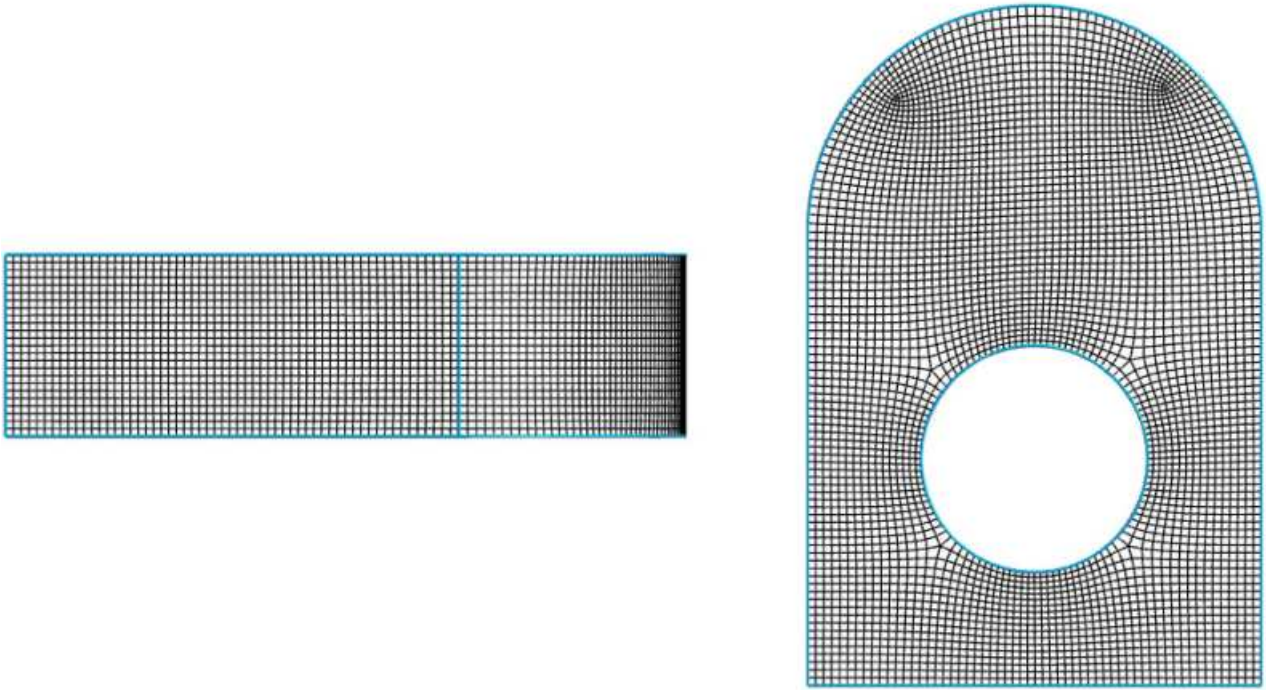
Model: B62 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 12 singularities detected
Timings: 9.48105 sec to generate the unstructured mesh, 1.10864 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18170	19068	126	0
Quasi-structured	18056	18954	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0505253	0.162949	0.291194	0.5458	0.988715	0.997722
Quasi-structured	0.0579841	0.163139	0.330971	0.808743	0.995346	0.997535



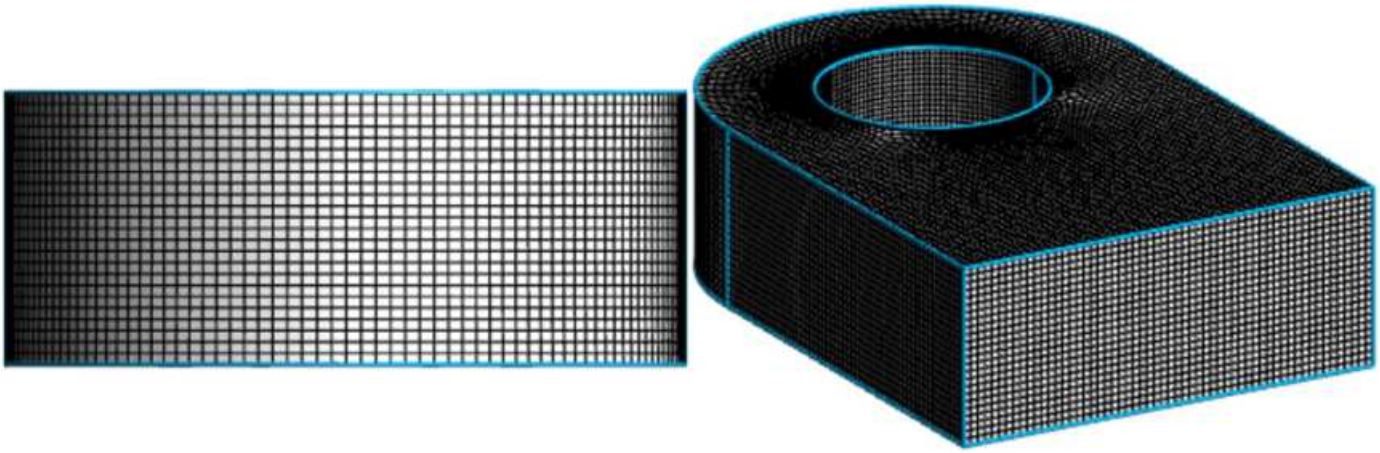


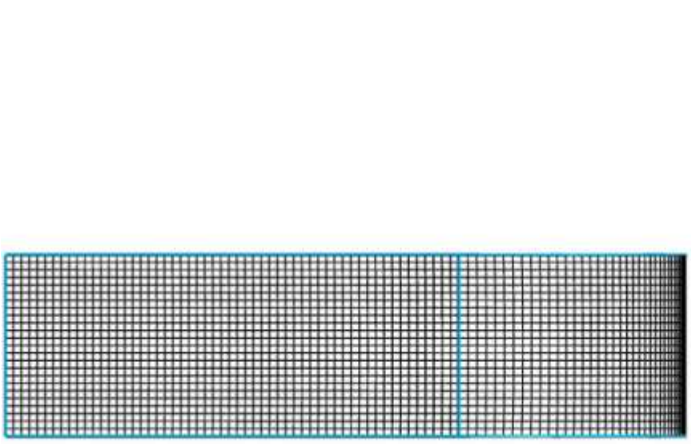
Model: B63 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 4 singularities detected
Timings: 9.20793 sec to generate the unstructured mesh, 1.33273 sec to make it quasi-structured
Mesh topology:

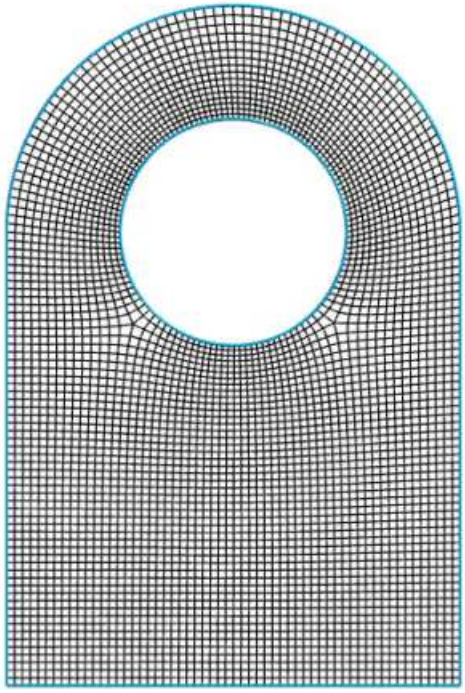
	# quads	# vertices	# irregular	# very irregular
Unstructured	18598	19512	56	0
Quasi-structured	18716	19630	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0678894	0.159794	0.273042	0.591298	0.991026	0.998617
Quasi-structured	0.109245	0.15926	0.300162	0.897281	0.993718	0.998639





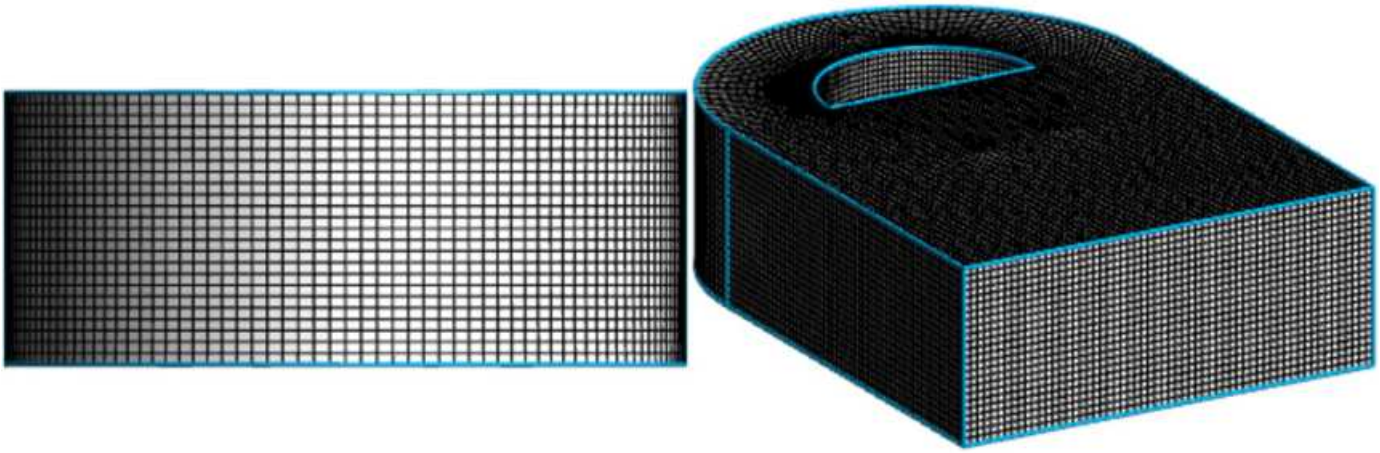


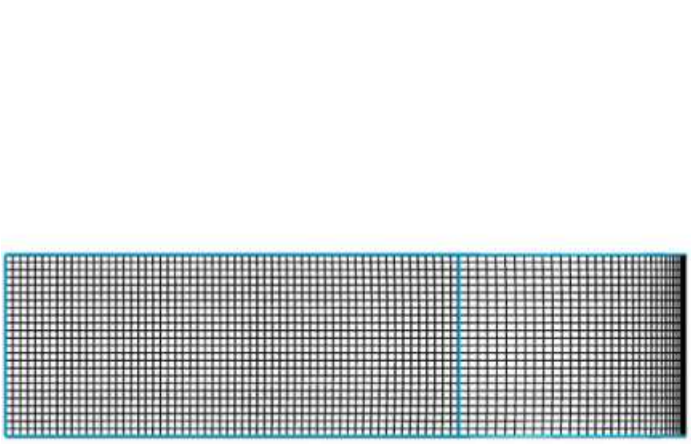
Model: B64 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 0 singularities detected
Timings: 8.19257 sec to generate the unstructured mesh, 1.35173 sec to make it quasi-structured
Mesh topology:

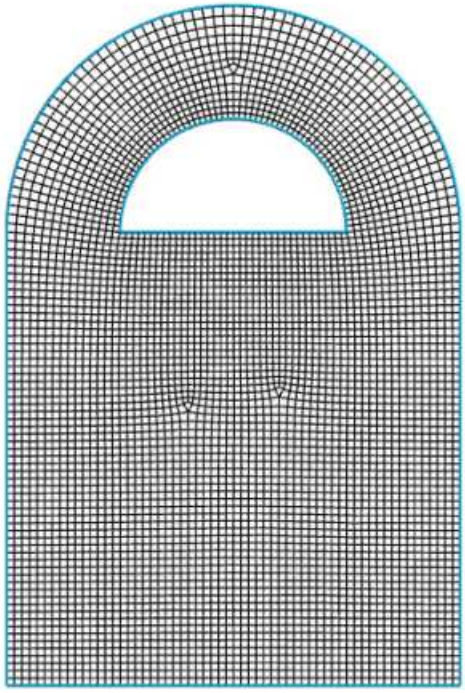
	# quads	# vertices	# irregular	# very irregular
Unstructured	18454	19316	20	0
Quasi-structured	18458	19320	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0892541	0.162547	0.244603	0.683394	0.992267	0.999151
Quasi-structured	0.0993566	0.162506	0.240766	0.843816	0.994646	0.999386





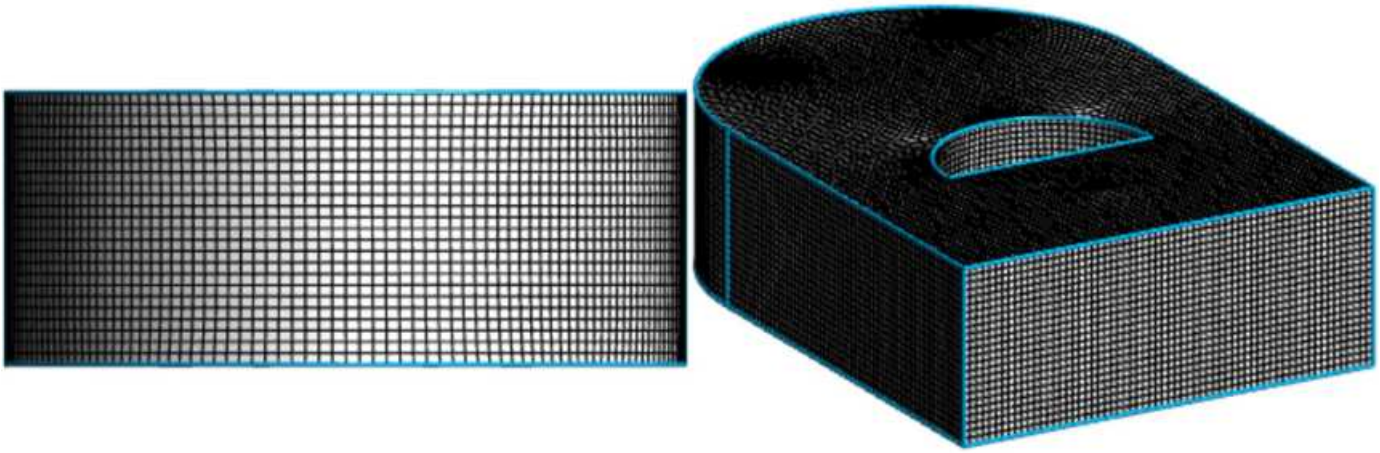


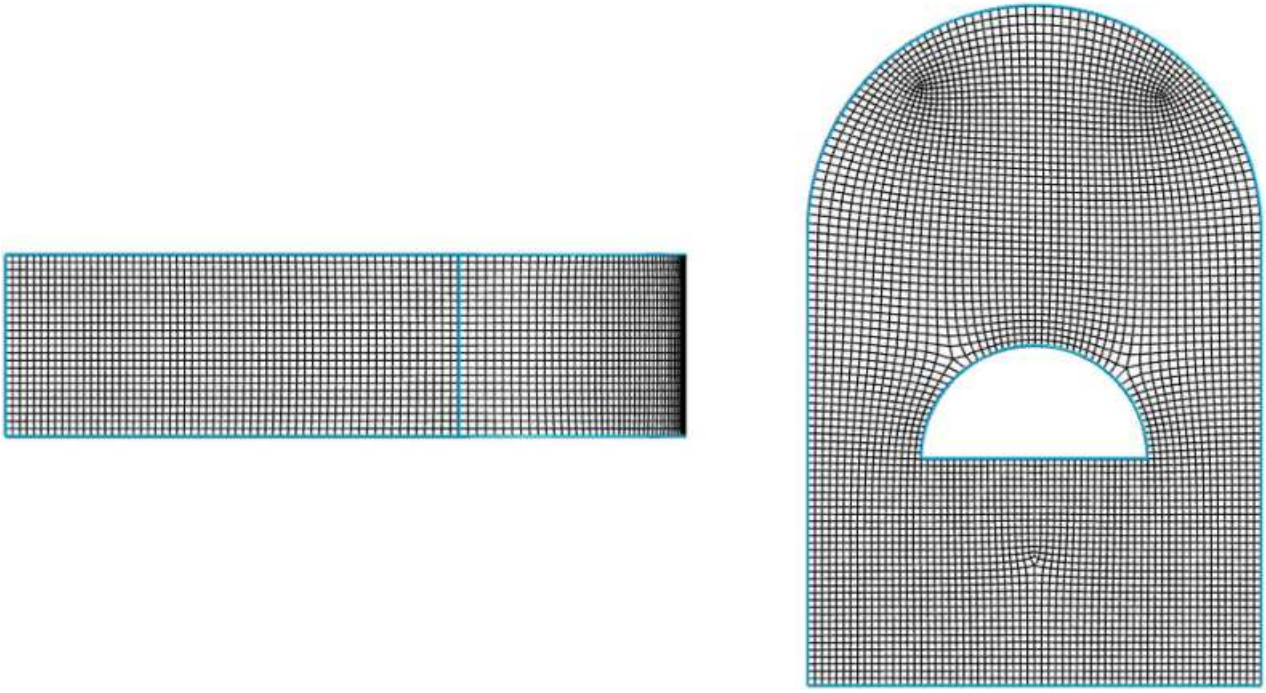
Model: B65 (from Mambo dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 8 singularities detected
Timings: 9.74525 sec to generate the unstructured mesh, 1.34252 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18582	19448	100	2
Quasi-structured	18546	19412	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0515128	0.162686	0.29461	0.540142	0.990484	0.998094
Quasi-structured	0.0575447	0.162523	0.360246	0.739591	0.996429	0.998356



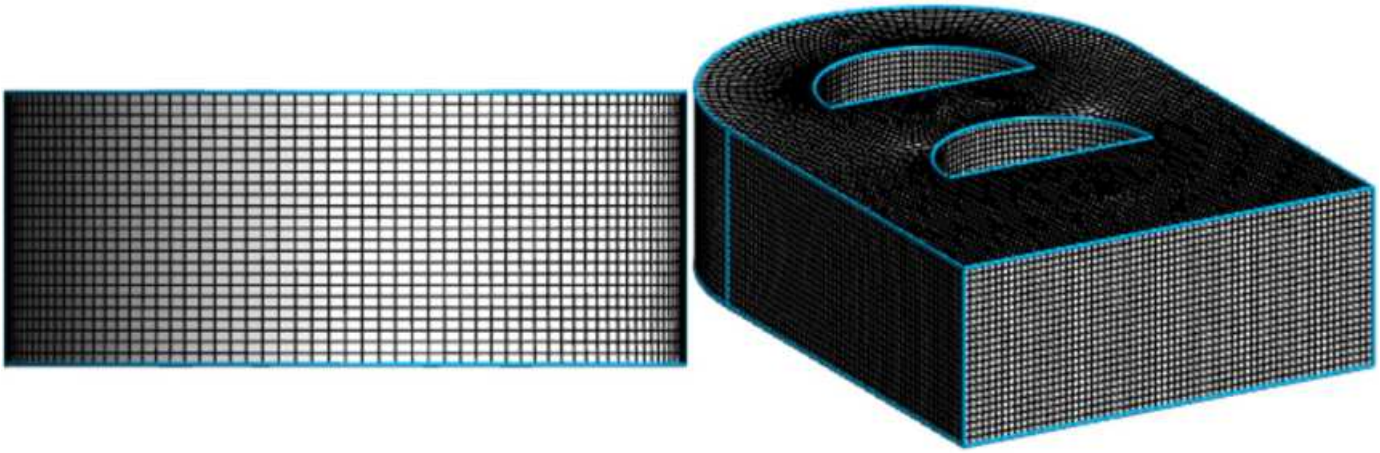


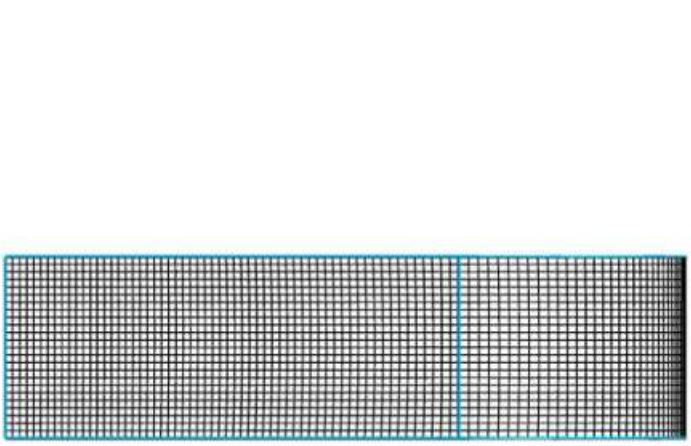
Model: B66 (from Mambo dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 4 singularities detected
Timings: 9.14772 sec to generate the unstructured mesh, 1.39266 sec to make it quasi-structured
Mesh topology:

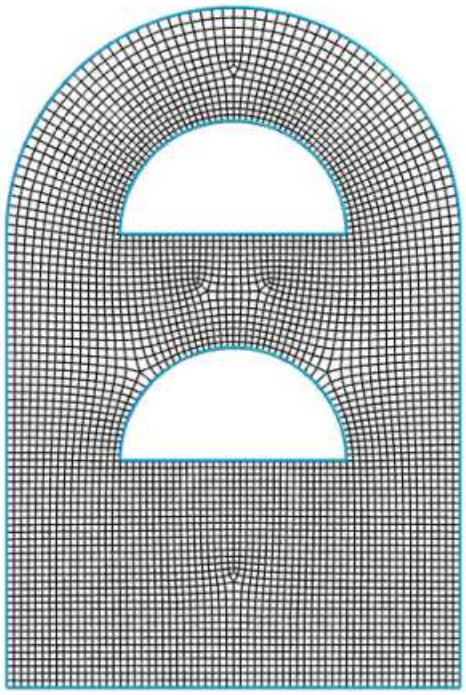
	# quads	# vertices	# irregular	# very irregular
Unstructured	19832	20910	56	0
Quasi-structured	19864	20942	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0711085	0.1619	0.273996	0.572241	0.989159	0.997972
Quasi-structured	0.0890722	0.161659	0.35289	0.77915	0.993042	0.998671





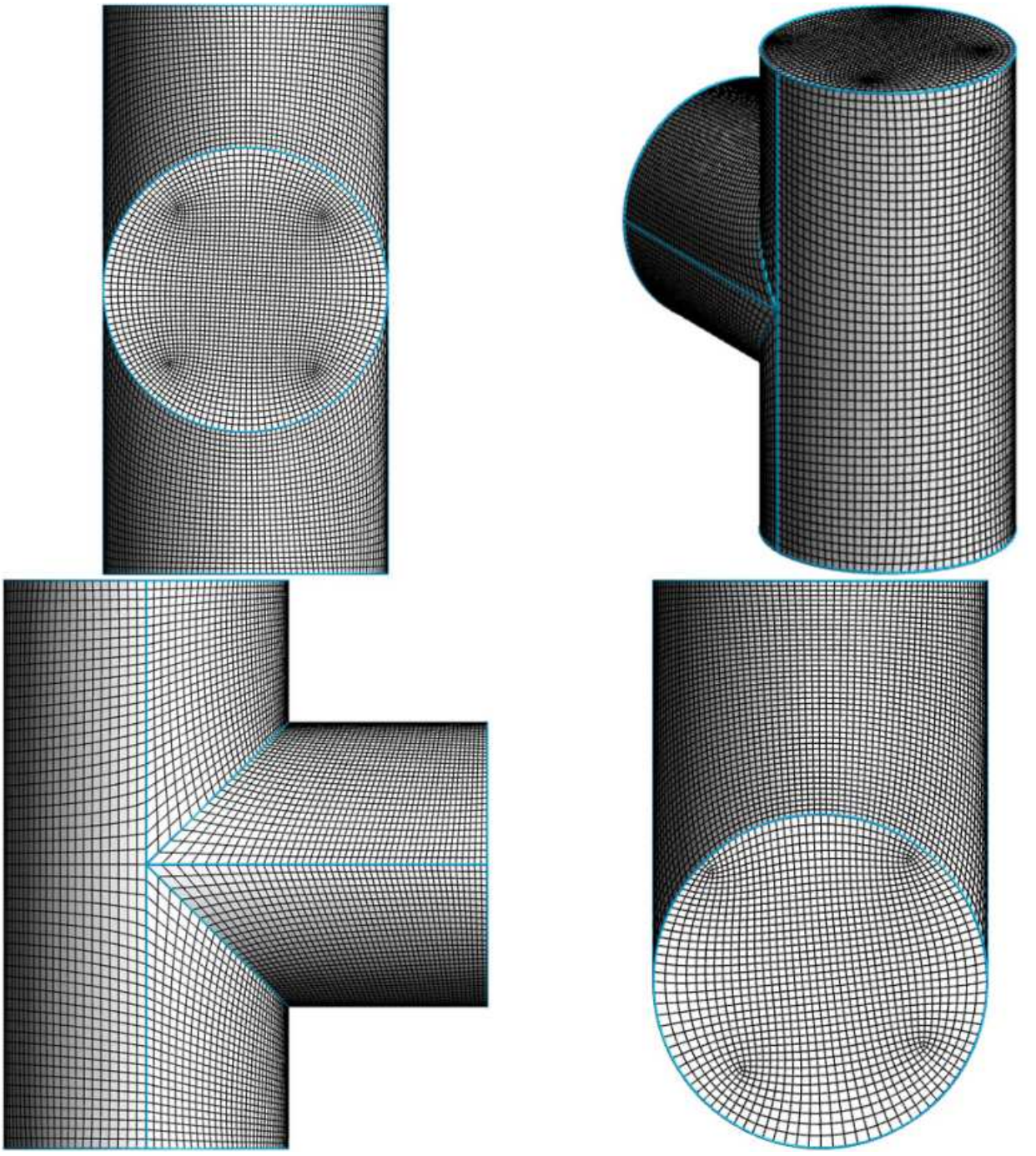


Model: B67 (from Mambo dataset)
CAD: 8 corners, 14 curves, 8 faces
Cross field: 12 singularities detected
Timings: 9.74087 sec to generate the unstructured mesh, 1.29851 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17234	17950	116	0
Quasi-structured	17730	18446	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0328836	0.119598	0.35594	0.56268	0.941284	0.959029
Quasi-structured	0.0335091	0.118088	0.300758	0.702316	0.974916	0.982944

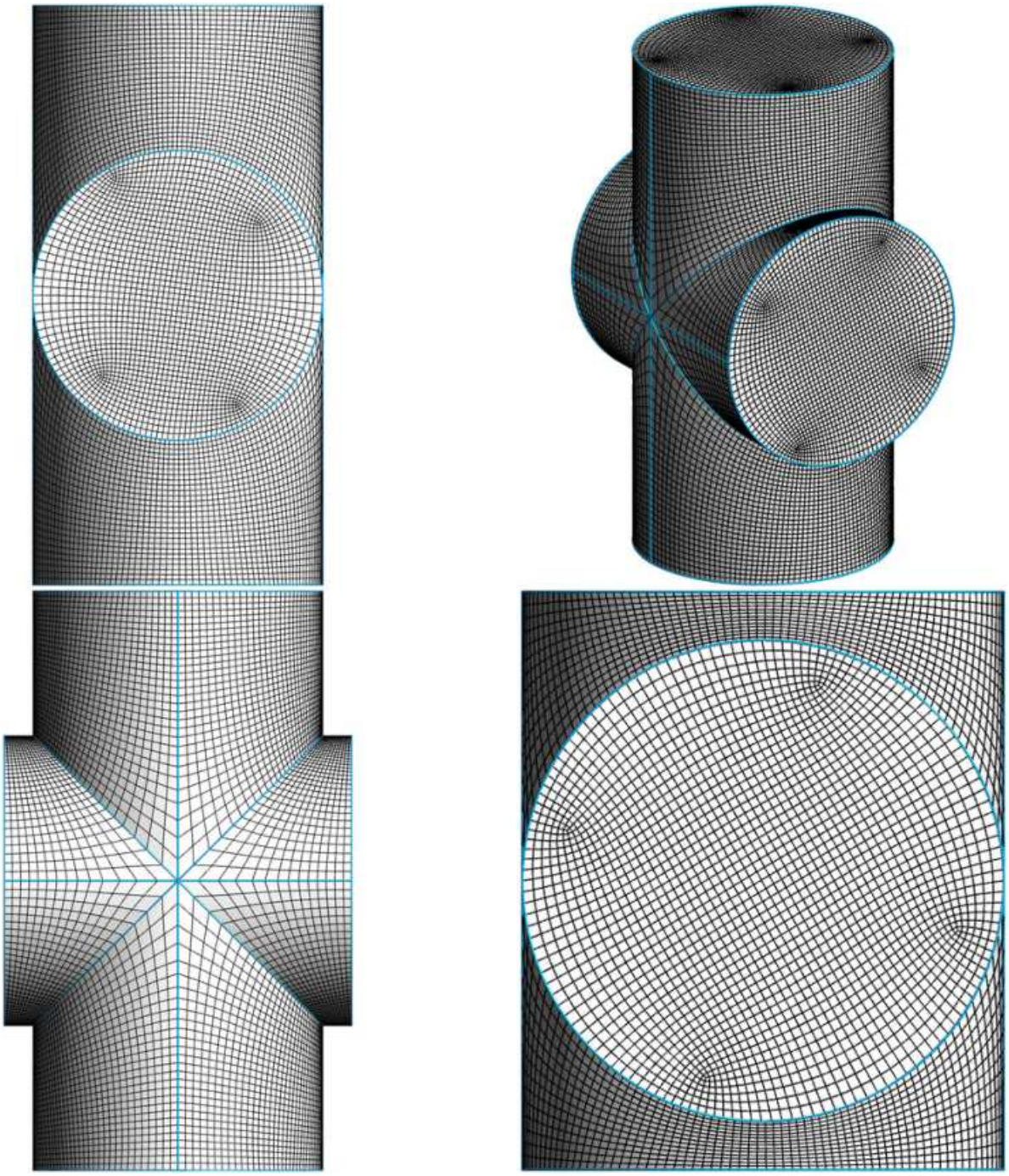


Model: B68 (from Mambo dataset)
CAD: 10 corners, 20 curves, 12 faces
Cross field: 16 singularities detected
Timings: 12.201 sec to generate the unstructured mesh, 1.68594 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20766	21790	138	2
Quasi-structured	20486	21510	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.023684	0.103083	0.386893	0.467625	0.917209	0.960546
Quasi-structured	0.0336021	0.103175	0.386893	0.665348	0.964965	0.991202

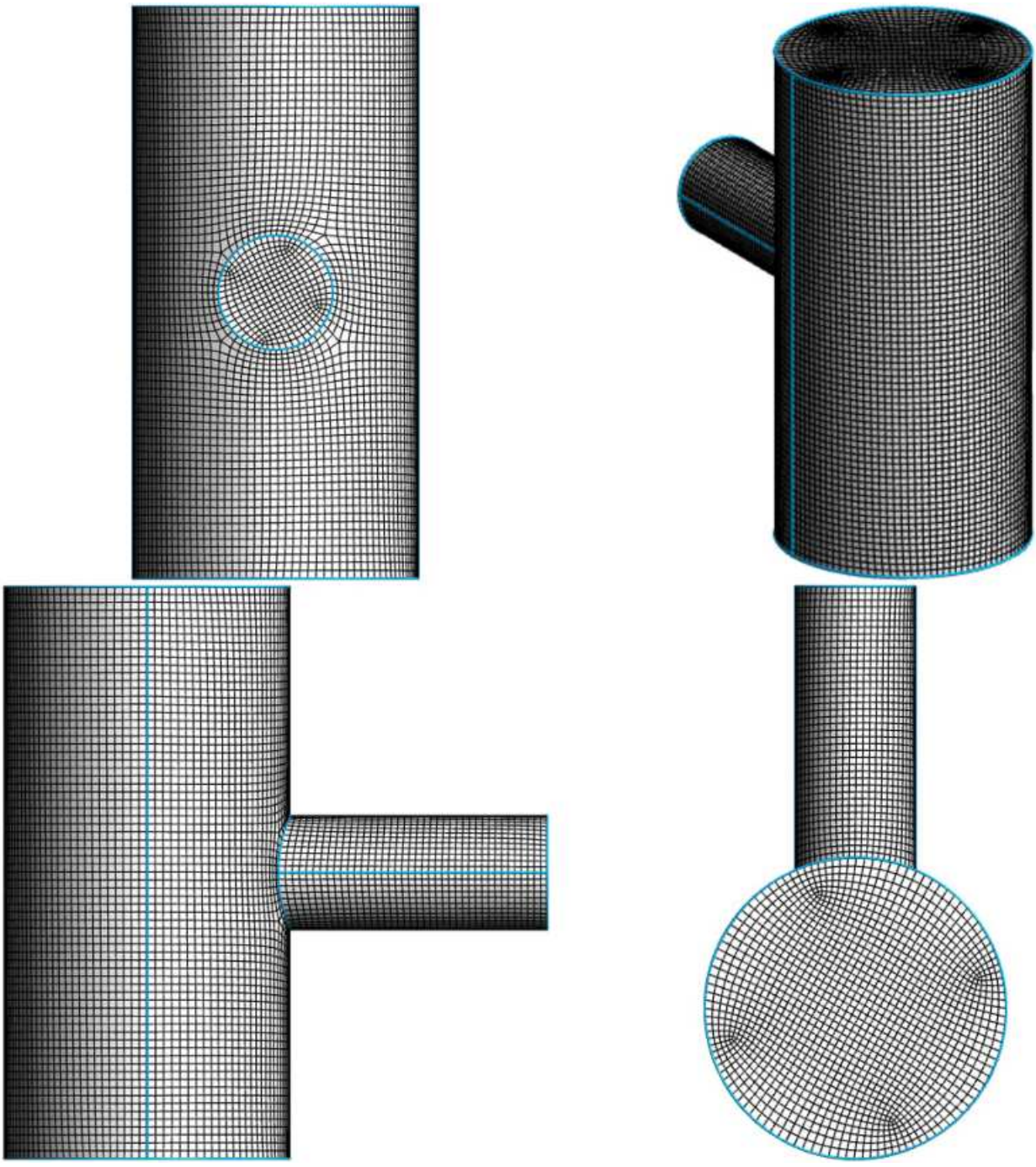


Model: B69 (from Mambo dataset)
CAD: 8 corners, 12 curves, 7 faces
Cross field: 16 singularities detected
Timings: 7.39141 sec to generate the unstructured mesh, 0.92653 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13306	13872	96	4
Quasi-structured	13412	13978	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0368833	0.129471	0.223653	0.59492	0.98505	0.996293
Quasi-structured	0.0470593	0.128745	0.249252	0.705999	0.99622	0.998835

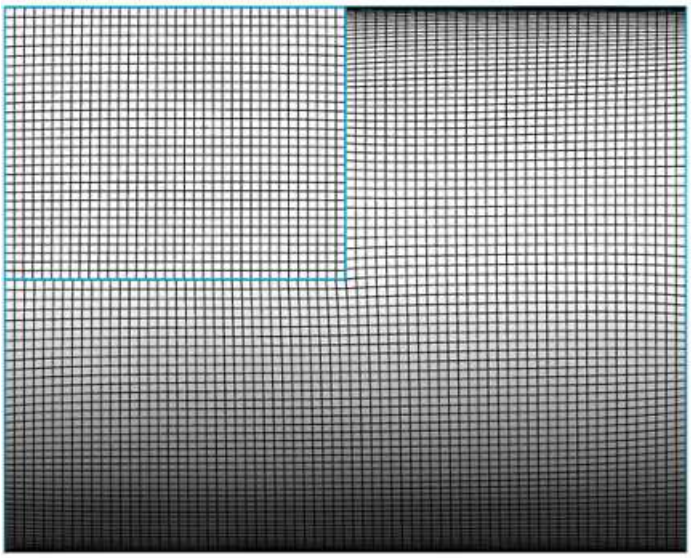


Model: B6 (from Mambo dataset)
CAD: 7 corners, 11 curves, 6 faces
Cross field: 8 singularities detected
Timings: 11.261 sec to generate the unstructured mesh, 1.34952 sec to make it quasi-structured
Mesh topology:

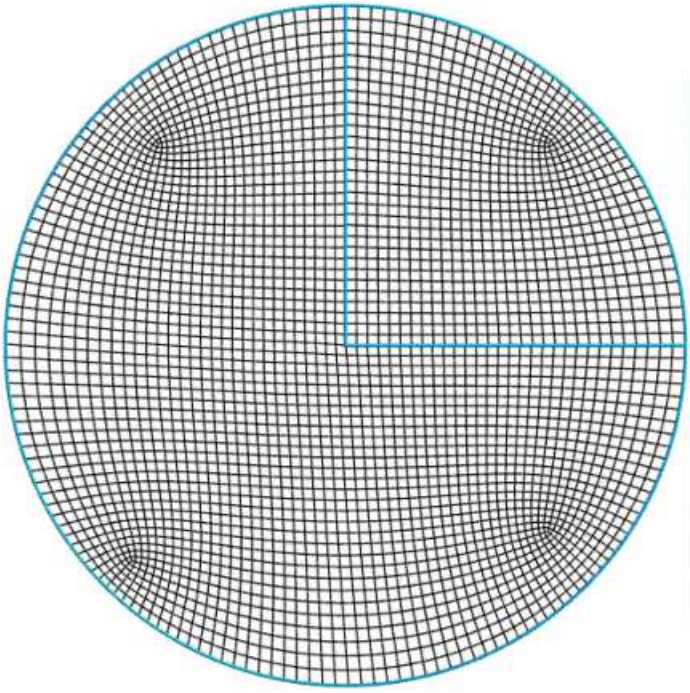
	# quads	# vertices	# irregular	# very irregular
Unstructured	19466	20051	106	38
Quasi-structured	19754	20339	8	0

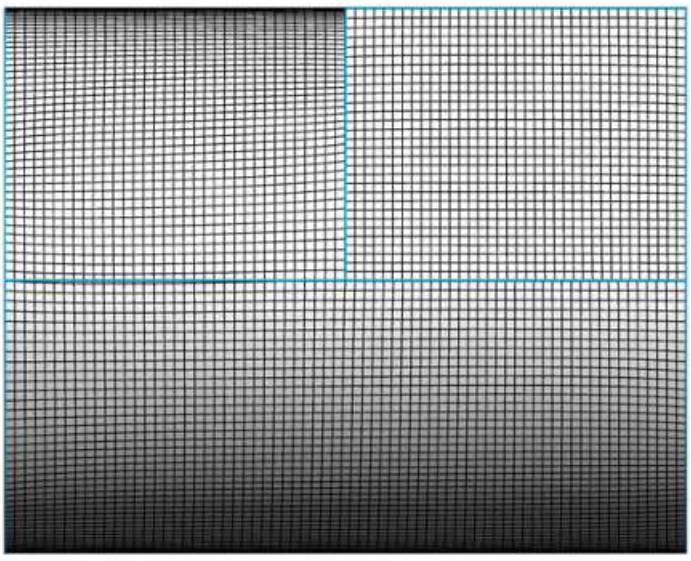
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.03948	0.135736	0.231314	0.572229	0.988874	0.99647
Quasi-structured	0.0428798	0.134361	0.177868	0.855828	0.99742	0.998948







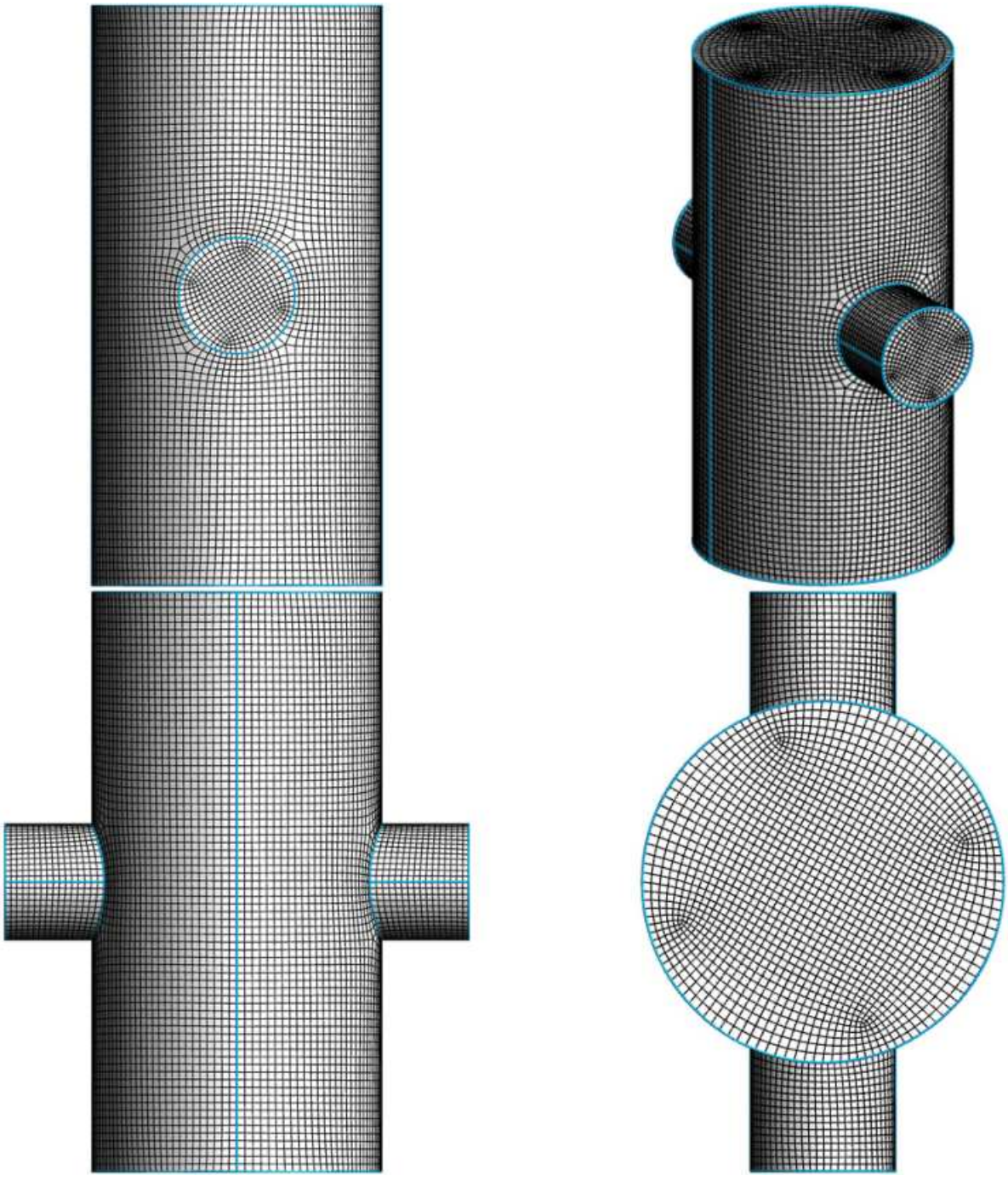


Model: B70 (from Mambo dataset)
CAD: 12 corners, 18 curves, 10 faces
Cross field: 24 singularities detected
Timings: 9.56527 sec to generate the unstructured mesh, 1.12816 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14516	15220	138	4
Quasi-structured	14884	15588	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0337592	0.121312	0.228061	0.583329	0.981614	0.993563
Quasi-structured	0.0447262	0.11952	0.225547	0.828476	0.995943	0.998762

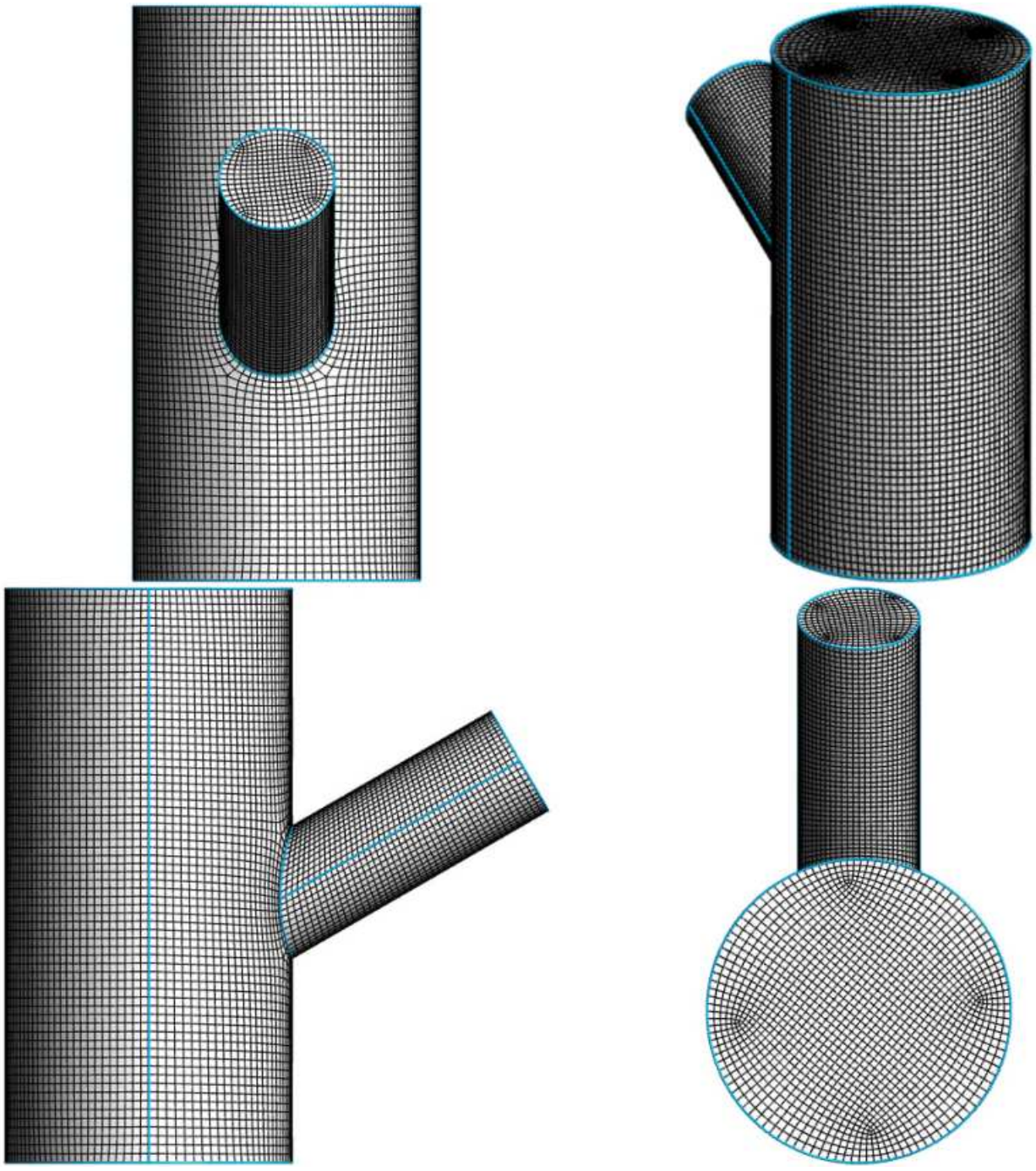


Model: B71 (from Mambo dataset)
CAD: 8 corners, 12 curves, 7 faces
Cross field: 16 singularities detected
Timings: 7.65062 sec to generate the unstructured mesh, 0.855485 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13372	13948	86	1
Quasi-structured	13418	13994	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0362591	0.128978	0.253341	0.620215	0.98057	0.99394
Quasi-structured	0.0433917	0.128473	0.246841	0.757696	0.991875	0.998145

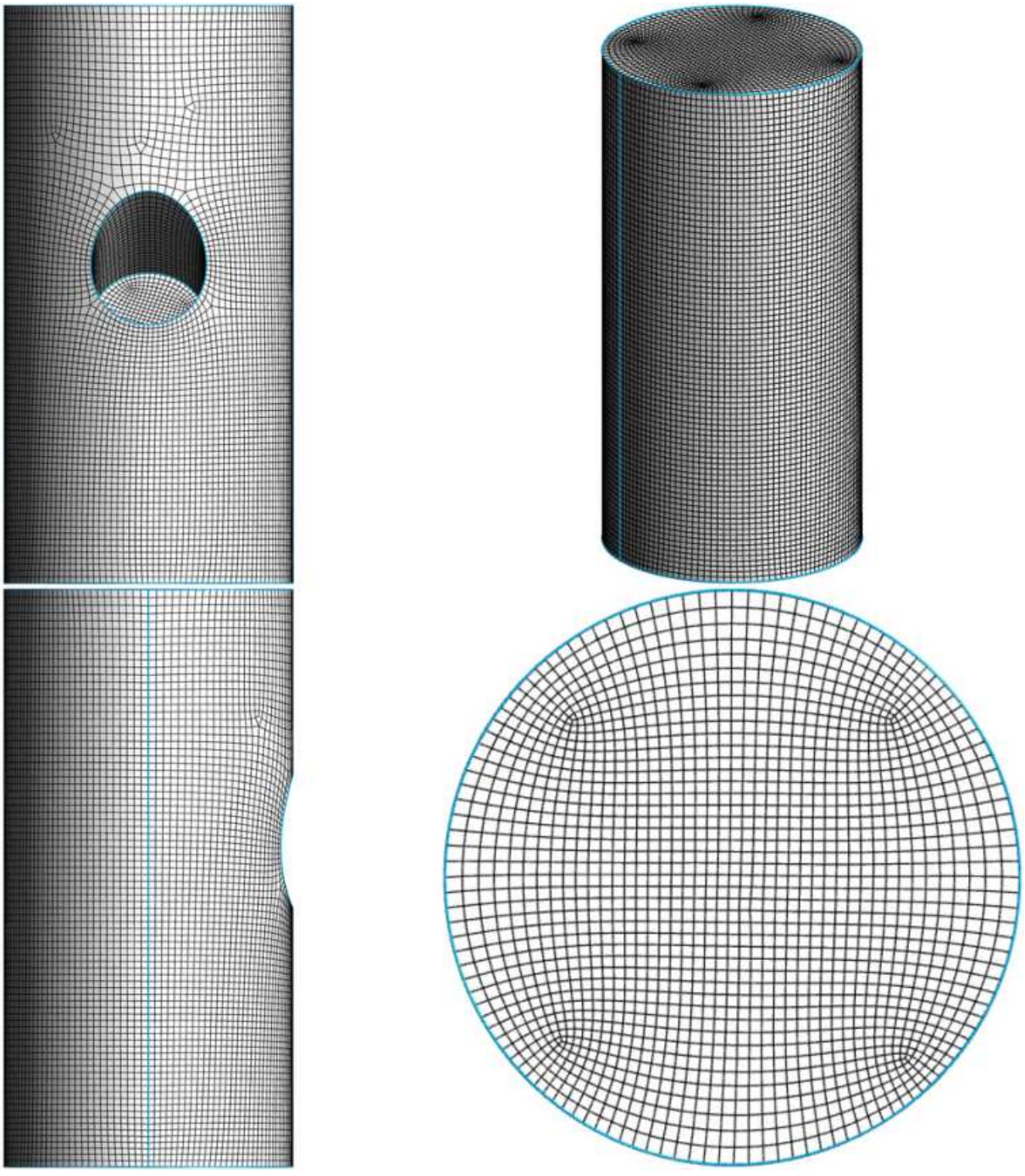


Model: B72 (from Mambo dataset)
CAD: 8 corners, 12 curves, 7 faces
Cross field: 16 singularities detected
Timings: 10.6665 sec to generate the unstructured mesh, 1.25635 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17082	17712	106	1
Quasi-structured	17216	17846	22	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0302383	0.109819	0.212558	0.640094	0.983483	0.994275
Quasi-structured	0.0302873	0.109054	0.253285	0.68403	0.993877	0.998228

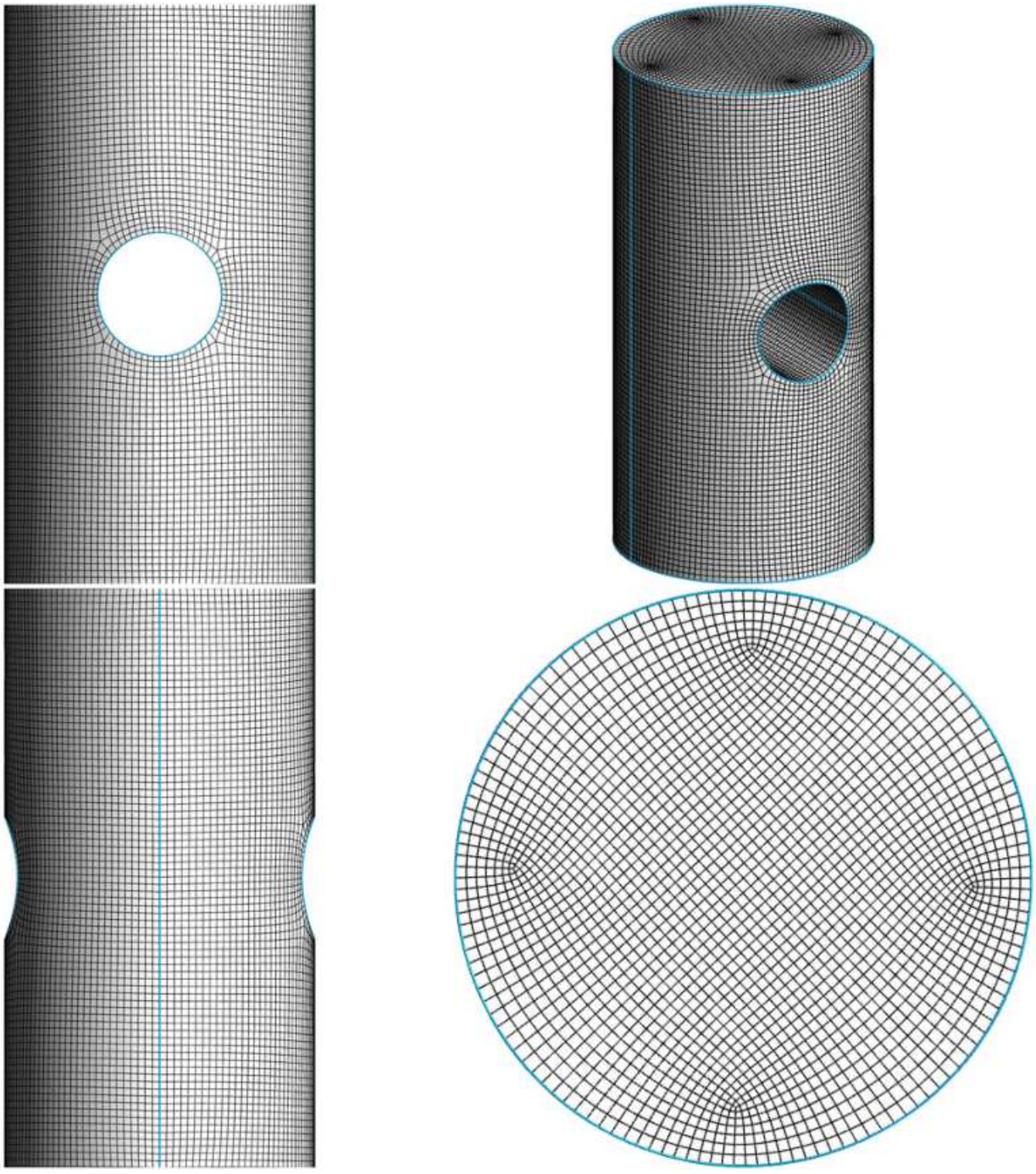


Model: B73 (from Mambo dataset)
CAD: 8 corners, 12 curves, 6 faces
Cross field: 16 singularities detected
Timings: 11.8912 sec to generate the unstructured mesh, 1.53866 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18166	18846	210	0
Quasi-structured	18738	19418	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0371076	0.109662	0.185155	0.468387	0.98191	0.993658
Quasi-structured	0.037949	0.107797	0.210265	0.784507	0.996359	0.998417

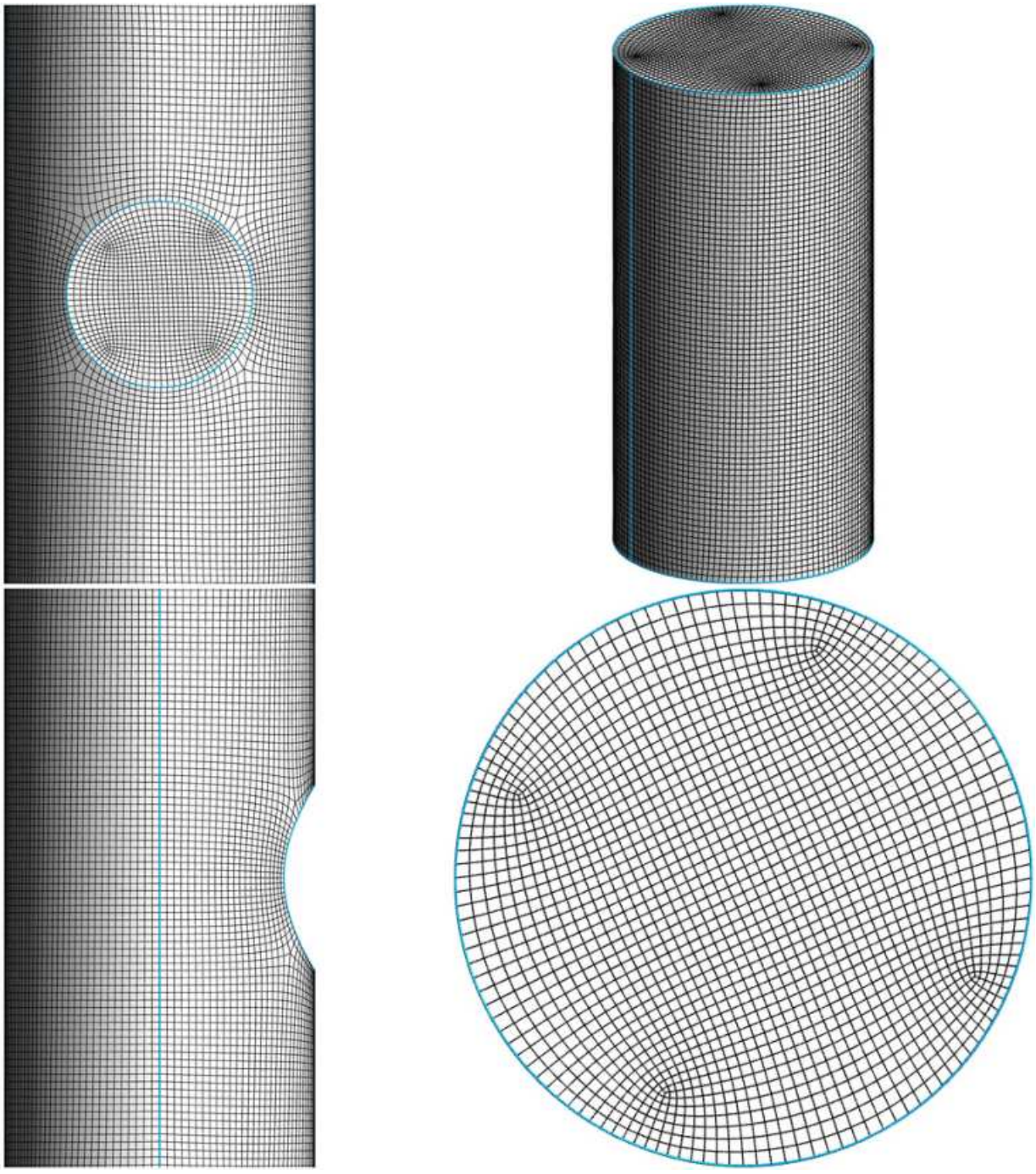


Model: B74 (from Mambo dataset)
CAD: 8 corners, 12 curves, 7 faces
Cross field: 16 singularities detected
Timings: 11.1115 sec to generate the unstructured mesh, 1.21954 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16836	17498	138	2
Quasi-structured	16760	17422	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0240689	0.110409	0.186216	0.51413	0.98487	0.995864
Quasi-structured	0.0332589	0.110429	0.247162	0.739436	0.995873	0.998751

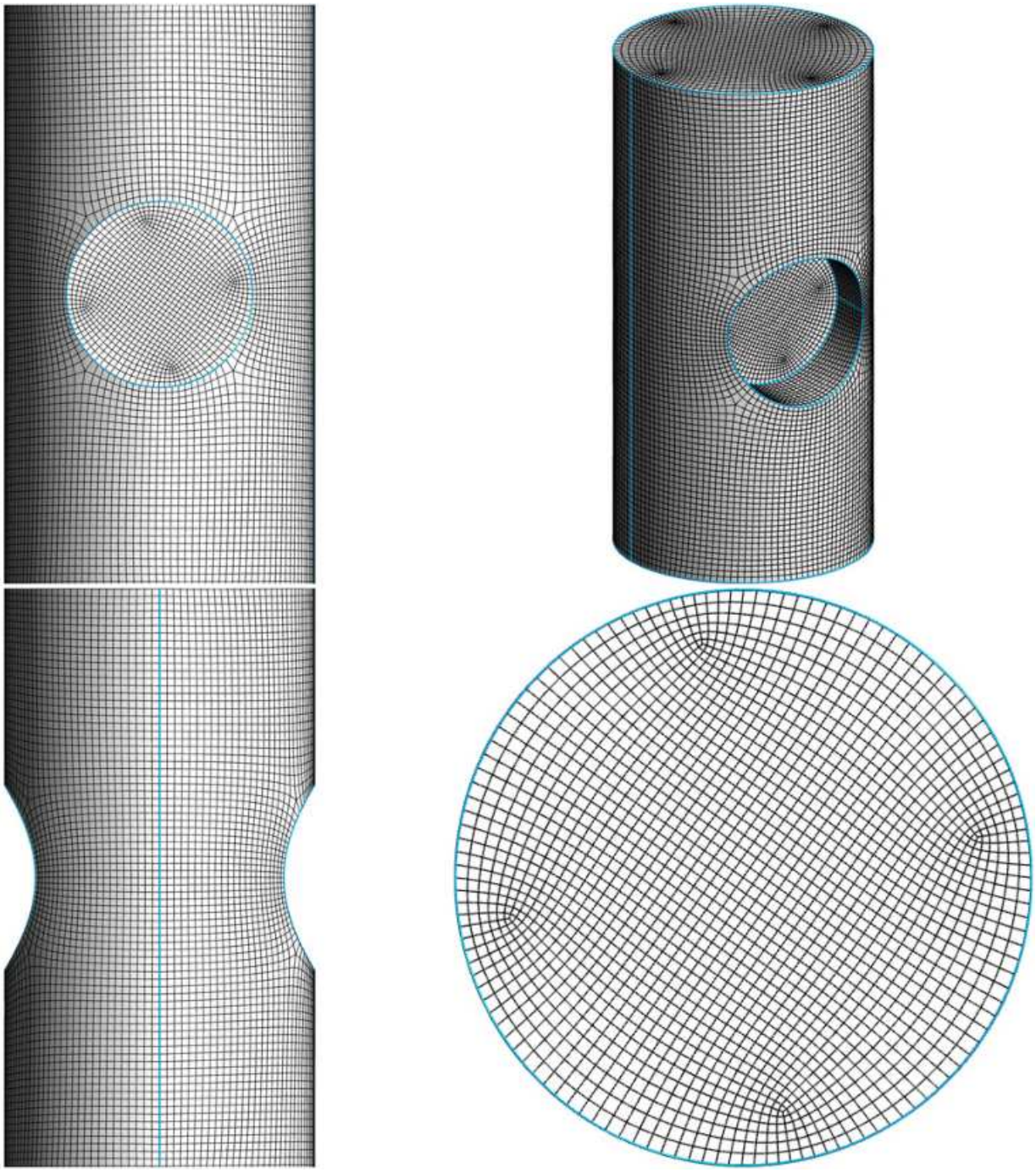


Model: B75 (from Mambo dataset)
CAD: 12 corners, 18 curves, 10 faces
Cross field: 24 singularities detected
Timings: 12.5135 sec to generate the unstructured mesh, 1.37087 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17722	18590	178	2
Quasi-structured	18150	19018	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0250545	0.110257	0.195278	0.467116	0.981148	0.991745
Quasi-structured	0.0324816	0.108638	0.24374	0.779157	0.994952	0.997734

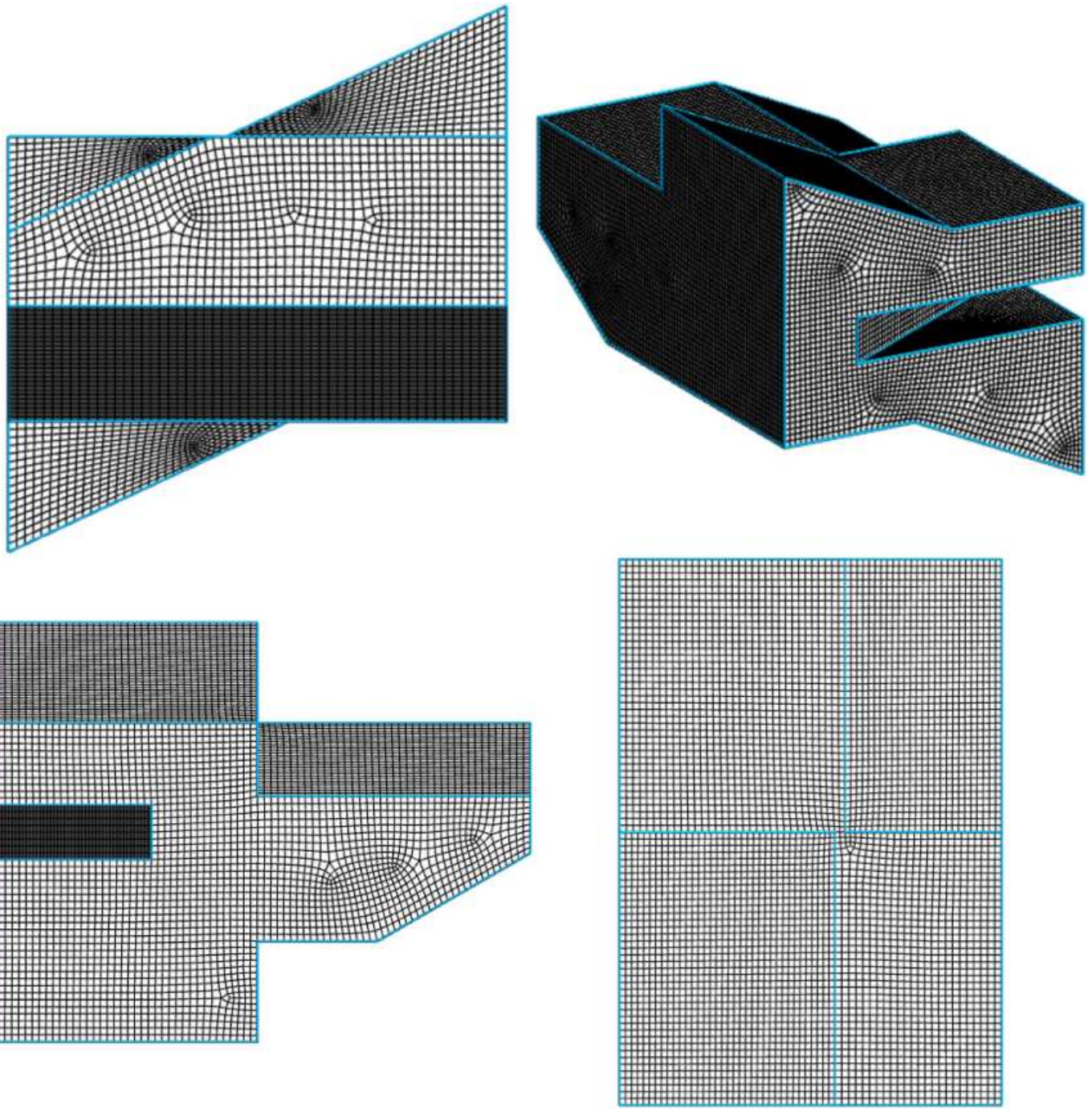


Model: B76 (from Mambo dataset)
CAD: 28 corners, 42 curves, 16 faces
Cross field: 5 singularities detected
Timings: 7.84784 sec to generate the unstructured mesh, 2.40612 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19668	21006	259	2
Quasi-structured	21182	22520	47	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0367835	0.125508	0.208639	0.422331	0.986434	0.999532
Quasi-structured	0.0218397	0.121079	0.264453	0.366358	0.966546	0.99926

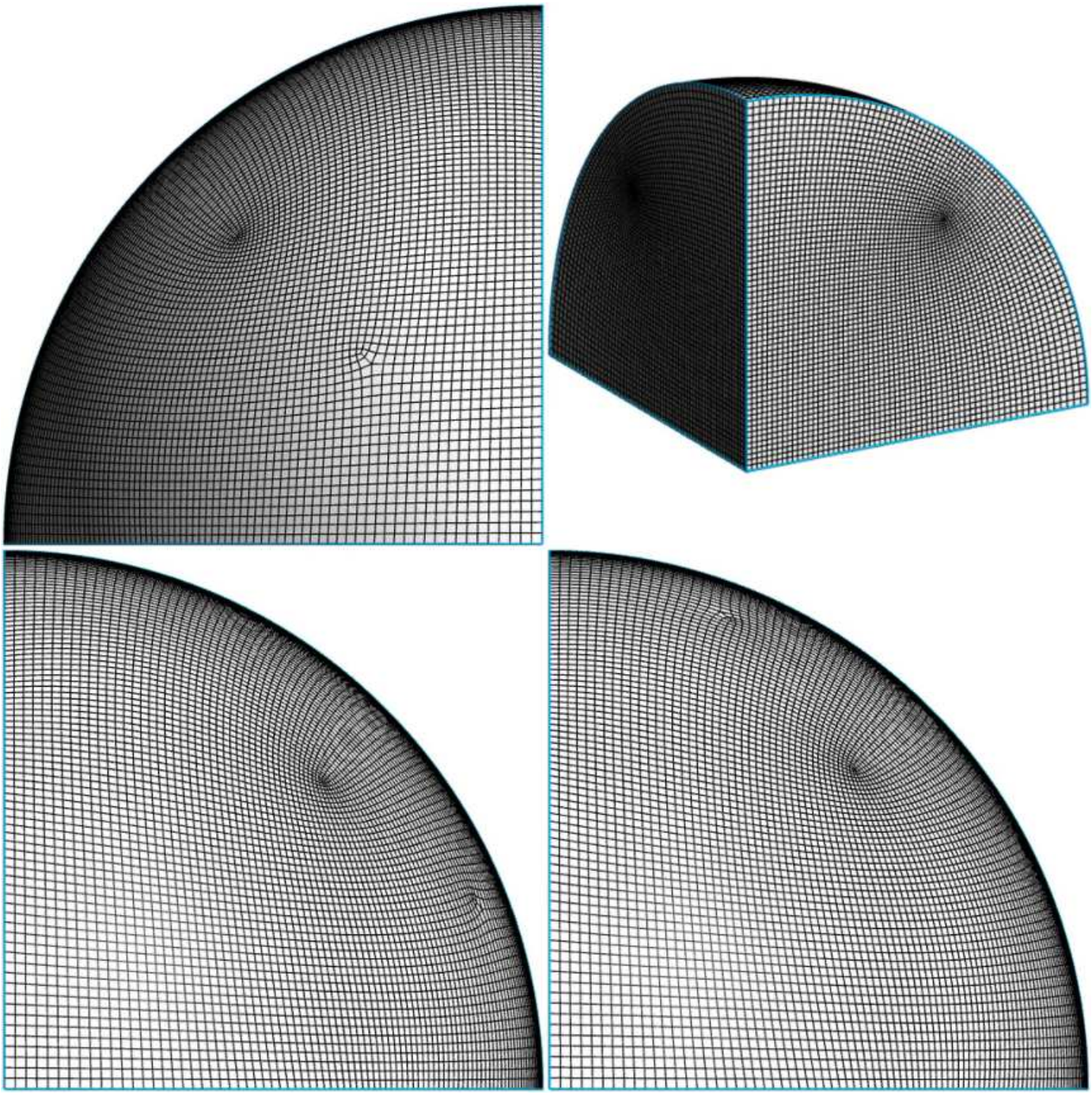


Model: B7 (from Mambo dataset)
CAD: 4 corners, 7 curves, 4 faces
Cross field: 4 singularities detected
Timings: 10.7699 sec to generate the unstructured mesh, 7.47043 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15908	16362	104	2
Quasi-structured	16470	16924	6	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0404072	0.156109	0.320718	0.575794	0.990485	0.997988
Quasi-structured	0.0416114	0.152922	0.234272	0.852323	0.997456	0.998505

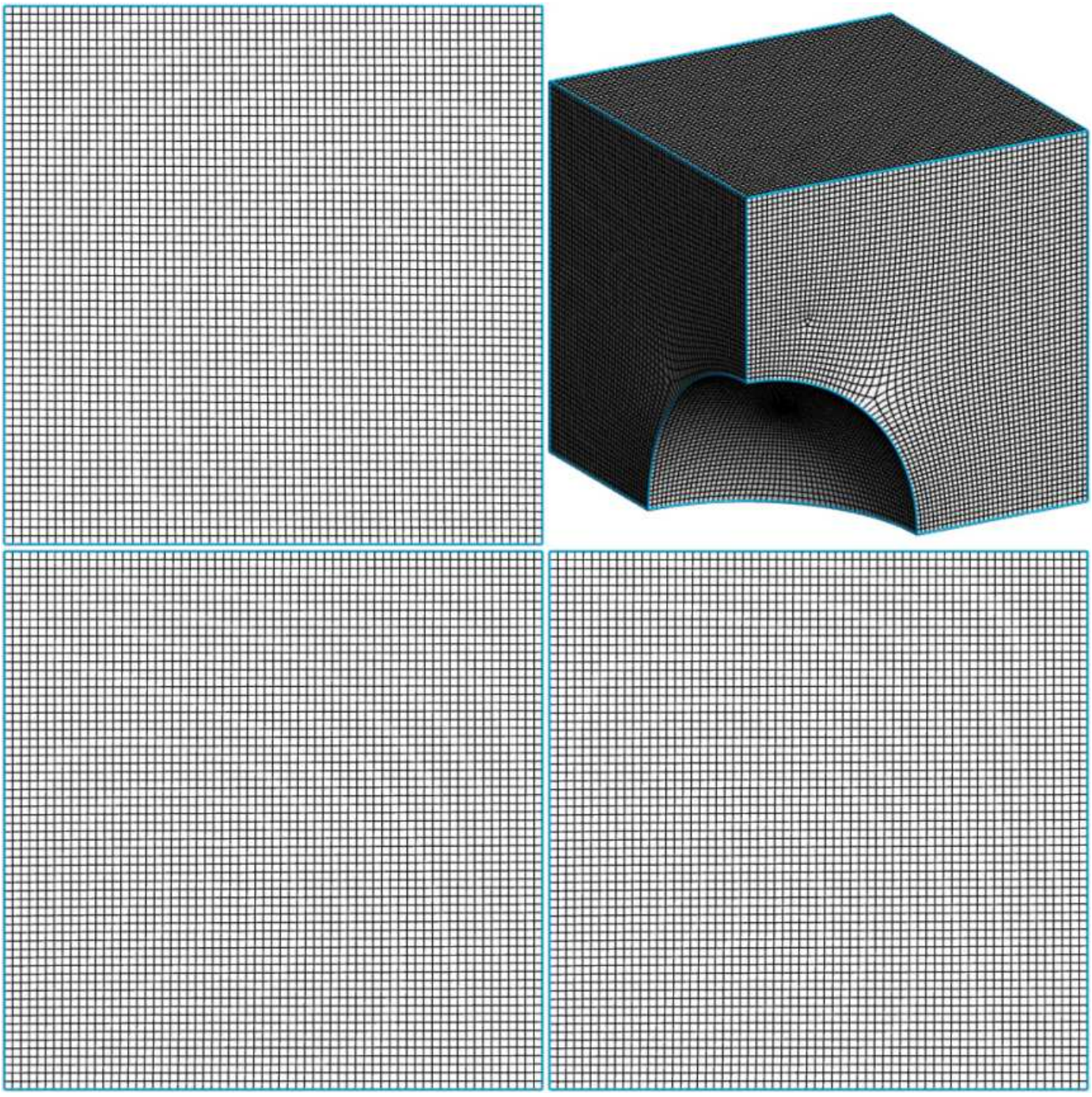


Model: B8 (from Mambo dataset)
CAD: 10 corners, 16 curves, 7 faces
Cross field: 4 singularities detected
Timings: 14.9683 sec to generate the unstructured mesh, 5.59215 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24346	25209	108	2
Quasi-structured	24670	25533	6	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.10212	0.308748	0.53863	0.500035	0.993347	0.999782
Quasi-structured	0.0582041	0.305723	0.902697	0.636584	0.99687	0.999826

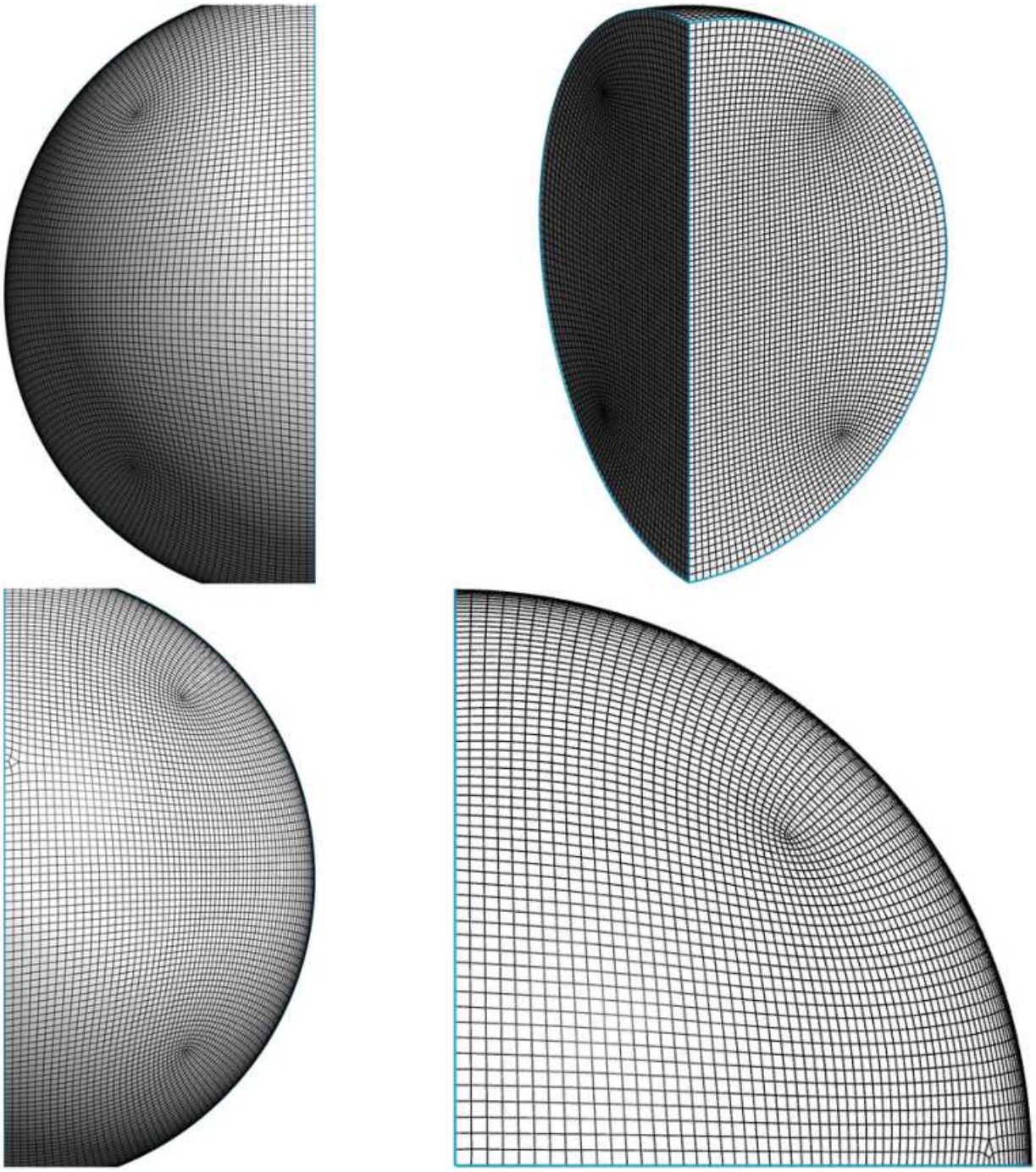


Model: B9 (from Mambo dataset)
CAD: 2 corners, 5 curves, 3 faces
Cross field: 6 singularities detected
Timings: 8.86426 sec to generate the unstructured mesh, 6.58704 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12506	12847	94	1
Quasi-structured	12862	13203	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0578144	0.222755	0.43576	0.541519	0.987904	0.996204
Quasi-structured	0.0656604	0.218895	0.38325	0.753855	0.996295	0.998045

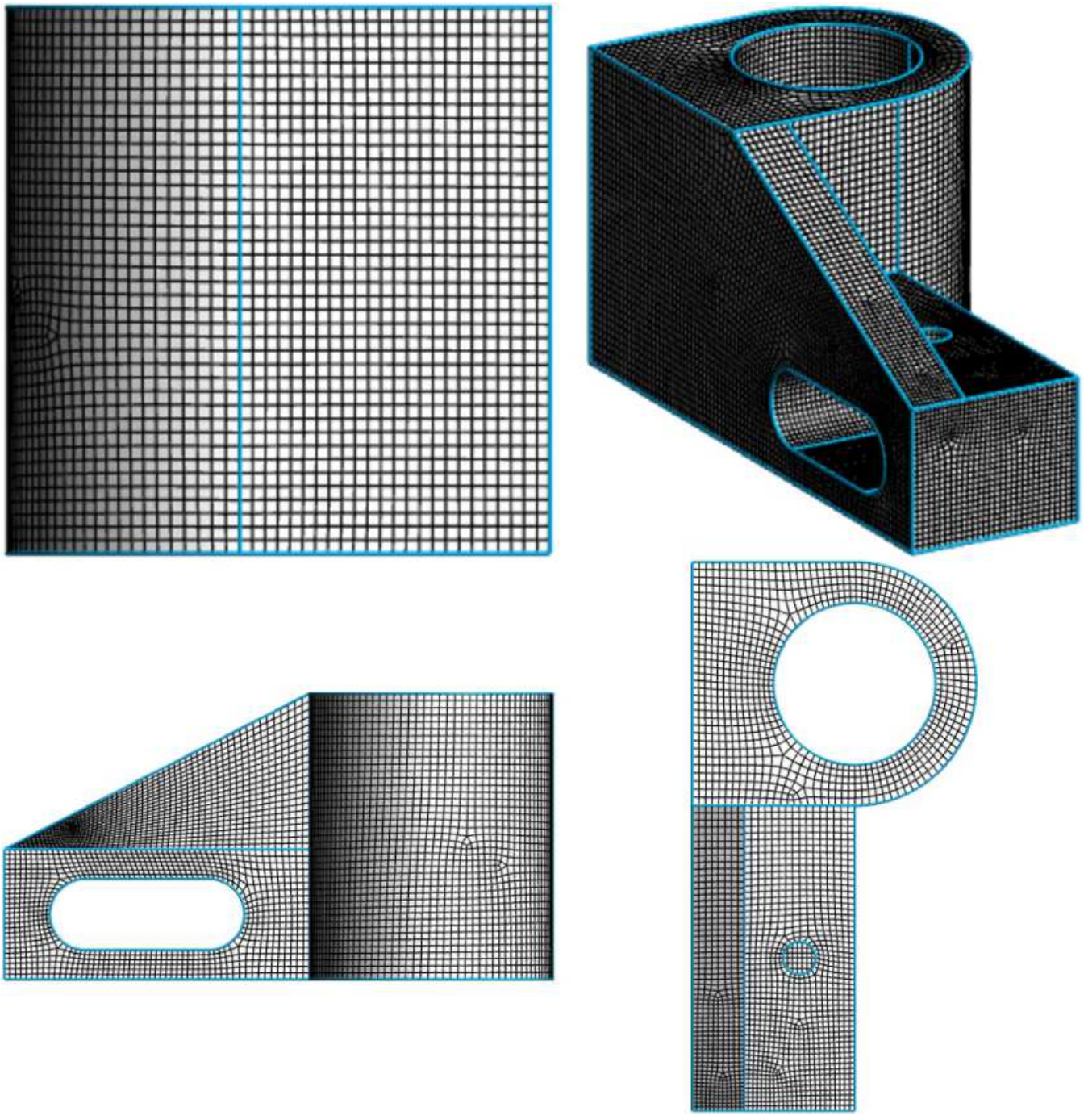


Model: S0 (from Mambo dataset)
CAD: 29 corners, 44 curves, 17 faces
Cross field: 21 singularities detected
Timings: 10.839 sec to generate the unstructured mesh, 2.90577 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21352	22769	243	68
Quasi-structured	22237	23654	67	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.465378	1.83498	4.25088	0.382293	0.981454	0.997452
Quasi-structured	0.263552	1.79636	4.50134	0.448368	0.983093	0.998112

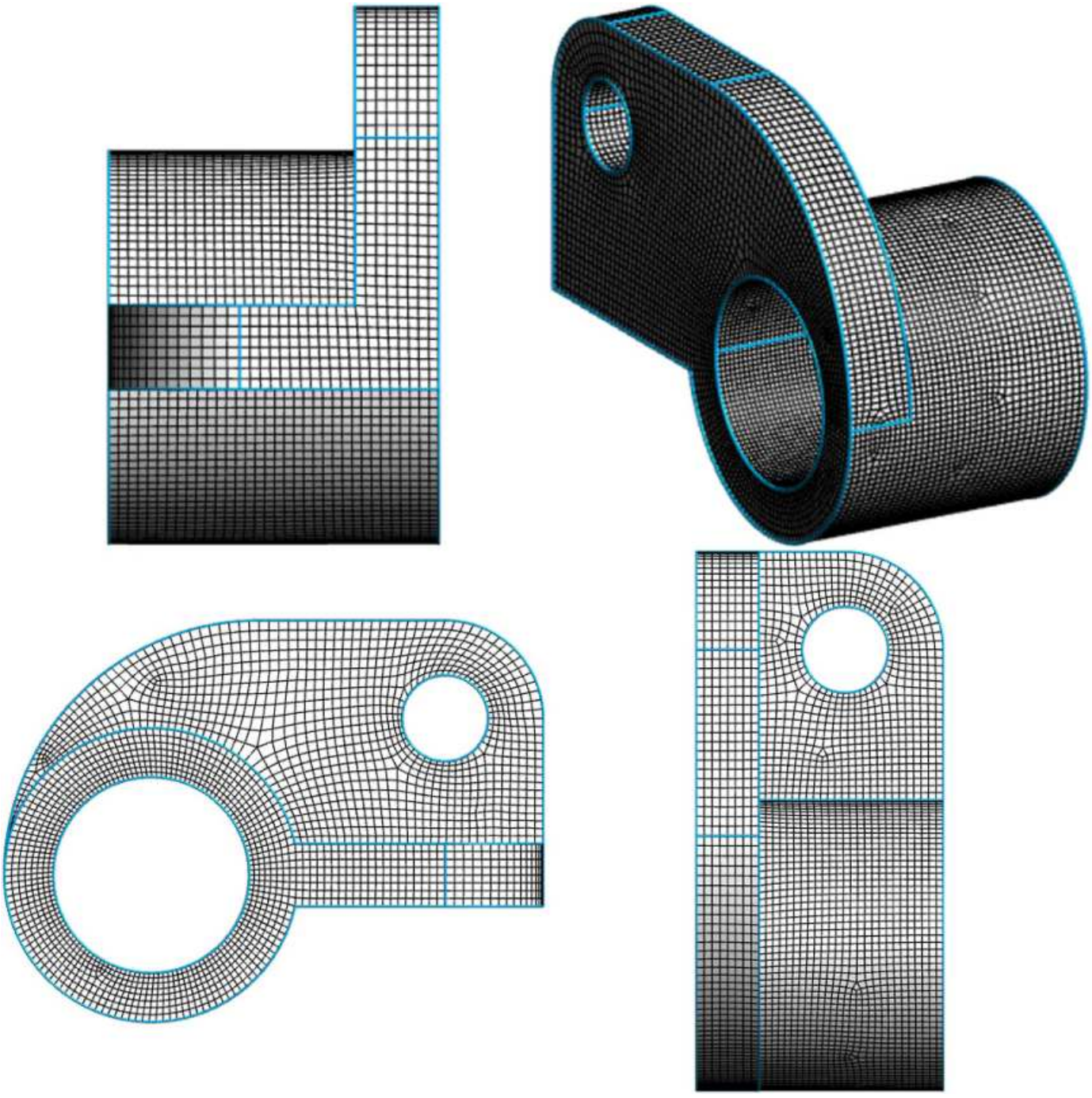


Model: S1 (from Mambo dataset)
CAD: 27 corners, 39 curves, 14 faces
Cross field: 15 singularities detected
Timings: 10.5991 sec to generate the unstructured mesh, 4.948 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19348	20549	229	75
Quasi-structured	19162	20363	77	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0373021	1.5884	3.55348	0.0209978	0.980618	0.997748
Quasi-structured	0.0265209	1.59445	4.97892	0.027484	0.990931	0.998564

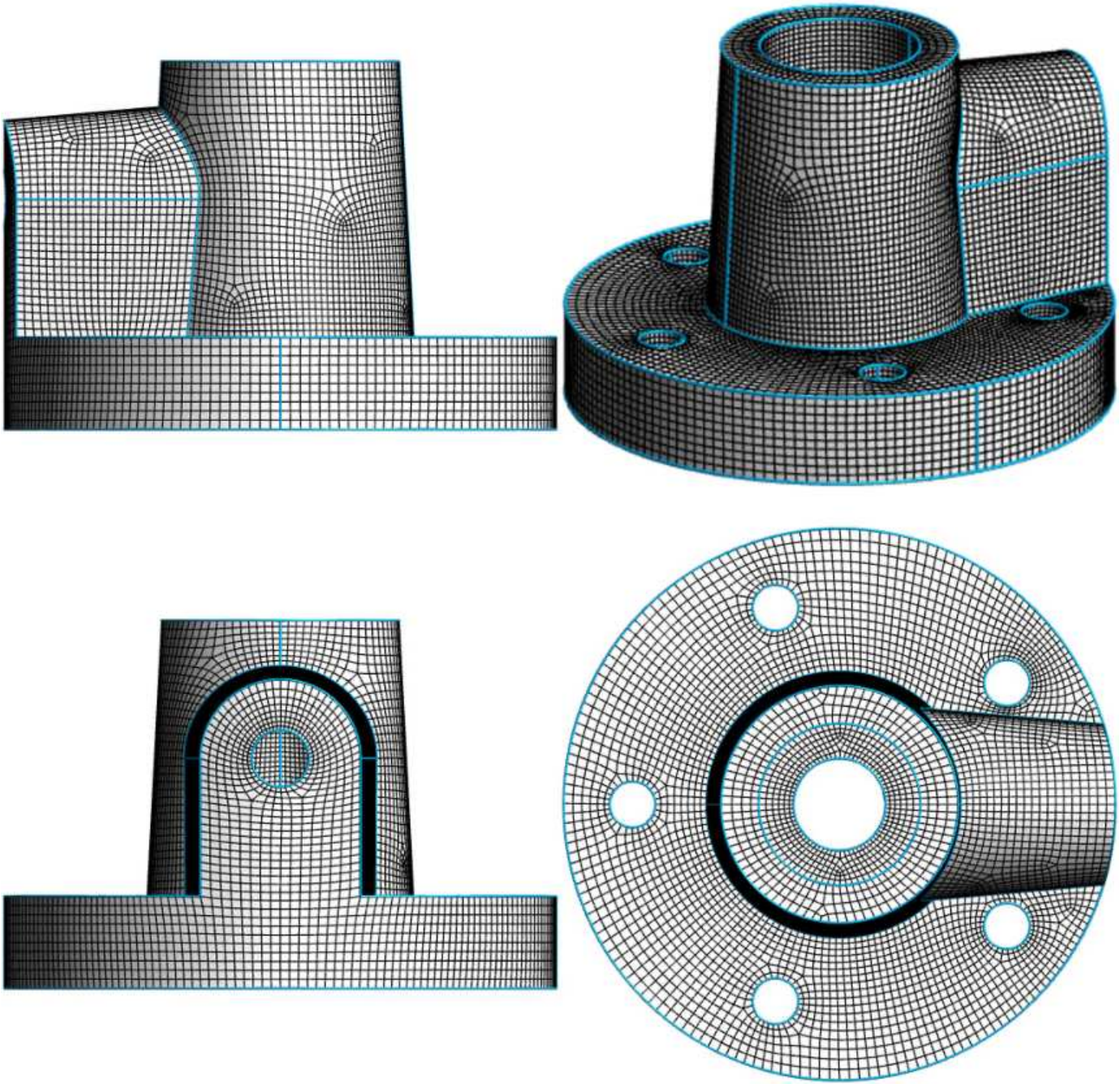


Model: S20 (from Mambo dataset)
CAD: 51 corners, 76 curves, 27 faces
Cross field: 46 singularities detected
Timings: 13.0652 sec to generate the unstructured mesh, 2.57267 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22604	24525	386	6
Quasi-structured	22448	24369	86	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00726876	0.0365932	0.072357	0.436254	0.973765	0.991539
Quasi-structured	0.0128378	0.0367098	0.0993727	0.428555	0.982495	0.992802

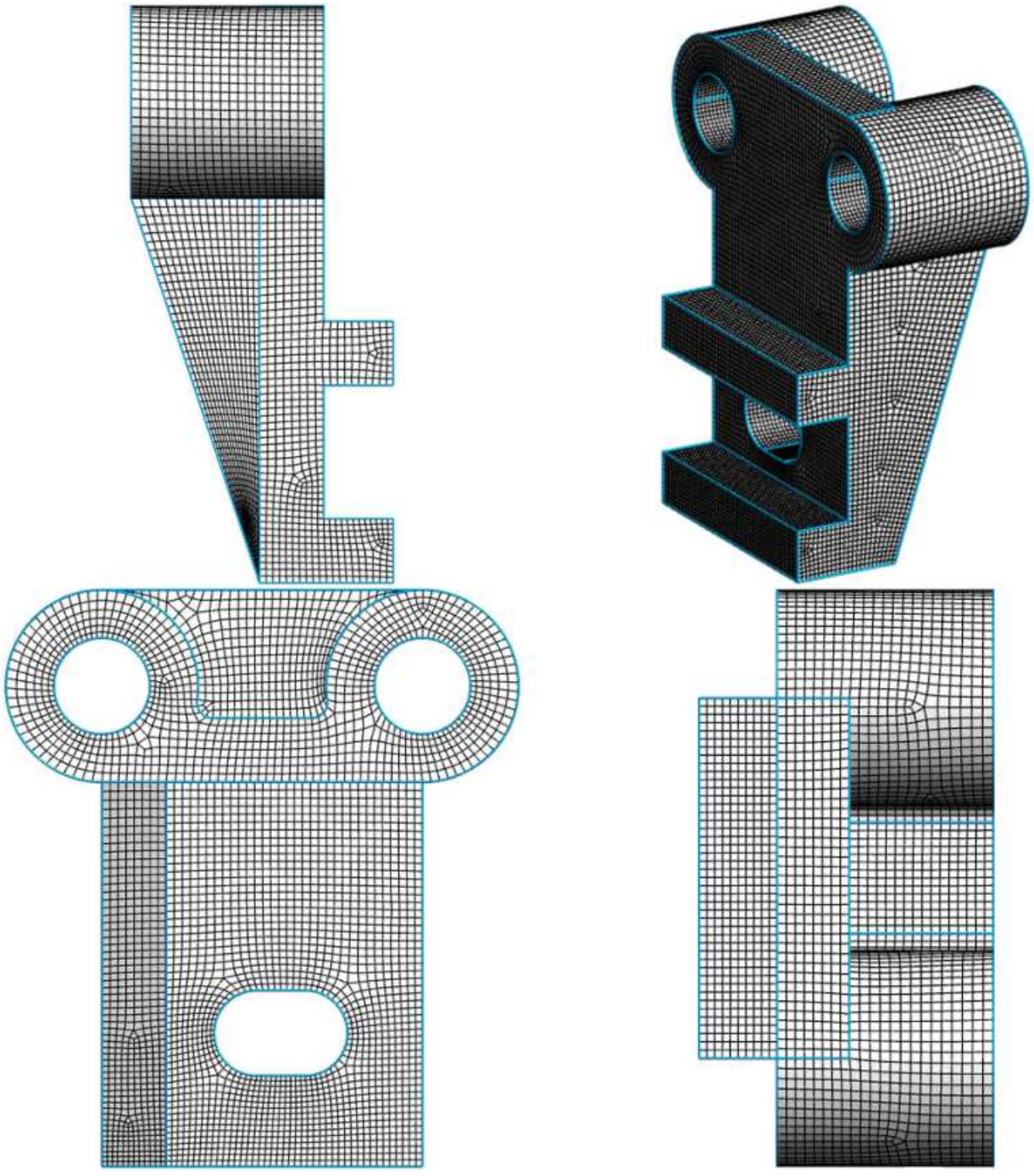


Model: S22 (from Mambo dataset)
CAD: 52 corners, 80 curves, 30 faces
Cross field: 23 singularities detected
Timings: 8.80257 sec to generate the unstructured mesh, 2.99999 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20212	22158	185	5
Quasi-structured	20854	22800	79	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.159395	1.28062	2.58175	0.0827855	0.983242	0.996885
Quasi-structured	0.0630444	1.26126	3.07157	0.0827855	0.98036	0.997298

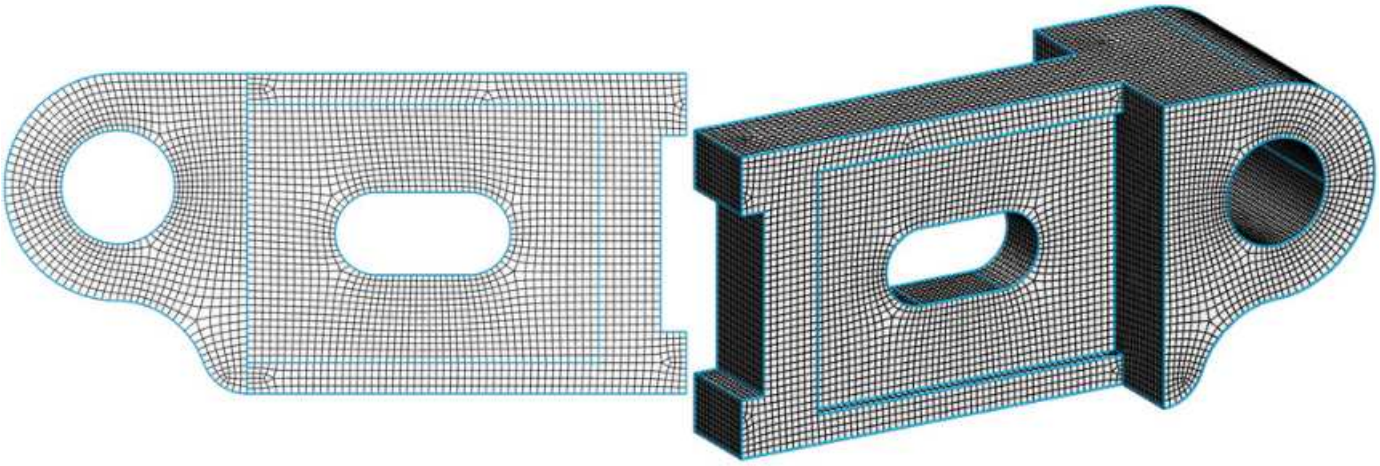


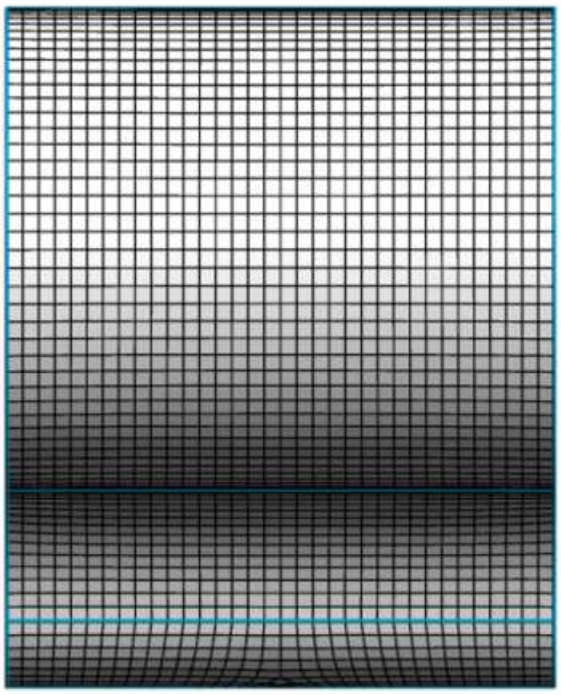
Model: S23 (from Mambo dataset)
CAD: 54 corners, 82 curves, 30 faces
Cross field: 16 singularities detected
Timings: 7.40428 sec to generate the unstructured mesh, 1.53236 sec to make it quasi-structured
Mesh topology:

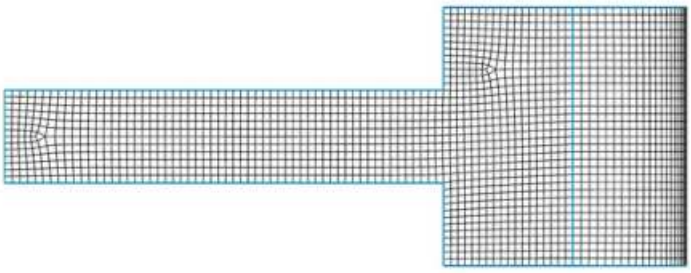
	# quads	# vertices	# irregular	# very irregular
Unstructured	17334	19274	182	3
Quasi-structured	17710	19650	60	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.375013	1.32797	2.55725	0.26197	0.984768	0.997106
Quasi-structured	0.554366	1.31309	3.0738	0.583162	0.991629	0.995991





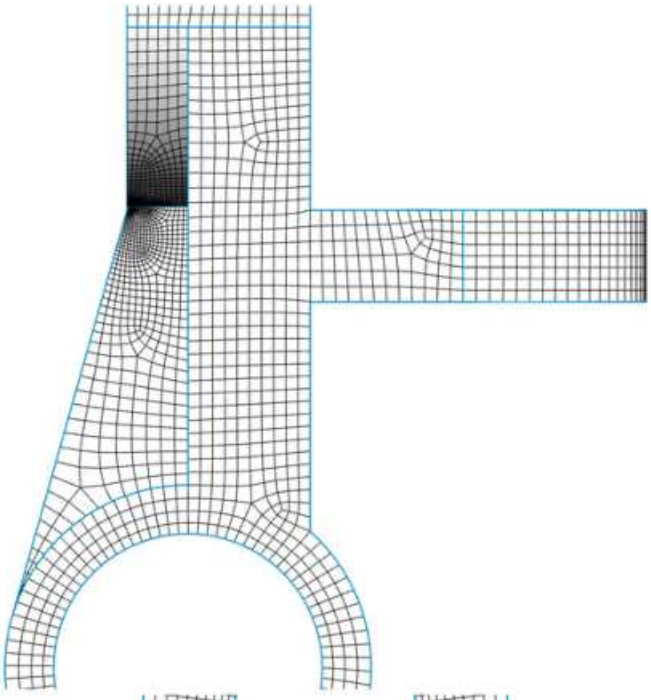


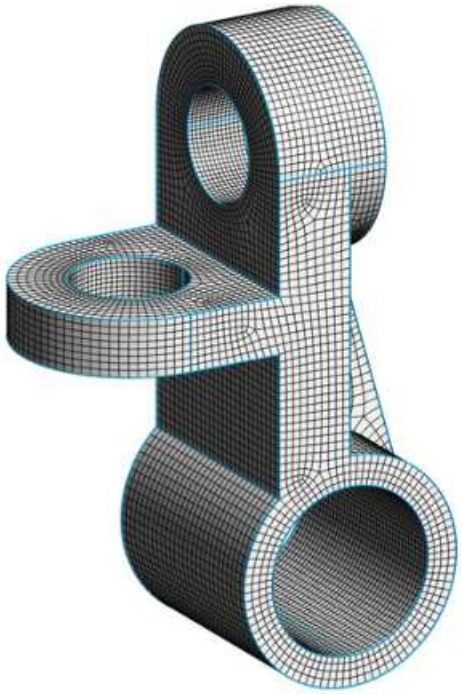
Model: S24 (from Mambo dataset)
CAD: 43 corners, 65 curves, 24 faces
Cross field: 16 singularities detected
Timings: 6.78044 sec to generate the unstructured mesh, 5.01831 sec to make it quasi-structured
Mesh topology:

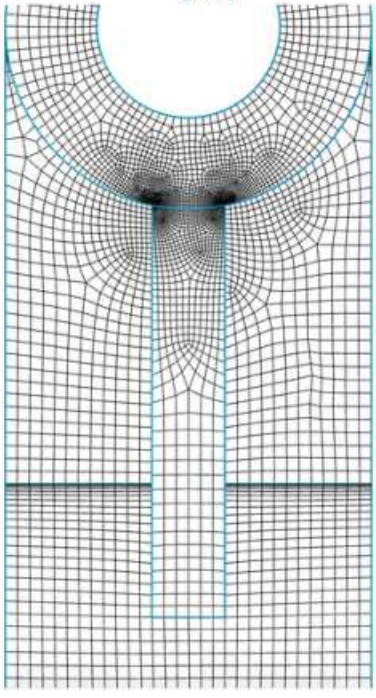
	# quads	# vertices	# irregular	# very irregular
Unstructured	20252	22150	458	15
Quasi-structured	20463	22361	246	0

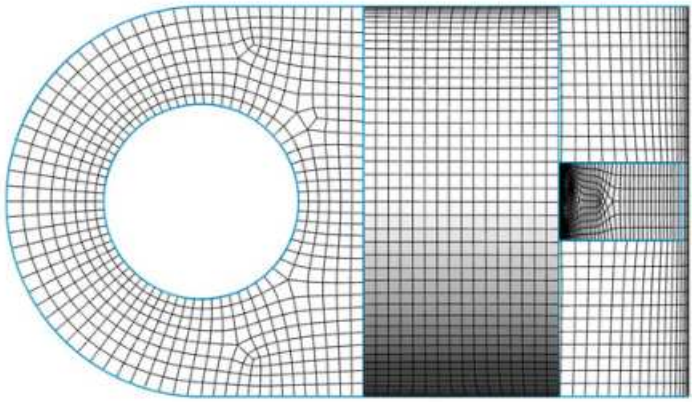
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0293604	1.44139	3.38401	0.000405755	0.962446	0.993507
Quasi-structured	0.0117526	1.4348	5.02847	0.00226359	0.979995	0.995259







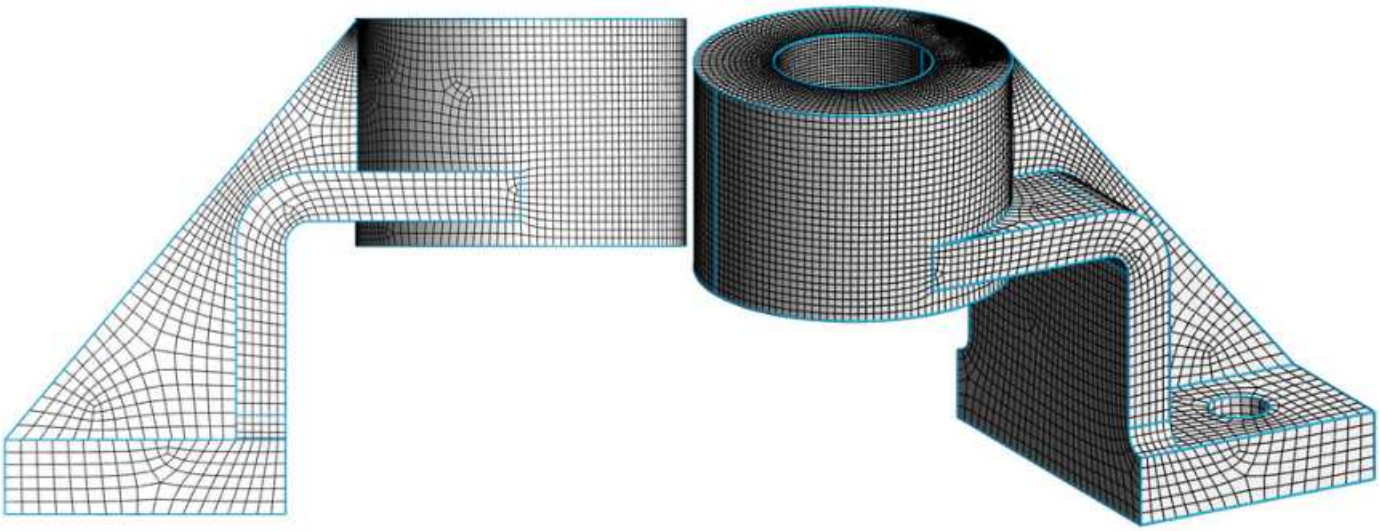


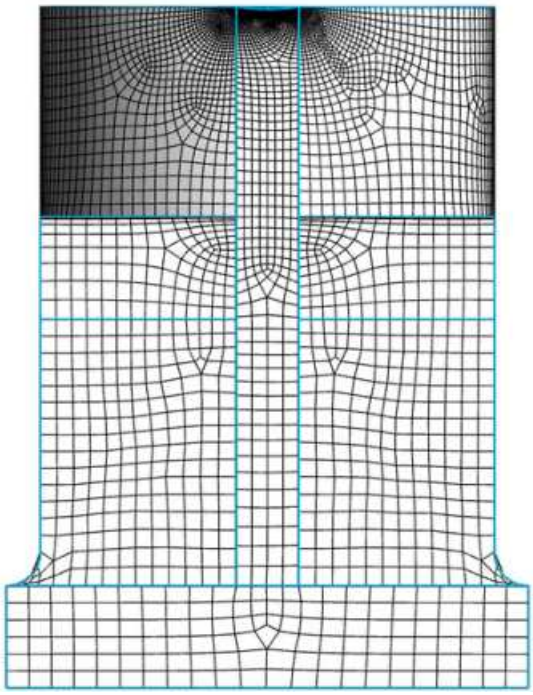
Model: S25 (from Mambo dataset)
CAD: 58 corners, 88 curves, 32 faces
Cross field: 32 singularities detected
Timings: 8.81938 sec to generate the unstructured mesh, 17.1349 sec to make it quasi-structured
Mesh topology:

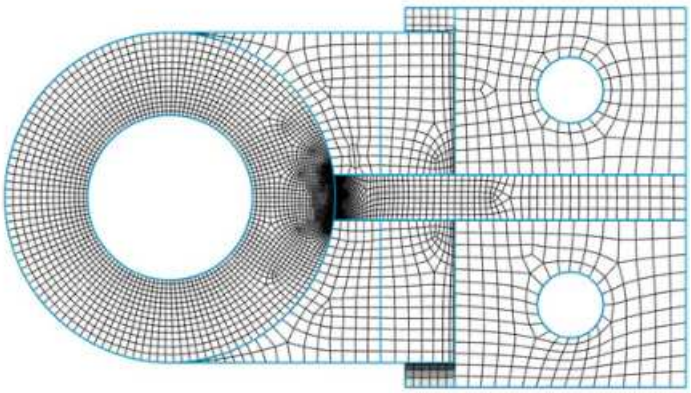
	# quads	# vertices	# irregular	# very irregular
Unstructured	23490	25520	636	24
Quasi-structured	23982	26012	312	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00185153	1.41174	6.27275	0.00087164	0.963196	0.995452
Quasi-structured	0.0244767	1.41217	5.86186	0.021866	0.977054	0.997413





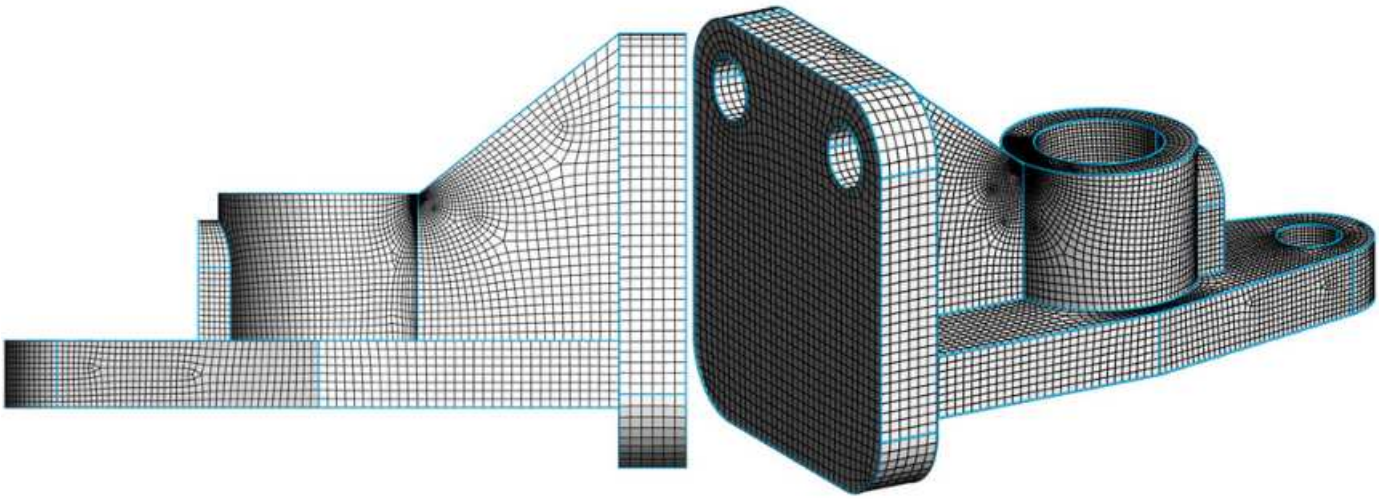


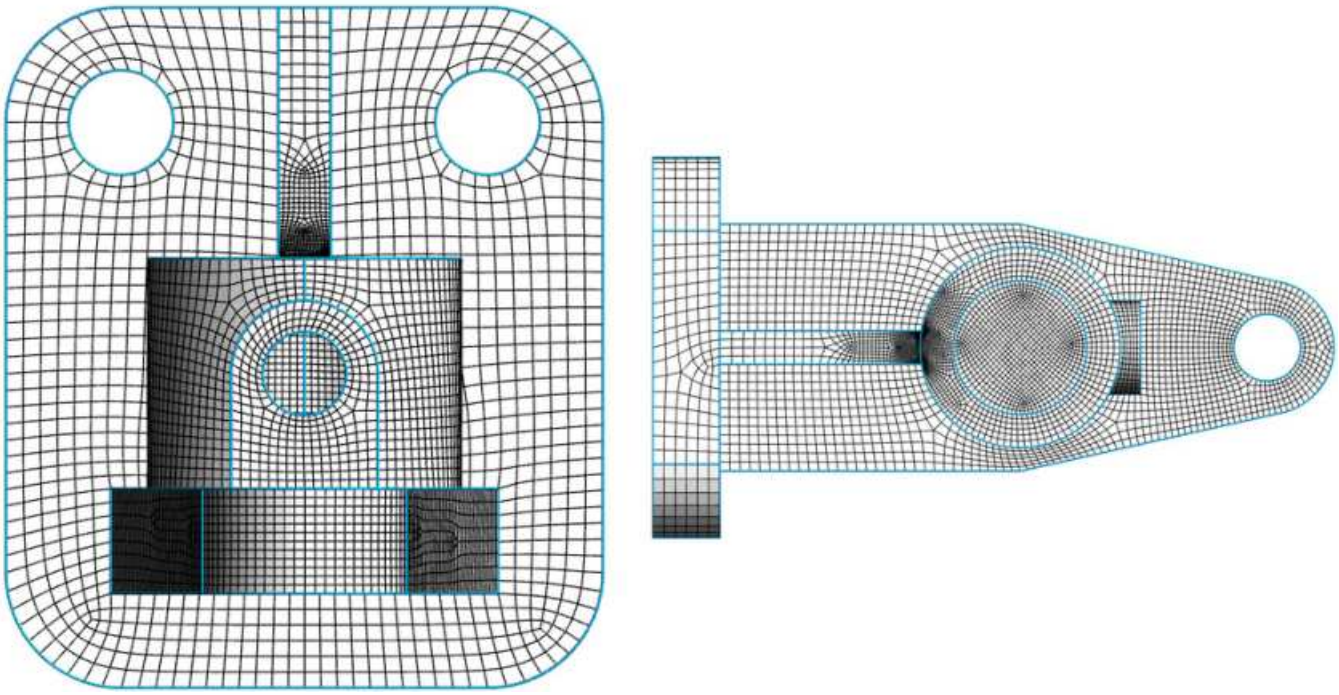
Model: S26 (from Mambo dataset)
CAD: 71 corners, 107 curves, 38 faces
Cross field: 38 singularities detected
Timings: 9.2108 sec to generate the unstructured mesh, 4.21085 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20648	22748	641	19
Quasi-structured	21066	23166	134	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00663913	1.90595	6.51494	0.0154226	0.957896	0.988346
Quasi-structured	0.0052929	1.88909	6.17295	0.0156683	0.979722	0.992451



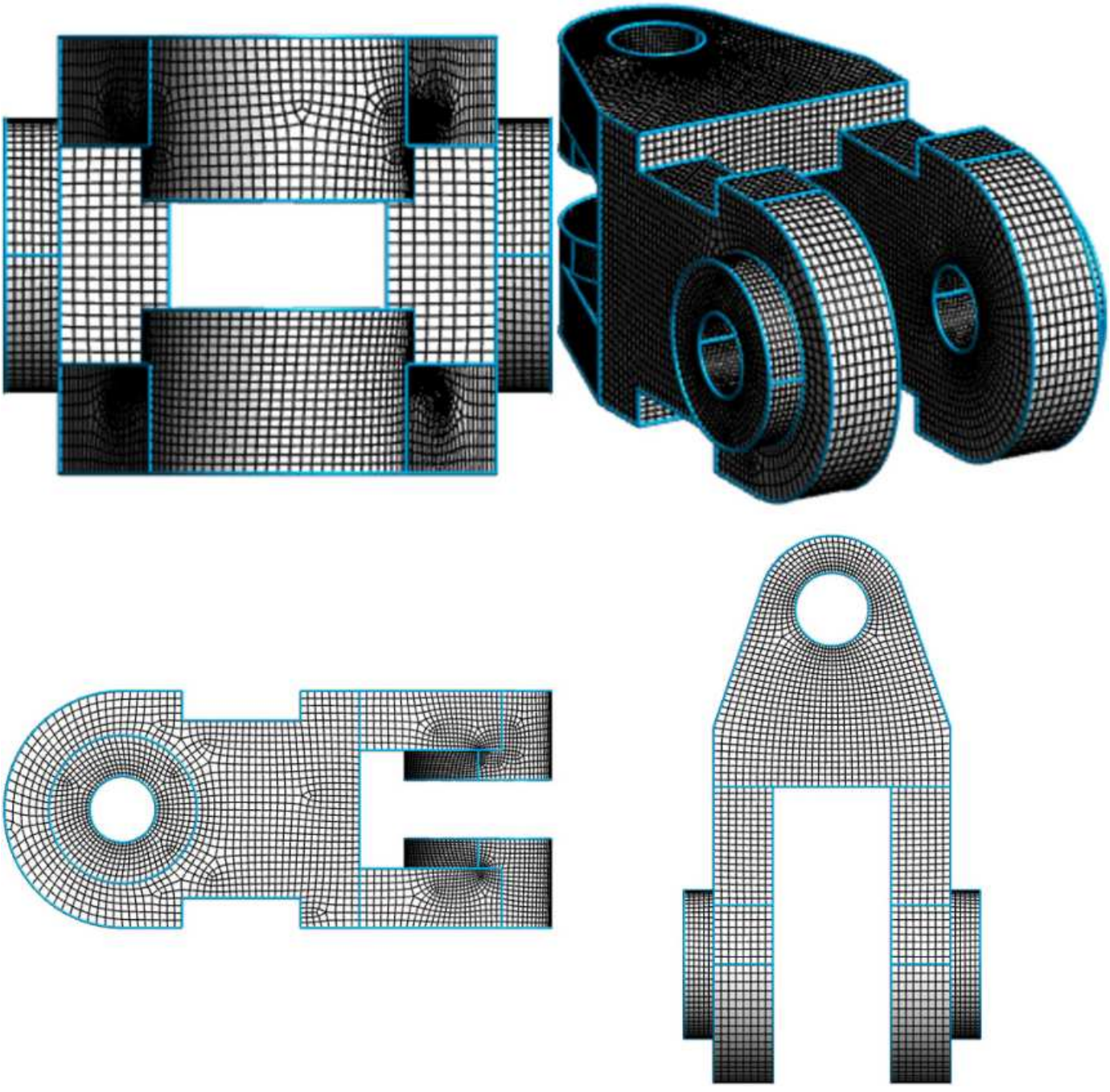


Model: S27 (from Mambo dataset)
CAD: 94 corners, 144 curves, 52 faces
Cross field: 20 singularities detected
Timings: 10.3788 sec to generate the unstructured mesh, 4.4151 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24778	27454	472	11
Quasi-structured	25432	28108	124	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0584278	0.871532	2.12919	0.00221437	0.962685	0.988233
Quasi-structured	0.024317	0.862378	2.28413	0.0208549	0.974559	0.991583

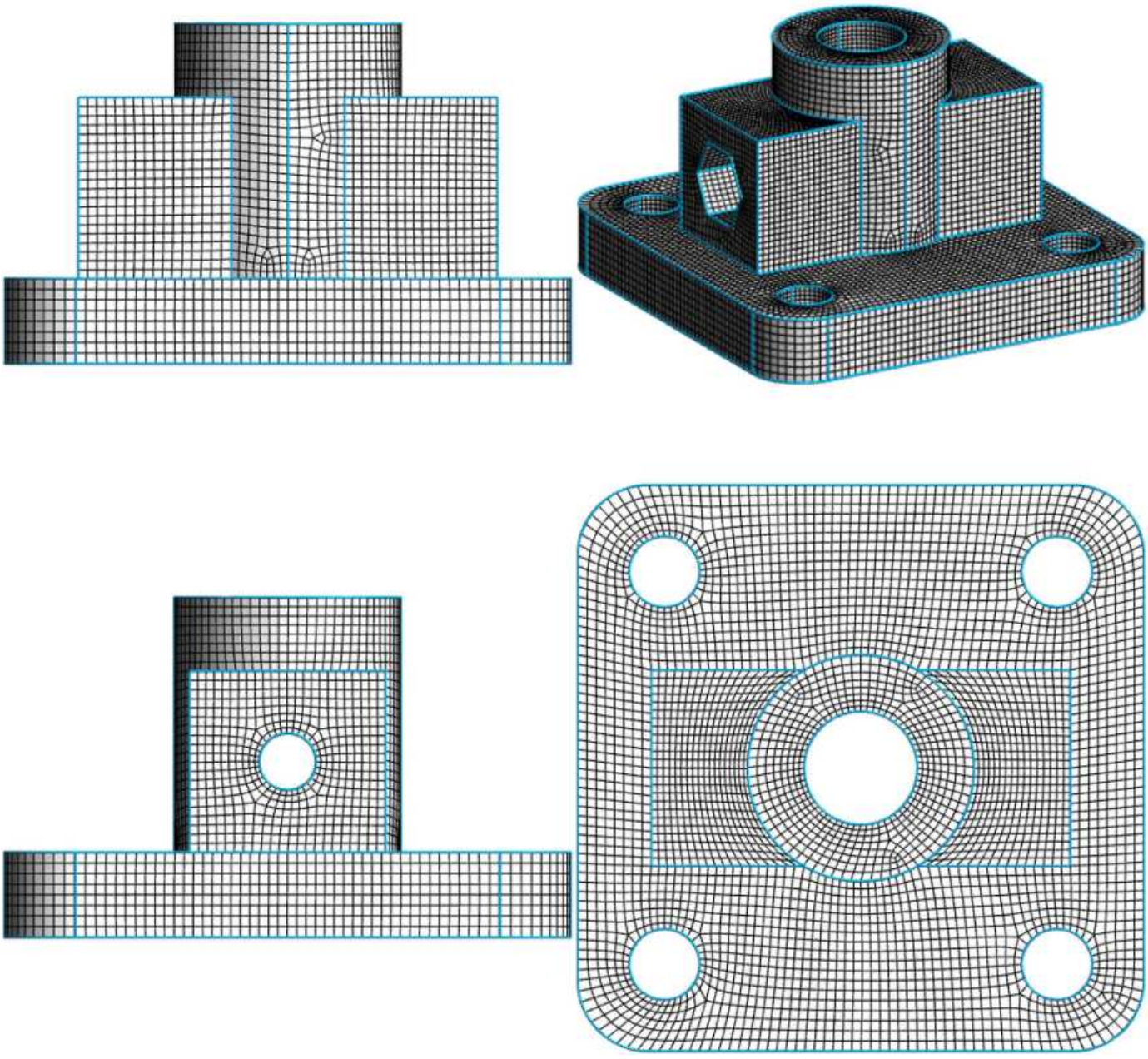


Model: S31 (from Mambo dataset)
CAD: 76 corners, 114 curves, 42 faces
Cross field: 52 singularities detected
Timings: 11.8944 sec to generate the unstructured mesh, 2.08266 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18518	20590	295	7
Quasi-structured	18730	20802	82	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.166588	0.582759	1.06448	0.388268	0.970445	0.992406
Quasi-structured	0.206309	0.578621	1.20169	0.45131	0.984012	0.995097

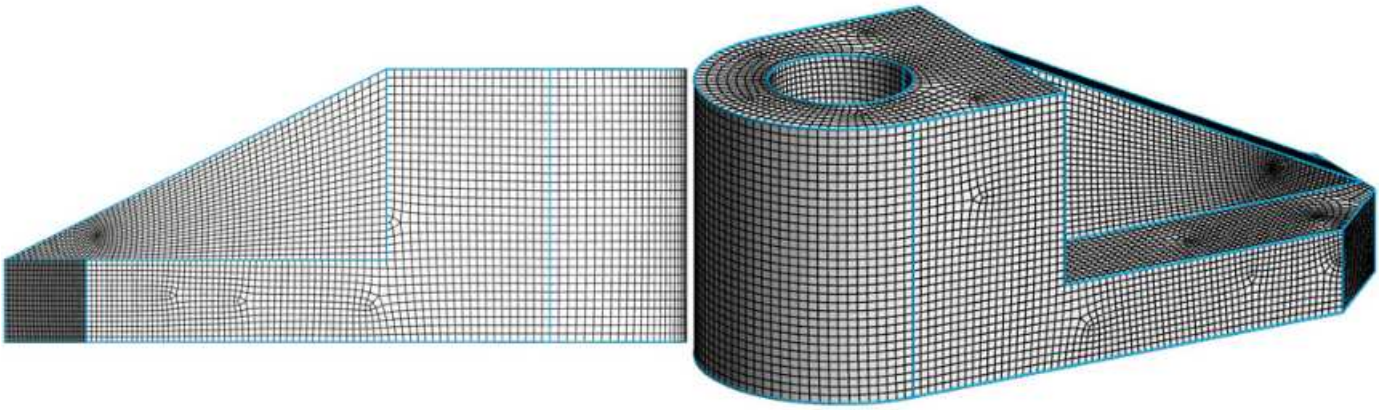


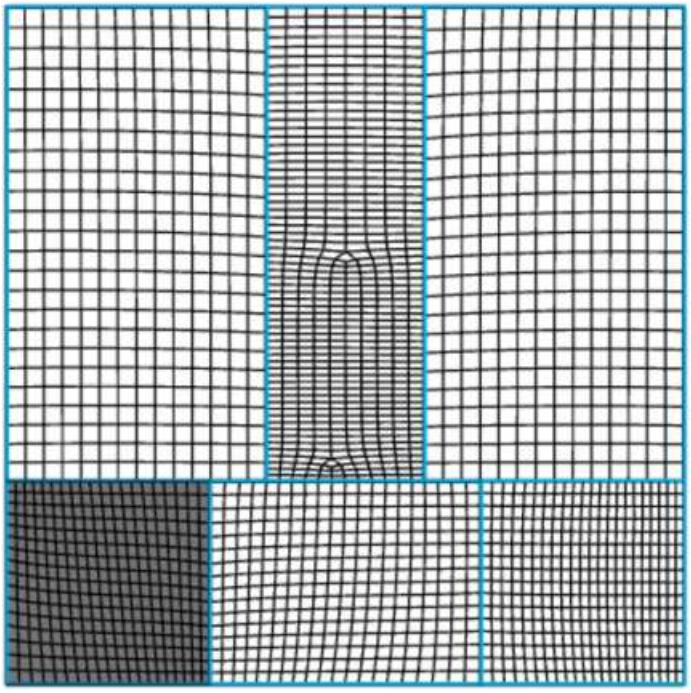
Model: S33 (from Mambo dataset)
CAD: 25 corners, 39 curves, 16 faces
Cross field: 12 singularities detected
Timings: 8.54995 sec to generate the unstructured mesh, 2.39259 sec to make it quasi-structured
Mesh topology:

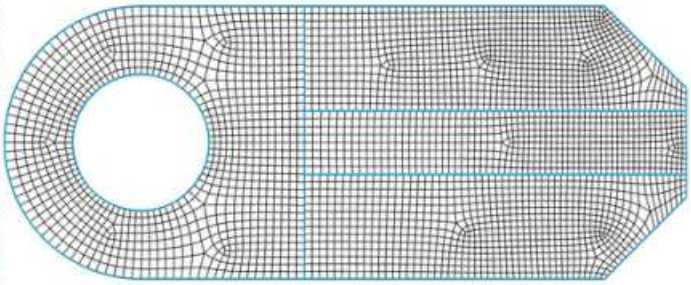
	# quads	# vertices	# irregular	# very irregular
Unstructured	17670	18851	248	50
Quasi-structured	18763	19944	75	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.206554	0.743309	1.48194	0.447162	0.980881	0.996083
Quasi-structured	0.113236	0.720286	1.9506	0.410467	0.969469	0.997081





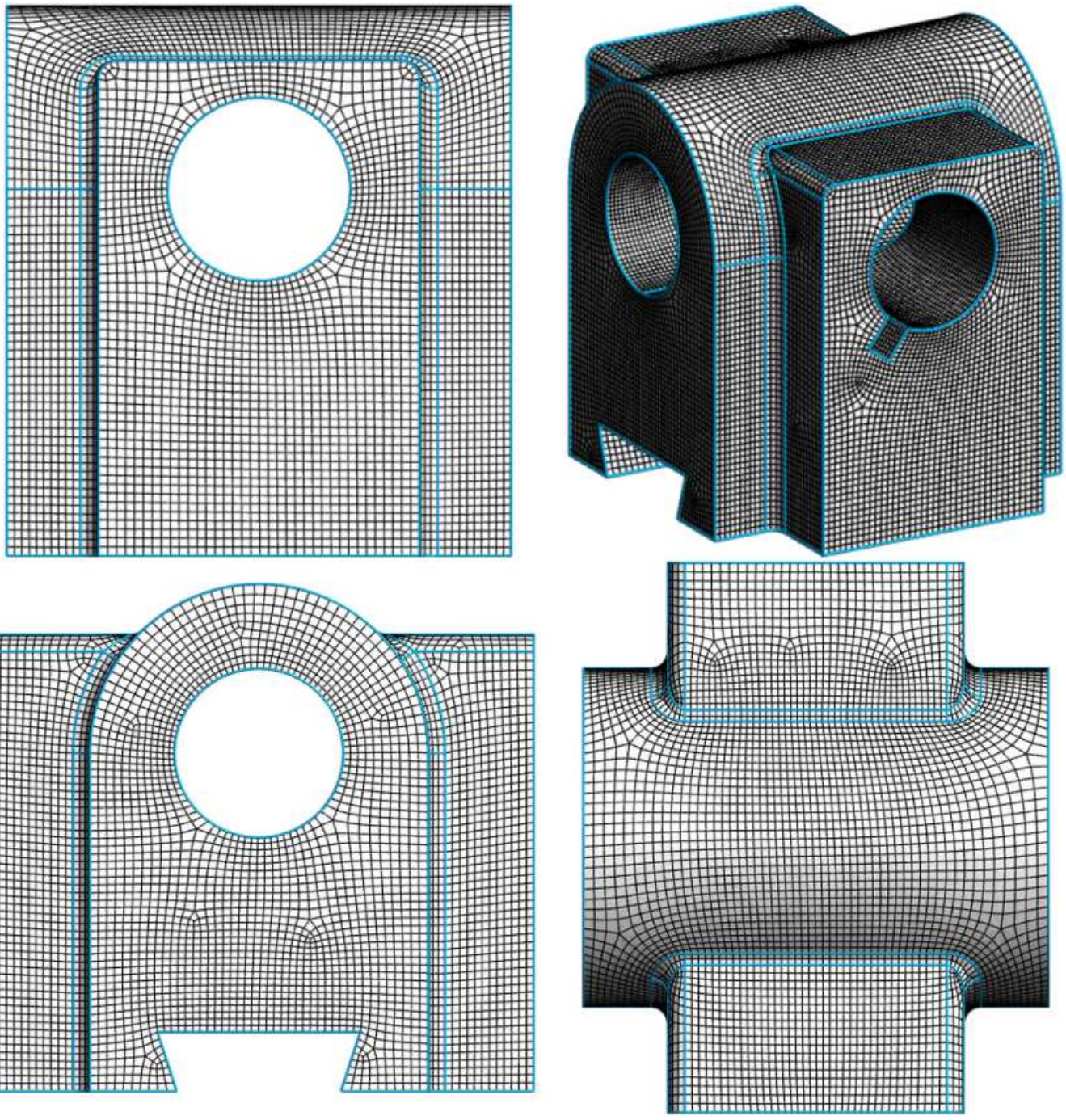


Model: S34 (from Mambo dataset)
CAD: 77 corners, 123 curves, 46 faces
Cross field: 33 singularities detected
Timings: 17.55 sec to generate the unstructured mesh, 4.93467 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31902	34562	523	148
Quasi-structured	32953	35613	118	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.190275	0.873677	1.9579	0.228982	0.972534	0.991911
Quasi-structured	0.273458	0.857488	2.62279	0.652642	0.985389	0.992702

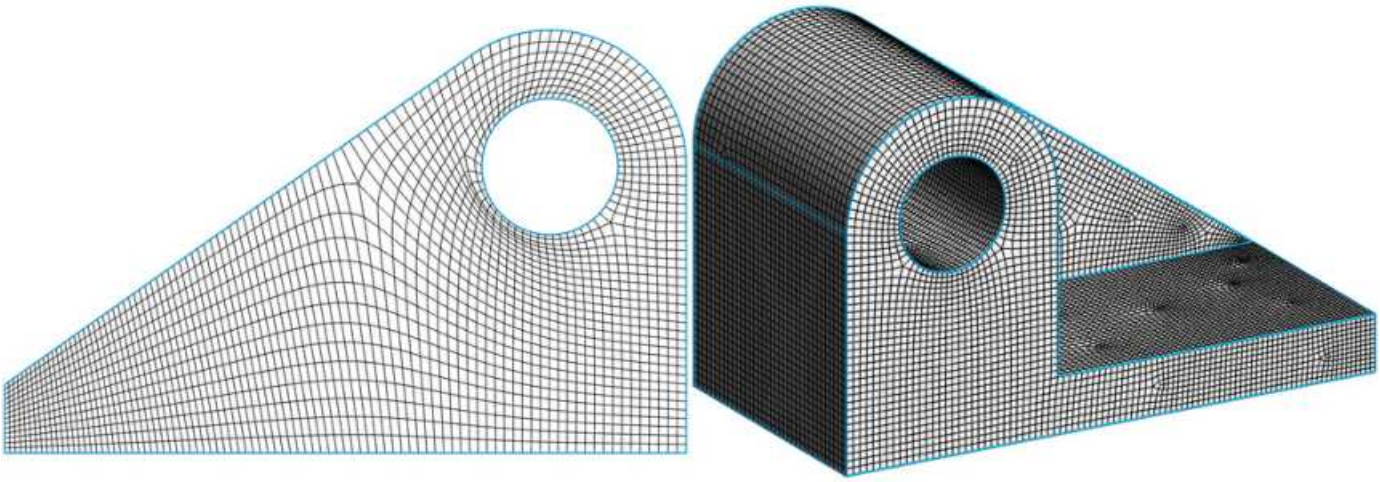


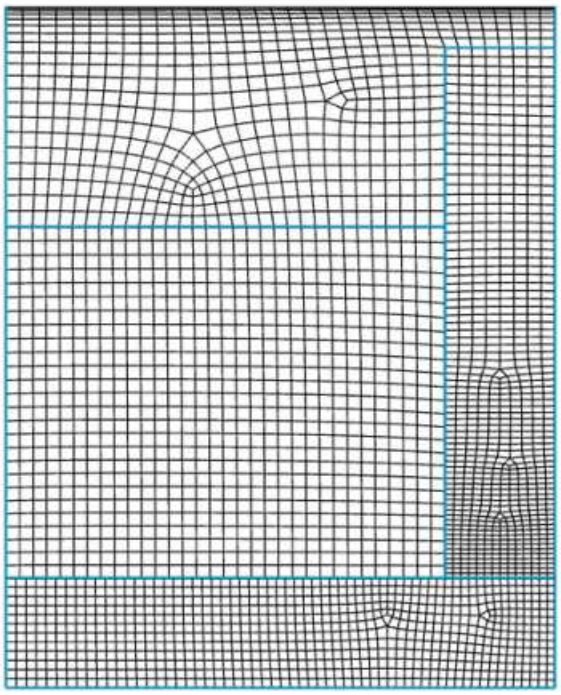
Model: S35 (from Mambo dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 7 singularities detected
Timings: 11.3059 sec to generate the unstructured mesh, 4.17461 sec to make it quasi-structured
Mesh topology:

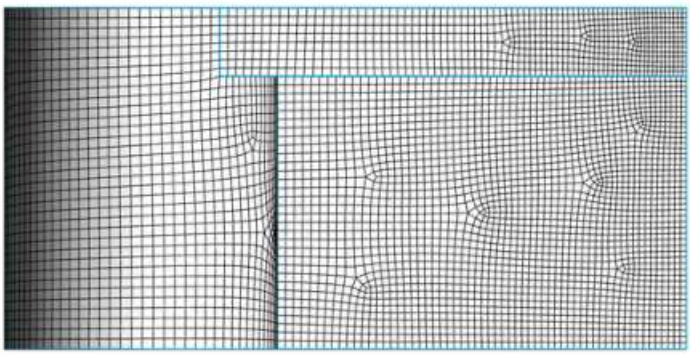
	# quads	# vertices	# irregular	# very irregular
Unstructured	20060	21138	227	49
Quasi-structured	19356	20434	88	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.169734	1.11987	2.38231	0.00368222	0.984781	0.997389
Quasi-structured	0.0472589	1.14094	5.95082	0.0306205	0.981003	0.998205





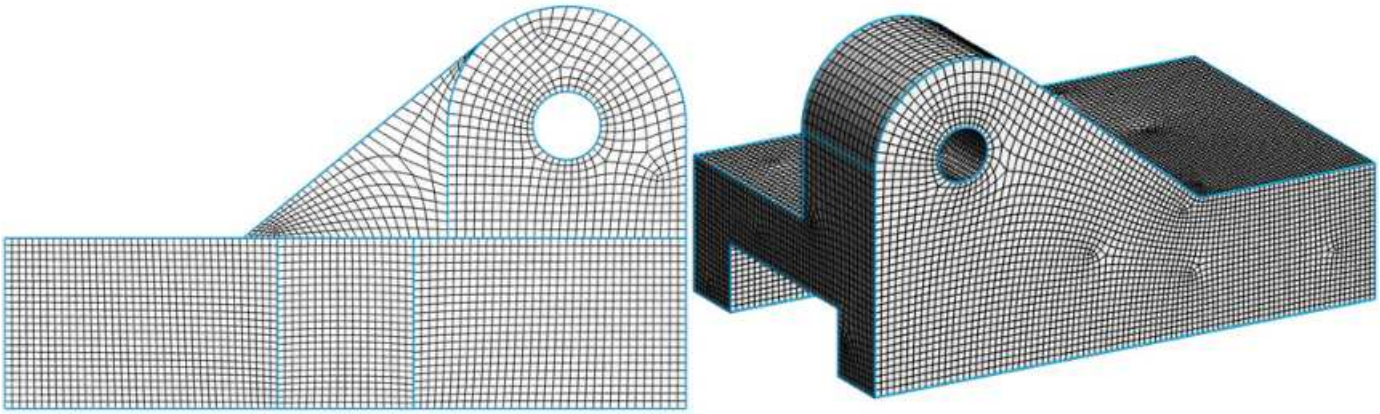


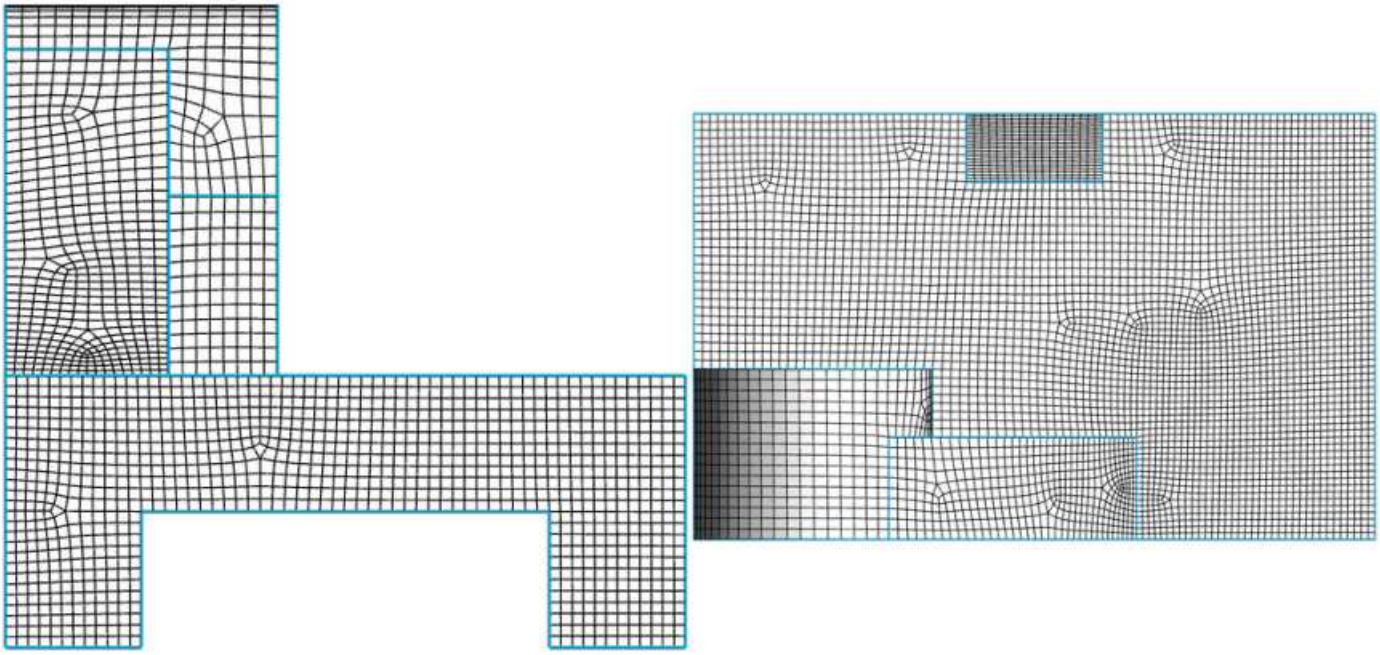
Model: S36 (from Mambo dataset)
CAD: 35 corners, 53 curves, 20 faces
Cross field: 9 singularities detected
Timings: 9.03152 sec to generate the unstructured mesh, 2.28778 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20518	22017	209	30
Quasi-structured	20806	22305	62	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.350895	2.26879	5.94714	0.00368513	0.984874	0.997808
Quasi-structured	0.202172	2.25122	10.8717	0.0414876	0.988256	0.998427



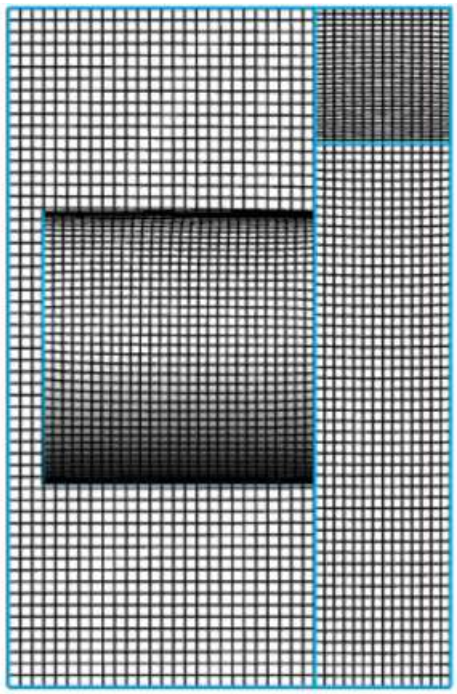


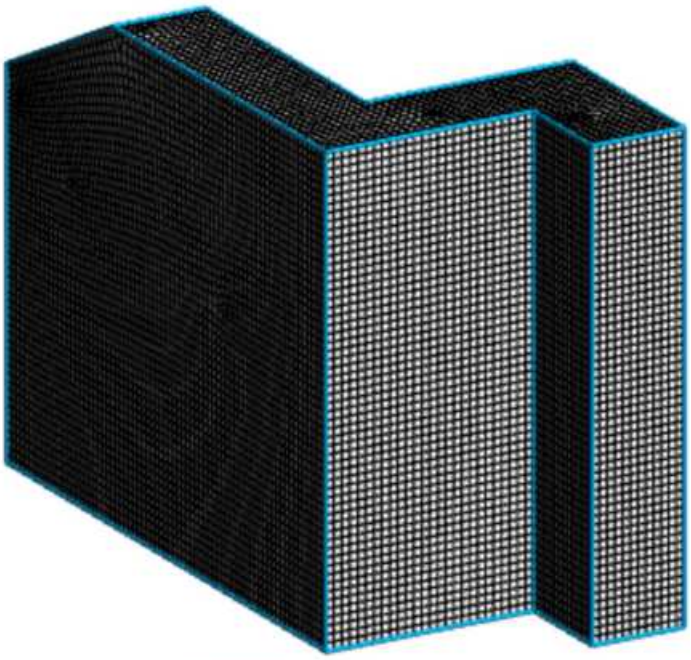
Model: S37 (from Mambo dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 8 singularities detected
Timings: 8.7466 sec to generate the unstructured mesh, 1.51089 sec to make it quasi-structured
Mesh topology:

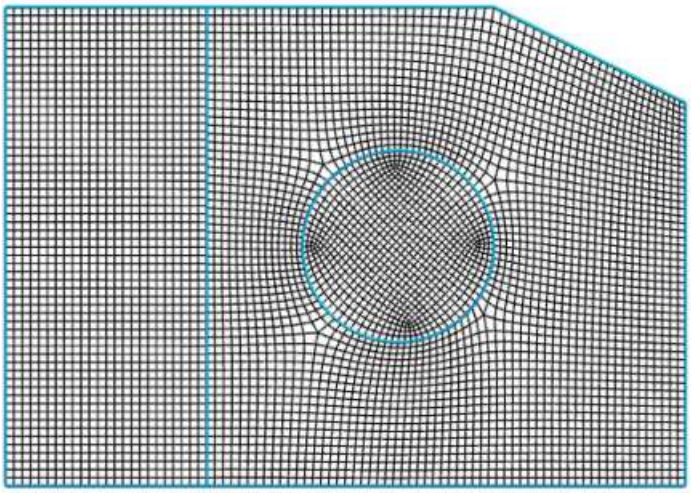
	# quads	# vertices	# irregular	# very irregular
Unstructured	19510	20659	108	28
Quasi-structured	19604	20753	28	0

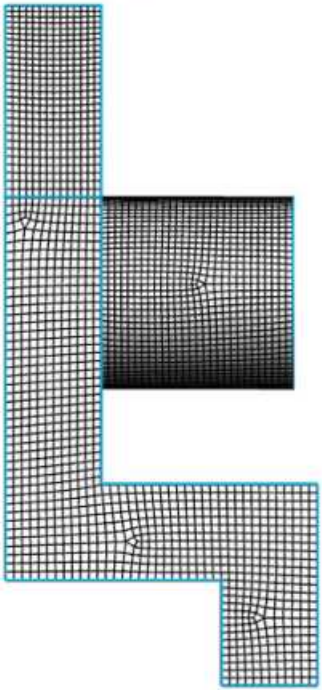
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.267821	0.82095	1.44469	0.497626	0.989557	0.999476
Quasi-structured	0.283784	0.818031	1.7089	0.690065	0.996487	0.999451







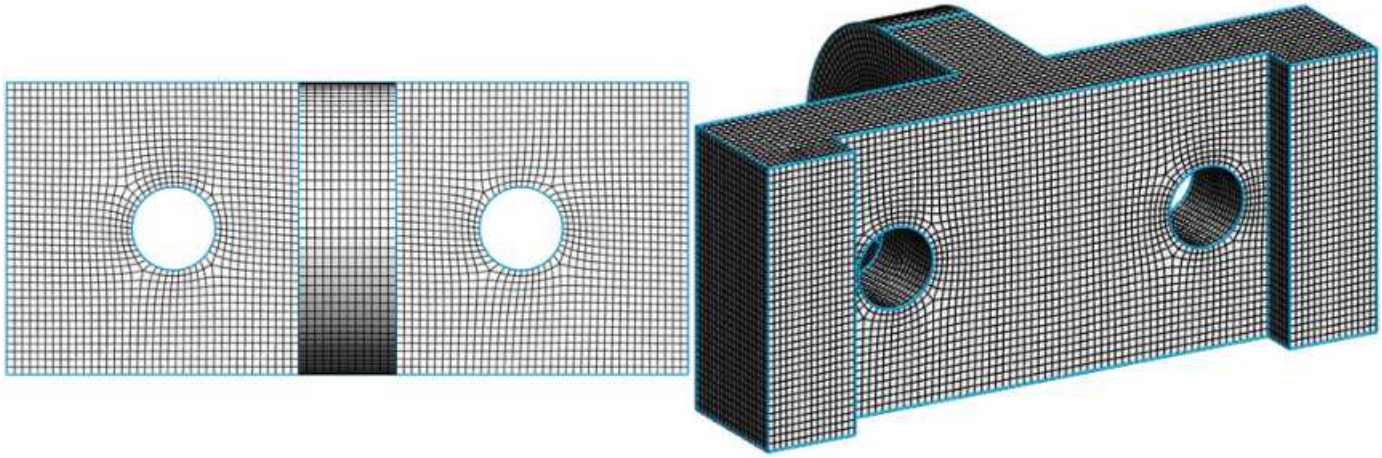


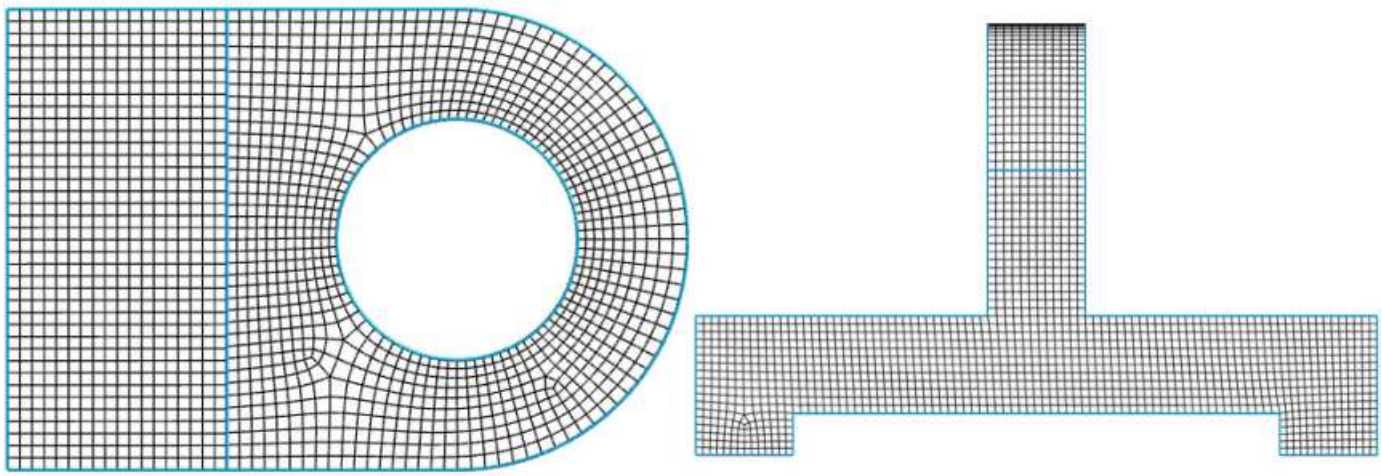
Model: S38 (from Mambo dataset)
CAD: 33 corners, 48 curves, 17 faces
Cross field: 20 singularities detected
Timings: 8.13575 sec to generate the unstructured mesh, 1.30116 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15878	17222	164	50
Quasi-structured	16392	17736	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.406526	1.07132	2.1337	0.54046	0.984165	0.995852
Quasi-structured	0.53975	1.05266	1.83039	0.764615	0.992193	0.997035



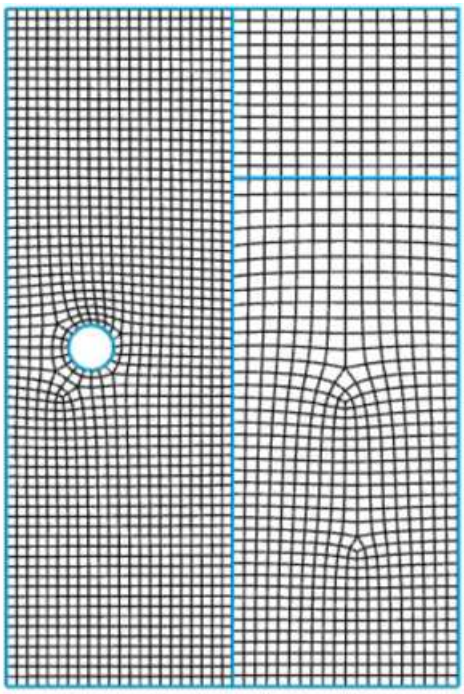


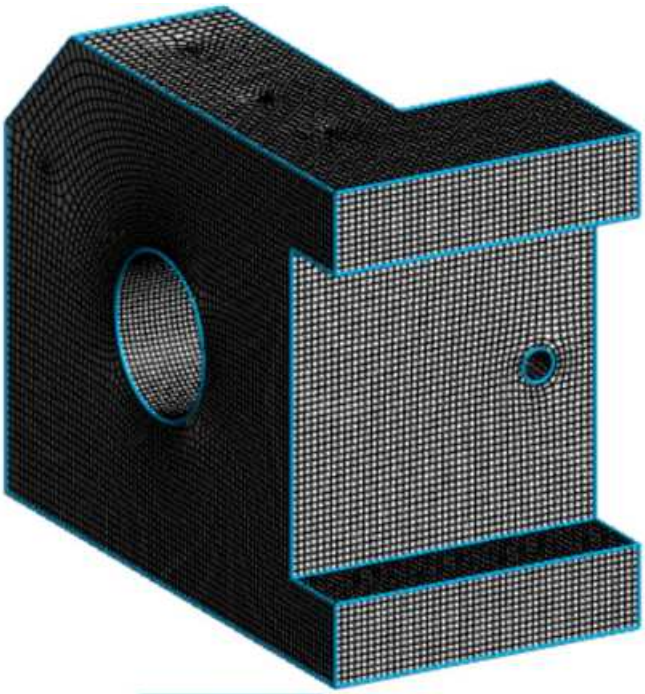
Model: S39 (from Mambo dataset)
CAD: 28 corners, 41 curves, 15 faces
Cross field: 16 singularities detected
Timings: 12.2522 sec to generate the unstructured mesh, 1.69599 sec to make it quasi-structured
Mesh topology:

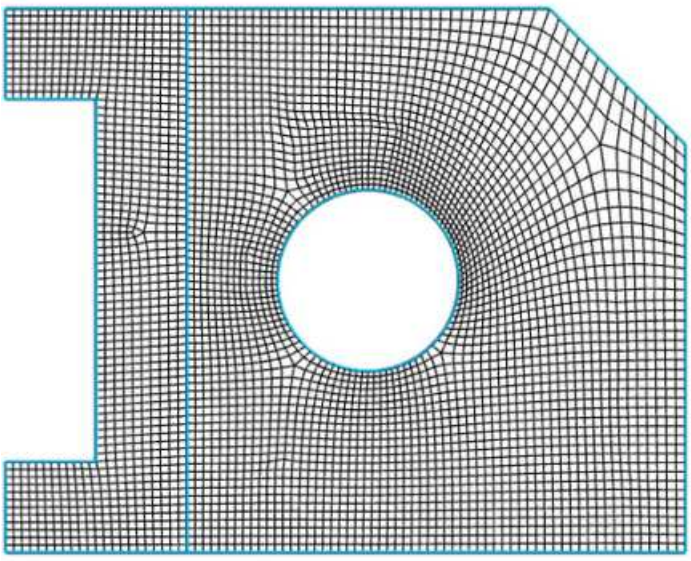
	# quads	# vertices	# irregular	# very irregular
Unstructured	21796	23105	160	48
Quasi-structured	21882	23191	41	0

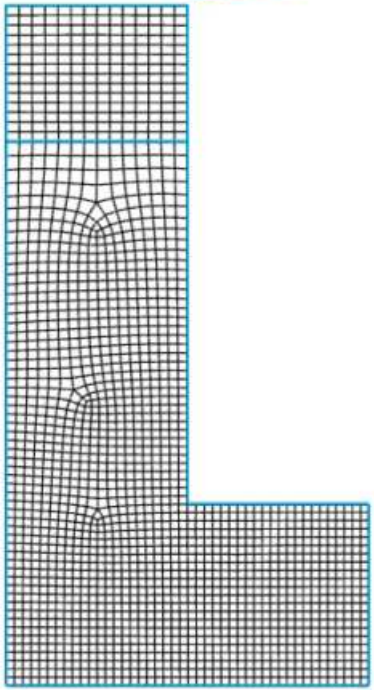
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.298664	0.897033	2.026	0.542628	0.986781	0.998609
Quasi-structured	0.384359	0.894667	2.92916	0.635676	0.992652	0.998387







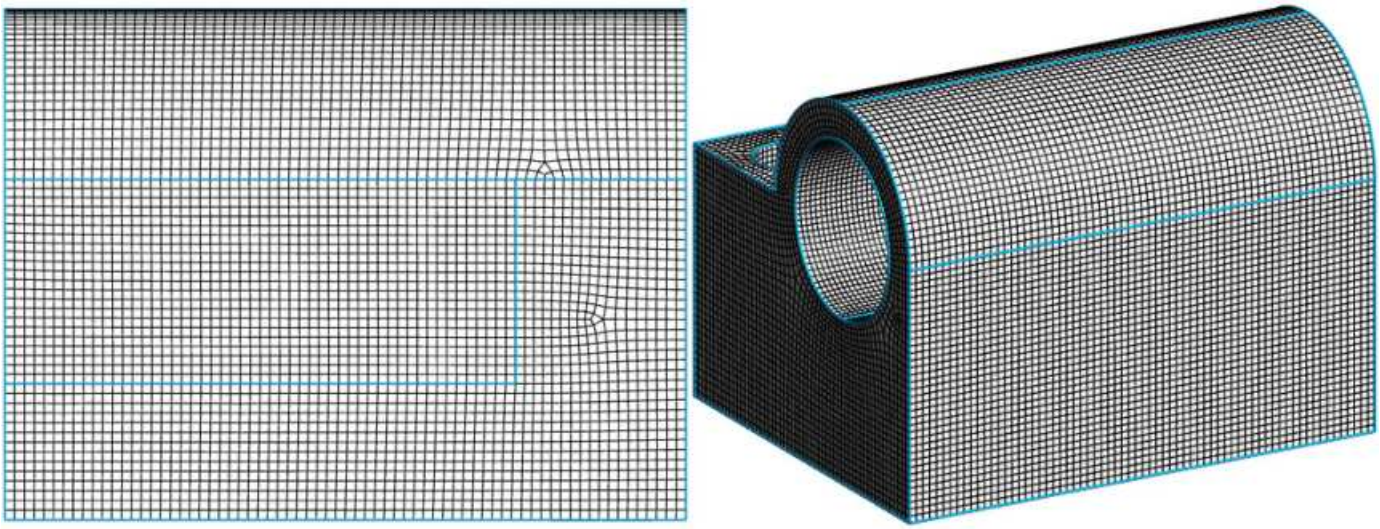


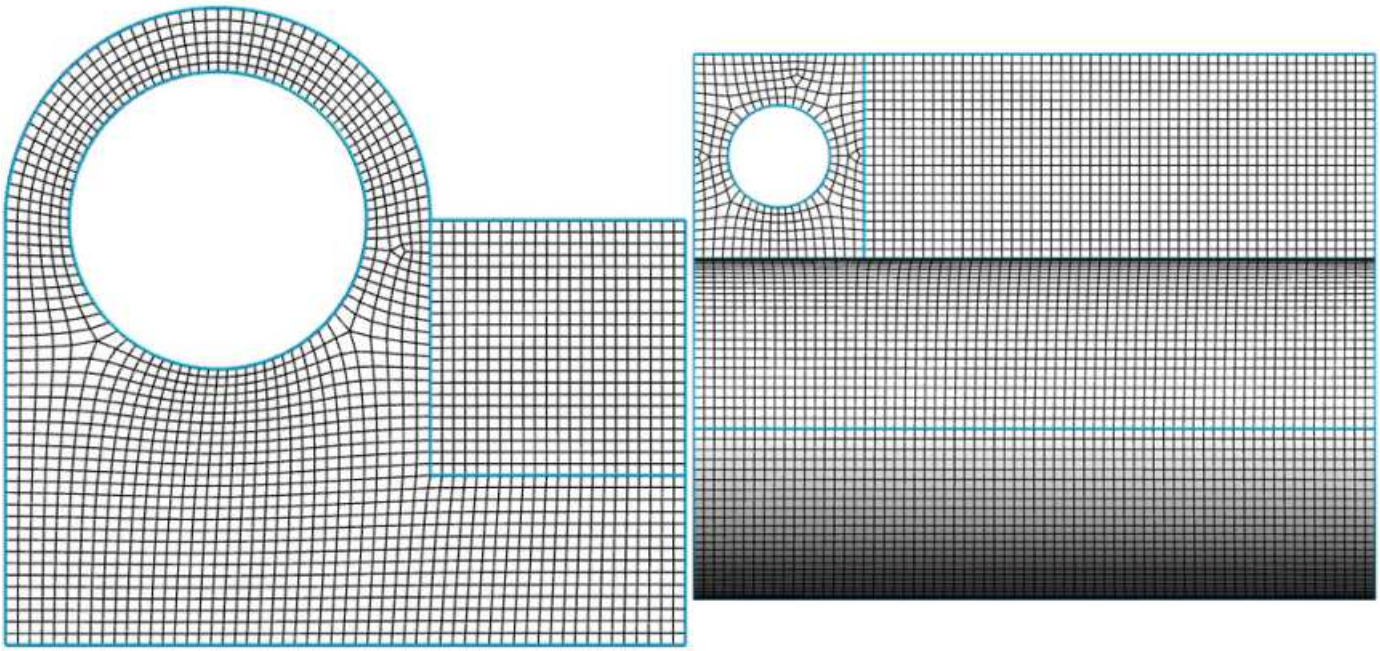
Model: S3 (from Mambo dataset)
CAD: 25 corners, 38 curves, 15 faces
Cross field: 12 singularities detected
Timings: 14.3007 sec to generate the unstructured mesh, 1.77248 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28336	29847	100	0
Quasi-structured	28356	29867	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0503634	0.131926	0.227126	0.479486	0.993585	0.999464
Quasi-structured	0.0658119	0.131788	0.305353	0.735702	0.99743	0.999013



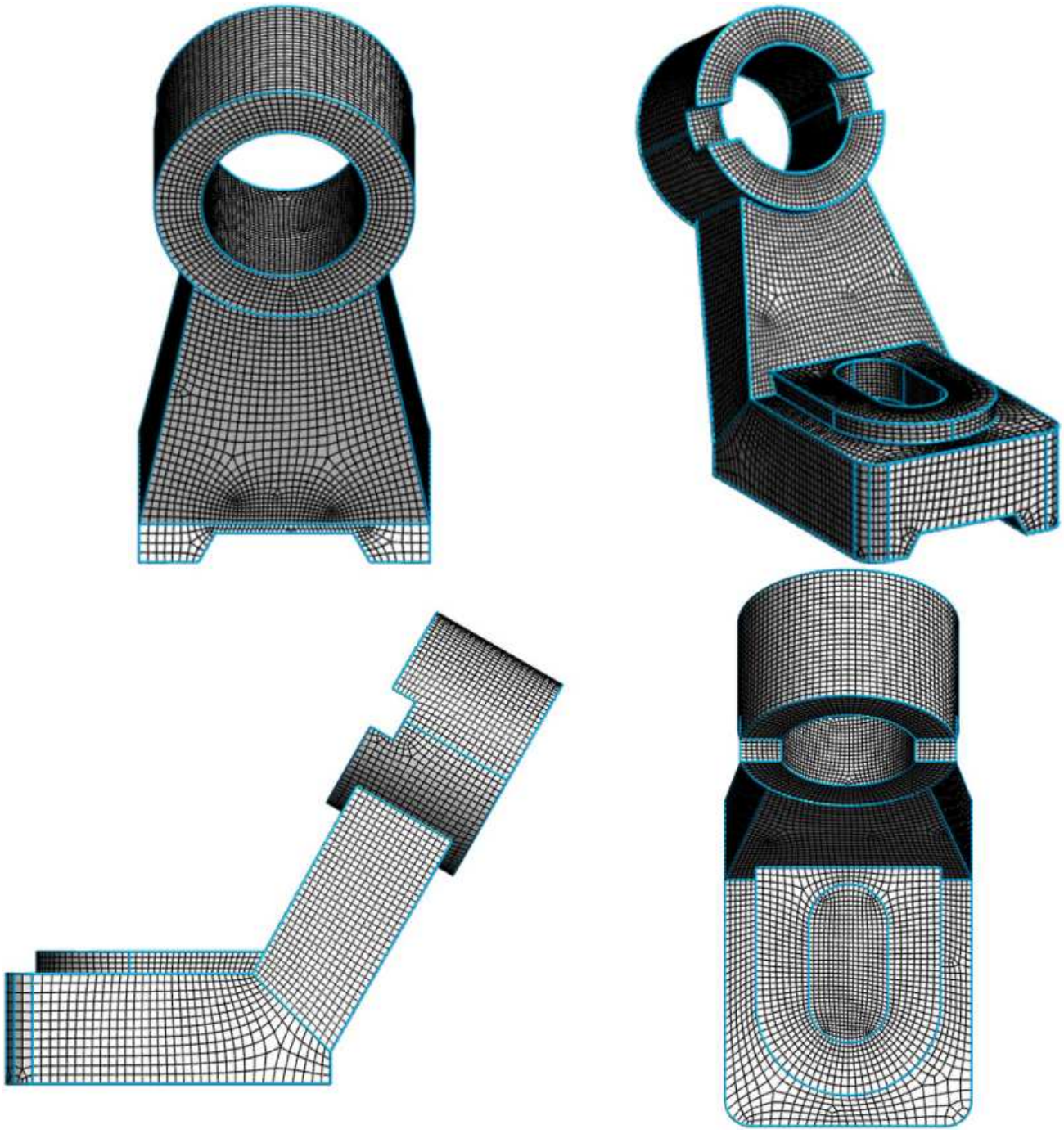


Model: S40 (from Mambo dataset)
CAD: 77 corners, 117 curves, 43 faces
Cross field: 14 singularities detected
Timings: 7.52483 sec to generate the unstructured mesh, 1.89287 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15286	17224	308	9
Quasi-structured	15978	17916	84	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.345083	1.38152	3.12542	0.19305	0.96217	0.990923
Quasi-structured	0.362897	1.35377	4.92746	0.544077	0.97093	0.988903

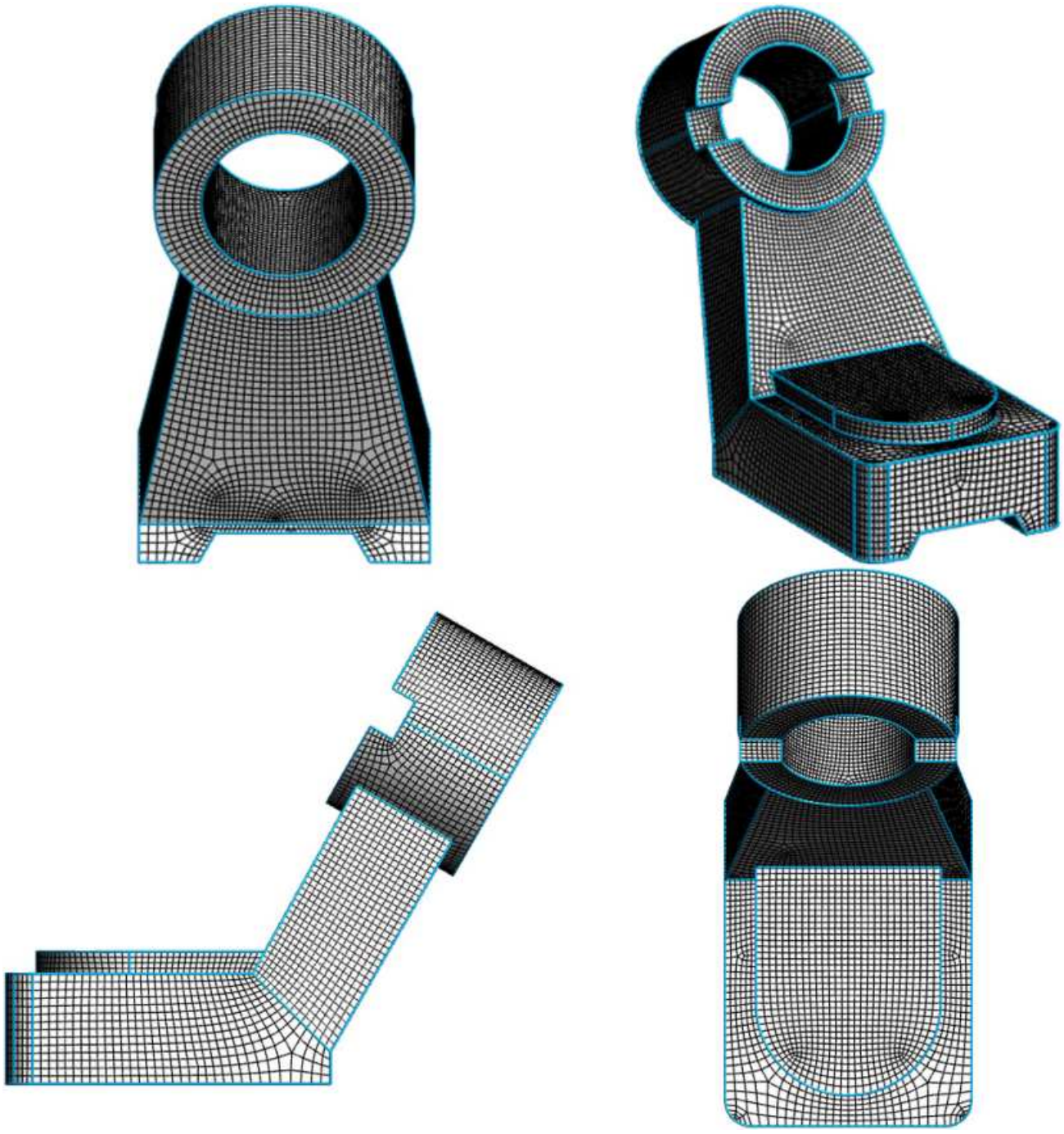


Model: S41 (from Mambo dataset)
CAD: 65 corners, 99 curves, 36 faces
Cross field: 10 singularities detected
Timings: 7.32752 sec to generate the unstructured mesh, 2.7223 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14572	16310	262	7
Quasi-structured	15240	16978	70	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.316571	1.40386	3.08285	0.191531	0.96442	0.992141
Quasi-structured	0.373678	1.3751	3.9721	0.595343	0.97374	0.992484

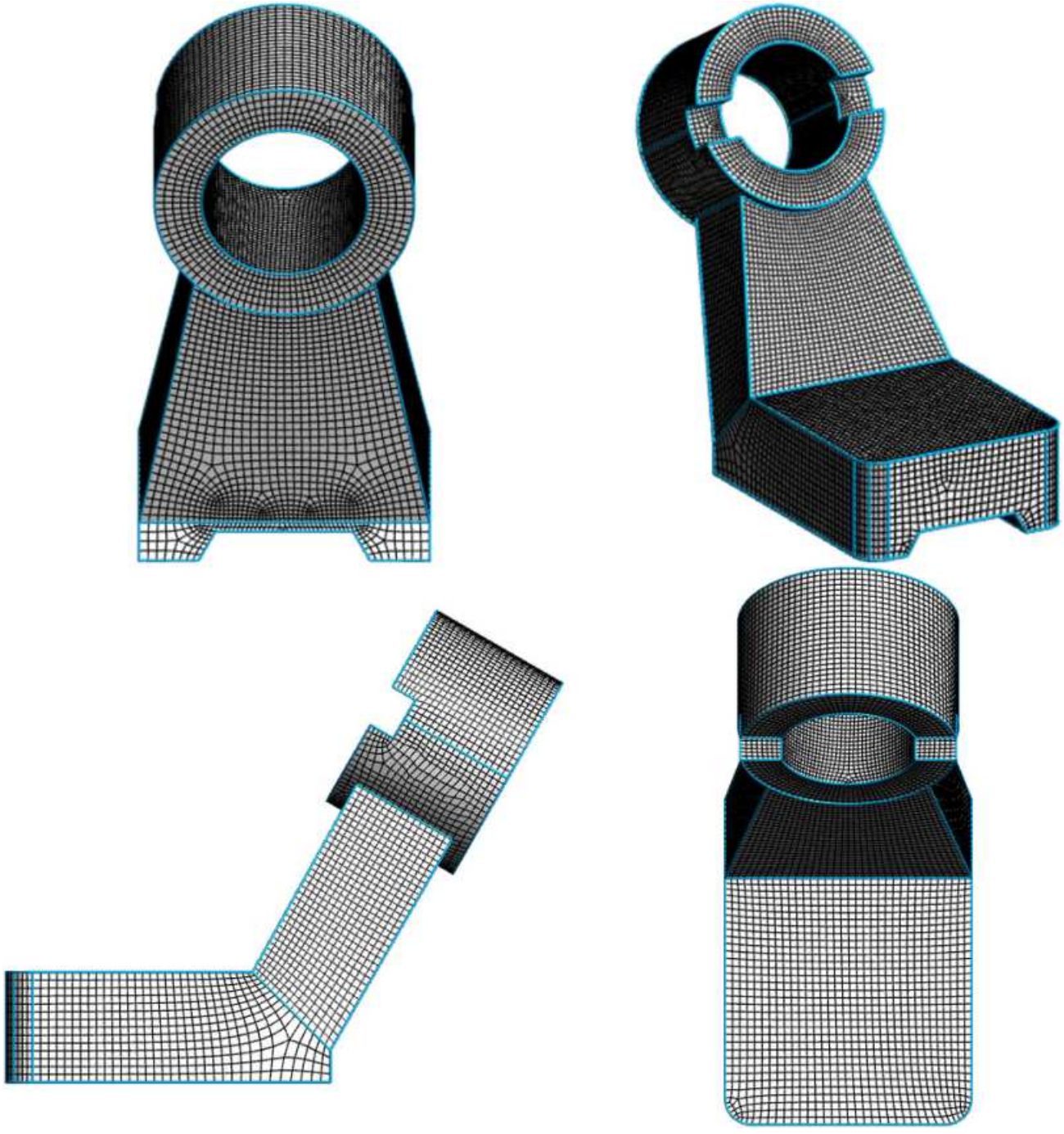


Model: S42 (from Mambo dataset)
CAD: 55 corners, 84 curves, 31 faces
Cross field: 6 singularities detected
Timings: 7.29242 sec to generate the unstructured mesh, 1.50385 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14294	15833	209	3
Quasi-structured	14678	16217	54	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.278931	1.40431	2.95895	0.194947	0.966333	0.993137
Quasi-structured	0.28427	1.38857	5.10426	0.328689	0.972442	0.994171

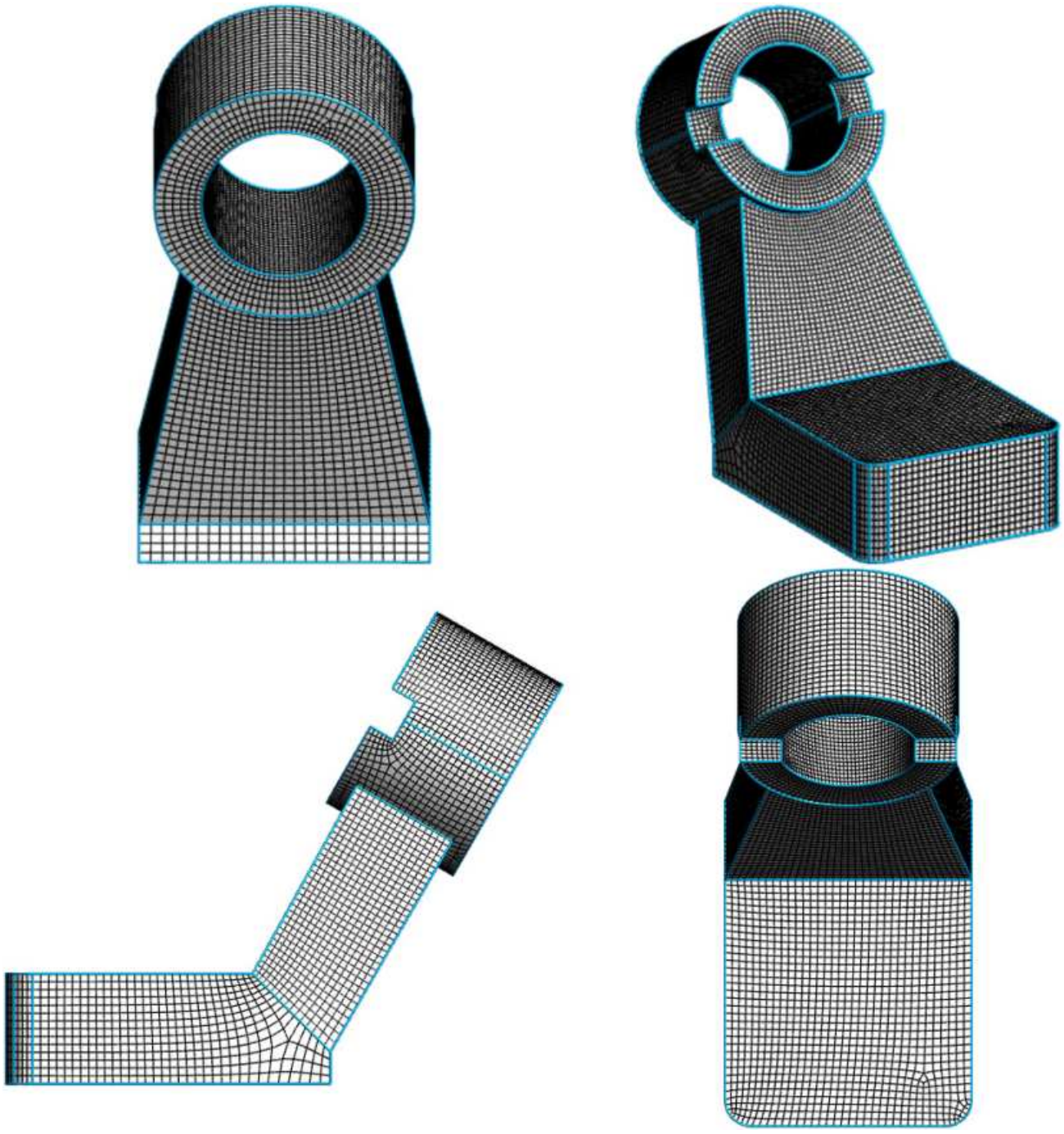


Model: S43 (from Mambo dataset)
CAD: 47 corners, 72 curves, 27 faces
Cross field: 6 singularities detected
Timings: 7.03134 sec to generate the unstructured mesh, 1.32353 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13472	14769	134	0
Quasi-structured	13632	14929	52	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.460699	1.43957	2.82897	0.19493	0.973966	0.994032
Quasi-structured	0.457593	1.42582	5.20483	0.372859	0.98458	0.995256

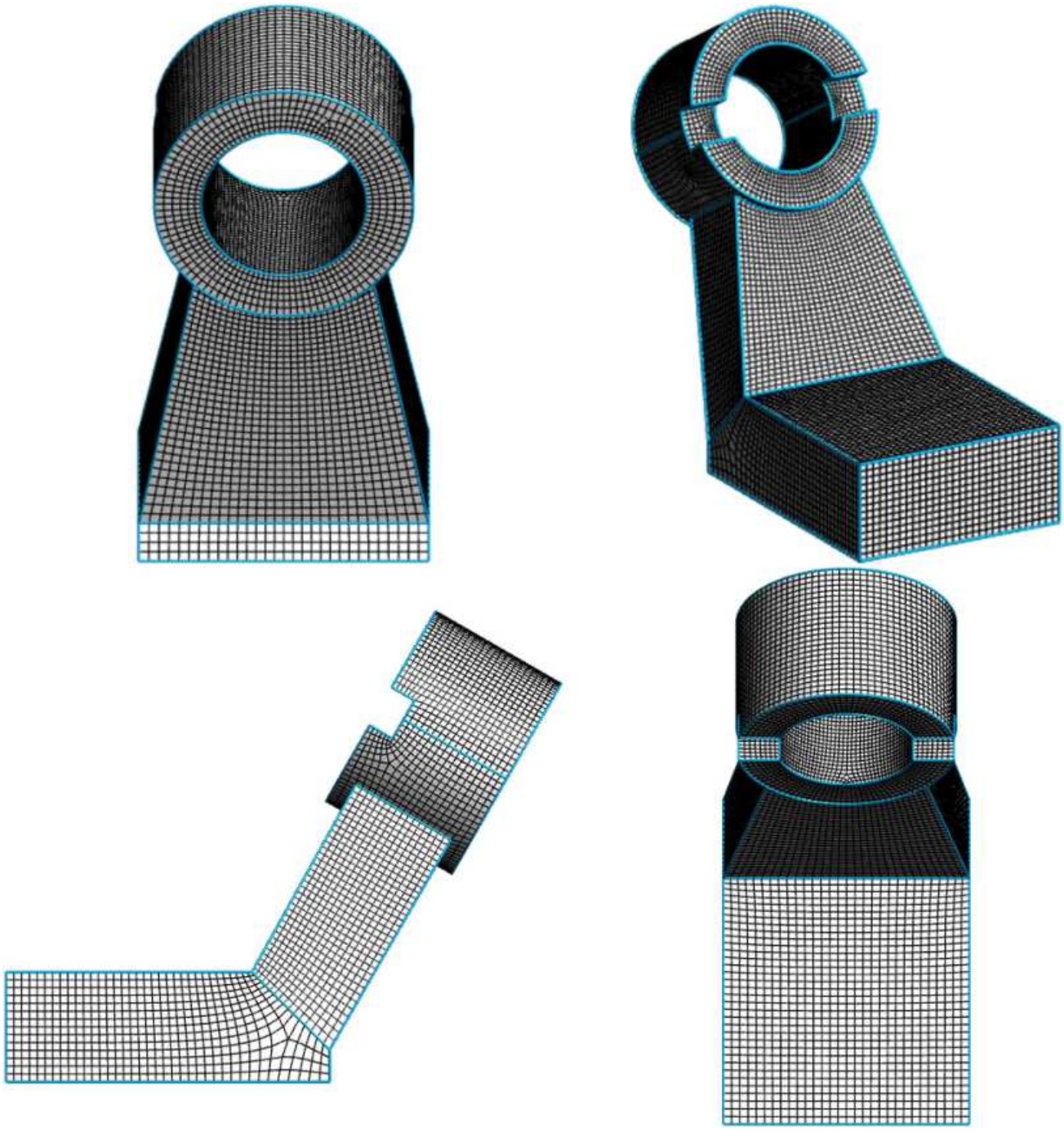


Model: S44 (from Mambo dataset)
CAD: 39 corners, 60 curves, 23 faces
Cross field: 2 singularities detected
Timings: 7.02777 sec to generate the unstructured mesh, 1.01622 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13460	14693	92	0
Quasi-structured	13516	14749	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.401343	1.44468	2.86519	0.218905	0.977826	0.996001
Quasi-structured	0.387381	1.43695	5.16265	0.595153	0.987223	0.995913

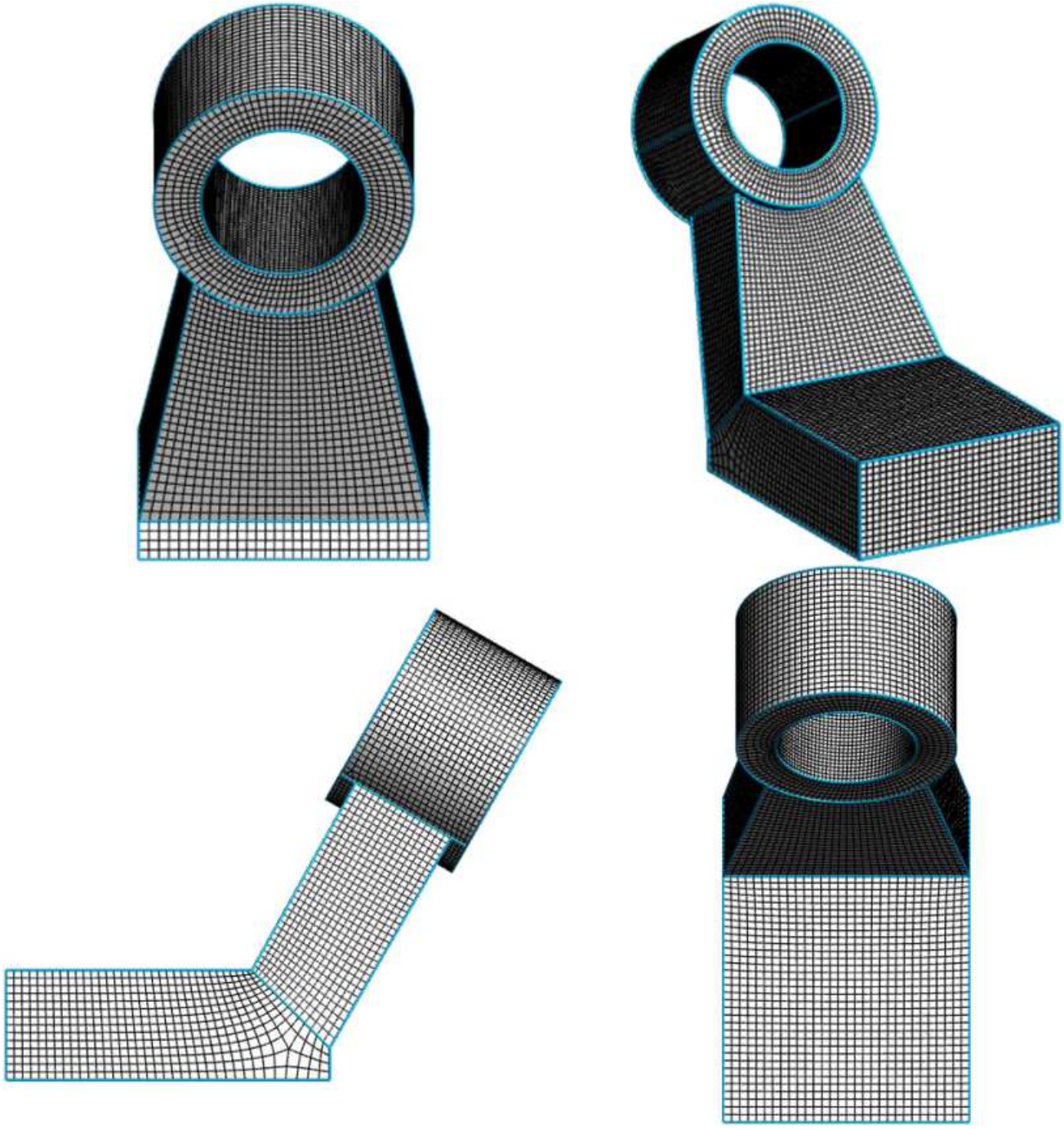


Model: S45 (from Mambo dataset)
CAD: 31 corners, 45 curves, 16 faces
Cross field: 2 singularities detected
Timings: 7.11722 sec to generate the unstructured mesh, 1.91727 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13152	14256	79	0
Quasi-structured	13184	14288	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.383788	1.457	2.77885	0.423982	0.978928	0.996836
Quasi-structured	0.529498	1.45203	3.95286	0.617574	0.987725	0.997887

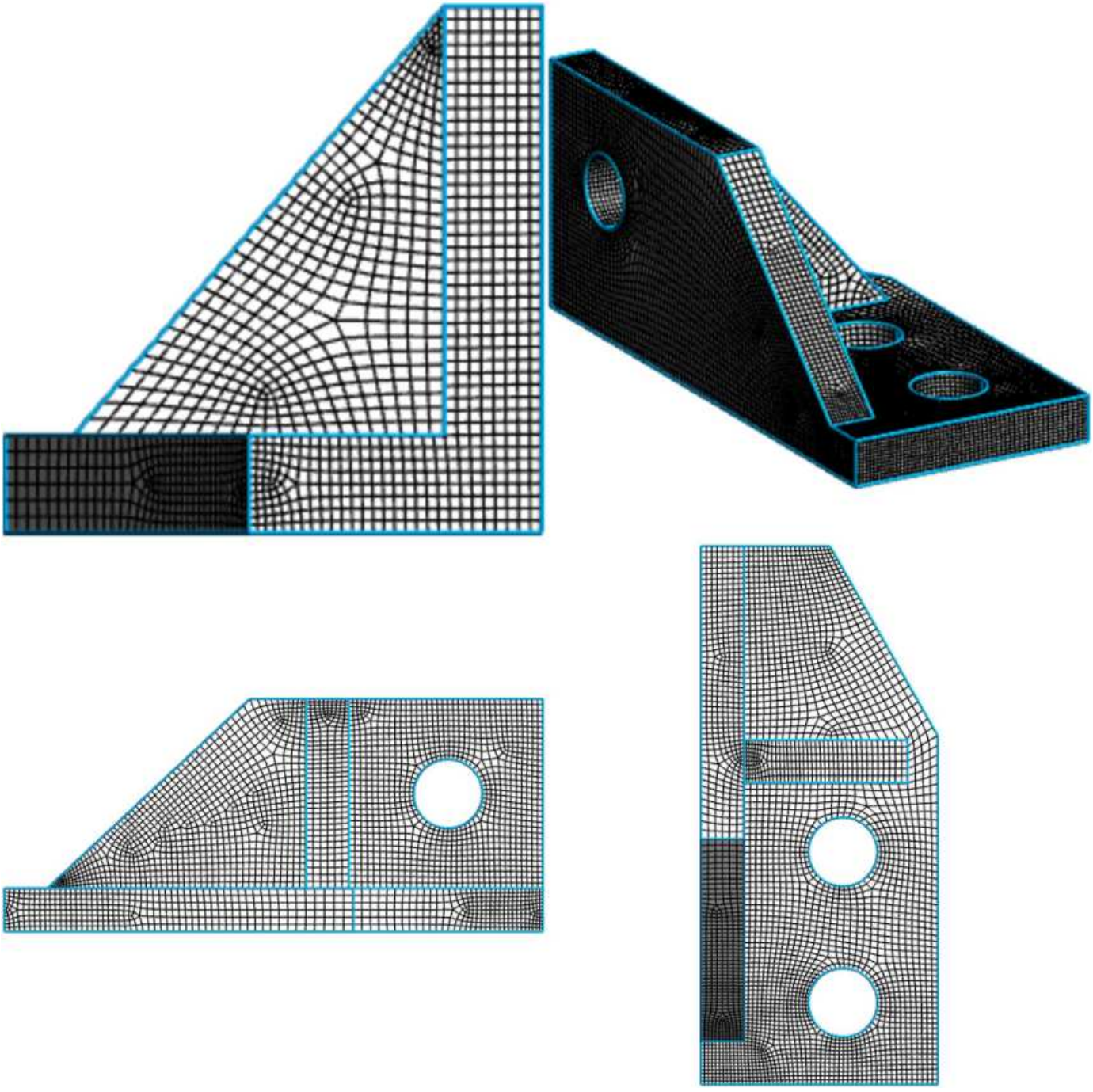


Model: S4 (from Mambo dataset)
CAD: 31 corners, 46 curves, 17 faces
Cross field: 24 singularities detected
Timings: 7.84545 sec to generate the unstructured mesh, 2.56103 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16068	17440	387	33
Quasi-structured	15912	17284	109	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.343996	1.26503	3.50301	0.438381	0.970344	0.992501
Quasi-structured	0.298231	1.27023	4.60474	0.442104	0.977037	0.993377

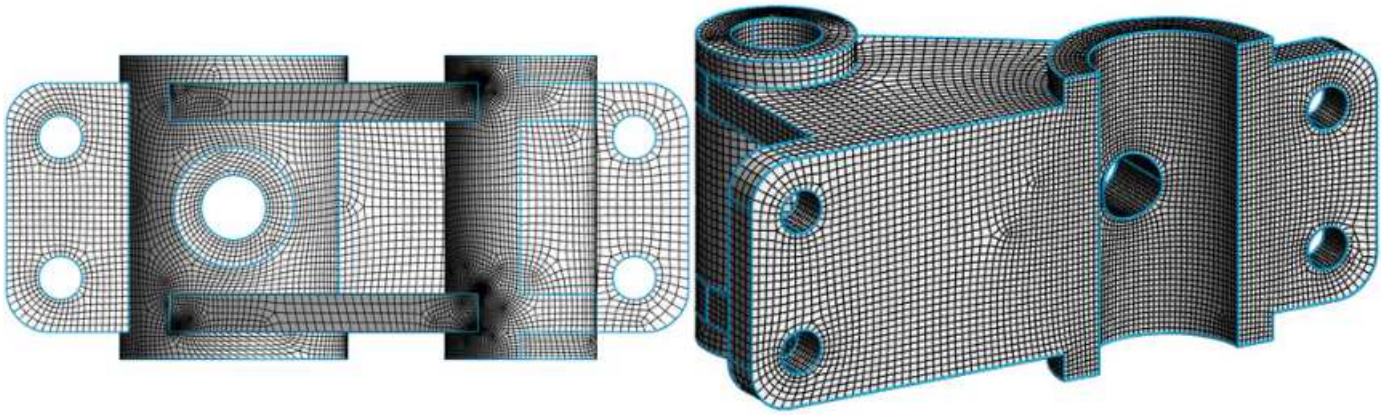


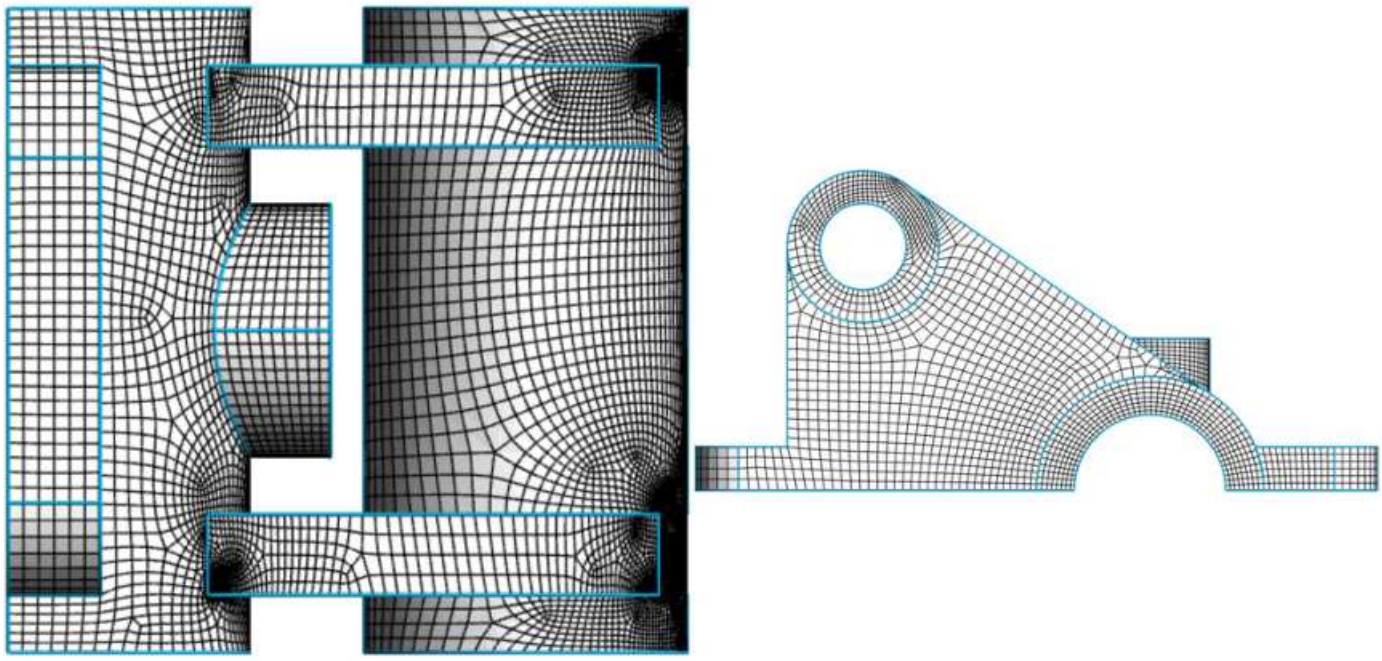
Model: S5 (from Mambo dataset)
CAD: 101 corners, 147 curves, 45 faces
Cross field: 60 singularities detected
Timings: 14.4453 sec to generate the unstructured mesh, 18.877 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25604	28410	1024	43
Quasi-structured	26641	29447	327	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000635827	1.06393	3.18654	0.000130896	0.939242	0.986211
Quasi-structured	0.000600593	1.05177	4.26377	0.00228691	0.952388	0.986812



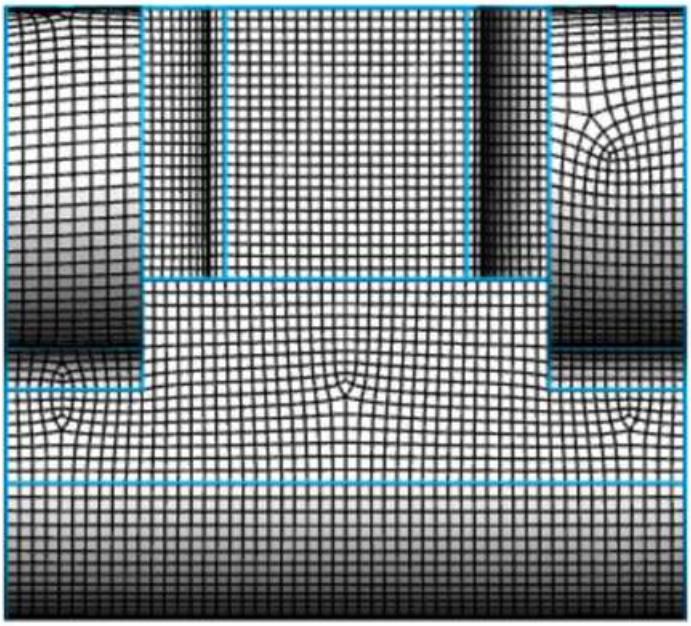


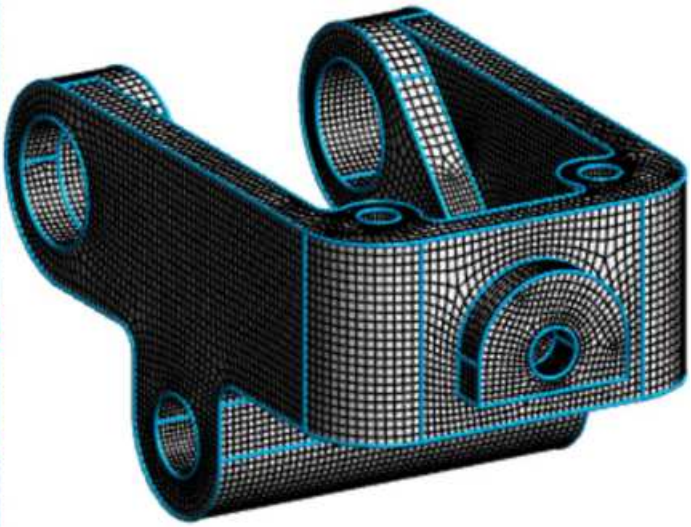
Model: S6 (from Mambo dataset)
CAD: 99 corners, 146 curves, 51 faces
Cross field: 54 singularities detected
Timings: 13.1758 sec to generate the unstructured mesh, 3.3217 sec to make it quasi-structured
Mesh topology:

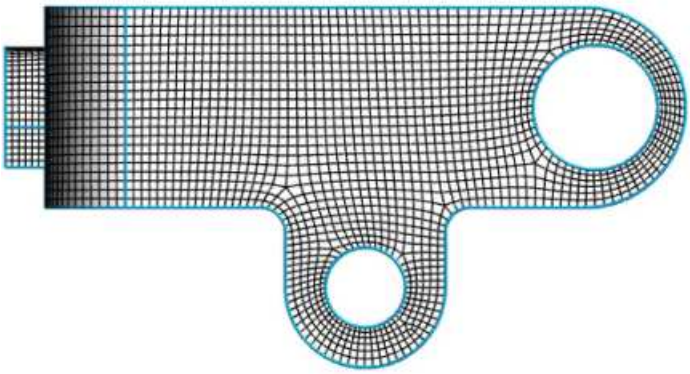
	# quads	# vertices	# irregular	# very irregular
Unstructured	26234	29063	464	8
Quasi-structured	26916	29745	132	0

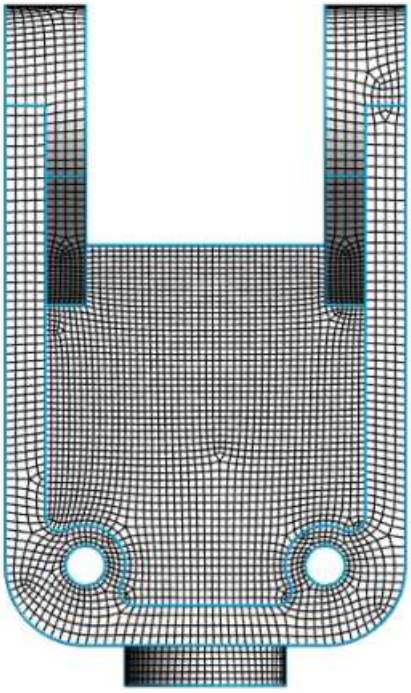
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.185731	1.3789	3.20751	0.00208889	0.975834	0.995582
Quasi-structured	0.0481891	1.3647	3.88718	0.0456965	0.980775	0.995839







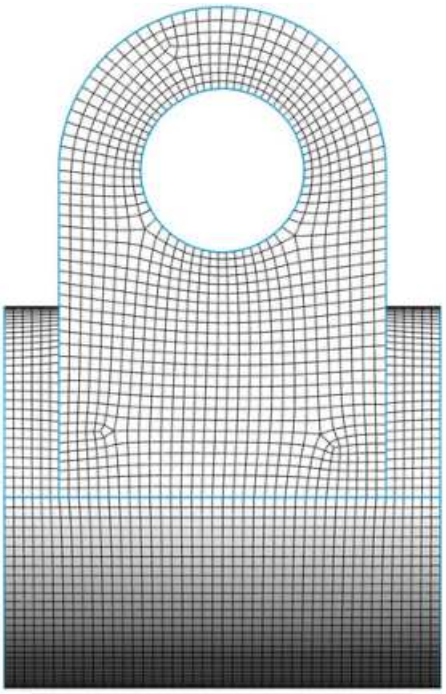


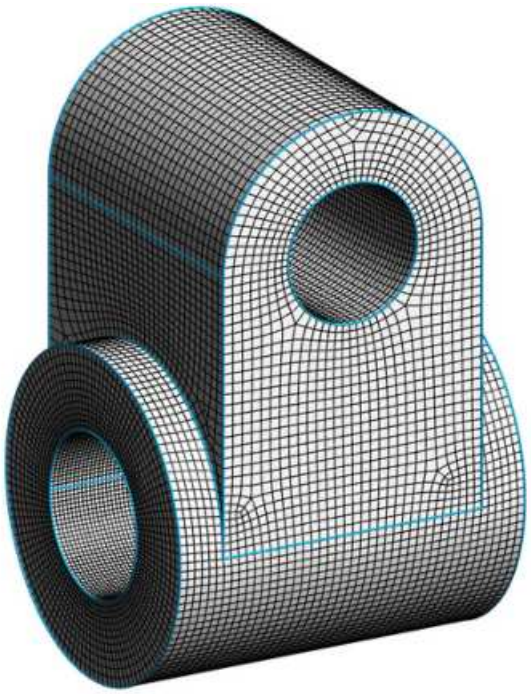
Model: S7 (from Mambo dataset)
CAD: 15 corners, 23 curves, 10 faces
Cross field: 12 singularities detected
Timings: 12.9697 sec to generate the unstructured mesh, 5.65444 sec to make it quasi-structured
Mesh topology:

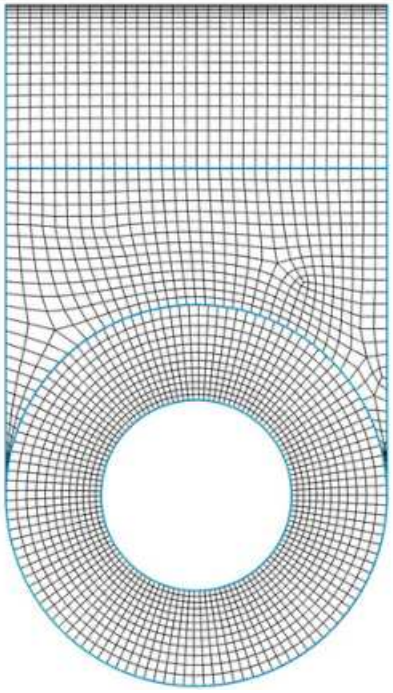
	# quads	# vertices	# irregular	# very irregular
Unstructured	23646	24694	208	142
Quasi-structured	24058	25106	54	0

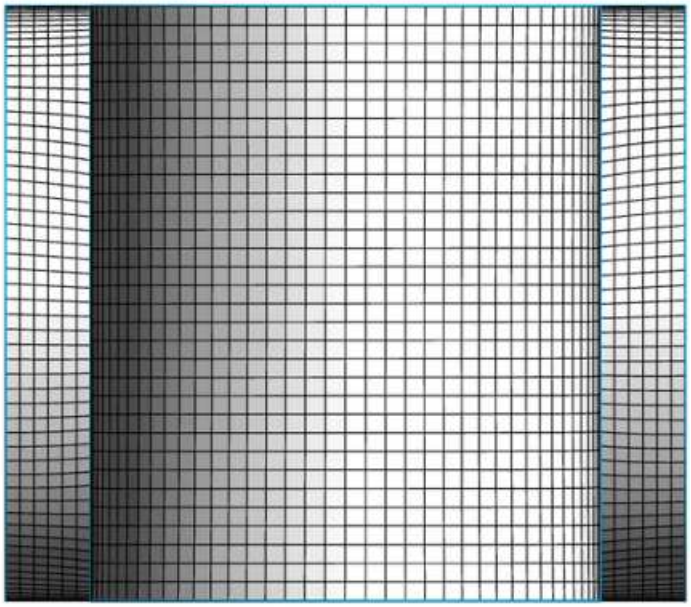
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.140435	1.40547	3.73637	0.0497814	0.982627	0.998711
Quasi-structured	0.0811367	1.39301	6.23154	0.0497814	0.992857	0.999565







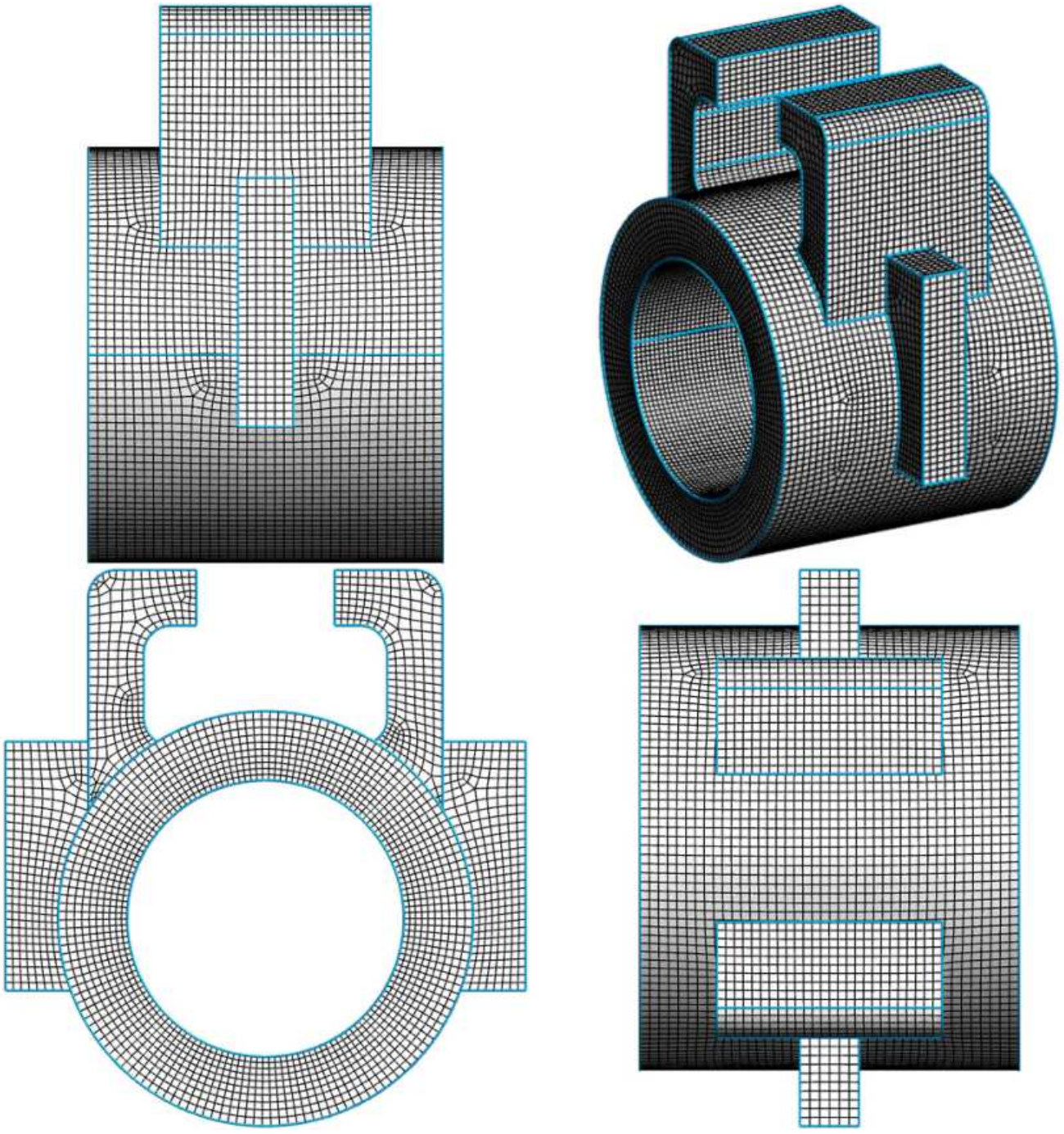


Model: S8 (from Mambo dataset)
CAD: 63 corners, 94 curves, 34 faces
Cross field: 12 singularities detected
Timings: 14.4589 sec to generate the unstructured mesh, 2.74847 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23472	25270	168	97
Quasi-structured	23631	25429	74	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.501879	1.30126	3.20102	0.257119	0.983433	0.997929
Quasi-structured	0.344892	1.29643	2.59106	0.404609	0.991972	0.998249

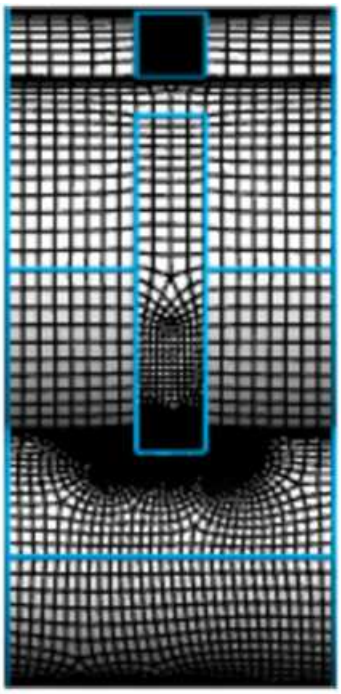


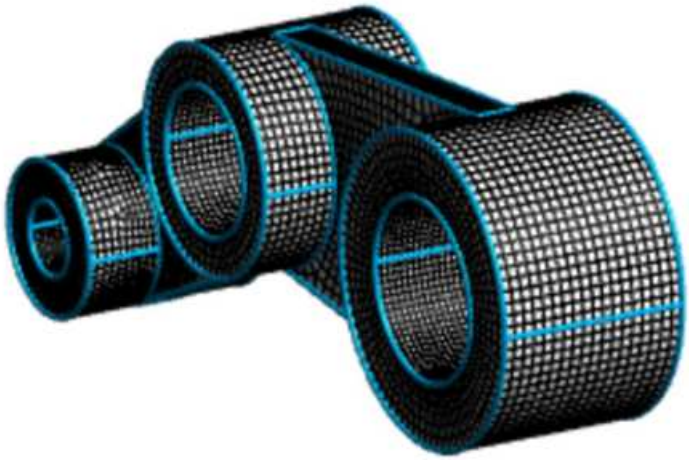
Model: S9 (from Mambo dataset)
CAD: 50 corners, 75 curves, 27 faces
Cross field: 32 singularities detected
Timings: 7.29803 sec to generate the unstructured mesh, 16.8999 sec to make it quasi-structured
Mesh topology:

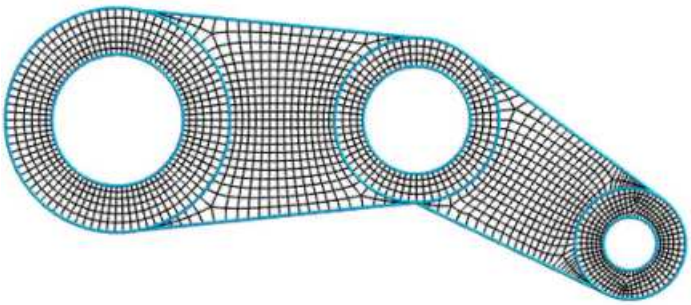
	# quads	# vertices	# irregular	# very irregular
Unstructured	19990	21957	822	18
Quasi-structured	19712	21679	216	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.98411e-07	2.98592	10.2822	8.44265e-07	0.935843	0.985283
Quasi-structured	1.98411e-07	3.05265	11.1818	1.72955e-06	0.963047	0.989557







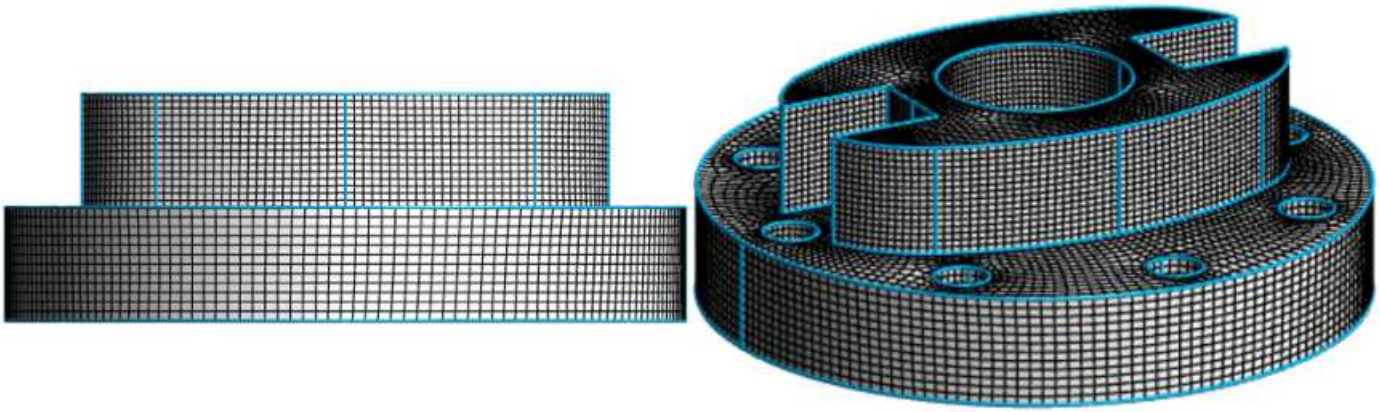


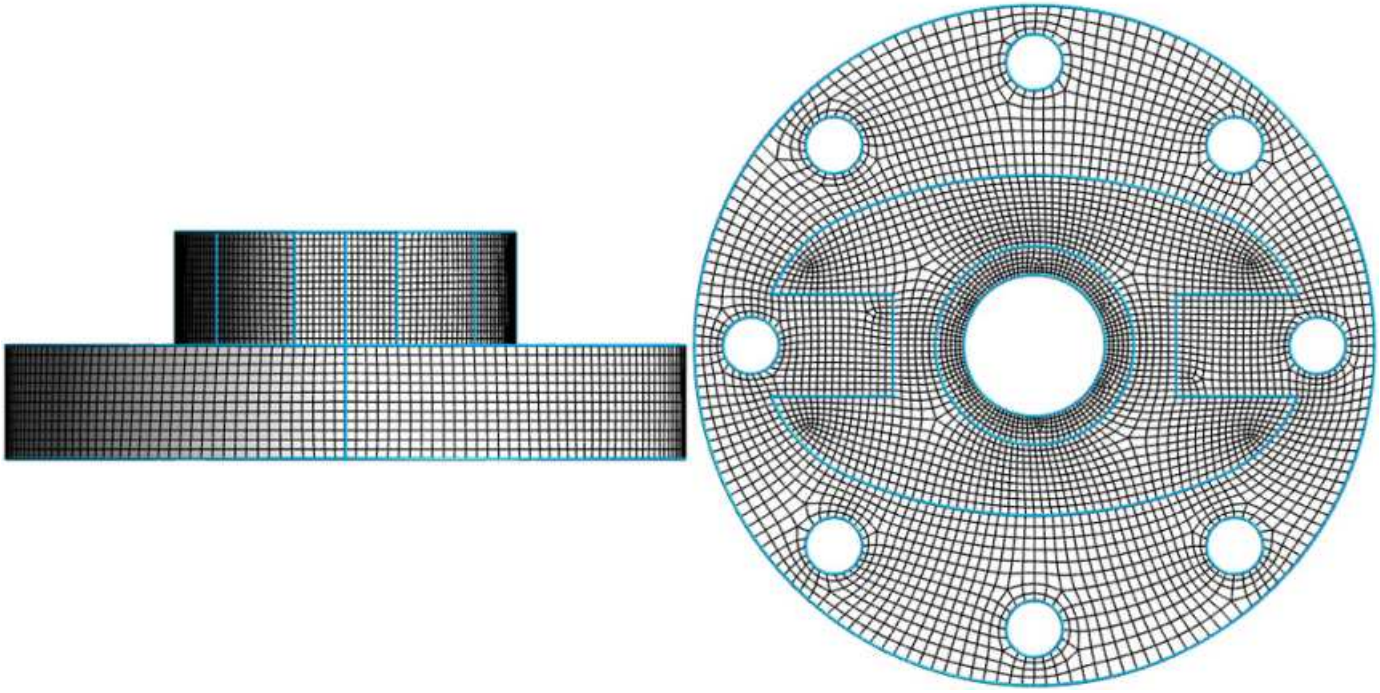
Model: M1 (from Mambo dataset)
CAD: 76 corners, 114 curves, 42 faces
Cross field: 72 singularities detected
Timings: 11.5443 sec to generate the unstructured mesh, 2.10599 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23018	25288	385	6
Quasi-structured	22946	25216	88	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.371052	1.31771	3.14357	0.151245	0.973809	0.99167
Quasi-structured	0.475374	1.31751	3.90962	0.672179	0.981487	0.99115



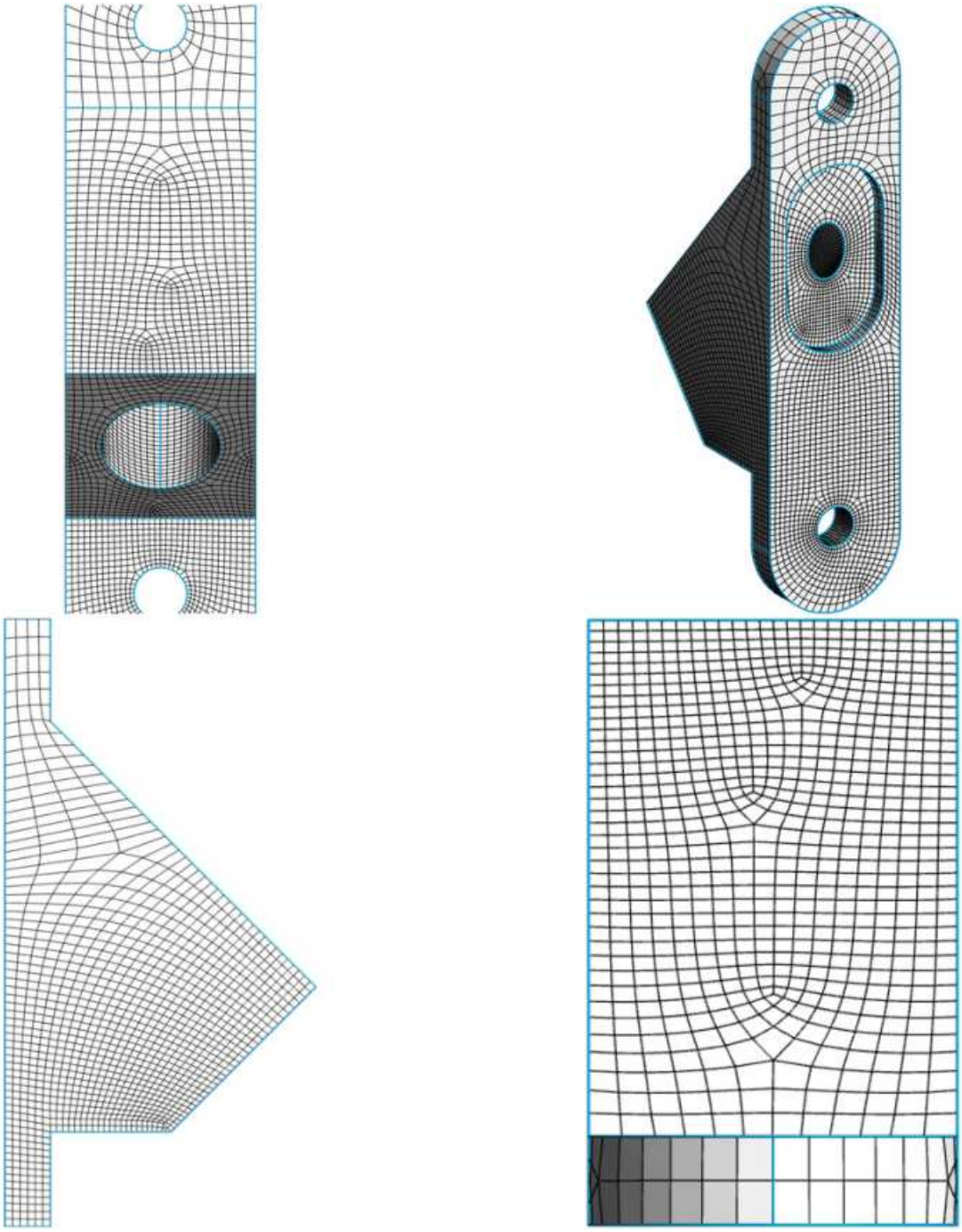


Model: M2 (from Mambo dataset)
CAD: 46 corners, 71 curves, 28 faces
Cross field: 28 singularities detected
Timings: 6.4797 sec to generate the unstructured mesh, 1.18413 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12374	13653	257	10
Quasi-structured	11871	13150	62	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0481203	0.228728	1.00139	0.410844	0.965454	0.98868
Quasi-structured	0.0701694	0.232857	1.61901	0.356671	0.964338	0.98502

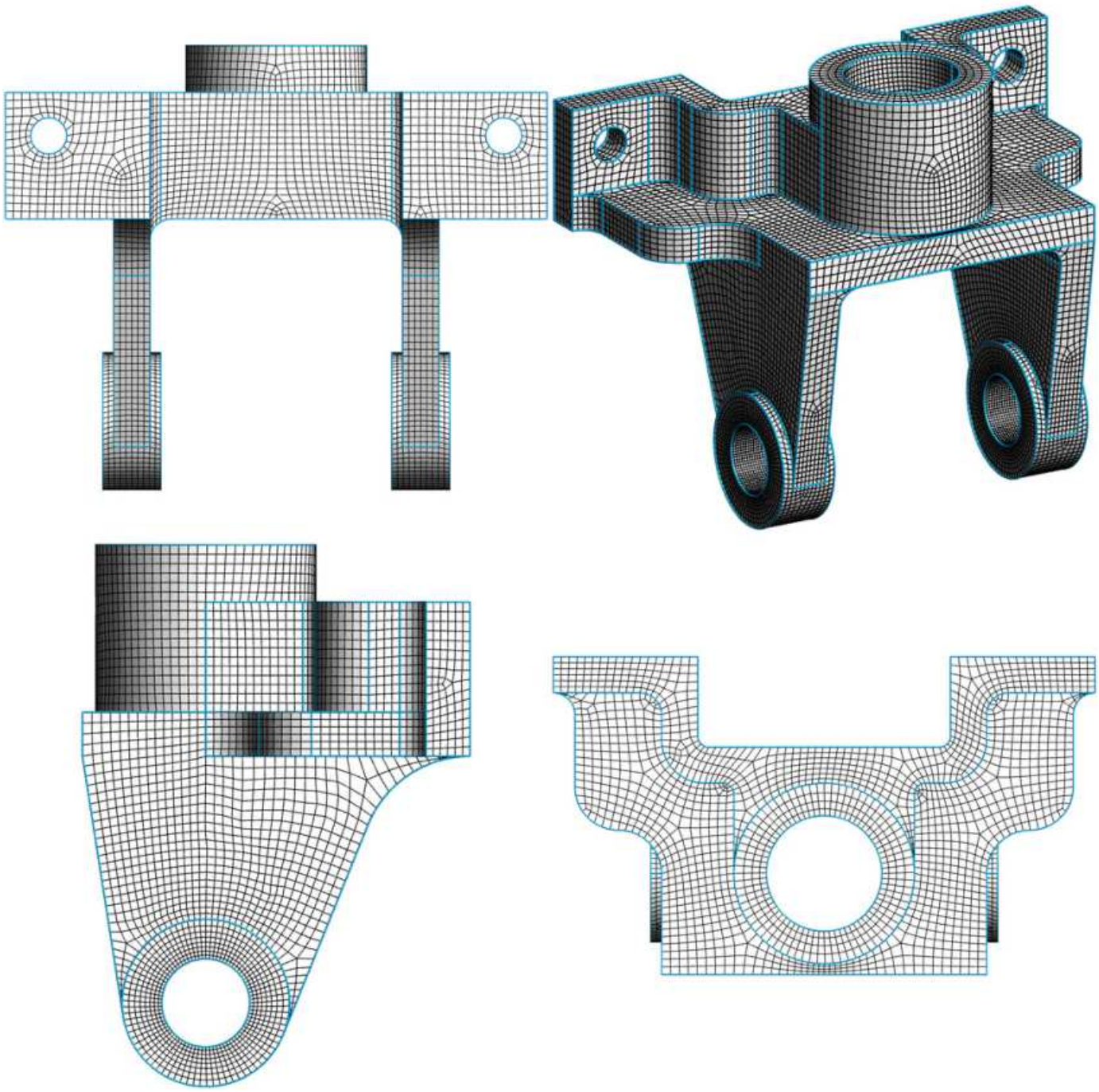


Model: M3 (from Mambo dataset)
CAD: 111 corners, 169 curves, 60 faces
Cross field: 85 singularities detected
Timings: 9.04259 sec to generate the unstructured mesh, 5.73123 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20232	23032	515	115
Quasi-structured	20933	23733	202	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.105168	1.63002	4.23548	0.000451506	0.95588	0.988975
Quasi-structured	0.0281956	1.60648	5.74023	0.0346923	0.971999	0.994205

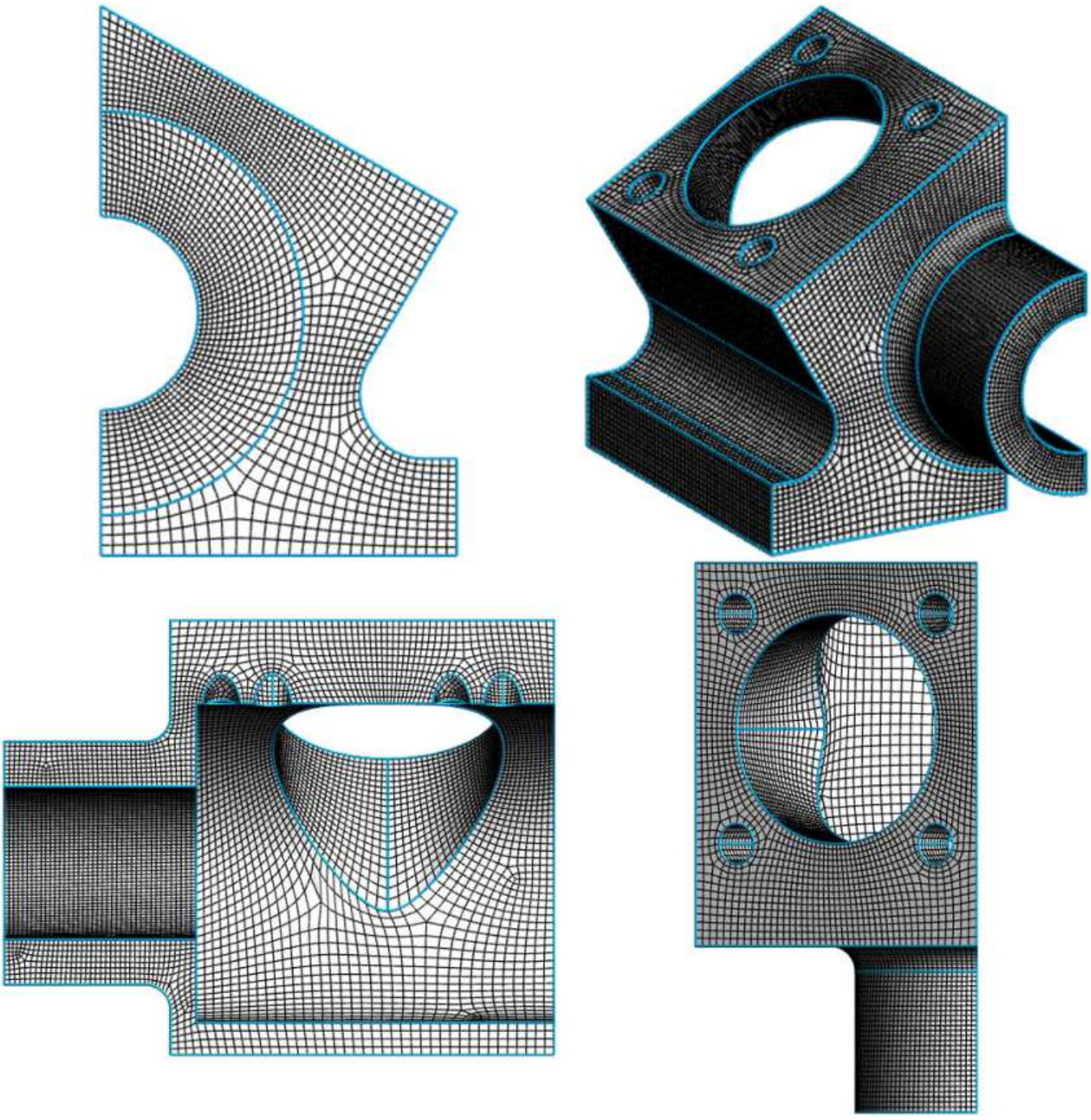


Model: M4 (from Mambo dataset)
CAD: 67 corners, 108 curves, 38 faces
Cross field: 76 singularities detected
Timings: 12.4563 sec to generate the unstructured mesh, 2.17784 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22842	25071	388	22
Quasi-structured	23181	25410	114	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0529765	0.235762	0.78586	0.226115	0.953075	0.979468
Quasi-structured	0.0360132	0.234136	1.16014	0.320364	0.959341	0.979588

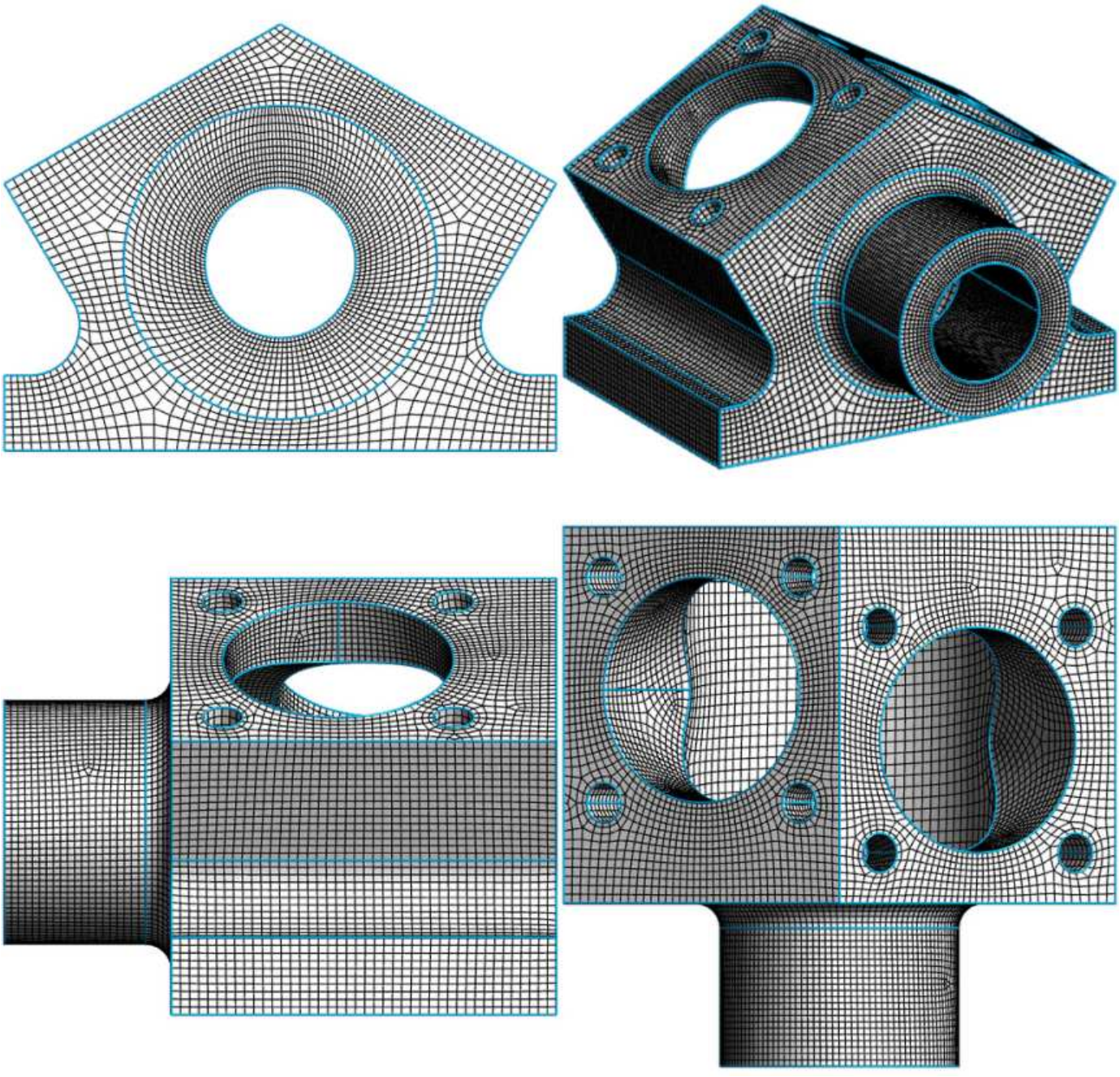


Model: M5 (from Mambo dataset)
CAD: 70 corners, 108 curves, 41 faces
Cross field: 114 singularities detected
Timings: 18.0639 sec to generate the unstructured mesh, 3.61026 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30634	33279	672	264
Quasi-structured	31075	33720	236	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0206703	0.276529	0.723255	0.082864	0.968414	0.993142
Quasi-structured	0.0312033	0.27507	0.799968	0.342233	0.9753	0.993056

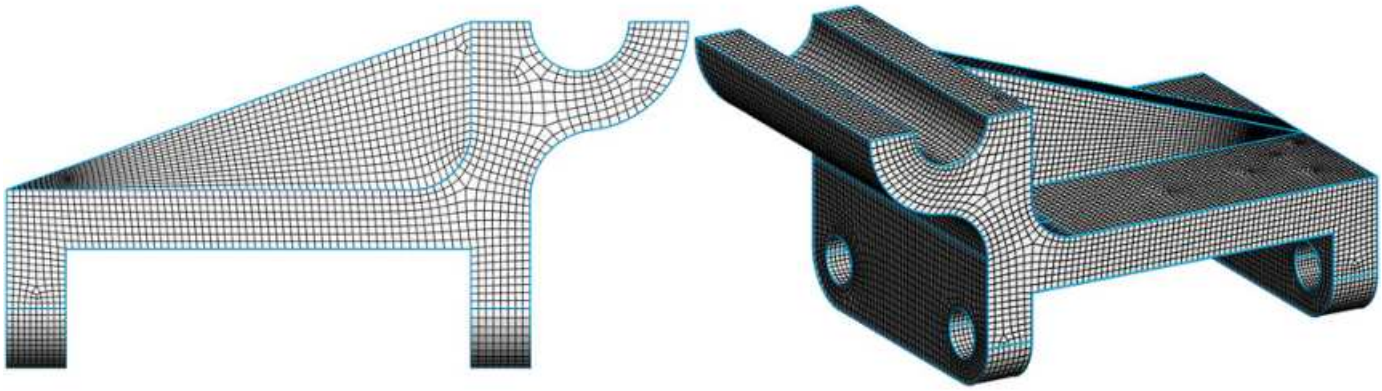


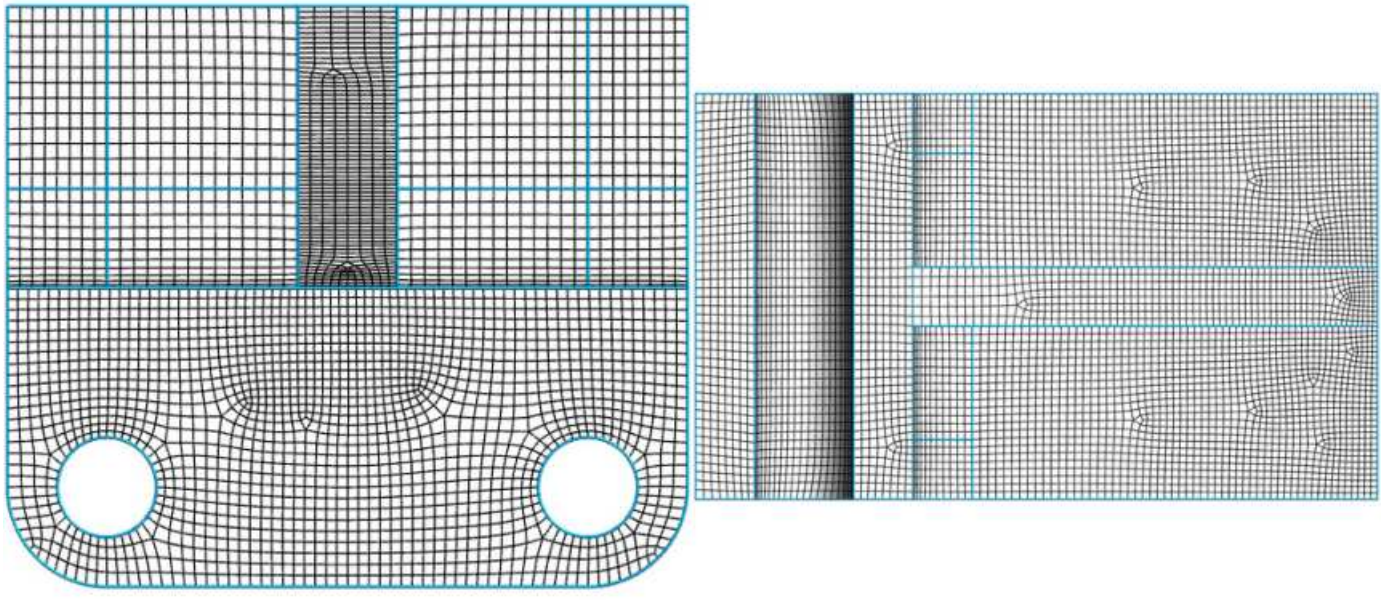
Model: M6 (from Mambo dataset)
CAD: 68 corners, 105 curves, 39 faces
Cross field: 34 singularities detected
Timings: 9.13949 sec to generate the unstructured mesh, 2.63466 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20948	23091	276	9
Quasi-structured	21695	23838	82	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.359598	1.4689	2.73099	0.340127	0.979585	0.995944
Quasi-structured	0.182752	1.44148	3.86743	0.317002	0.971404	0.994598



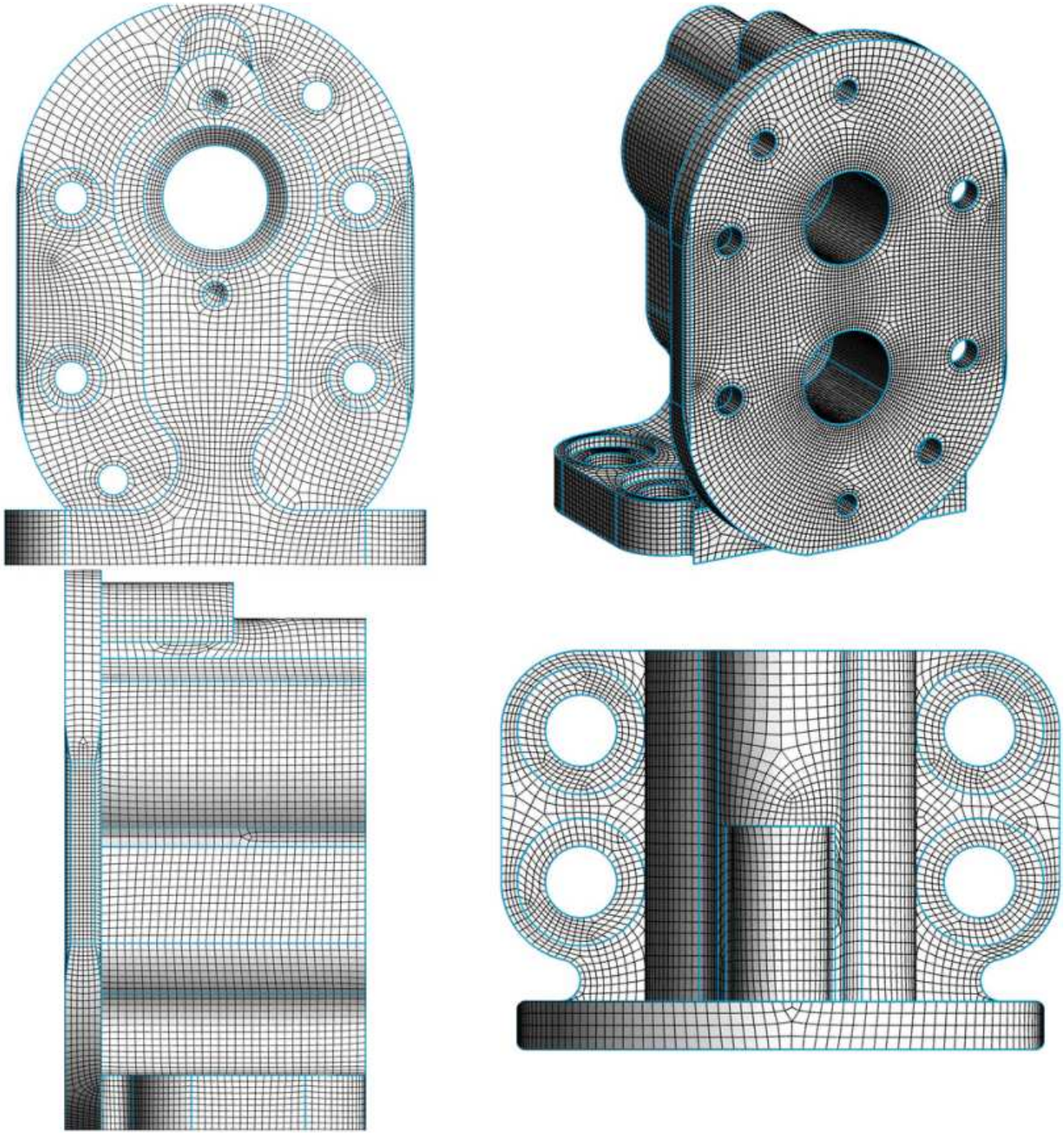


Model: M7 (from Mambo dataset)
CAD: 183 corners, 289 curves, 112 faces
Cross field: 151 singularities detected
Timings: 19.5835 sec to generate the unstructured mesh, 22.7455 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36946	41755	870	37
Quasi-structured	37707	42516	315	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.172026	0.903242	2.72798	0.0189118	0.963659	0.991481
Quasi-structured	0.0654631	0.894942	3.05346	0.128347	0.967715	0.991729

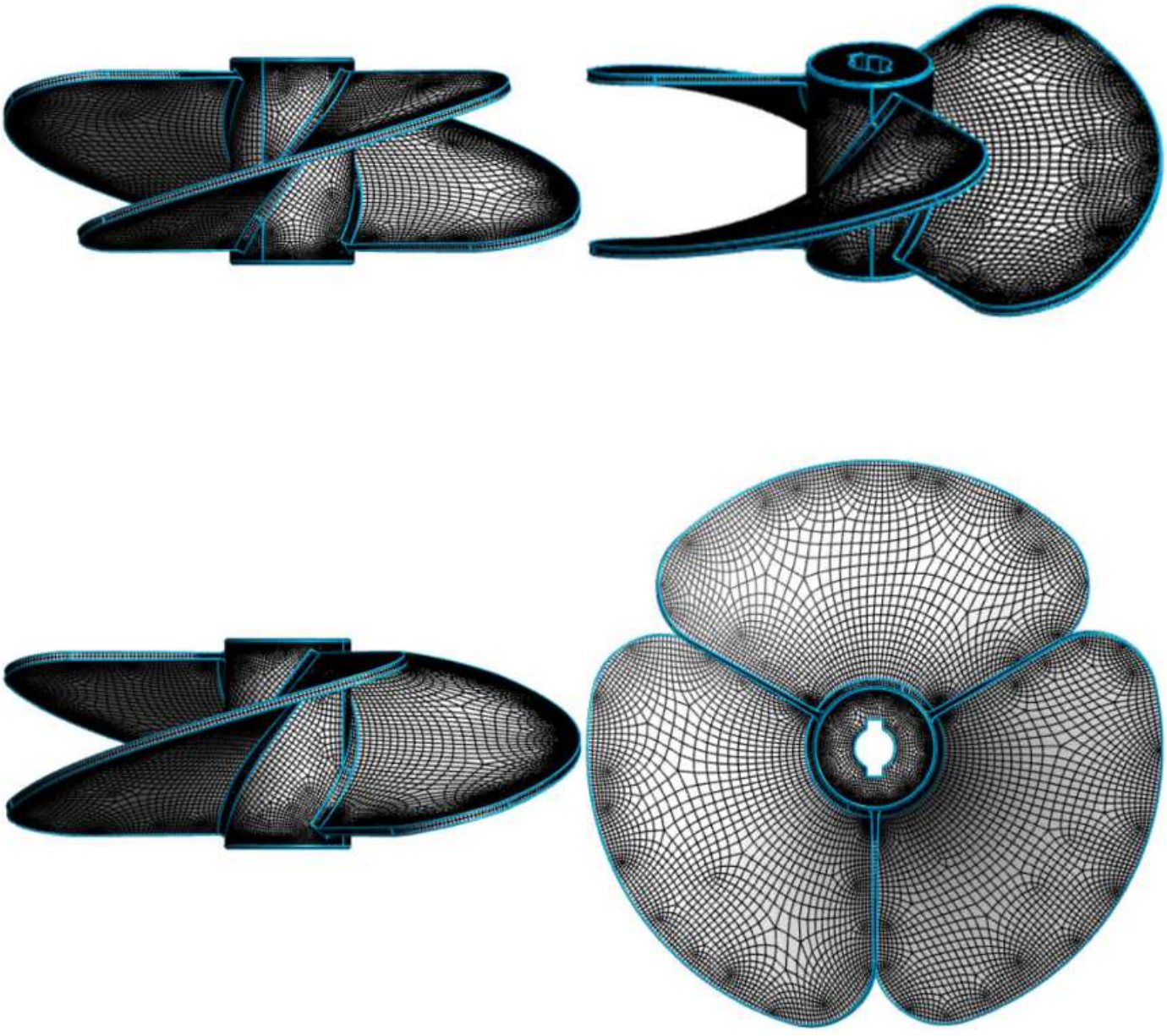


Model: M8 (from Mambo dataset)
CAD: 100 corners, 148 curves, 52 faces
Cross field: 36 singularities detected
Timings: 19.761 sec to generate the unstructured mesh, 23.6877 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37492	42112	2007	122
Quasi-structured	37673	42293	602	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0804445	0.91942	4.37165	0.131263	0.921404	0.976431
Quasi-structured	0.0560286	0.903293	6.81886	0.184145	0.941934	0.979085

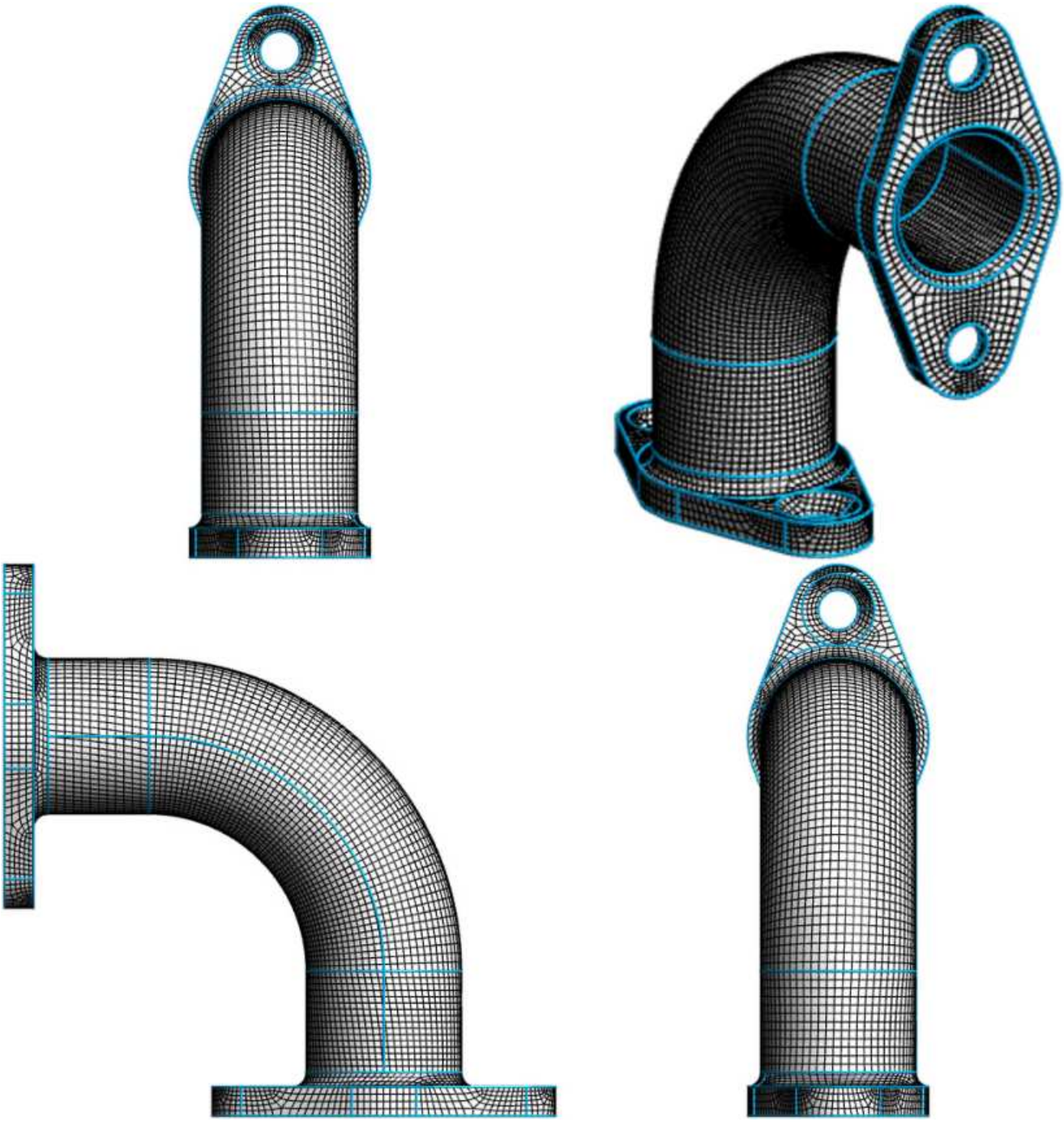


Model: M9 (from Mambo dataset)
CAD: 76 corners, 118 curves, 40 faces
Cross field: 46 singularities detected
Timings: 8.46119 sec to generate the unstructured mesh, 13.3193 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16586	18352	683	236
Quasi-structured	17051	18817	222	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.361298	1.792	3.61384	0.136915	0.940891	0.988454
Quasi-structured	0.24327	1.77007	4.62778	0.185008	0.95	0.98899

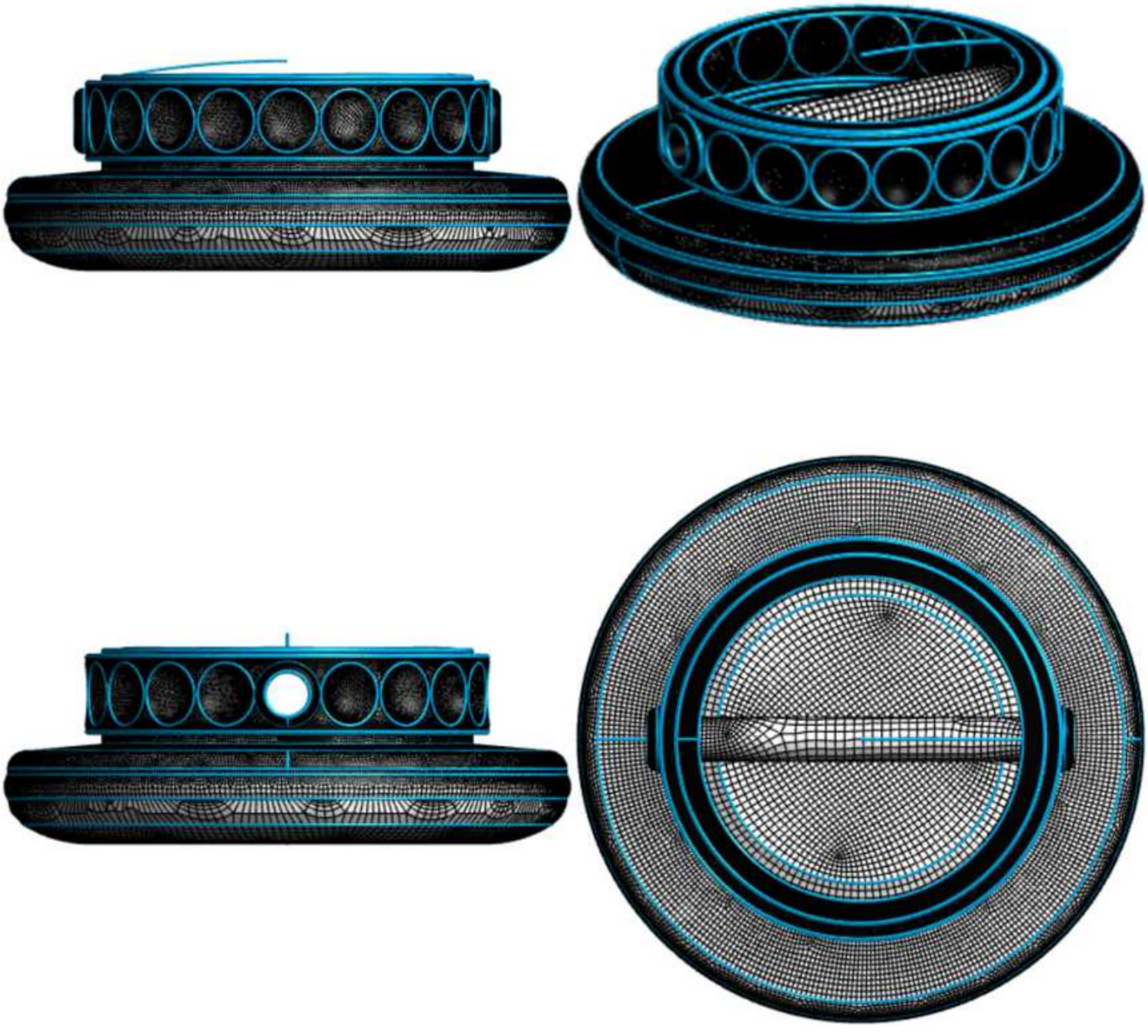


Model: 00000002 (from ABC dataset)
CAD: 54 corners, 76 curves, 44 faces
Cross field: 152 singularities detected
Timings: 27.277 sec to generate the unstructured mesh, 1862.99 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	119767	136463	6525	547
Quasi-structured	122376	139072	3112	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0102165	0.275391	2.52414	0.151068	0.910037	0.9769
Quasi-structured	0.00707713	0.271686	3.1432	0.114459	0.930494	0.980702

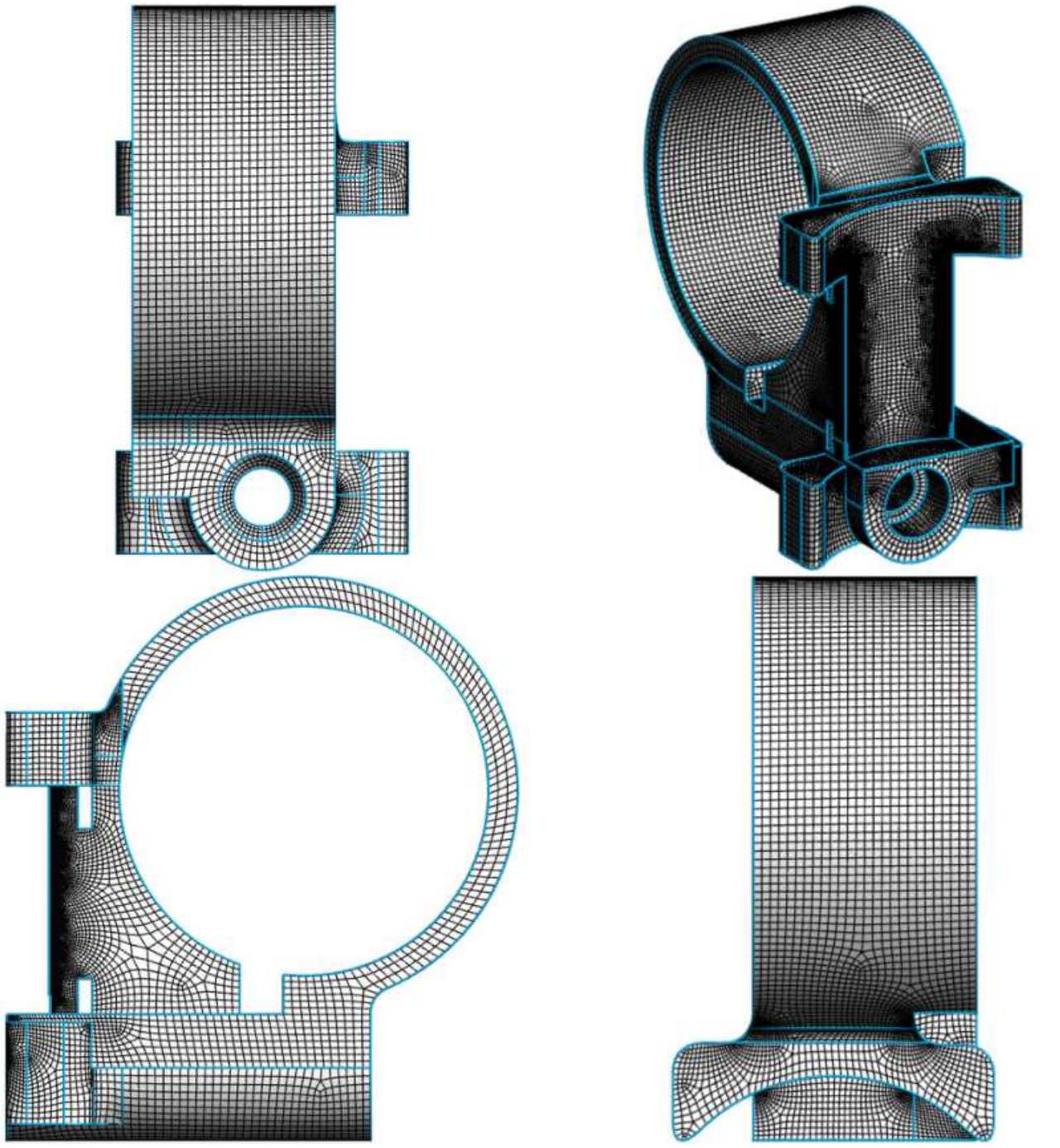


Model: 00000027 (from ABC dataset)
CAD: 148 corners, 223 curves, 74 faces
Cross field: 42 singularities detected
Timings: 29.8258 sec to generate the unstructured mesh, 469.61 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	66960	72812	3369	226
Quasi-structured	67446	73298	1662	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00197939	0.192396	1.05809	0.0392107	0.905043	0.979049
Quasi-structured	0.00197939	0.191878	1.19468	0.0774944	0.938785	0.988793

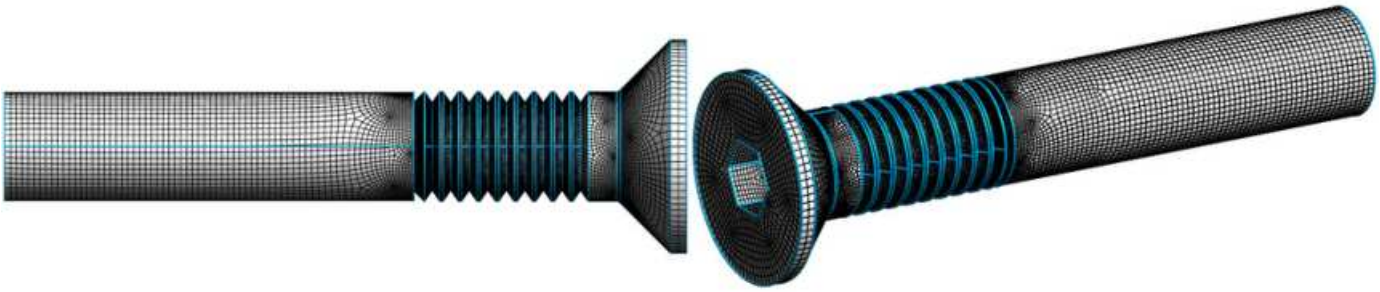


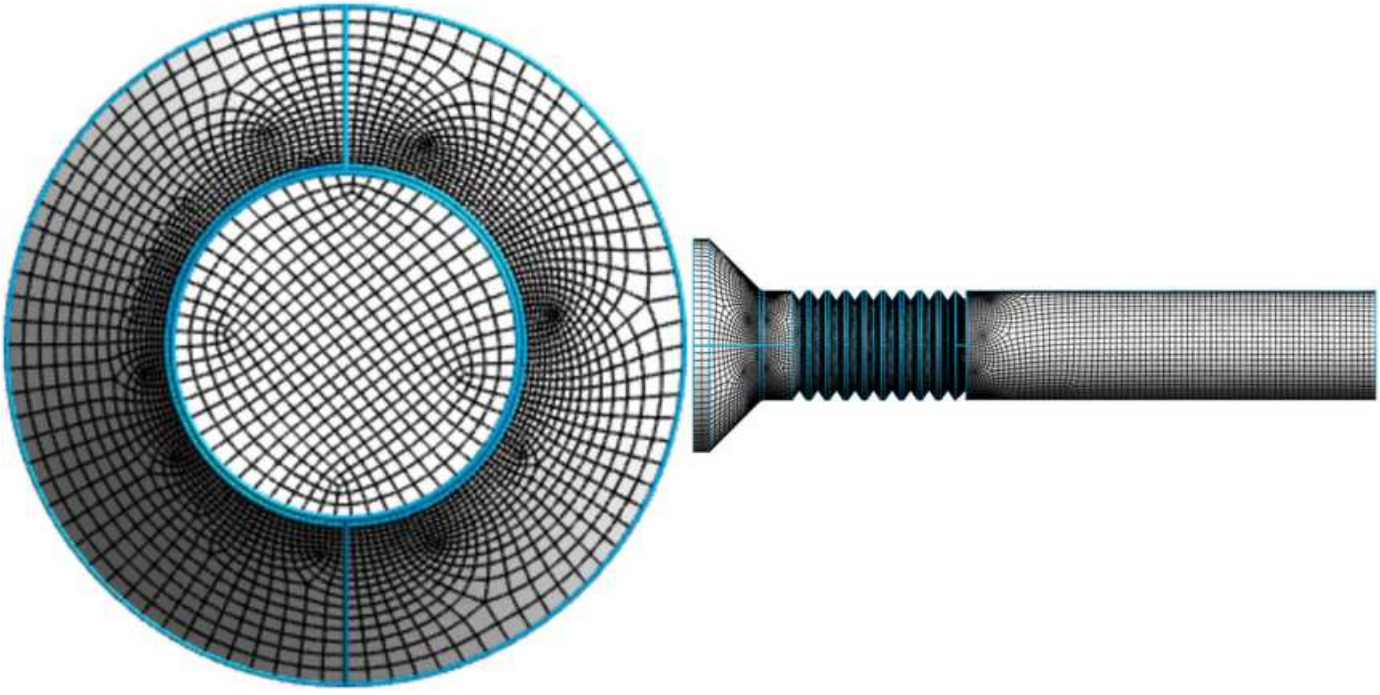
Model: 00000032 (from ABC dataset)
CAD: 123 corners, 202 curves, 82 faces
Cross field: 26 singularities detected
Timings: 19.5093 sec to generate the unstructured mesh, 418.841 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	59680	67735	3449	245
Quasi-structured	57016	65071	1498	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00511614	0.0643578	0.414778	0.00642734	0.933118	0.979031
Quasi-structured	0.00318214	0.0662404	0.563726	0.0434033	0.953745	0.974732





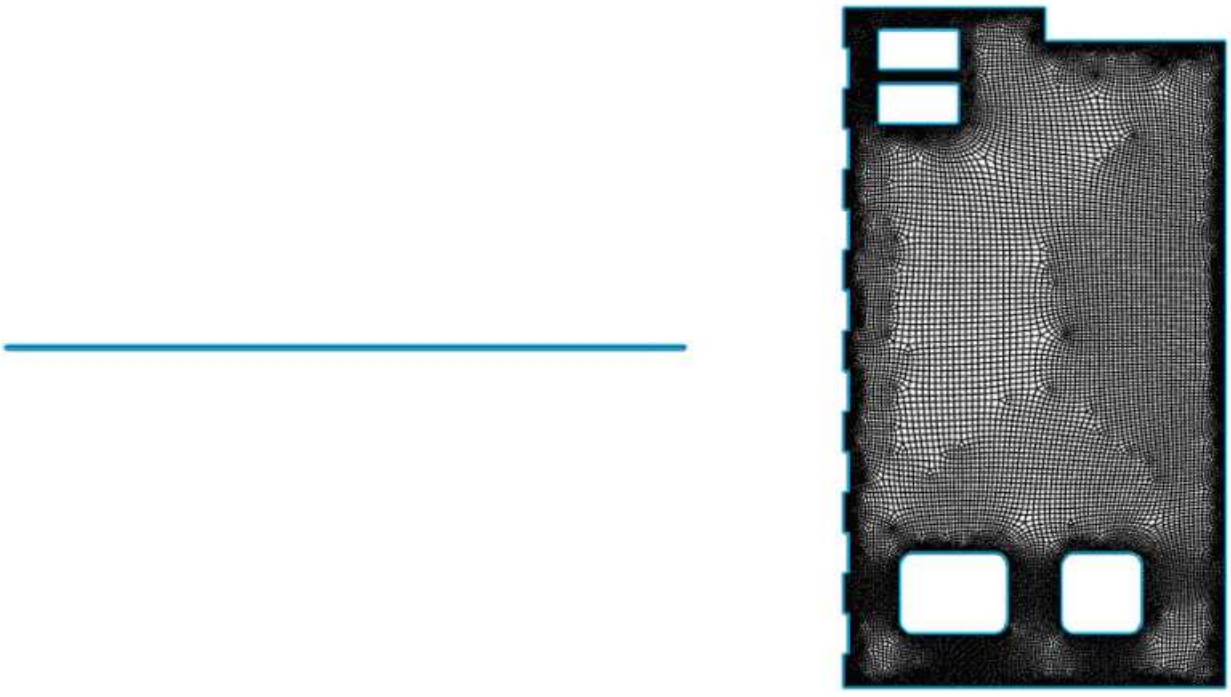
Model: 00000054 (from ABC dataset)
CAD: 140 corners, 210 curves, 72 faces
Cross field: 32 singularities detected
Timings: 39.0124 sec to generate the unstructured mesh, 223.079 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	51822	56034	1946	192
Quasi-structured	54108	58320	444	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.74332	10.3625	33.0333	0.360317	0.93646	0.97569
Quasi-structured	2.17916	10.2325	41.2402	0.160635	0.946846	0.964684



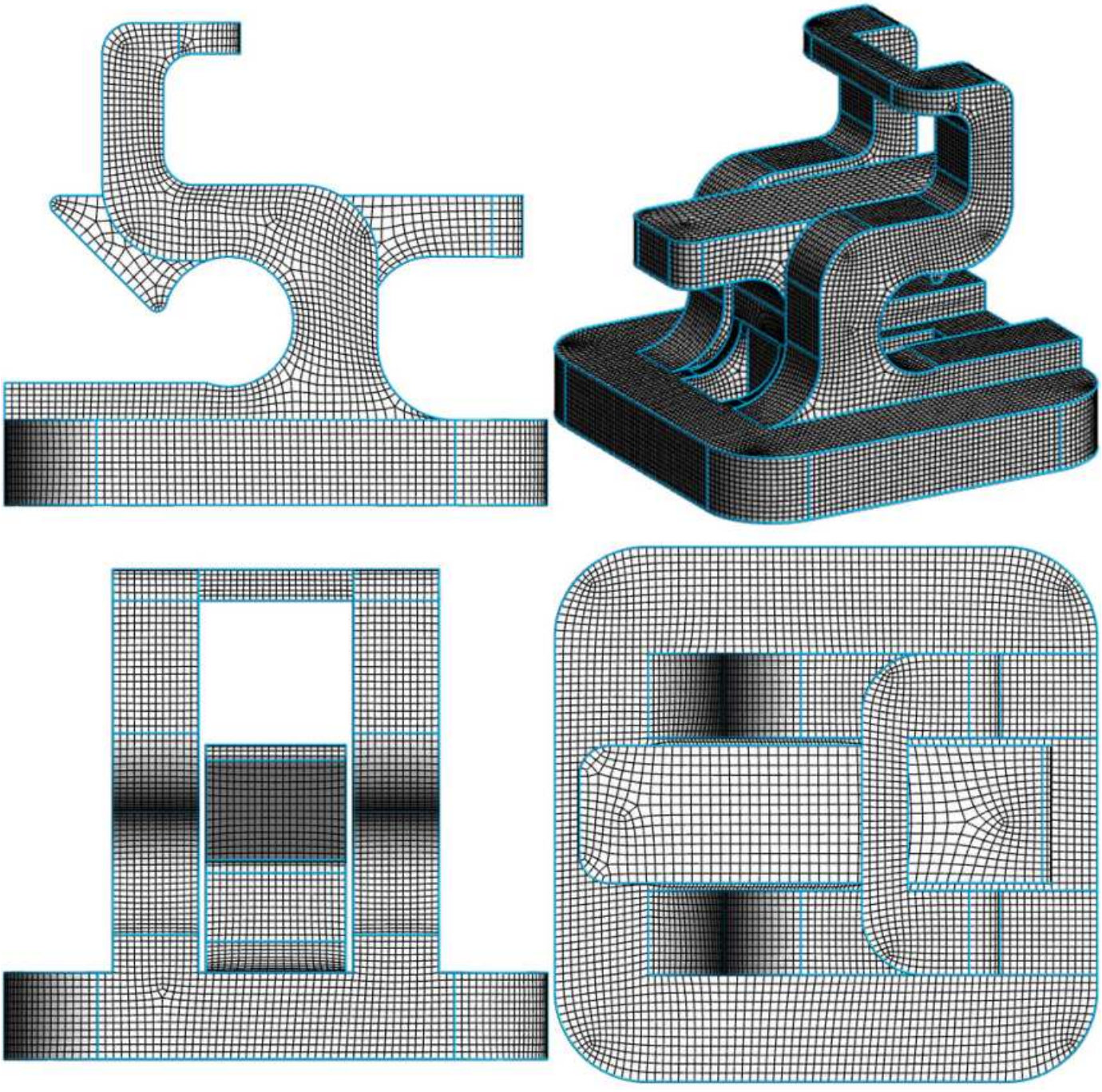


Model: 00000060 (from ABC dataset)
CAD: 145 corners, 219 curves, 76 faces
Cross field: 86 singularities detected
Timings: 16.6781 sec to generate the unstructured mesh, 6.9288 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28192	31714	679	29
Quasi-structured	29000	32522	232	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0268964	0.595617	1.38497	0.00213304	0.964112	0.99125
Quasi-structured	0.0216803	0.586763	1.47928	0.0279952	0.971067	0.992682

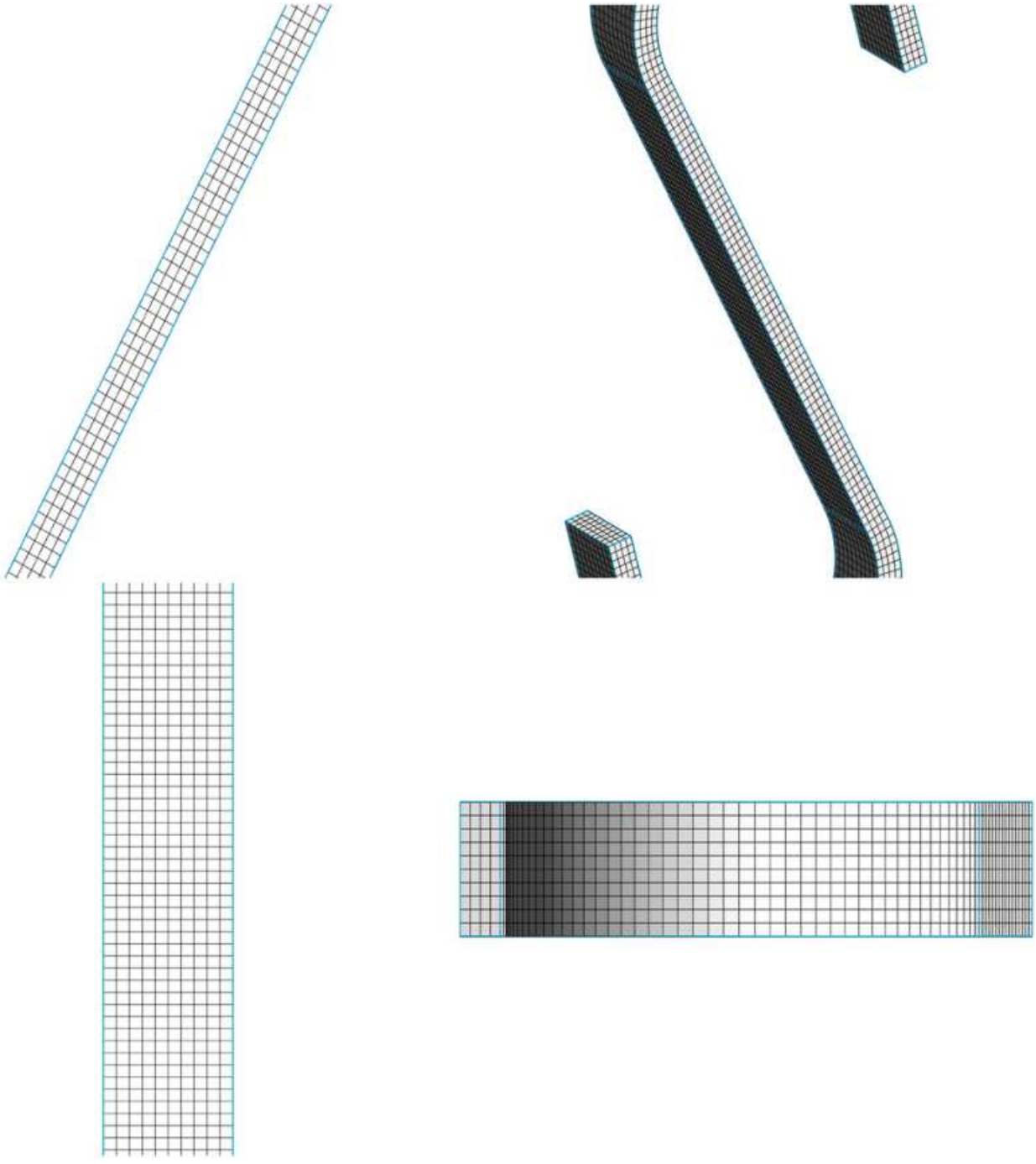


Model: 00000070 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 3.46772 sec to generate the unstructured mesh, 0.658944 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5044	5994	24	0
Quasi-structured	5680	6630	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.2564	0.664305	1.00321	0.487783	0.978772	0.998674
Quasi-structured	0.455993	0.626185	0.734976	0.944104	0.983848	0.998648

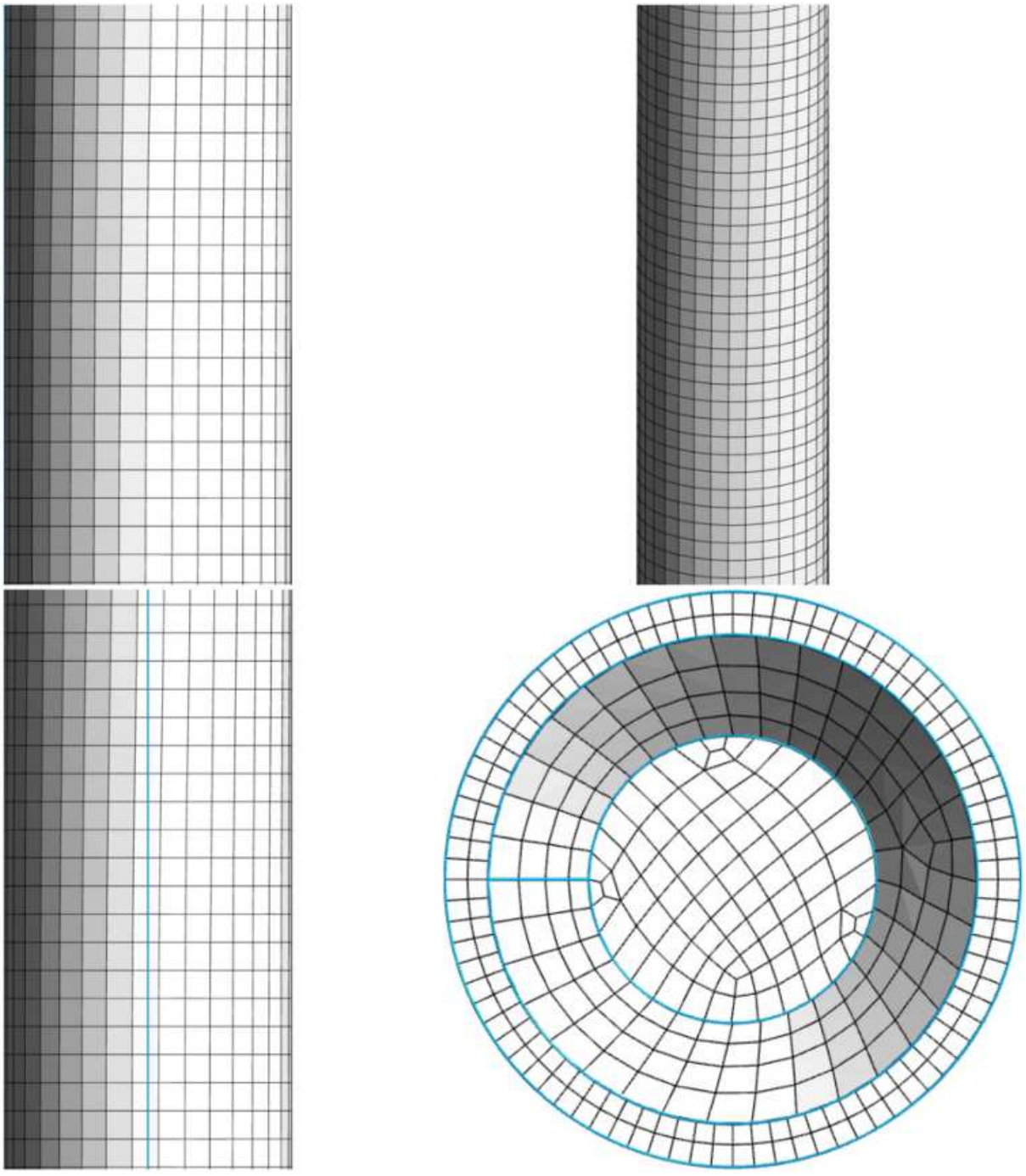


Model: 00000103 (from ABC dataset)
CAD: 12 corners, 22 curves, 13 faces
Cross field: 8 singularities detected
Timings: 4.39206 sec to generate the unstructured mesh, 4.3938 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8674	9596	289	191
Quasi-structured	8979	9901	146	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.140571	0.749402	1.63434	0.188848	0.954574	0.989869
Quasi-structured	0.162057	0.734912	1.85843	0.620712	0.981331	0.994371

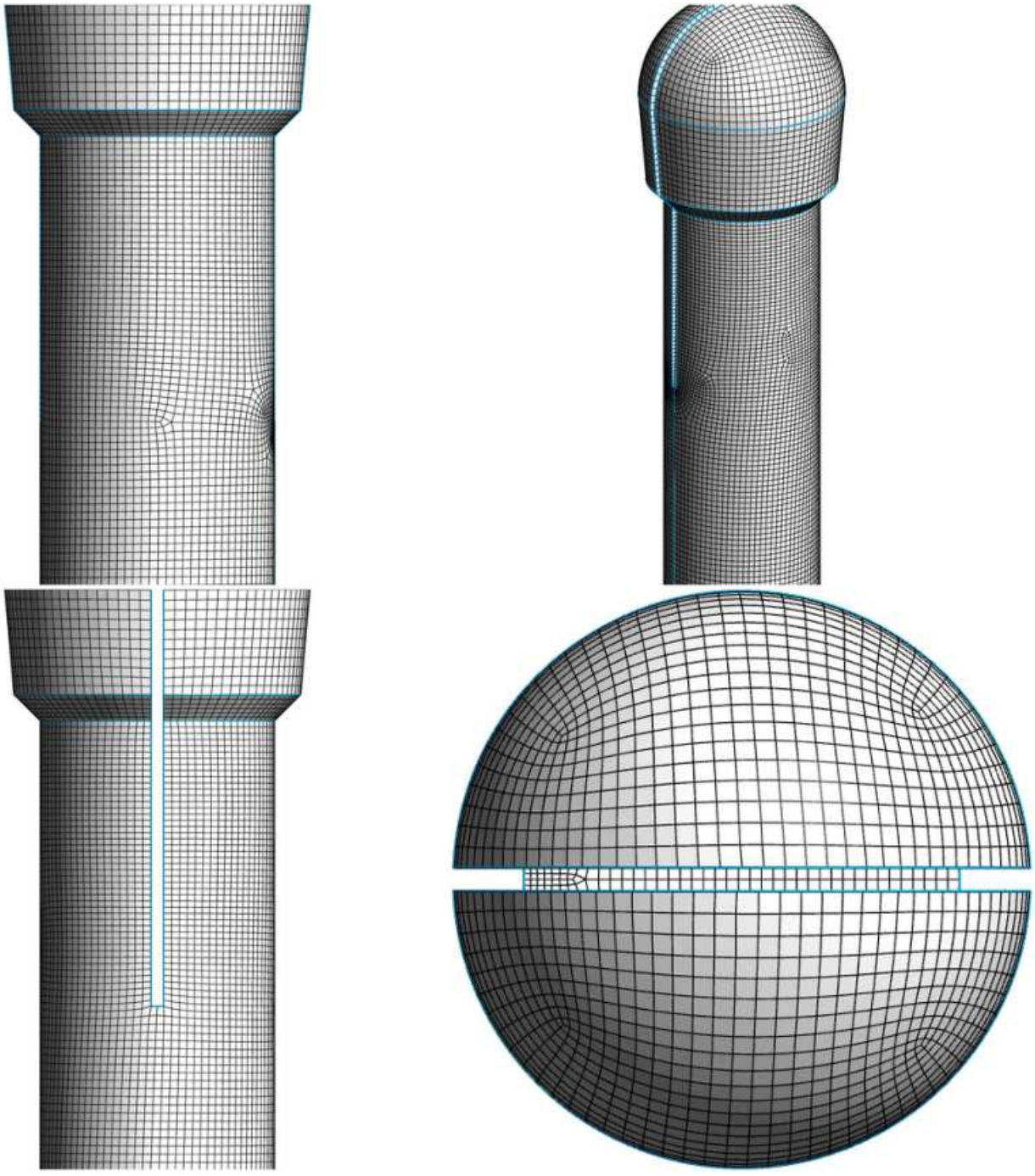


Model: 00000105 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 16 singularities detected
Timings: 8.50337 sec to generate the unstructured mesh, 2.73103 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15842	16634	244	47
Quasi-structured	16816	17608	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0698934	0.332412	0.686202	0.436434	0.962954	0.983682
Quasi-structured	0.0727717	0.320886	0.856078	0.477508	0.979853	0.990538

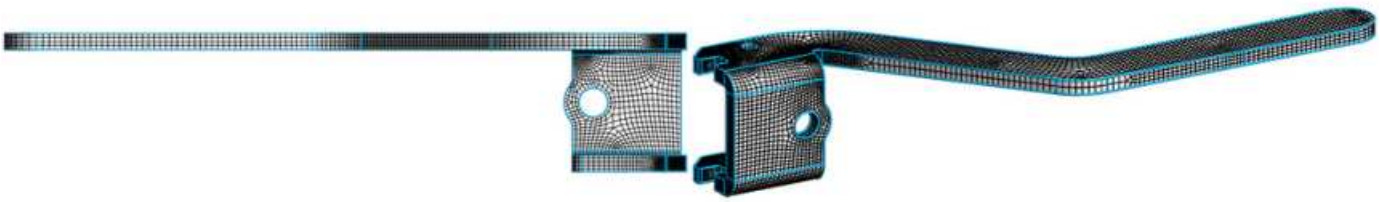


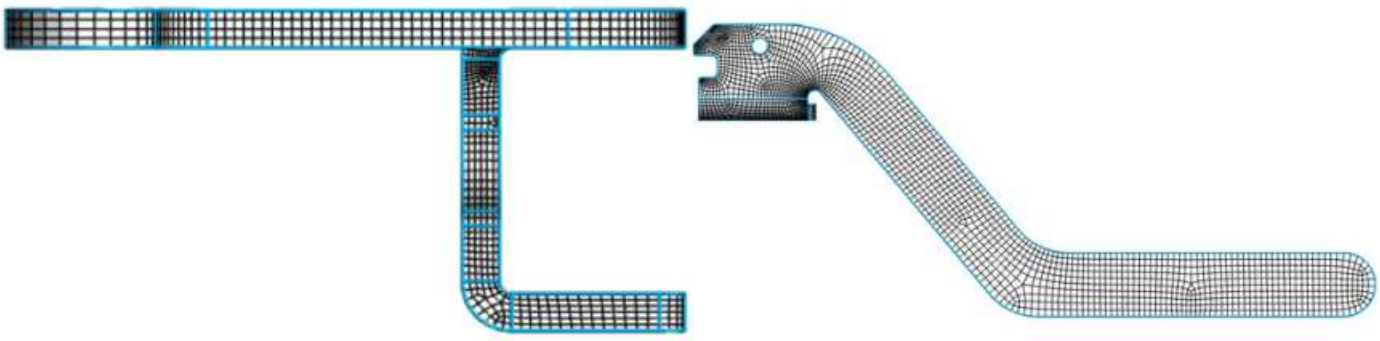
Model: 00000125 (from ABC dataset)
CAD: 112 corners, 176 curves, 66 faces
Cross field: 60 singularities detected
Timings: 5.83876 sec to generate the unstructured mesh, 4.63116 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11748	13732	614	28
Quasi-structured	12063	14047	212	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0453753	0.661706	1.64628	0.072572	0.929948	0.966255
Quasi-structured	0.0538392	0.648689	3.29135	0.336597	0.948305	0.975373



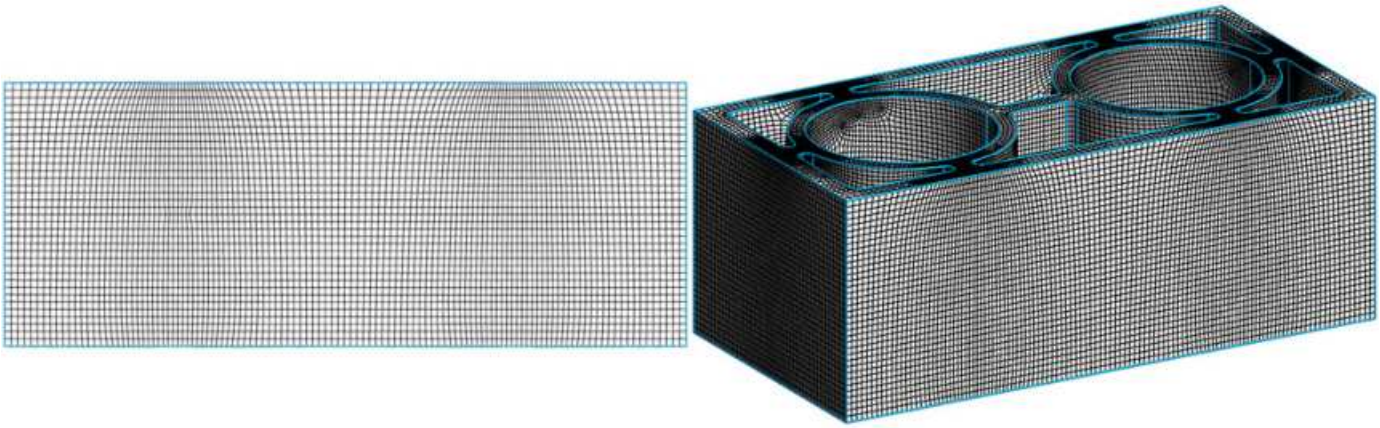


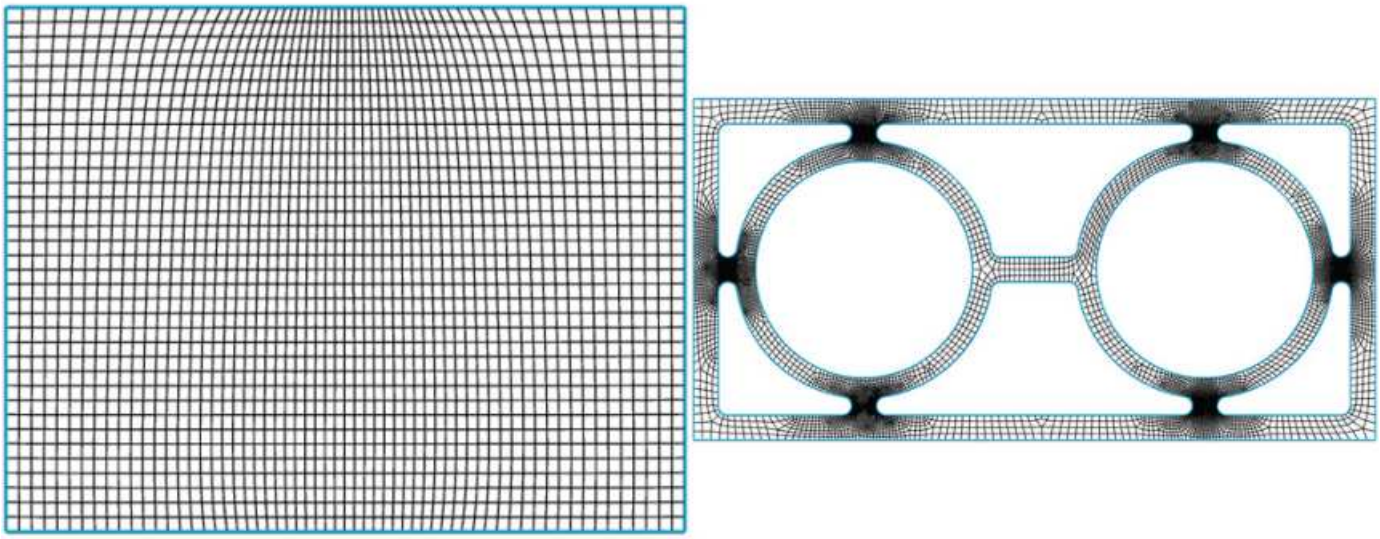
Model: 00000152 (from ABC dataset)
CAD: 144 corners, 216 curves, 69 faces
Cross field: 79 singularities detected
Timings: 38.1207 sec to generate the unstructured mesh, 2960.57 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	221174	246054	17116	798
Quasi-structured	232513	257393	9644	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0270052	0.695713	3.63664	0.00361104	0.844119	0.927675
Quasi-structured	0.0143892	0.662344	4.58322	0.0634598	0.909218	0.96553



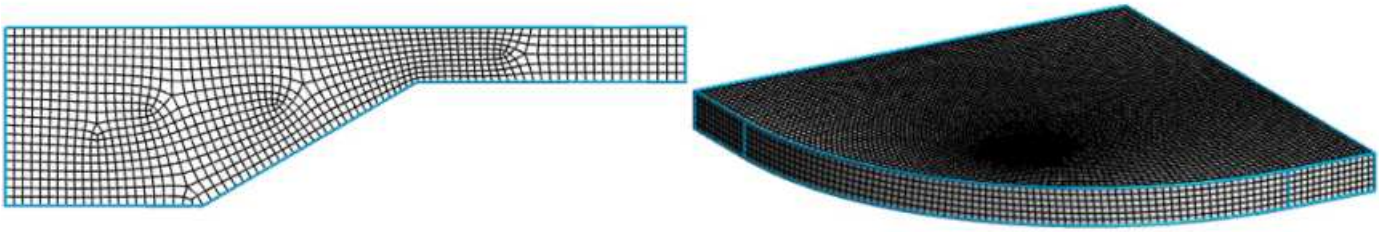


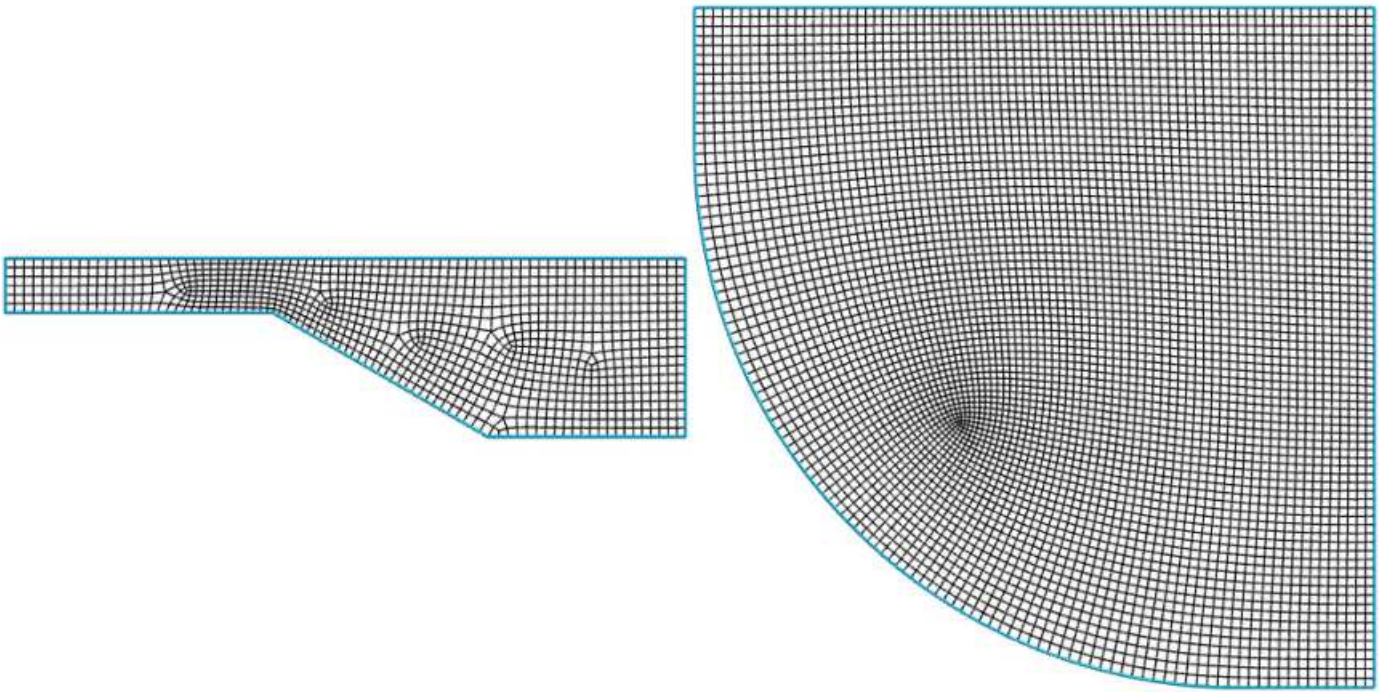
Model: 00000162 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 4 singularities detected
Timings: 10.4735 sec to generate the unstructured mesh, 3.78377 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13912	14725	148	3
Quasi-structured	14436	15249	44	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.090708	0.314608	0.559167	0.49769	0.984343	0.995832
Quasi-structured	0.0732617	0.307846	0.562104	0.722784	0.991973	0.99764



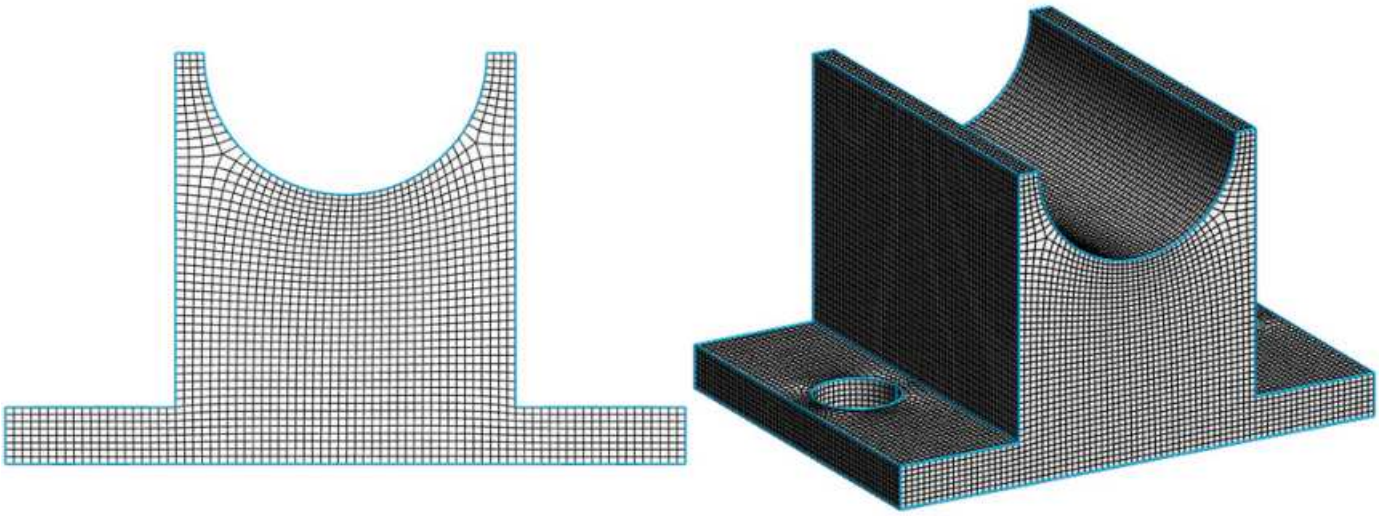


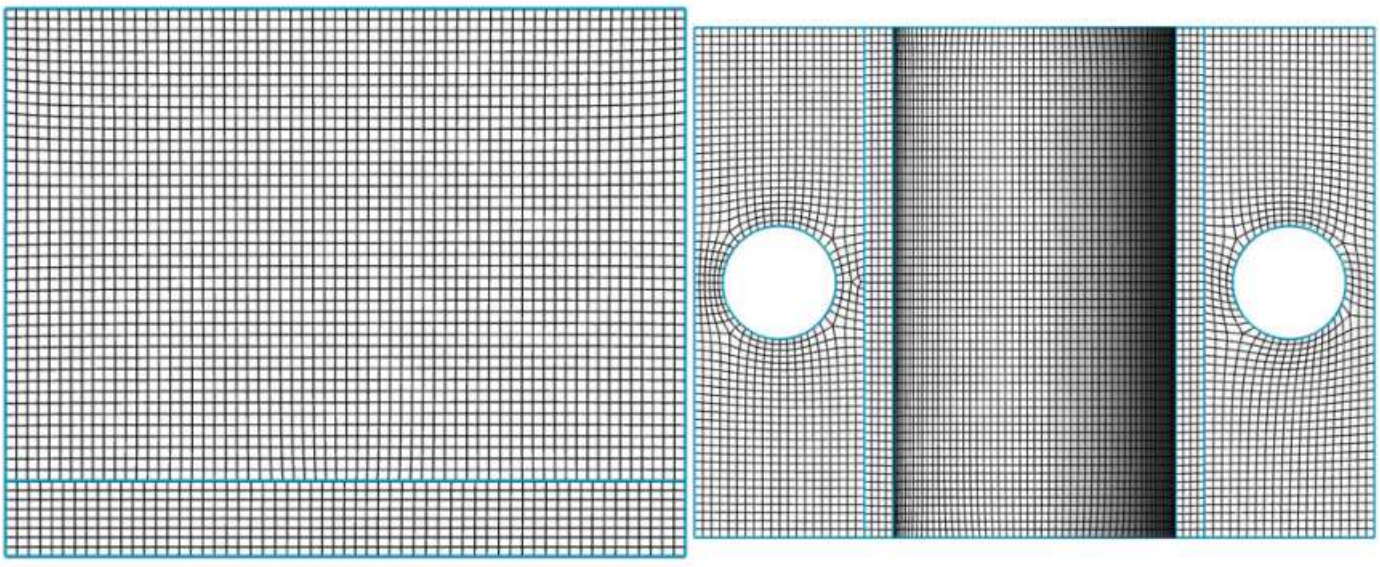
Model: 00000168 (from ABC dataset)
CAD: 25 corners, 37 curves, 14 faces
Cross field: 20 singularities detected
Timings: 10.3374 sec to generate the unstructured mesh, 1.36762 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20956	22332	164	18
Quasi-structured	21374	22750	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.65306	1.86635	3.02496	0.456322	0.984527	0.996516
Quasi-structured	0.853122	1.84563	4.37537	0.624652	0.991659	0.99665



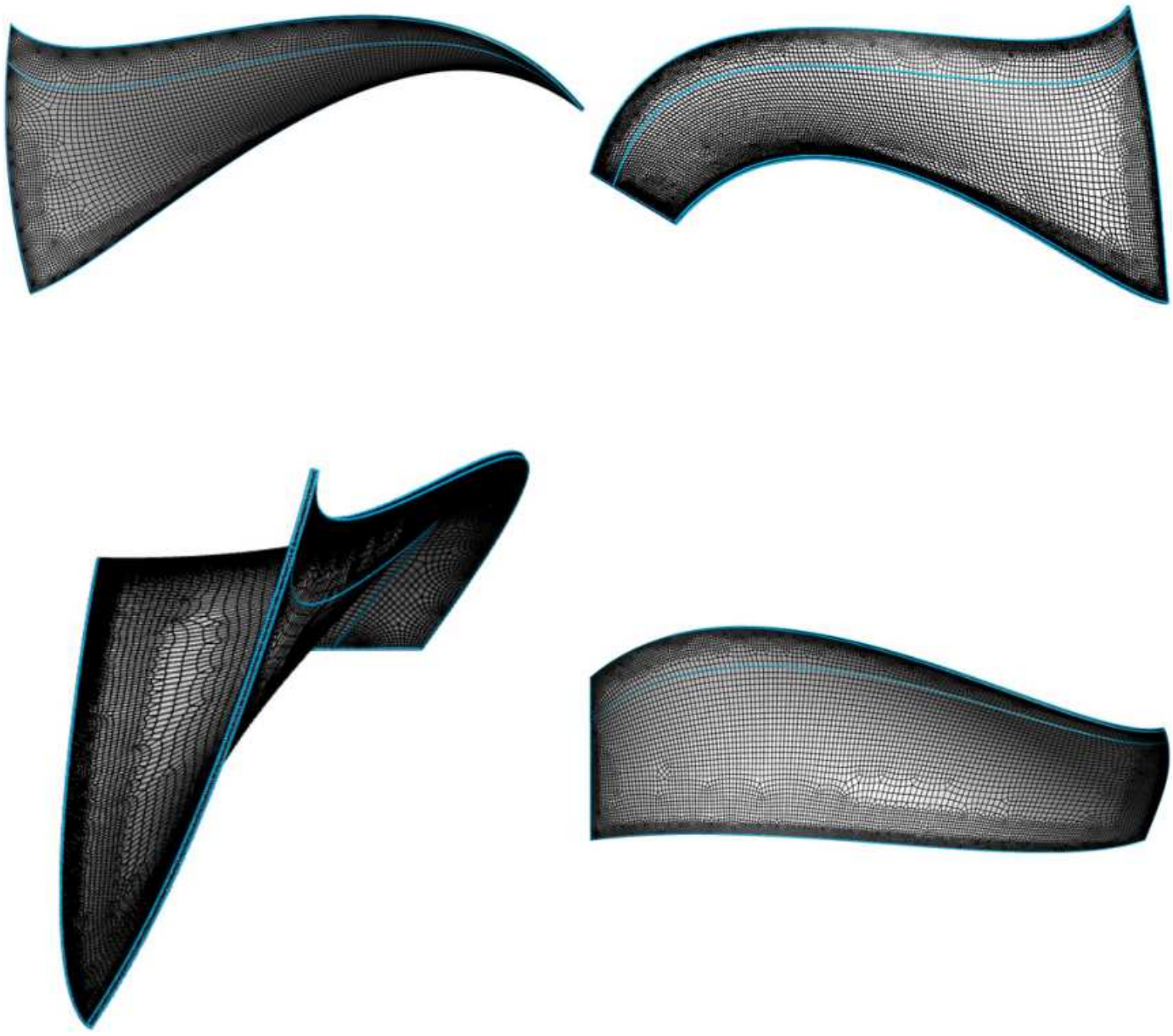


Model: 00000230 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 1 singularities detected
Timings: 28.3317 sec to generate the unstructured mesh, 270.39 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29754	32344	1493	87
Quasi-structured	29505	32095	938	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.37717	12.6239	47.085	0.31126	0.928963	0.971316
Quasi-structured	2.37648	12.5419	43.7163	0.424295	0.9623	0.983555

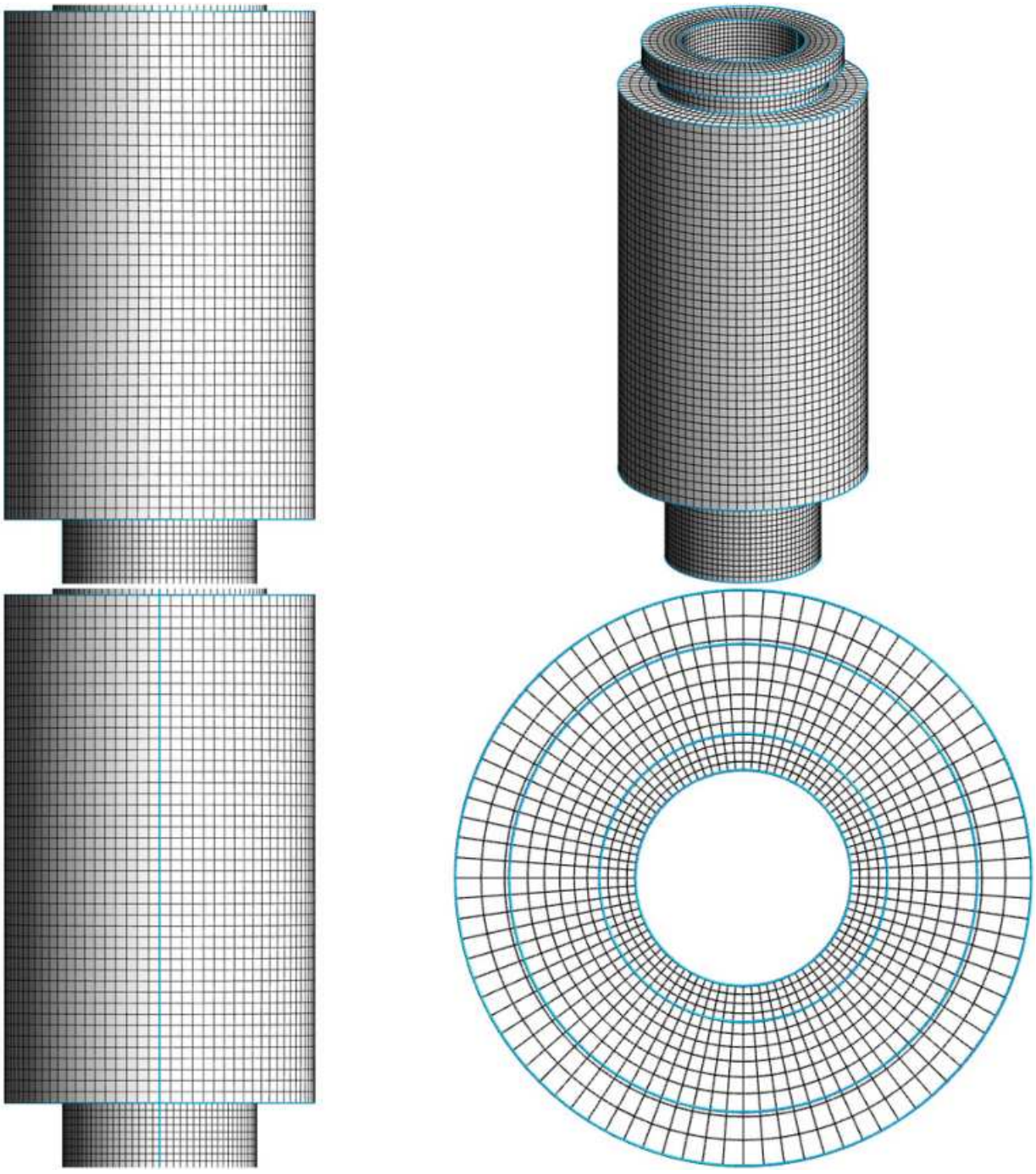


Model: 00000258 (from ABC dataset)
CAD: 14 corners, 21 curves, 14 faces
Cross field: 0 singularities detected
Timings: 17.8675 sec to generate the unstructured mesh, 1.67269 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20836	22068	31	198
Quasi-structured	20944	22176	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0540703	0.178372	0.477798	0.469606	0.990936	0.999555
Quasi-structured	0.10546	0.177684	0.357835	0.95046	0.996856	0.999877

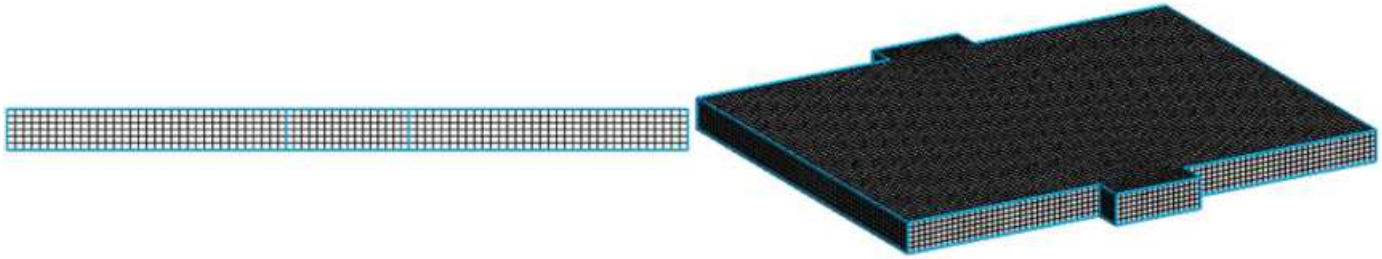


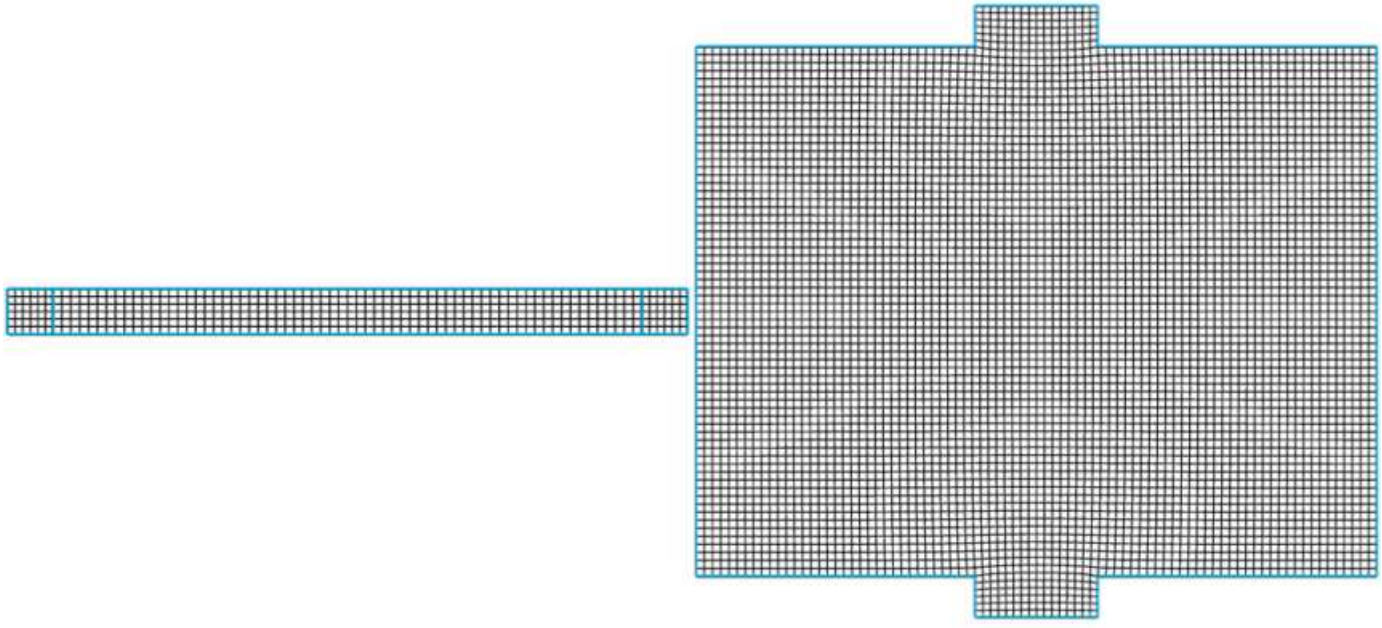
Model: 00000295 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 6.51878 sec to generate the unstructured mesh, 0.988326 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13260	13994	32	0
Quasi-structured	13416	14150	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.267715	0.588504	0.842021	0.697185	0.98968	0.999648
Quasi-structured	0.5	0.583432	0.640115	0.977469	0.997862	0.999898





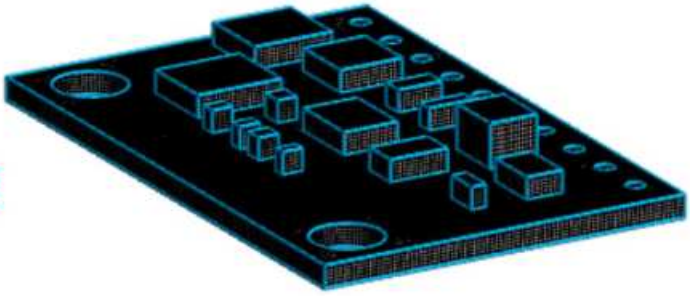
Model: 00000296 (from ABC dataset)
CAD: 152 corners, 228 curves, 93 faces
Cross field: 96 singularities detected
Timings: 22.8699 sec to generate the unstructured mesh, 4.86255 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27476	30484	454	103
Quasi-structured	27789	30797	134	0

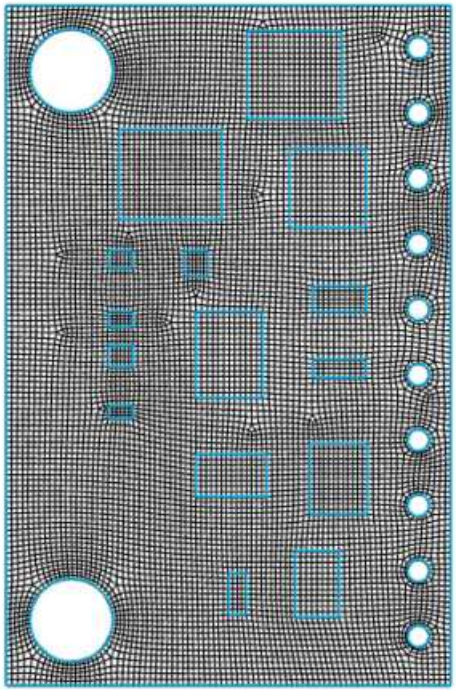
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.057012	0.199819	0.365292	0.268373	0.96983	0.987772
Quasi-structured	0.0927077	0.198182	0.403155	0.612448	0.984829	0.994969







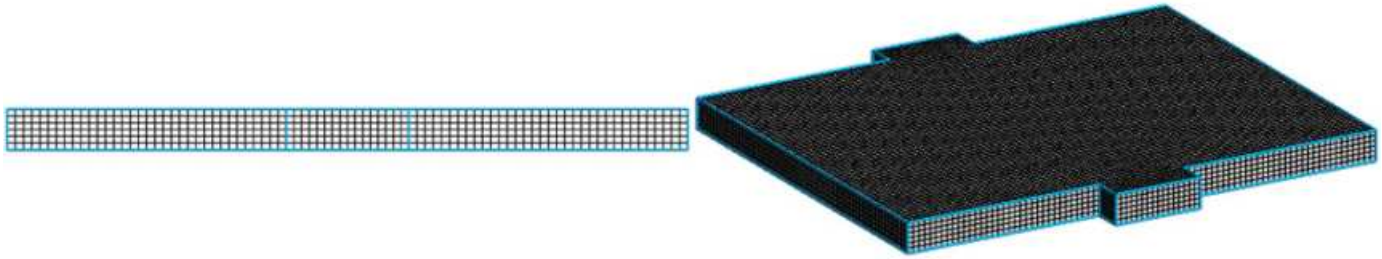


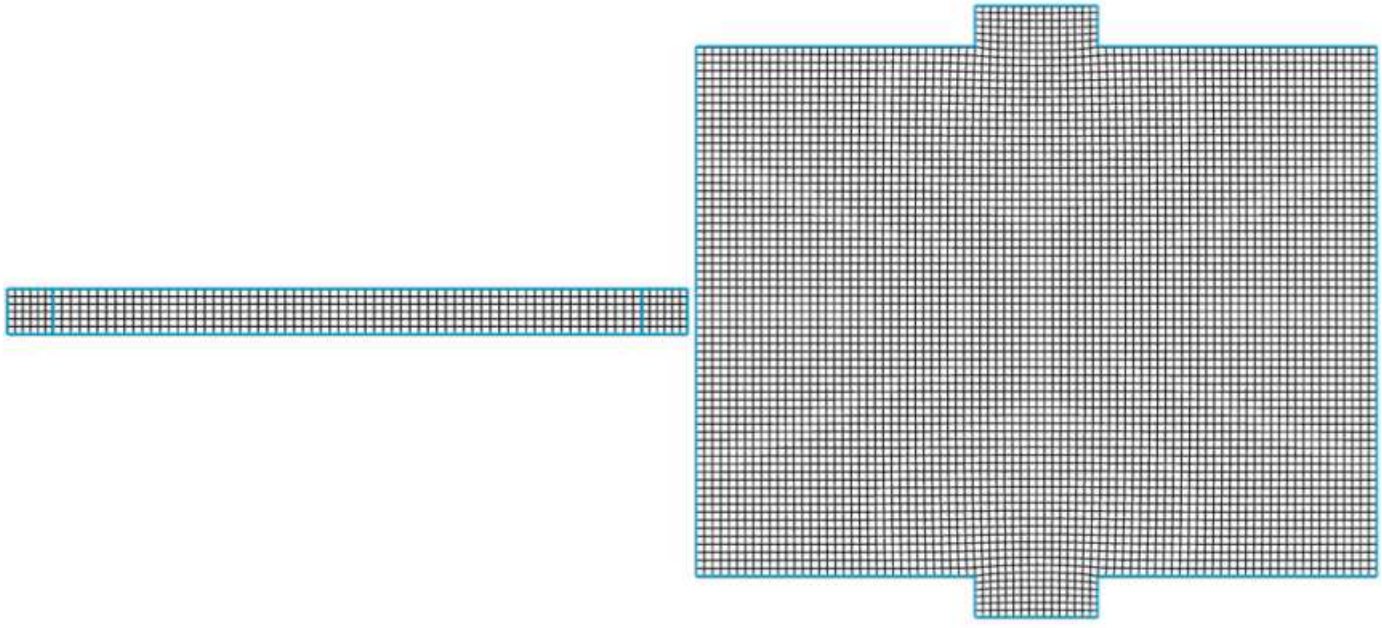
Model: 00000301 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 5.60015 sec to generate the unstructured mesh, 0.857218 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13264	13998	32	0
Quasi-structured	13416	14150	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.267715	0.588415	0.841795	0.697185	0.989691	0.999645
Quasi-structured	0.5	0.583432	0.640115	0.977551	0.997862	0.999898



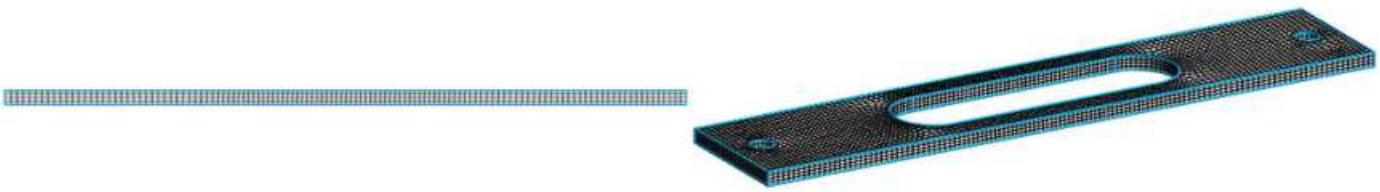


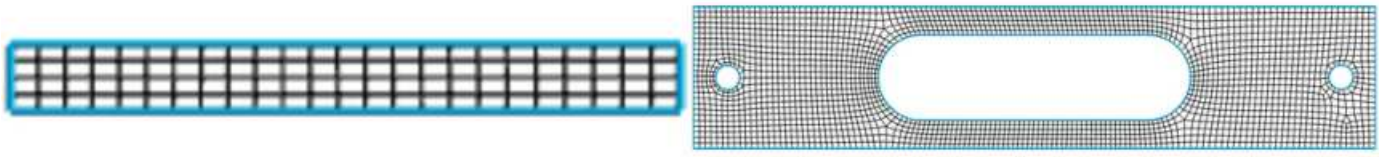
Model: 00000329 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 24 singularities detected
Timings: 4.61081 sec to generate the unstructured mesh, 0.90898 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6464	7472	94	10
Quasi-structured	6624	7632	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.18834	0.584556	1.11759	0.529232	0.957403	0.976571
Quasi-structured	0.297074	0.576242	1.16222	0.697448	0.963986	0.982552



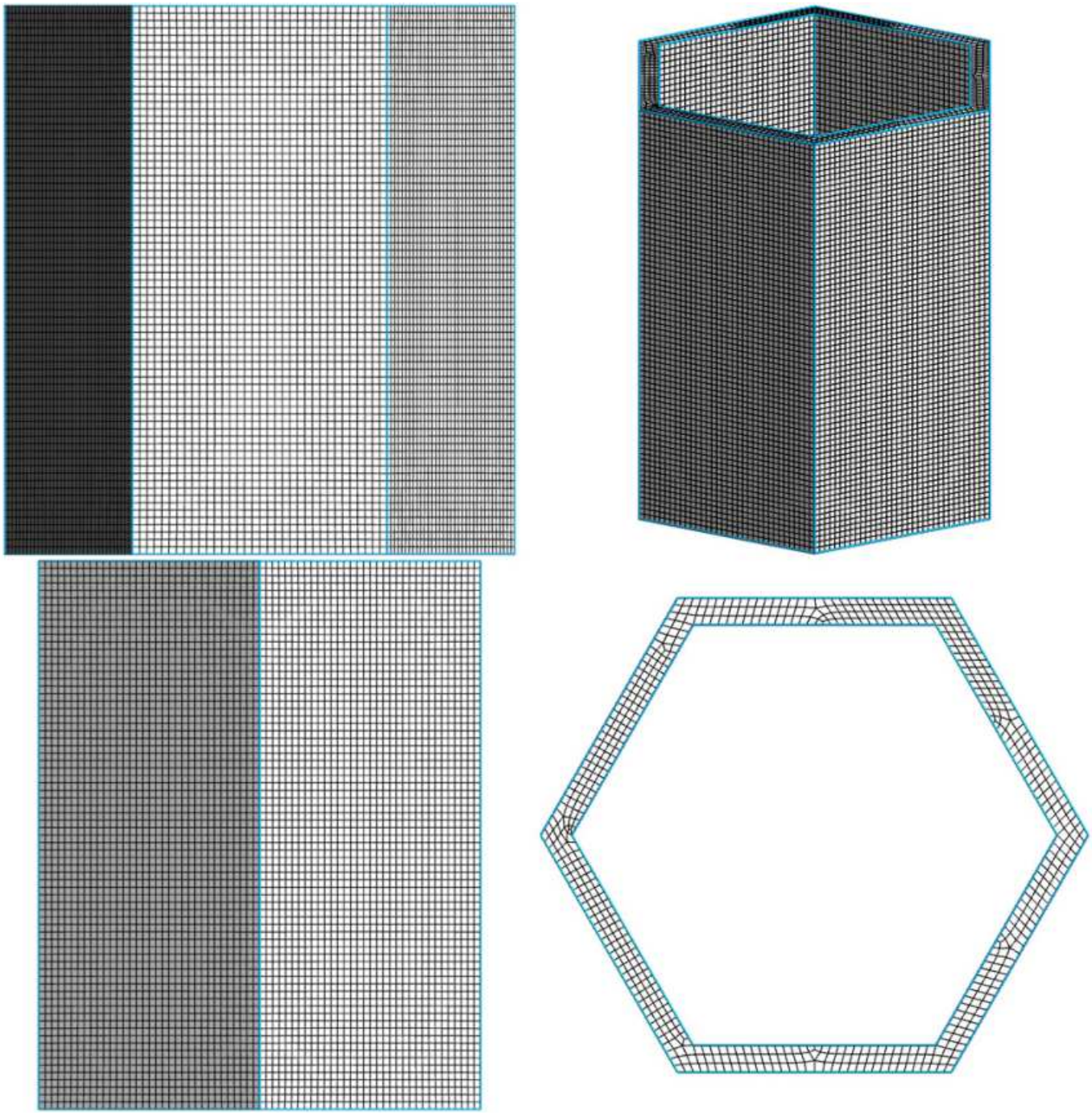


Model: 00000356 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 16.9243 sec to generate the unstructured mesh, 3.02227 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28840	30472	69	8
Quasi-structured	28793	30425	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.525825	1.53751	2.63049	0.422115	0.99348	0.999262
Quasi-structured	0.325092	1.53877	2.48378	0.470108	0.994571	0.999516

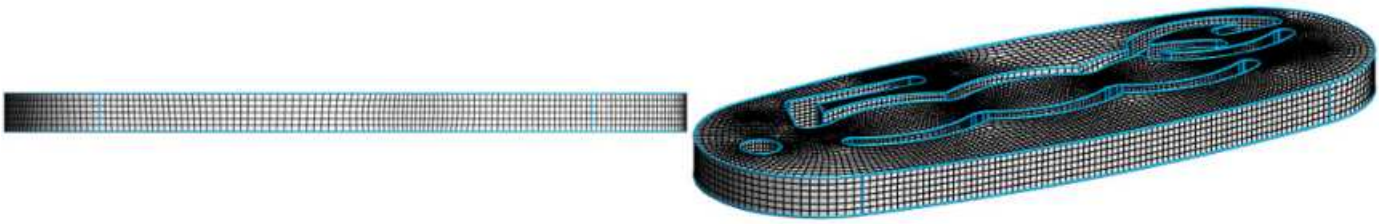


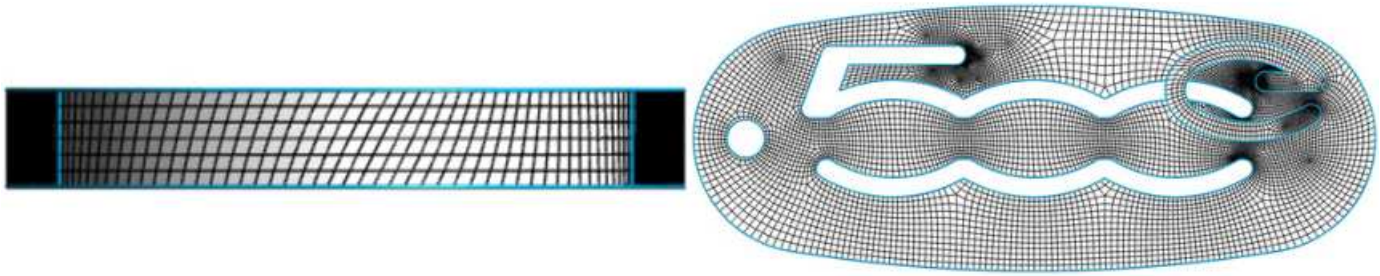
Model: 00000357 (from ABC dataset)
CAD: 138 corners, 209 curves, 72 faces
Cross field: 52 singularities detected
Timings: 11.7983 sec to generate the unstructured mesh, 16.2611 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30430	34260	1689	62
Quasi-structured	32099	35929	303	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00246752	0.547839	2.02413	0.0225551	0.91736	0.967673
Quasi-structured	0.0177077	0.530211	2.00991	0.128621	0.948529	0.975003



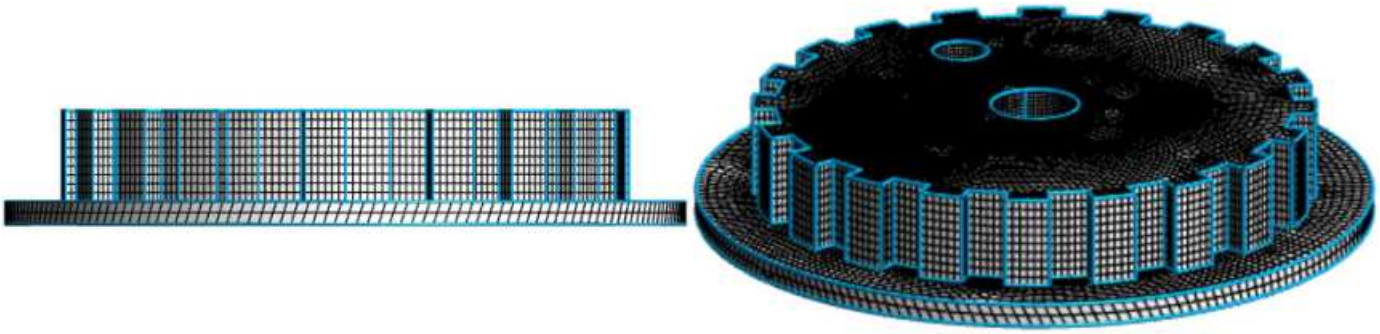


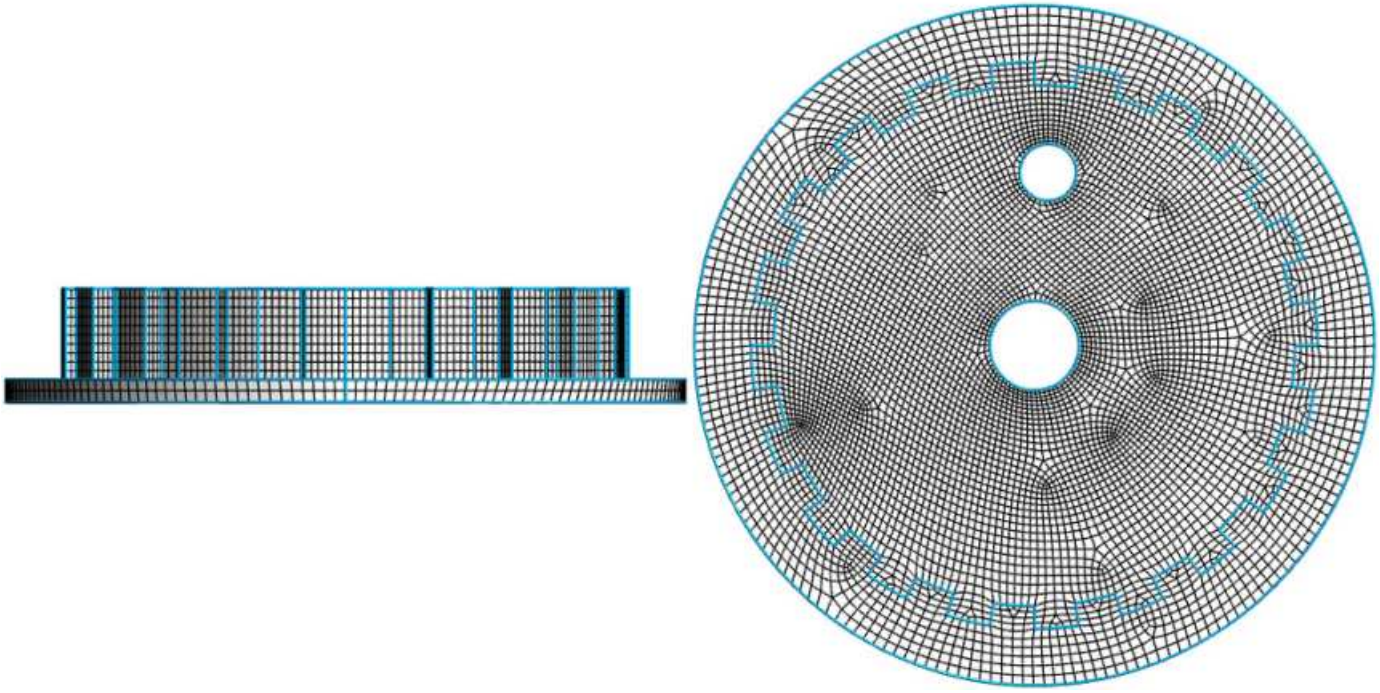
Model: 00000377 (from ABC dataset)
CAD: 167 corners, 250 curves, 86 faces
Cross field: 16 singularities detected
Timings: 11.9137 sec to generate the unstructured mesh, 6.4558 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18442	20710	352	90
Quasi-structured	18642	20910	108	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0960478	0.413798	1.05752	0.430553	0.953733	0.979016
Quasi-structured	0.115881	0.411289	0.98359	0.621252	0.969145	0.988254



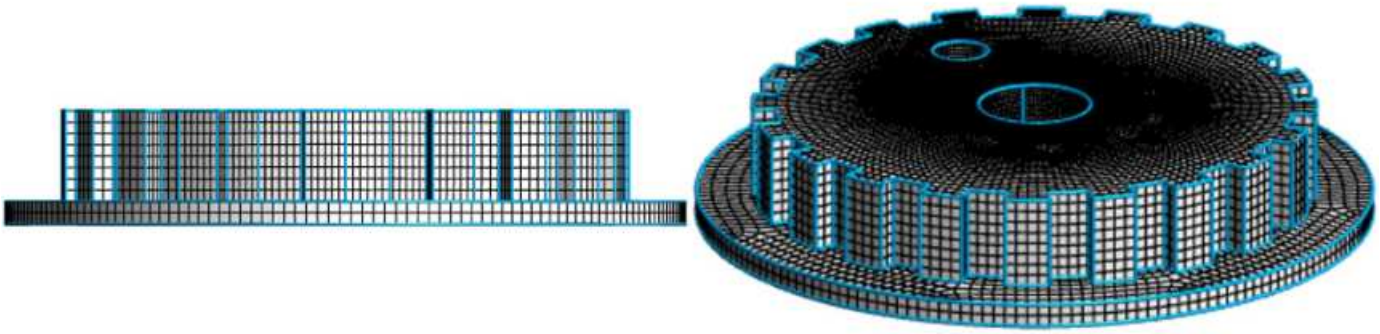


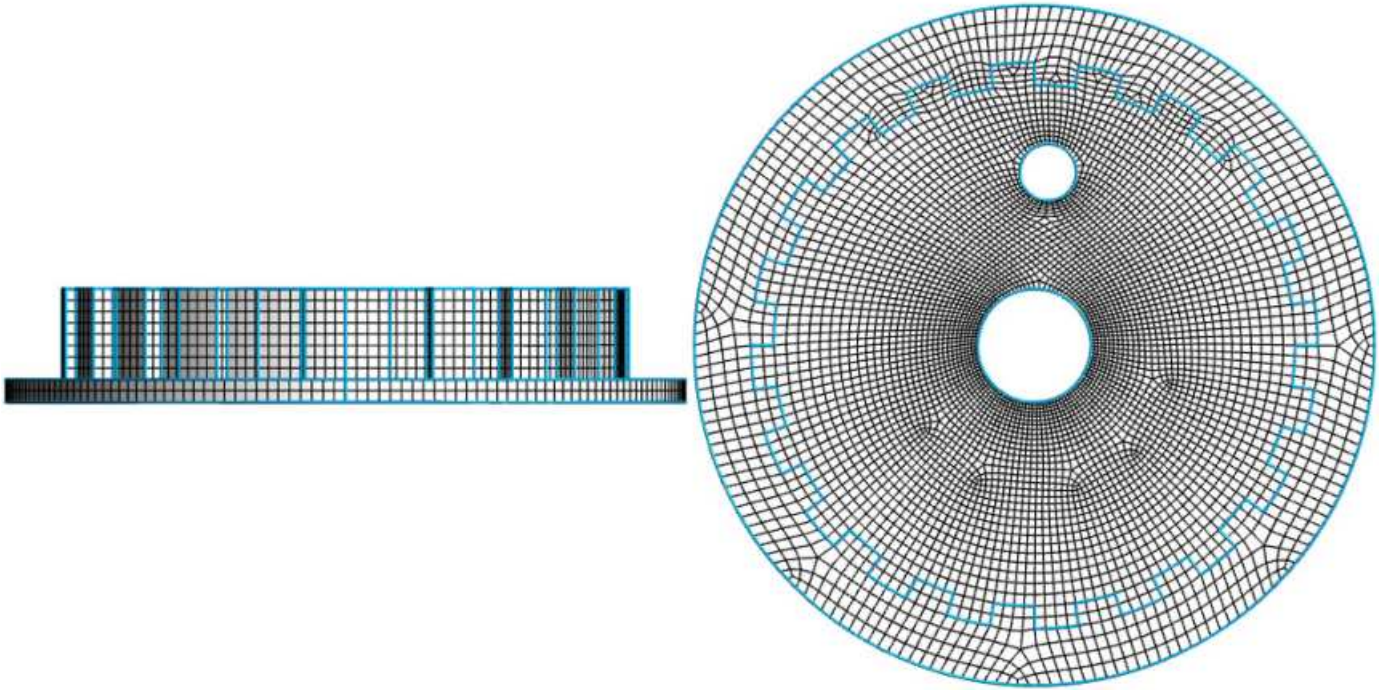
Model: 00000378 (from ABC dataset)
CAD: 167 corners, 250 curves, 86 faces
Cross field: 8 singularities detected
Timings: 16.7643 sec to generate the unstructured mesh, 16.5095 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18366	20310	228	71
Quasi-structured	18456	20400	64	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0685998	0.389282	0.99818	0.447695	0.963851	0.989308
Quasi-structured	0.120603	0.388921	1.13427	0.569724	0.977352	0.991433



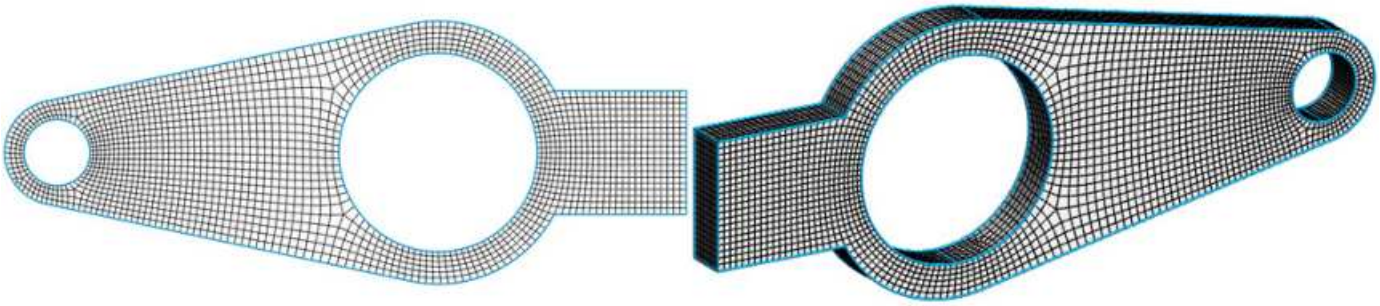


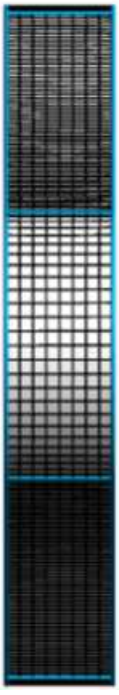
Model: 00000389 (from ABC dataset)
CAD: 22 corners, 32 curves, 12 faces
Cross field: 8 singularities detected
Timings: 5.23747 sec to generate the unstructured mesh, 1.04408 sec to make it quasi-structured
Mesh topology:

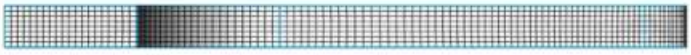
	# quads	# vertices	# irregular	# very irregular
Unstructured	6870	7726	79	20
Quasi-structured	7156	8012	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.03743	3.74445	7.23025	0.410698	0.968955	0.987547
Quasi-structured	1.79034	3.66226	9.38927	0.771545	0.980911	0.993228





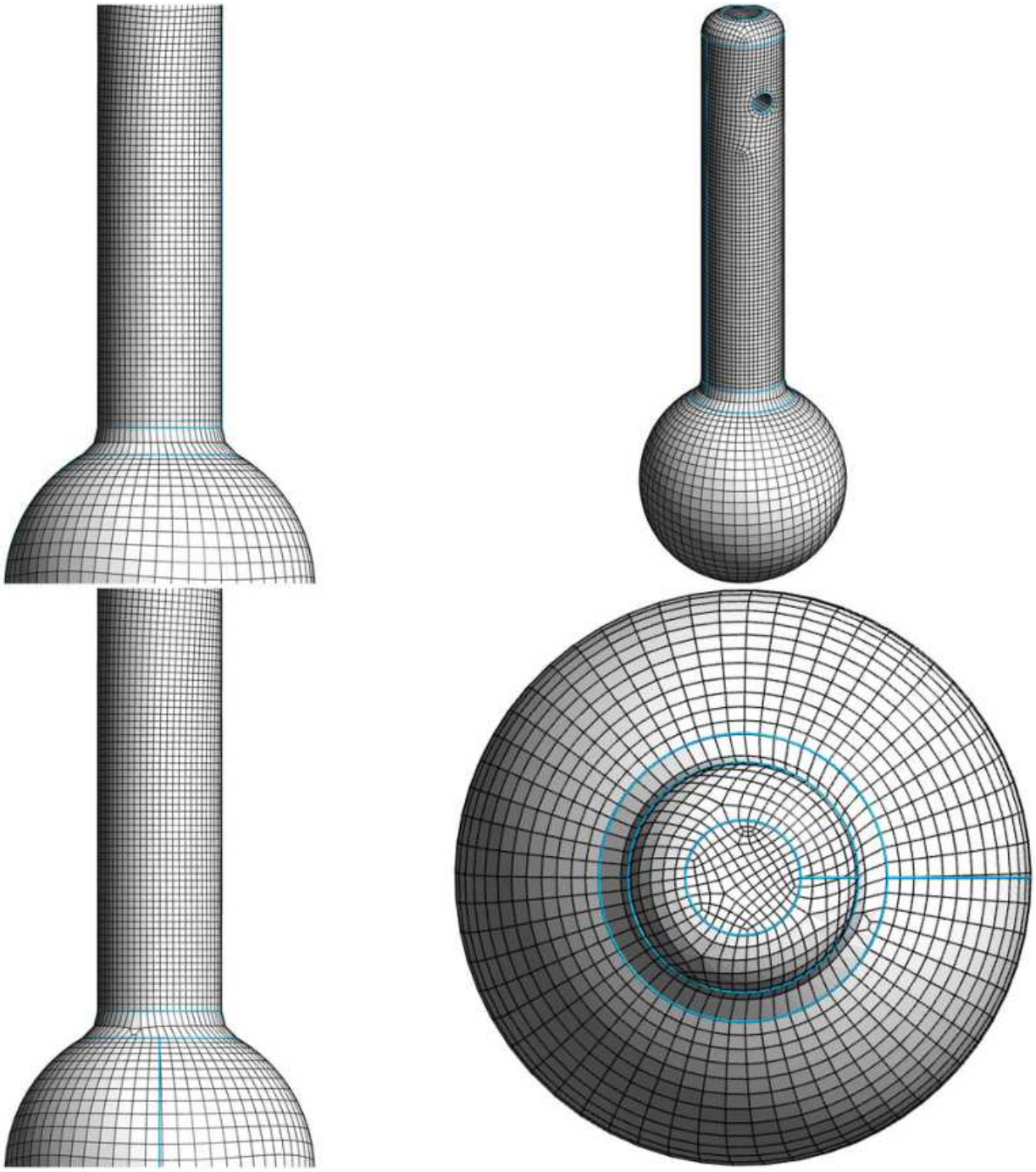


Model: 00000407 (from ABC dataset)
CAD: 9 corners, 14 curves, 6 faces
Cross field: 16 singularities detected
Timings: 8.01546 sec to generate the unstructured mesh, 2.84816 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6850	7100	147	145
Quasi-structured	6897	7147	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.121742	0.847296	4.41561	0.157529	0.961369	0.998354
Quasi-structured	0.2325	0.841319	2.09814	0.626373	0.987322	0.999009

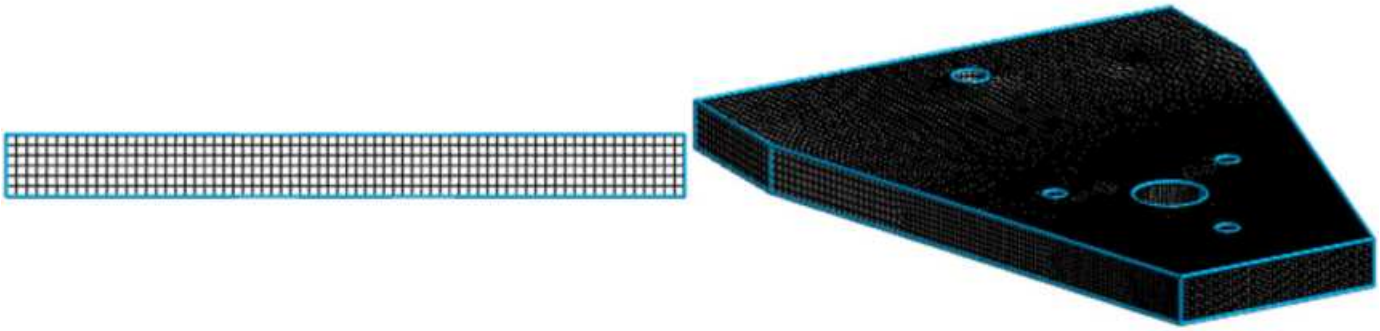


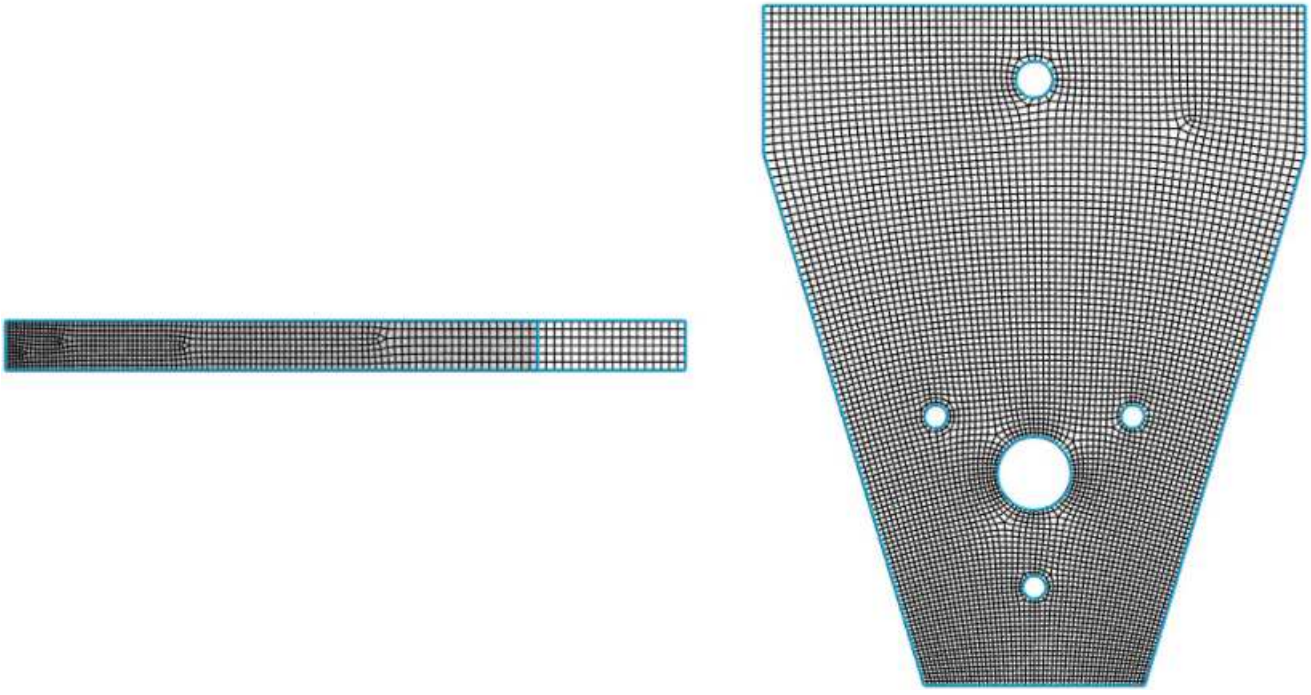
Model: 00000413 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 40 singularities detected
Timings: 16.6628 sec to generate the unstructured mesh, 3.53611 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18520	19536	266	57
Quasi-structured	18456	19472	62	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.226785	0.767198	1.56673	0.507984	0.977269	0.996678
Quasi-structured	0.310643	0.76761	1.94056	0.617134	0.993489	0.998342



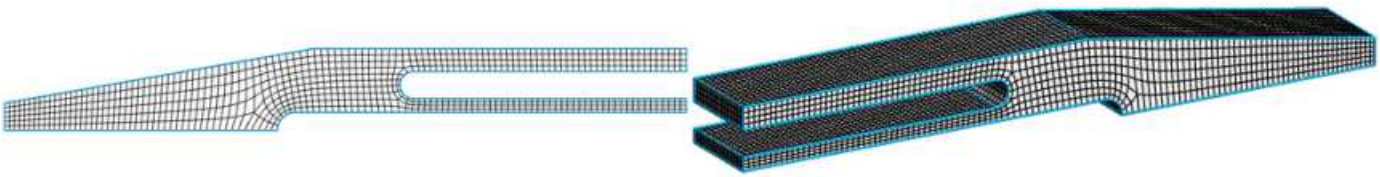


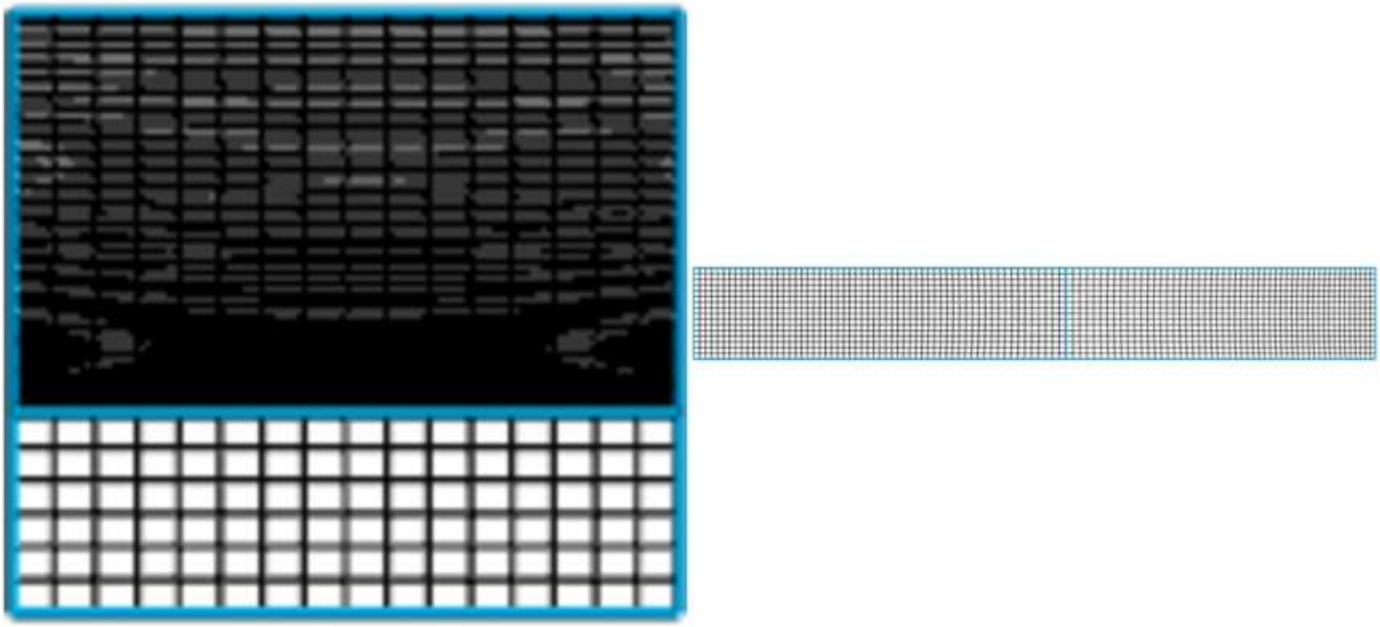
Model: 00000418 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 6 singularities detected
Timings: 4.27096 sec to generate the unstructured mesh, 0.408233 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7204	8081	42	1
Quasi-structured	7192	8069	6	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.24222	0.646927	1.03911	0.478969	0.988222	0.998415
Quasi-structured	0.332914	0.647086	2.23292	0.516566	0.980258	0.997852



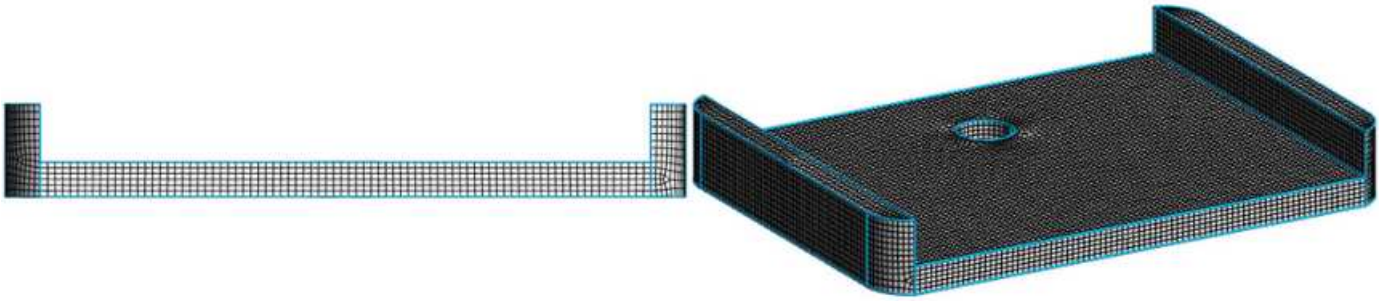


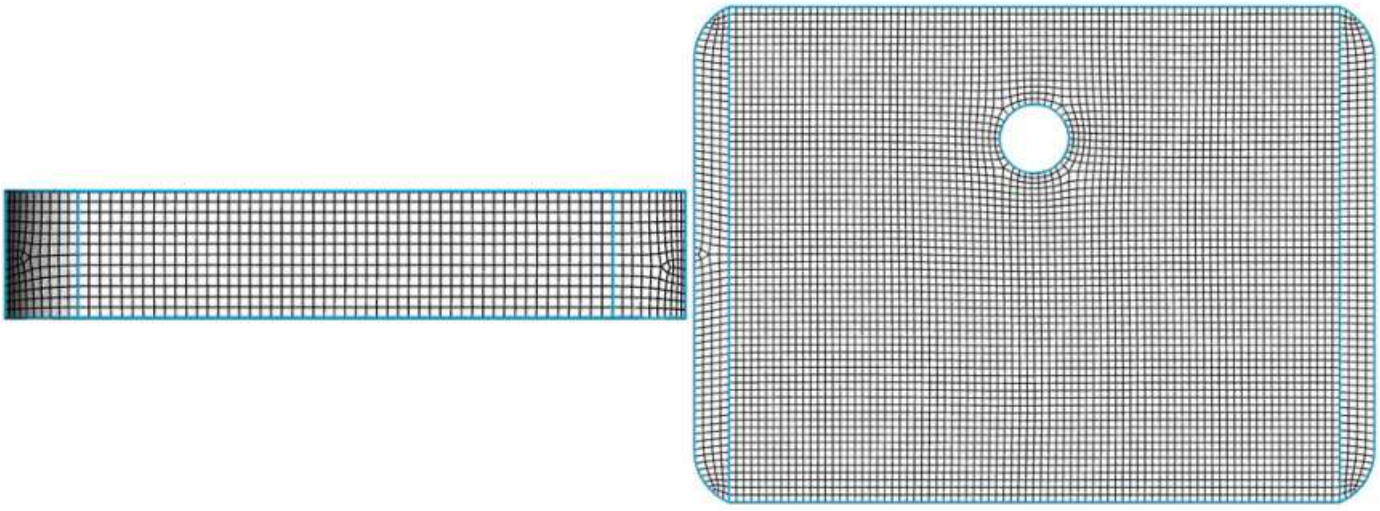
Model: 00000423 (from ABC dataset)
CAD: 22 corners, 35 curves, 15 faces
Cross field: 16 singularities detected
Timings: 12.9766 sec to generate the unstructured mesh, 2.05789 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15620	16680	118	6
Quasi-structured	15804	16864	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.247777	0.647125	1.08463	0.613496	0.984511	0.999651
Quasi-structured	0.258676	0.642129	1.12425	0.725611	0.994055	0.999636



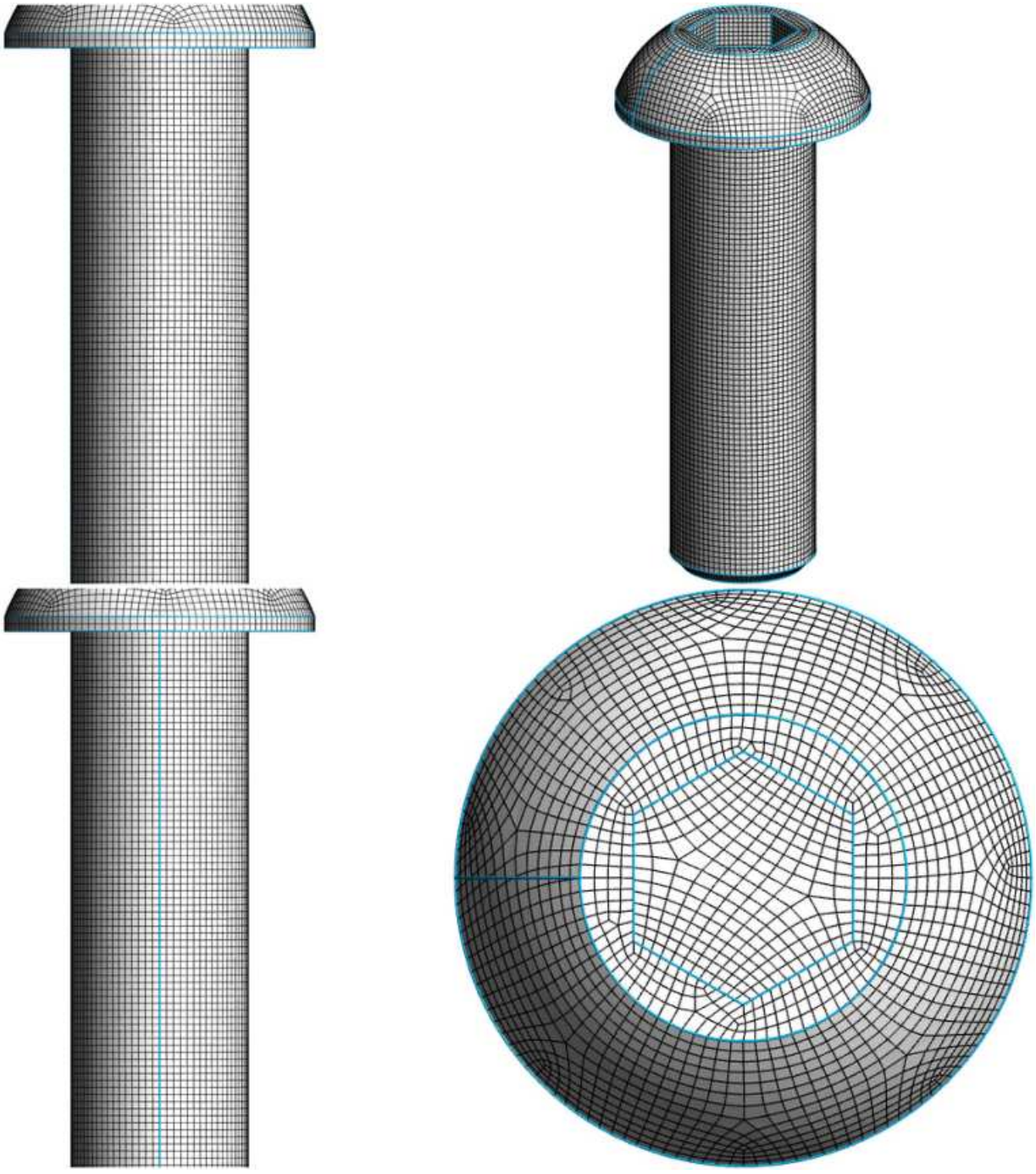


Model: 00000462 (from ABC dataset)
CAD: 19 corners, 29 curves, 14 faces
Cross field: 12 singularities detected
Timings: 9.16714 sec to generate the unstructured mesh, 3.08472 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11498	12306	164	102
Quasi-structured	11541	12349	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.140186	0.466628	0.806488	0.526611	0.981017	0.999124
Quasi-structured	0.153229	0.46548	1.02054	0.634641	0.988972	0.999803

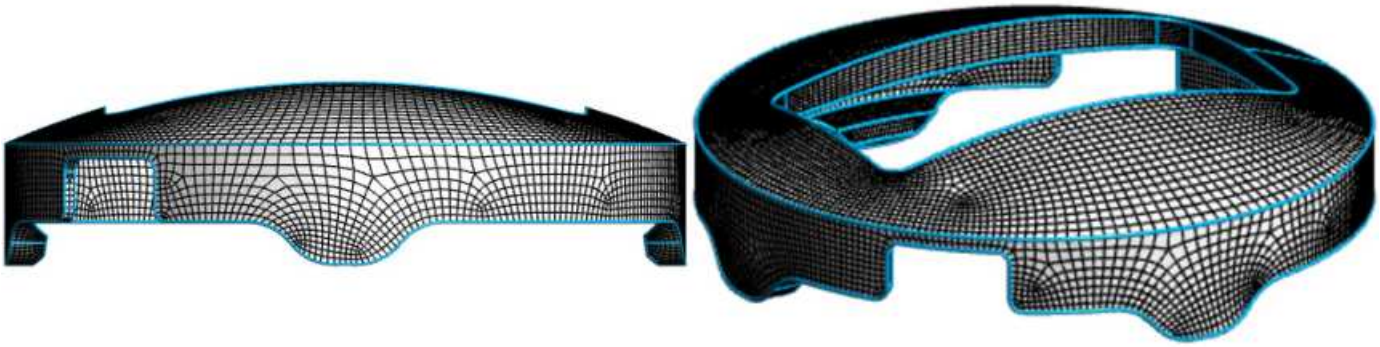


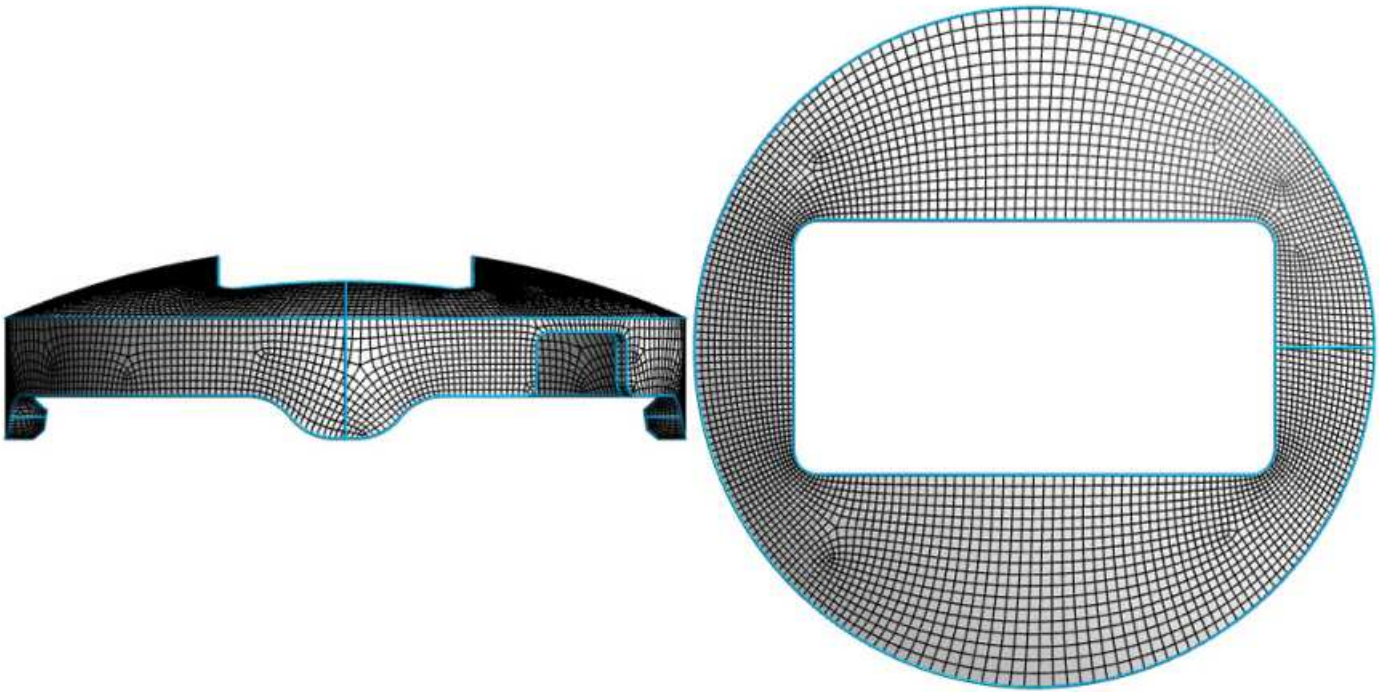
Model: 00000523 (from ABC dataset)
CAD: 116 corners, 181 curves, 65 faces
Cross field: 40 singularities detected
Timings: 13.5705 sec to generate the unstructured mesh, 6.29678 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16802	19124	587	51
Quasi-structured	17165	19487	210	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0628447	0.627466	1.43259	0.0345032	0.920247	0.978376
Quasi-structured	0.0628447	0.61617	1.9065	0.119809	0.94004	0.982445



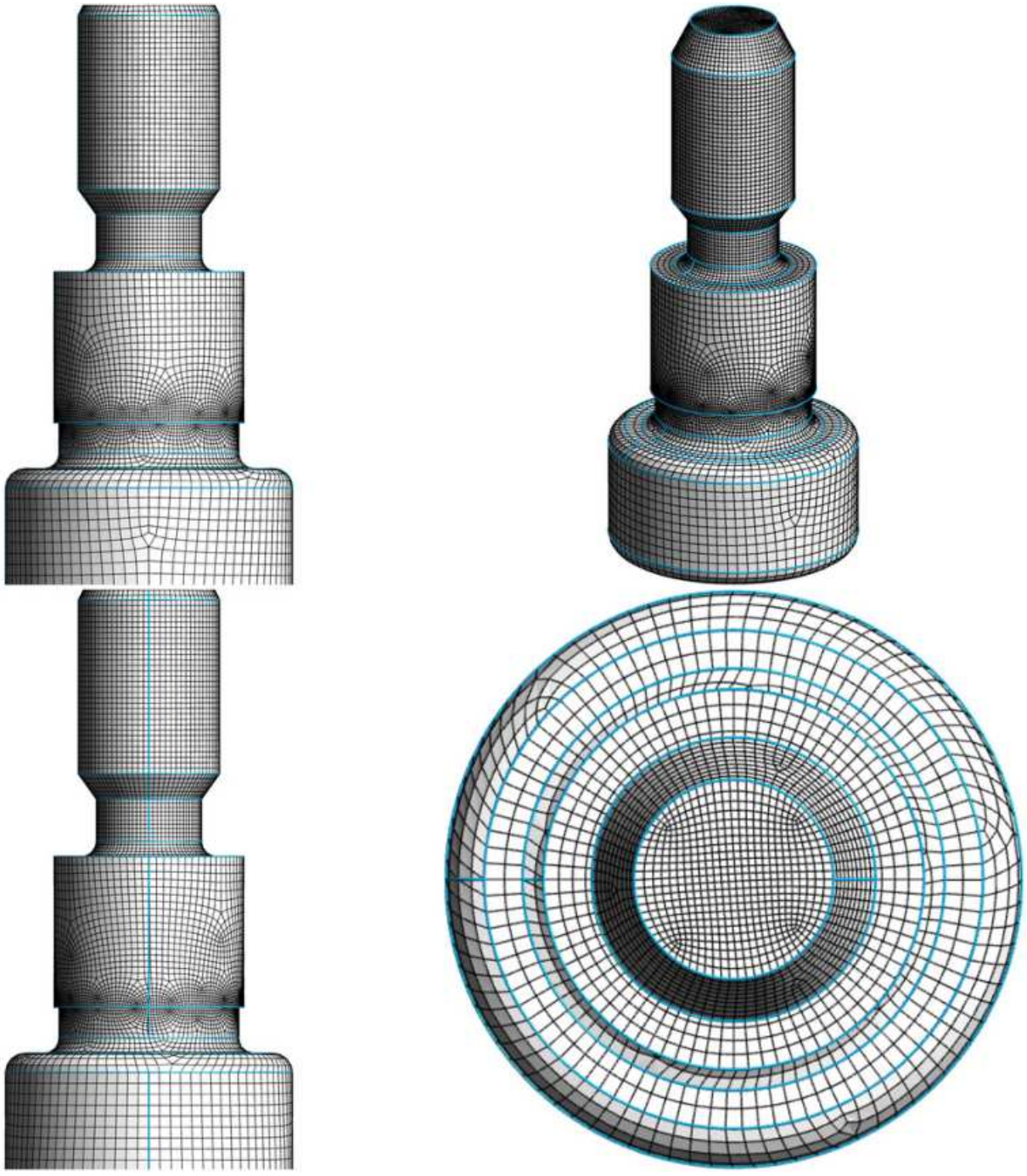


Model: 00000549 (from ABC dataset)
CAD: 18 corners, 29 curves, 16 faces
Cross field: 8 singularities detected
Timings: 5.58945 sec to generate the unstructured mesh, 16.2136 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14298	15878	347	137
Quasi-structured	14336	15916	104	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0367385	0.179342	0.406477	0.366341	0.962091	0.995469
Quasi-structured	0.029703	0.178655	0.514961	0.523586	0.981364	0.995592

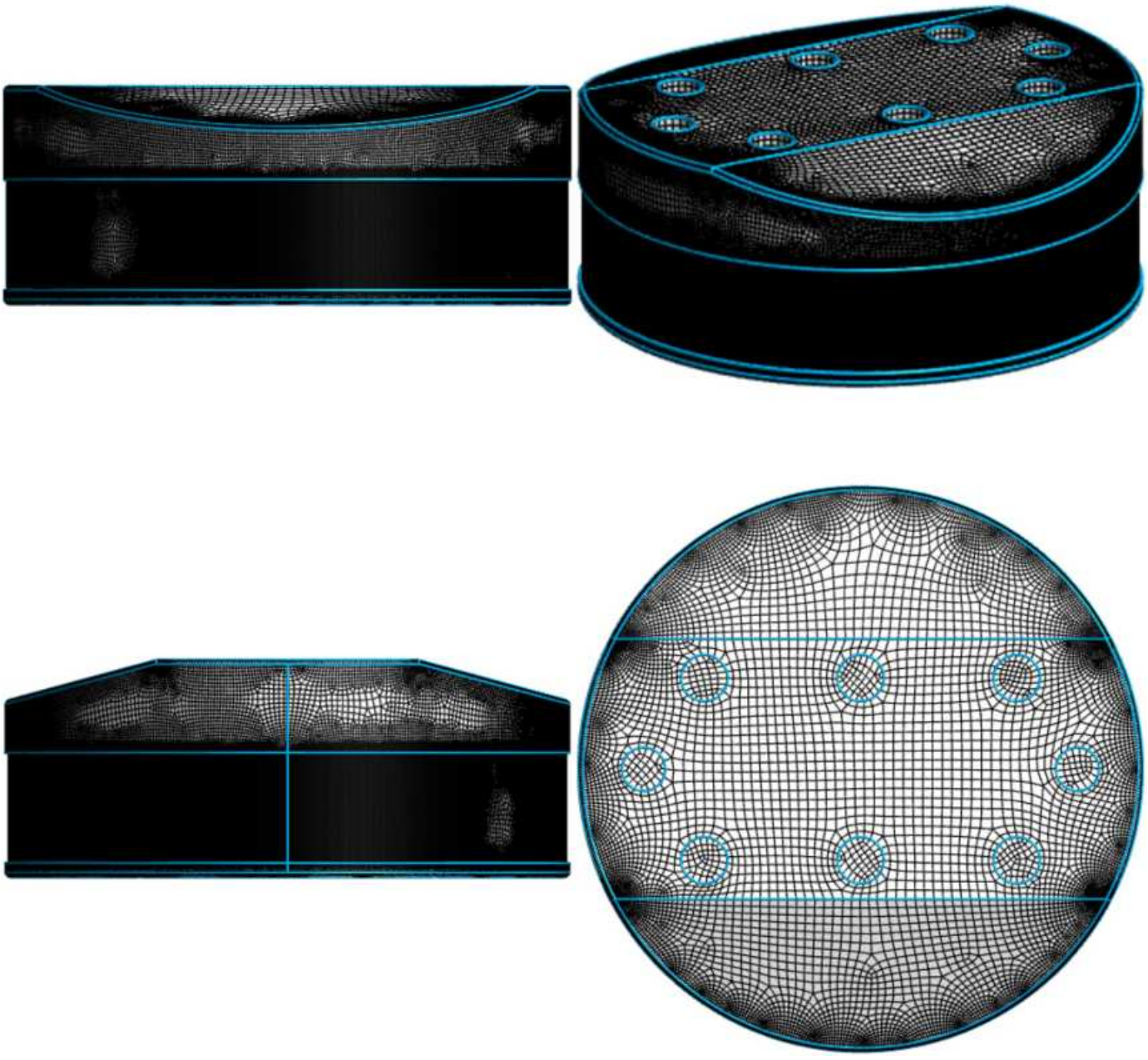


Model: 00000552 (from ABC dataset)
CAD: 88 corners, 134 curves, 70 faces
Cross field: 124 singularities detected
Timings: 29.6437 sec to generate the unstructured mesh, 565.972 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	102364	112666	4751	864
Quasi-structured	119670	129972	1897	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0462163	0.664129	3.30461	0.0988071	0.906559	0.977848
Quasi-structured	0.040876	0.62552	4.00408	0.116875	0.866451	0.901474

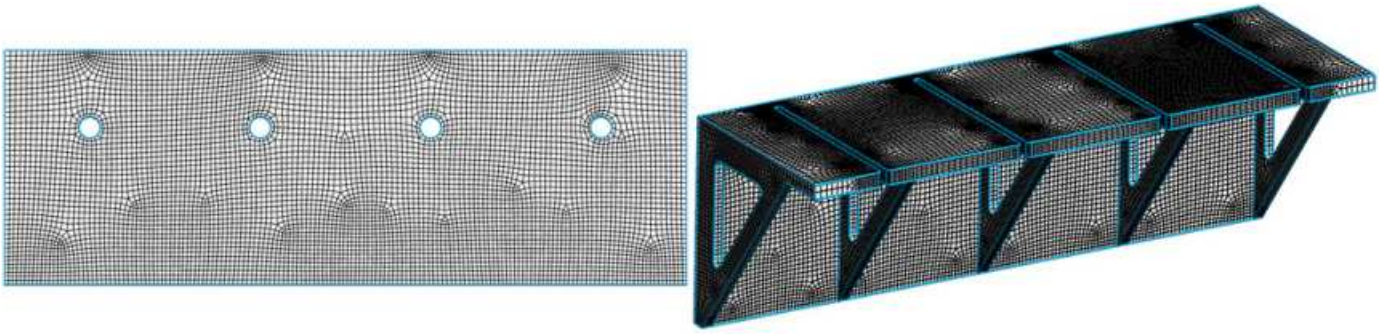


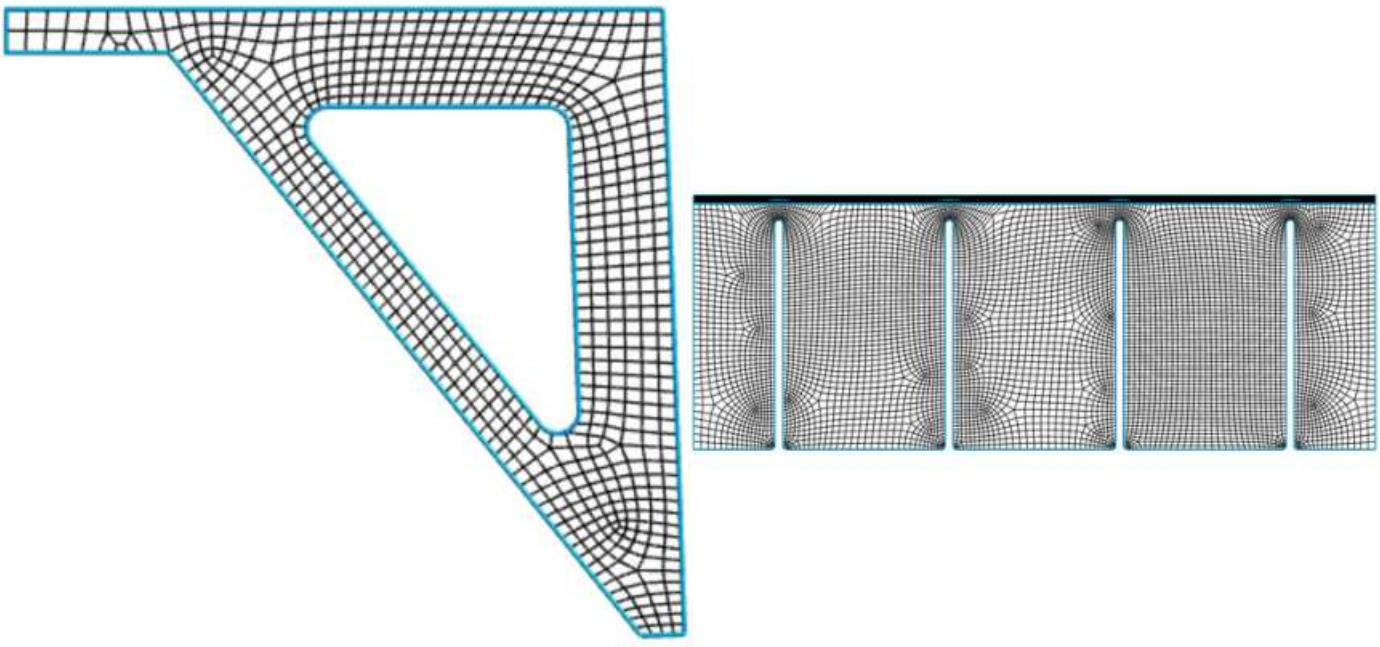
Model: 00000562 (from ABC dataset)
CAD: 156 corners, 236 curves, 82 faces
Cross field: 98 singularities detected
Timings: 26.4968 sec to generate the unstructured mesh, 36.7043 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	43668	48714	2020	70
Quasi-structured	42803	47849	542	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0363869	0.994737	2.42199	0.184874	0.939391	0.97859
Quasi-structured	0.0332647	1.01429	4.00443	0.322313	0.953308	0.980991



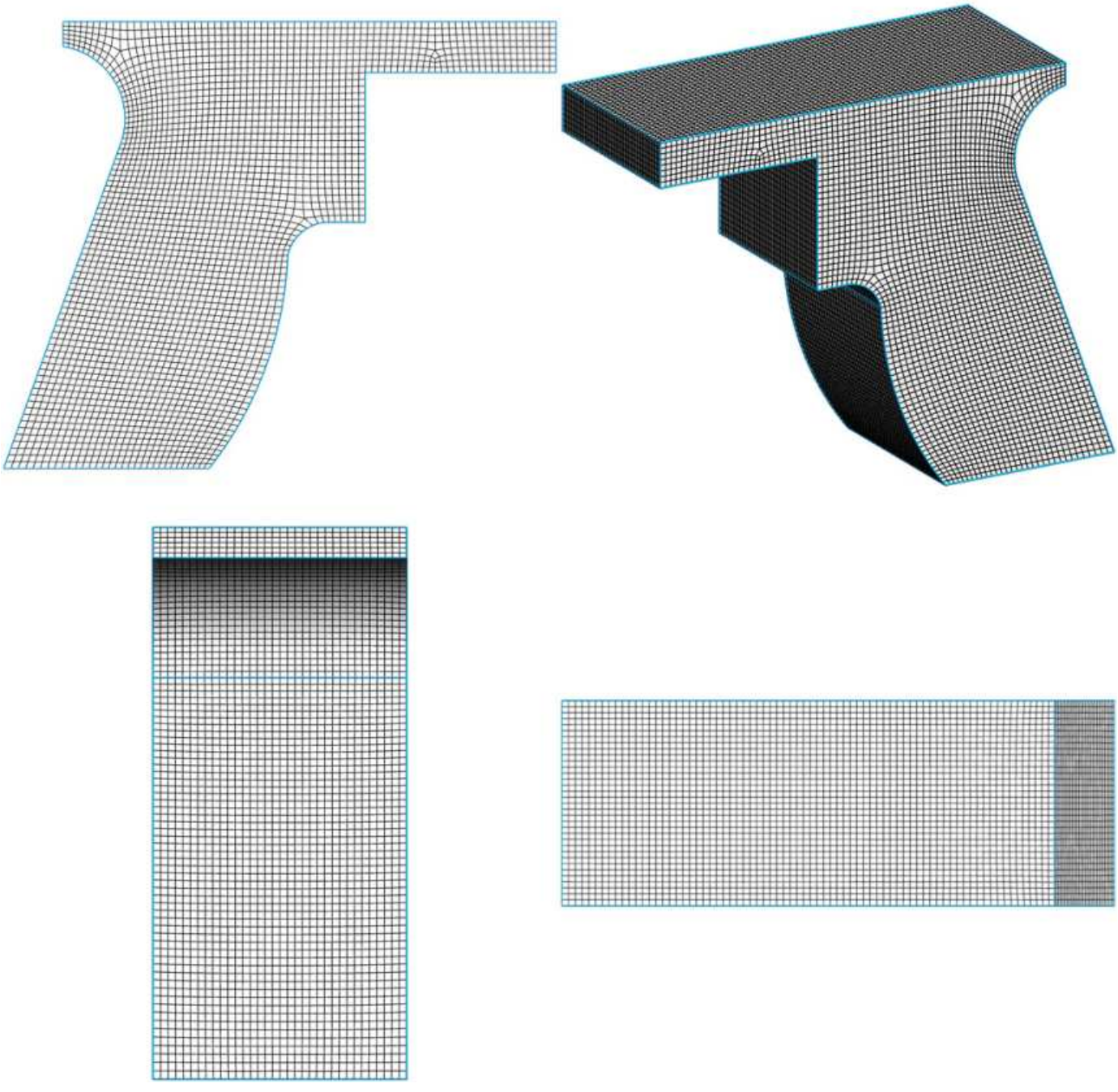


Model: 00000568 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 4 singularities detected
Timings: 11.6578 sec to generate the unstructured mesh, 2.16631 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15730	16721	66	2
Quasi-structured	15856	16847	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.359888	0.935251	1.7039	0.613049	0.989989	0.995547
Quasi-structured	0.57134	0.9339	2.1931	0.715484	0.987966	0.994517

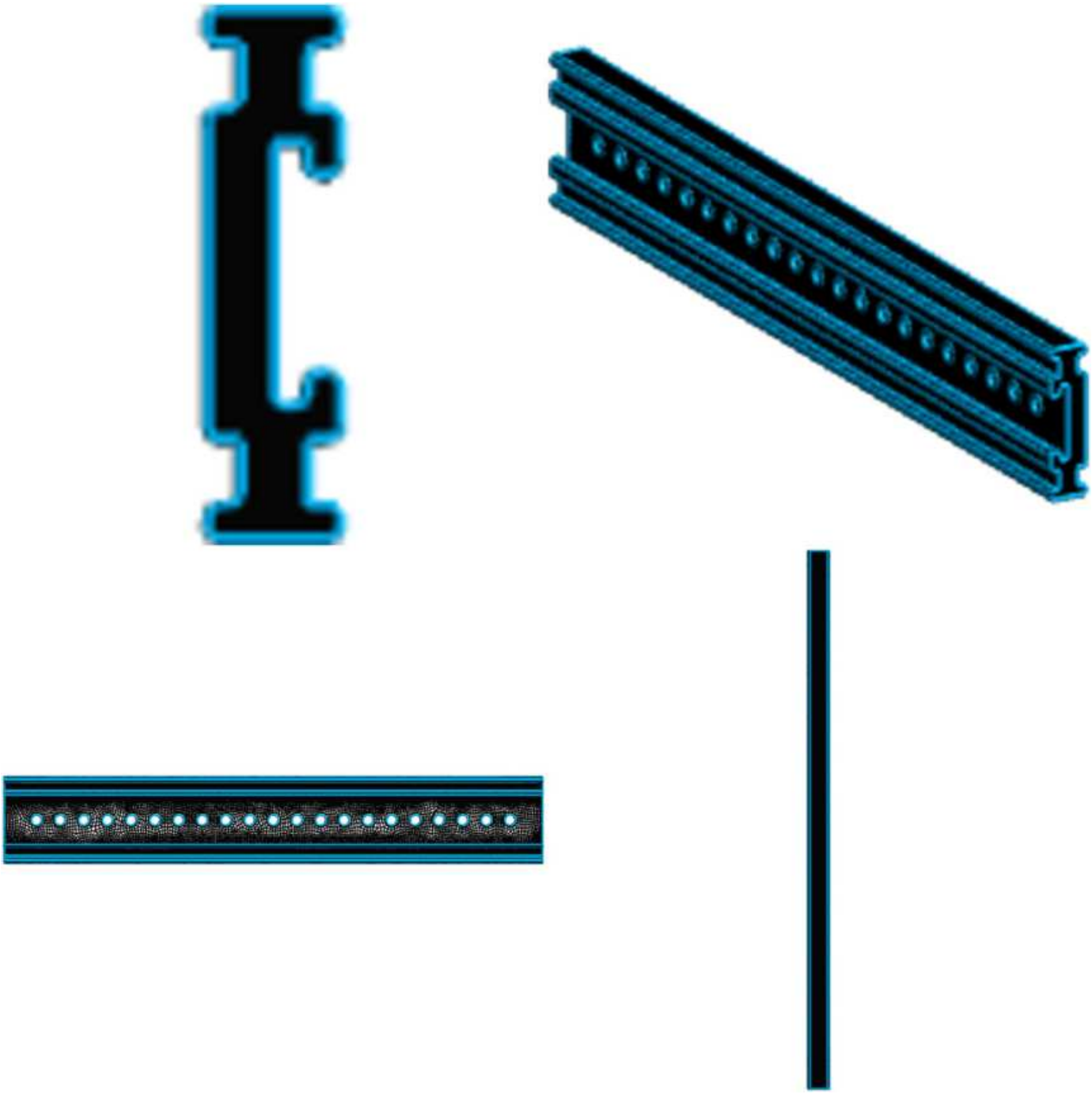


Model: 00000587 (from ABC dataset)
CAD: 161 corners, 231 curves, 72 faces
Cross field: 210 singularities detected
Timings: 22.2401 sec to generate the unstructured mesh, 2768.02 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	210688	249093	9040	588
Quasi-structured	209689	248094	6294	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0920069	0.744915	4.38279	0.208737	0.930677	0.98836
Quasi-structured	0.0344065	0.745137	5.96001	0.1484	0.939595	0.975356



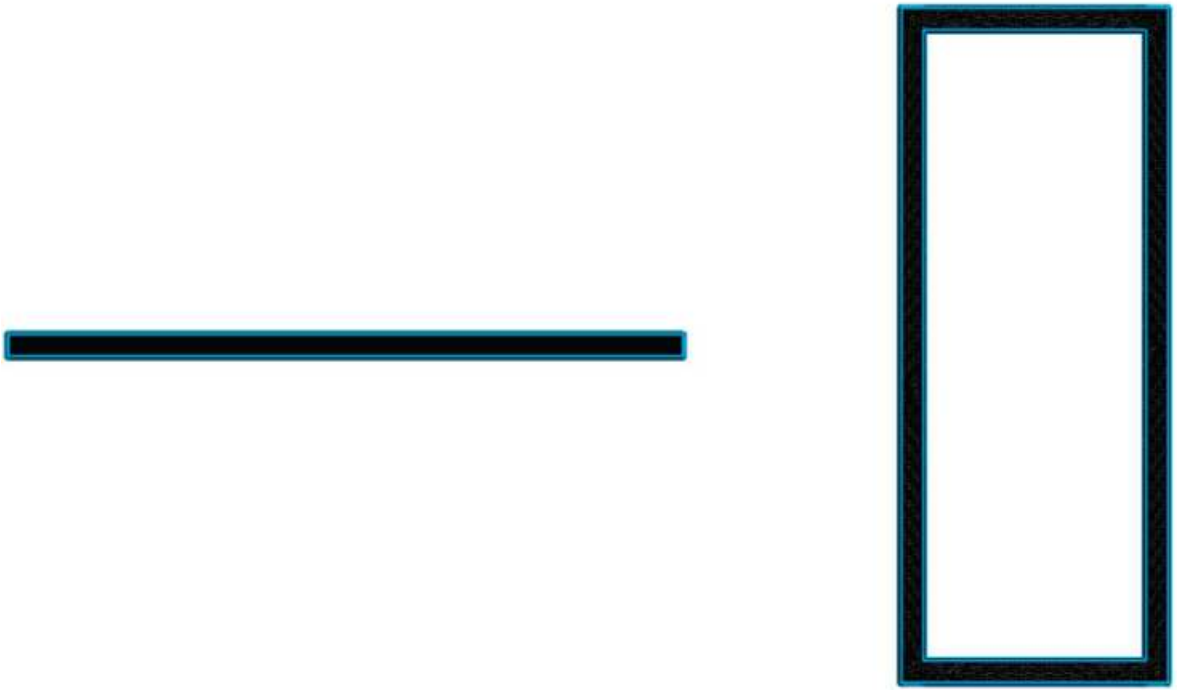
Model: 00000589 (from ABC dataset)
CAD: 136 corners, 240 curves, 98 faces
Cross field: 43 singularities detected
Timings: 15.2699 sec to generate the unstructured mesh, 17.4593 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	111574	126486	558	54
Quasi-structured	113569	128481	178	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.193084	1.28316	5.35364	0.191356	0.829931	0.863417
Quasi-structured	0.231027	1.27153	8.67125	0.336773	0.838563	0.858417



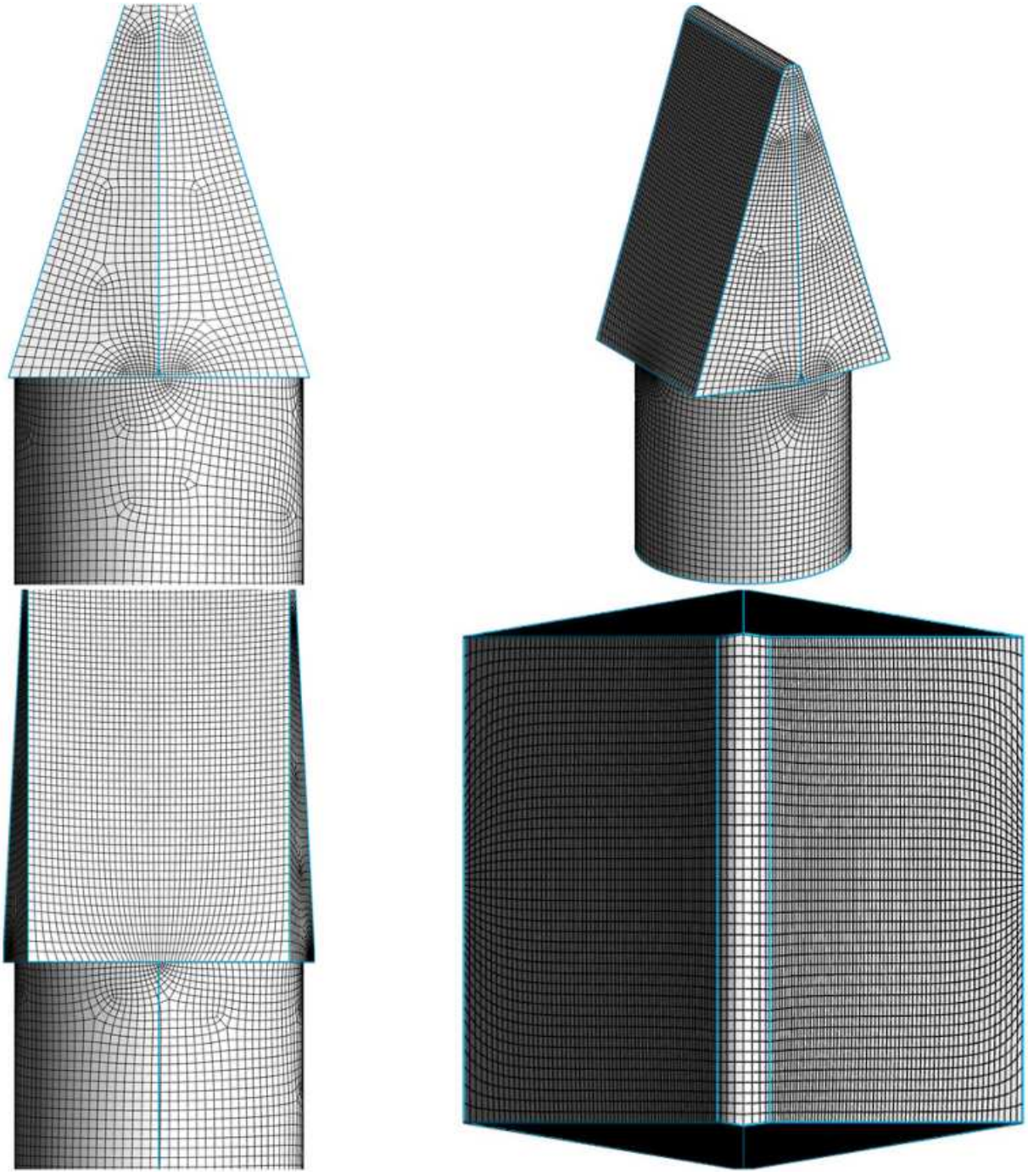


Model: 00000622 (from ABC dataset)
CAD: 20 corners, 30 curves, 14 faces
Cross field: 12 singularities detected
Timings: 8.16953 sec to generate the unstructured mesh, 3.61128 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18104	19238	271	81
Quasi-structured	18040	19174	88	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.037888	0.241244	0.562706	0.31305	0.956972	0.992704
Quasi-structured	0.0358045	0.240518	0.74158	0.31305	0.972961	0.995046

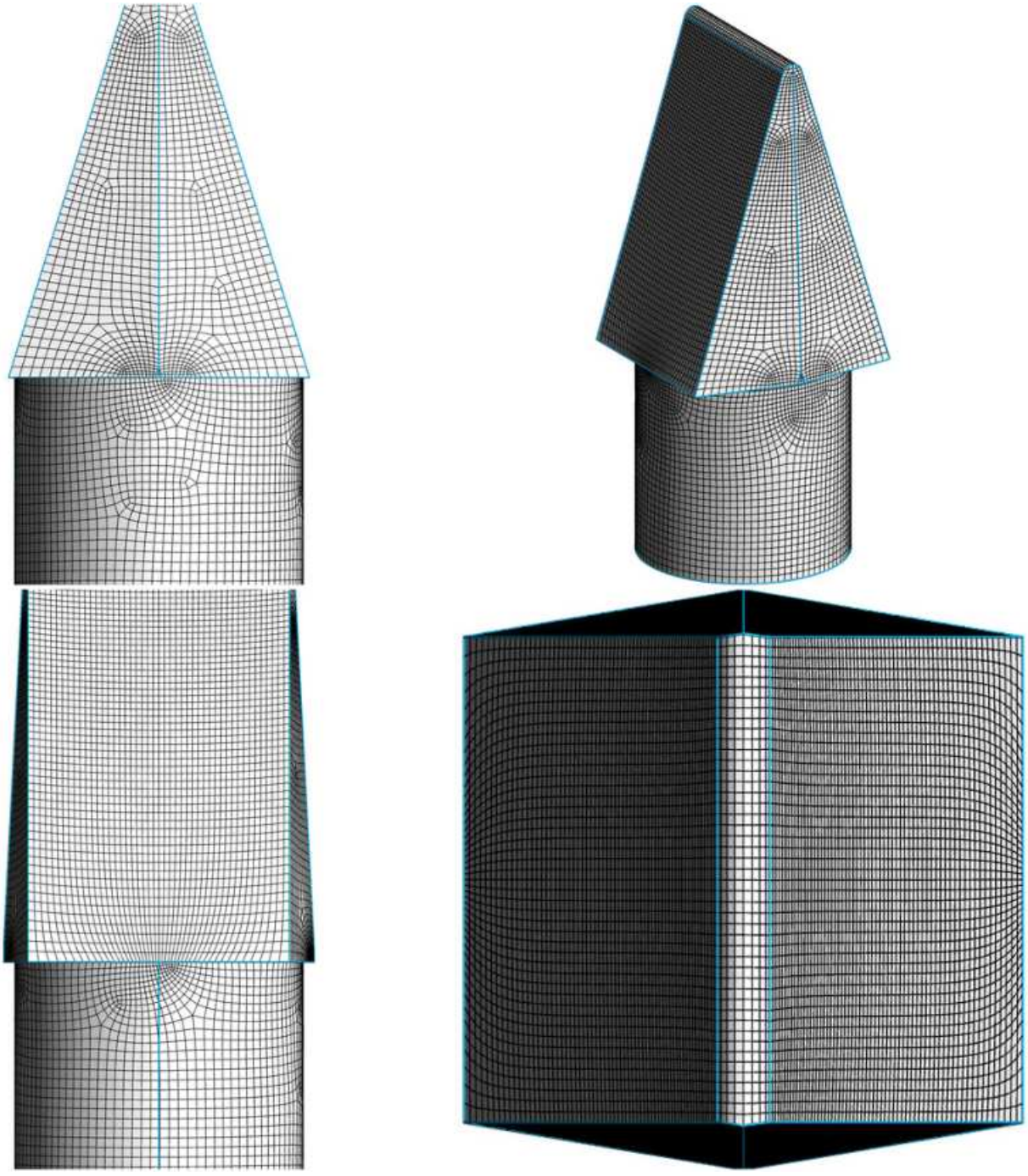


Model: 00000626 (from ABC dataset)
CAD: 20 corners, 30 curves, 14 faces
Cross field: 12 singularities detected
Timings: 12.6803 sec to generate the unstructured mesh, 7.50599 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18306	19440	278	82
Quasi-structured	18294	19428	88	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.037888	0.239997	0.563247	0.31305	0.957196	0.992612
Quasi-structured	0.0358045	0.239172	0.74158	0.31305	0.973627	0.994602

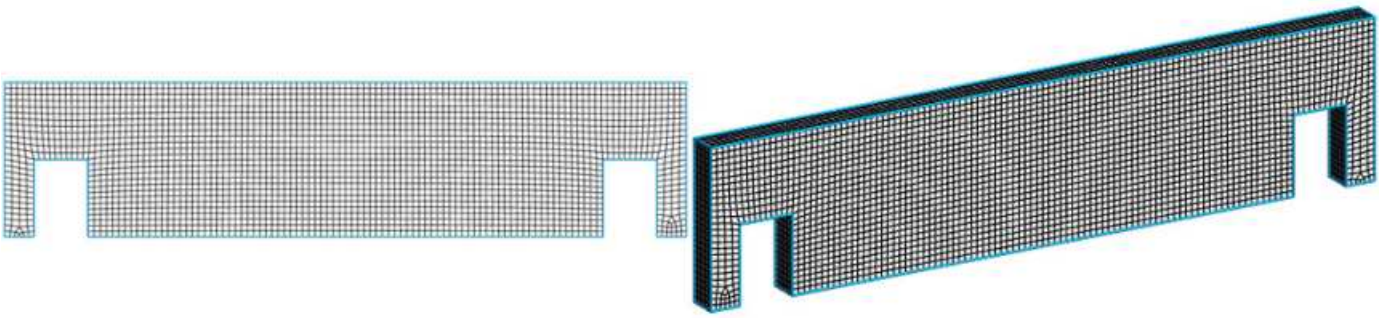


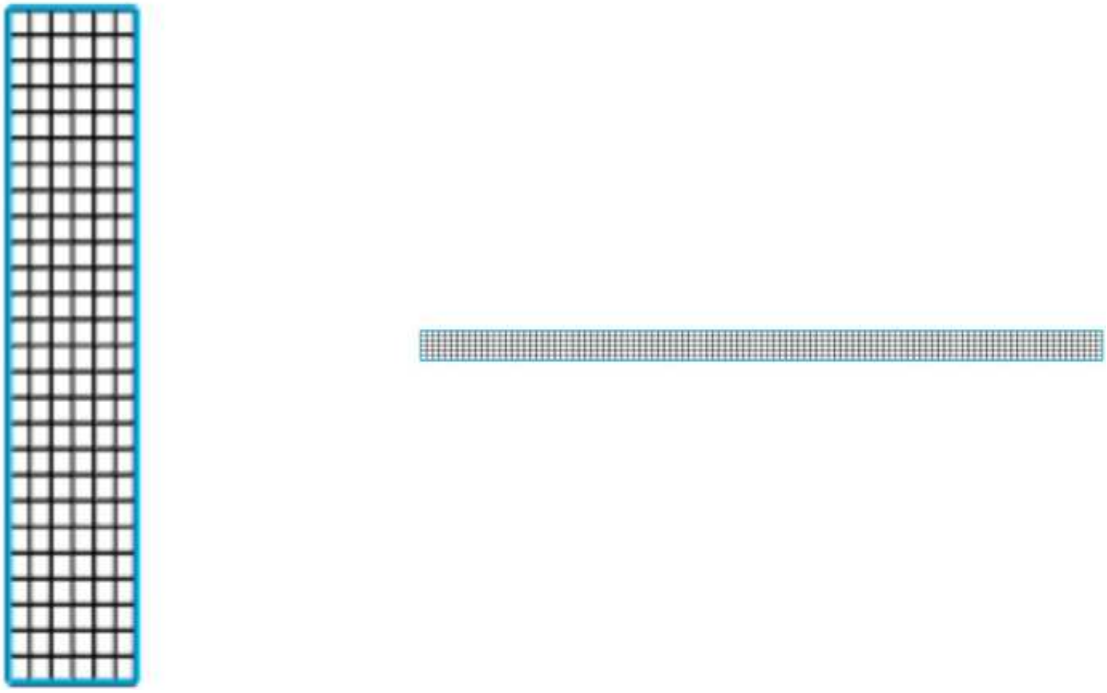
Model: 00000638 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 4.24262 sec to generate the unstructured mesh, 0.984951 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7010	7768	20	0
Quasi-structured	7300	8058	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.49895	3.88025	6.30433	0.685893	0.985737	0.9945
Quasi-structured	1.83785	3.80392	5.47964	0.77947	0.991883	0.998949



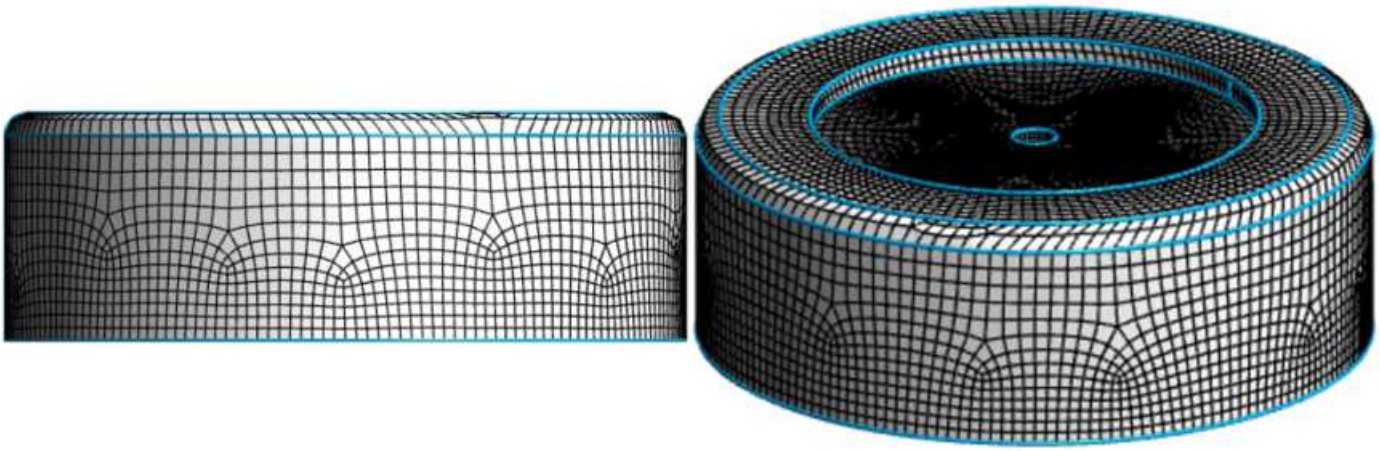


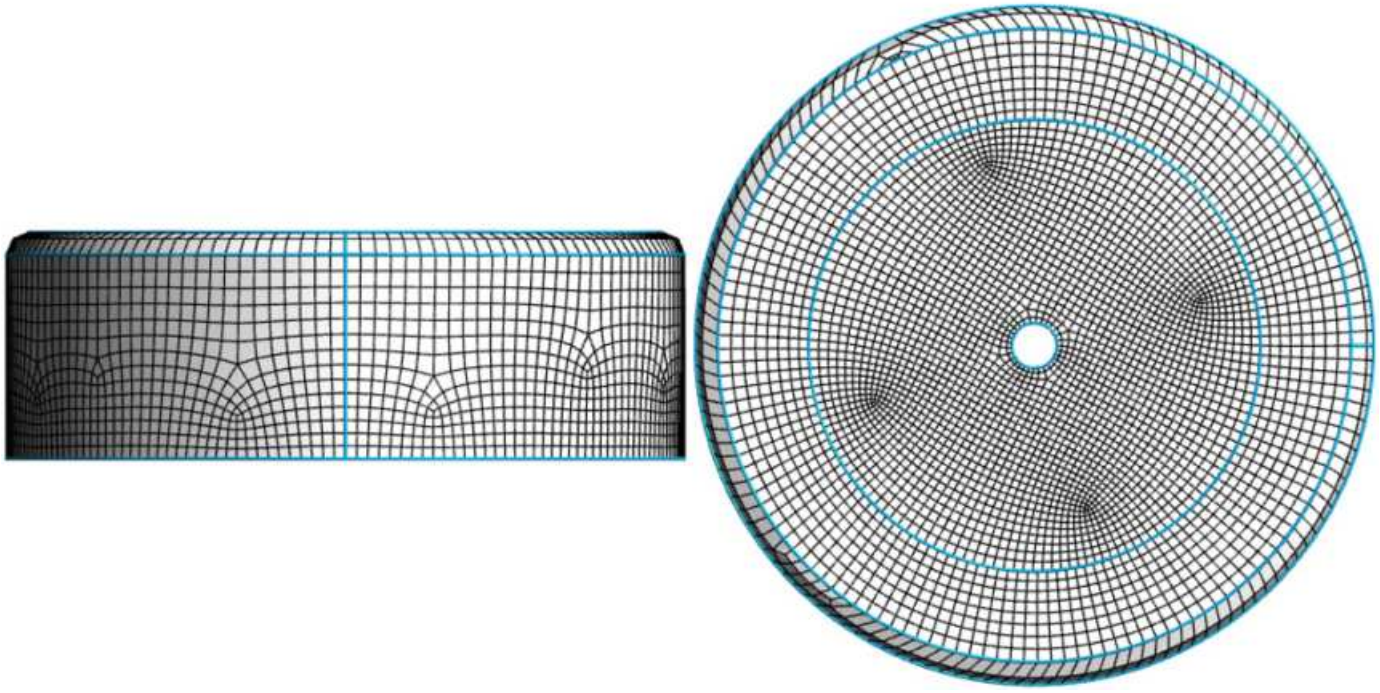
Model: 00000654 (from ABC dataset)
CAD: 13 corners, 20 curves, 13 faces
Cross field: 8 singularities detected
Timings: 11.9699 sec to generate the unstructured mesh, 9.59658 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21182	22800	330	151
Quasi-structured	21116	22734	124	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0547664	0.352814	1.02931	0.482594	0.972397	0.992853
Quasi-structured	0.0658943	0.352474	1.25791	0.331199	0.988019	0.996925



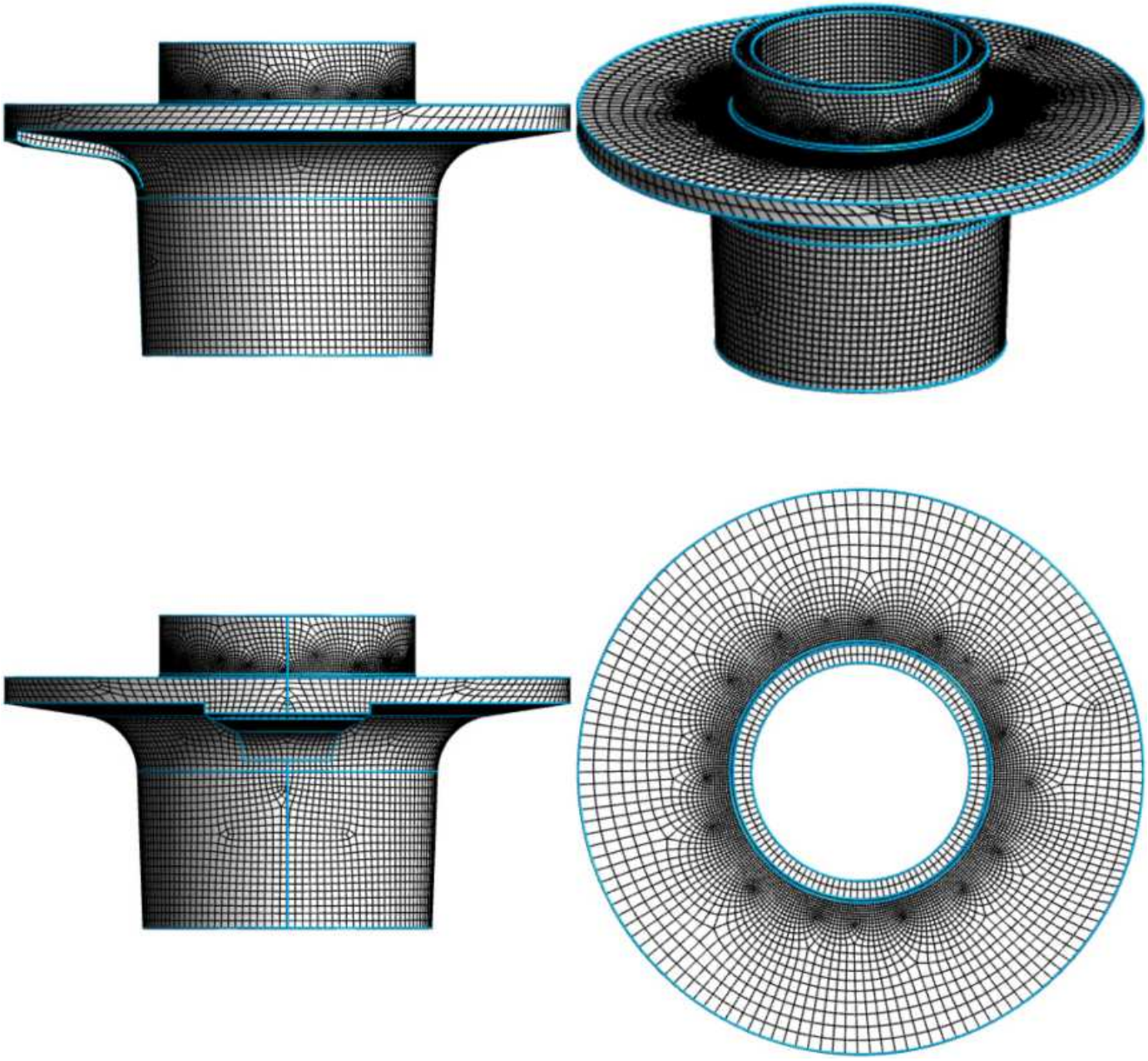


Model: 00000658 (from ABC dataset)
CAD: 22 corners, 34 curves, 15 faces
Cross field: 2 singularities detected
Timings: 13.123 sec to generate the unstructured mesh, 23.397 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22684	24528	434	138
Quasi-structured	23642	25486	136	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.158942	1.28731	3.07852	0.0606269	0.944911	0.993928
Quasi-structured	0.0681336	1.25658	5.12582	0.0849482	0.968721	0.993713

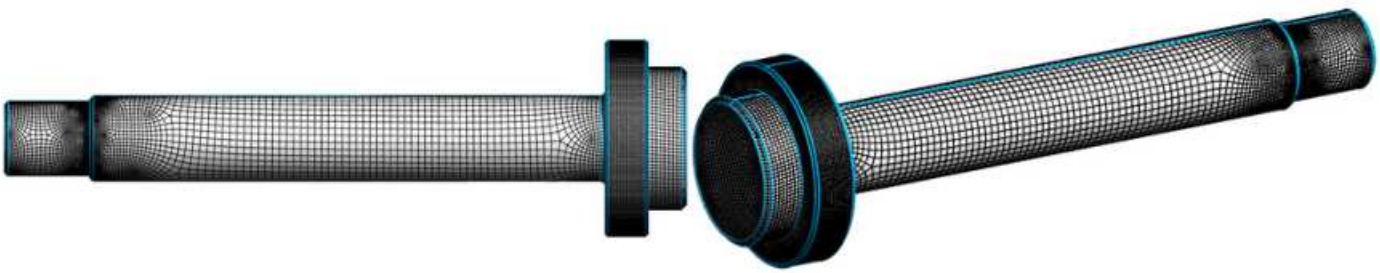


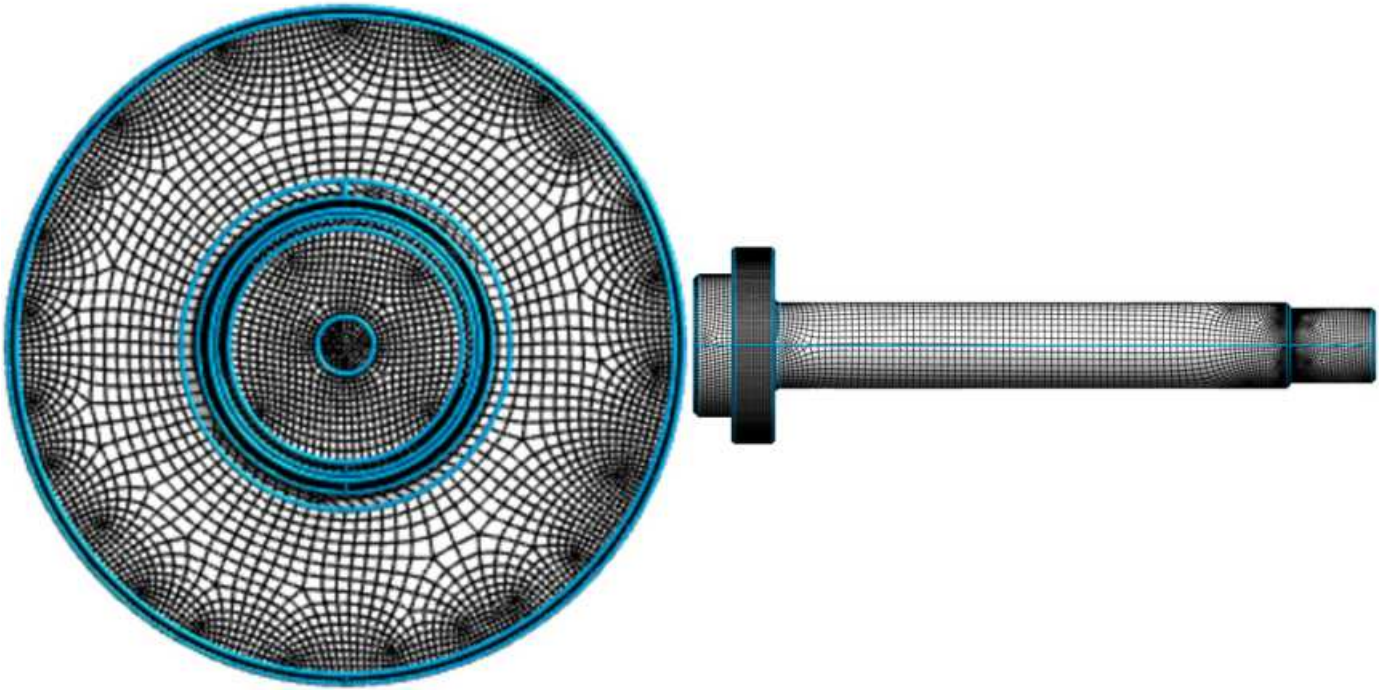
Model: 00000684 (from ABC dataset)
CAD: 19 corners, 30 curves, 17 faces
Cross field: 8 singularities detected
Timings: 6.99663 sec to generate the unstructured mesh, 51.7737 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27368	30208	1305	356
Quasi-structured	27631	30471	302	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0970065	0.792973	3.31982	0.136193	0.933228	0.984456
Quasi-structured	0.11589	0.786147	3.11207	0.319243	0.965856	0.977206



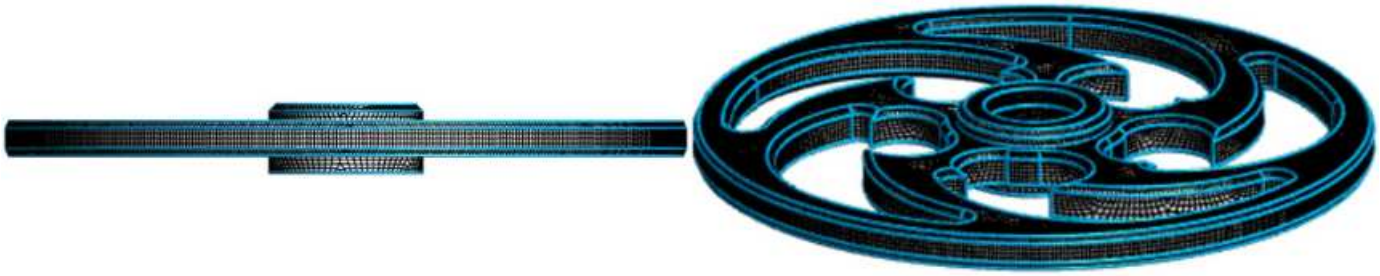


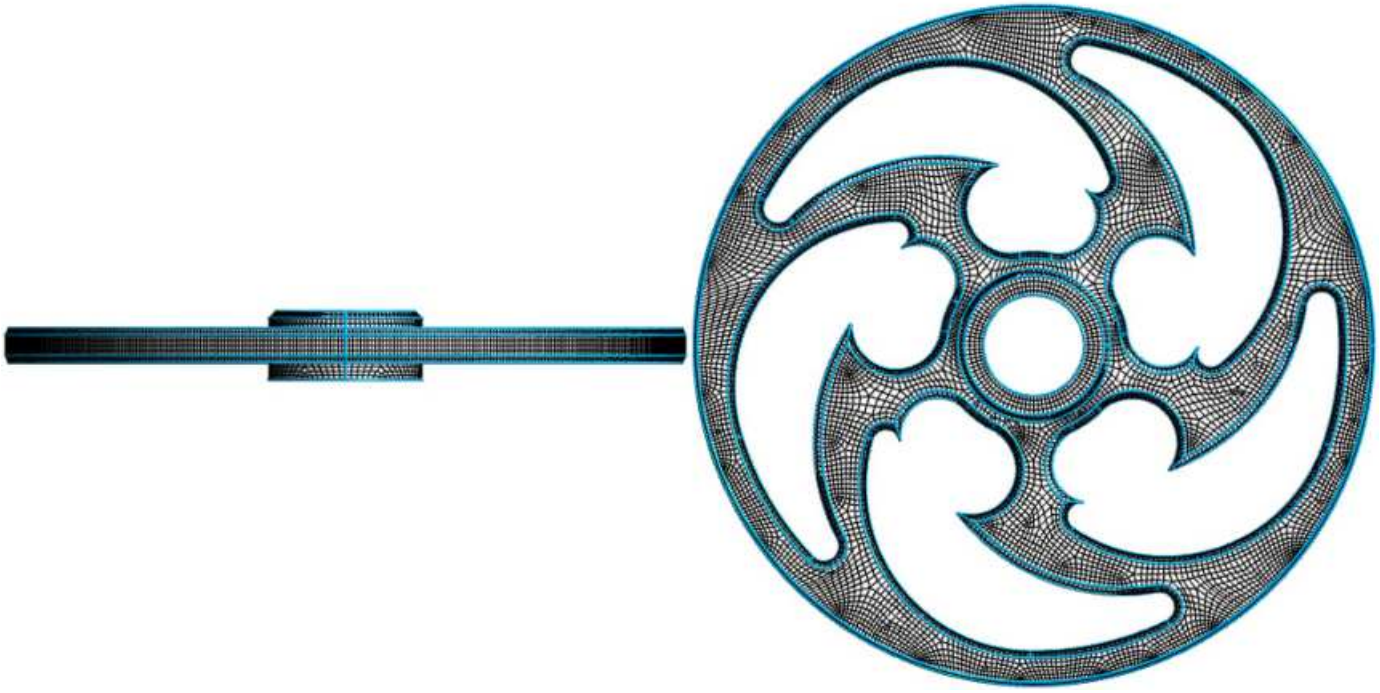
Model: 00000698 (from ABC dataset)
CAD: 144 corners, 239 curves, 102 faces
Cross field: 82 singularities detected
Timings: 10.6813 sec to generate the unstructured mesh, 49.2304 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30492	37943	1436	96
Quasi-structured	30681	38132	499	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.351501	1.65944	4.6315	0.172303	0.923084	0.963102
Quasi-structured	0.342024	1.66169	5.95865	0.180463	0.917386	0.95424



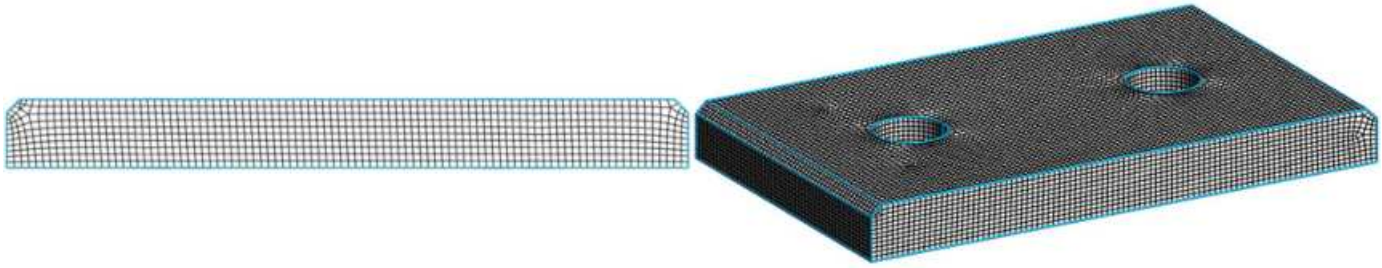


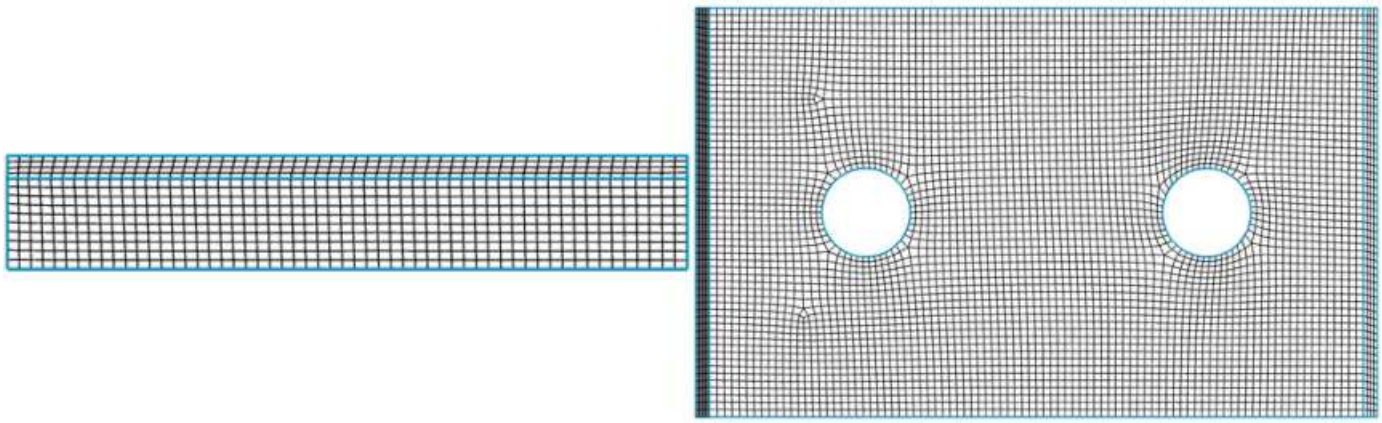
Model: 00000699 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 20 singularities detected
Timings: 7.14154 sec to generate the unstructured mesh, 1.3531 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14234	15188	162	29
Quasi-structured	14614	15568	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.289894	1.03905	1.90673	0.45575	0.974934	0.998368
Quasi-structured	0.329969	1.02378	1.92972	0.657664	0.987992	0.997826



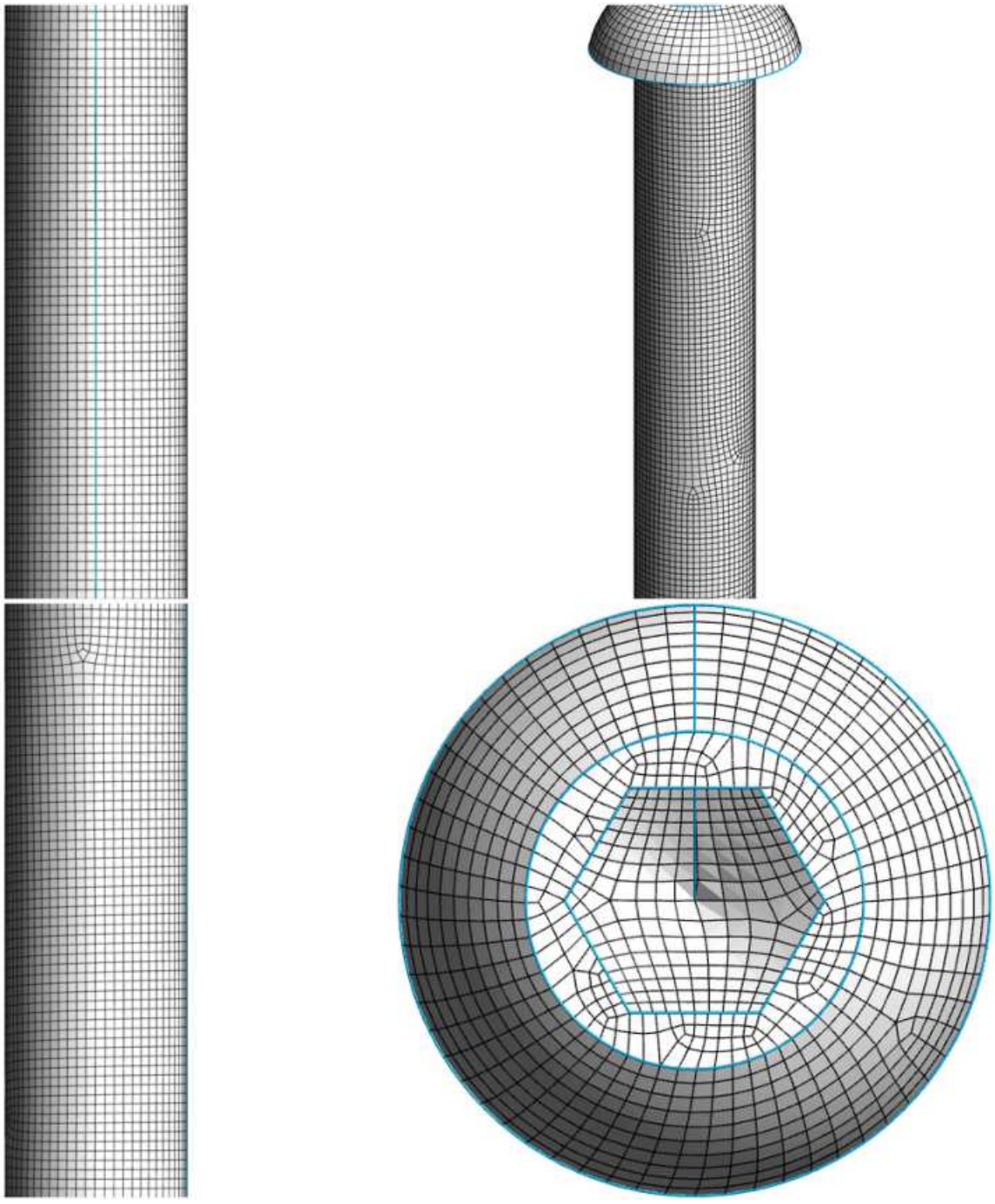


Model: 00000708 (from ABC dataset)
CAD: 19 corners, 29 curves, 13 faces
Cross field: 12 singularities detected
Timings: 7.61521 sec to generate the unstructured mesh, 1.04012 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7870	8352	83	117
Quasi-structured	7904	8386	38	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0872914	0.318881	0.693482	0.423321	0.977176	0.999017
Quasi-structured	0.110031	0.317145	0.68636	0.637279	0.989612	0.999529

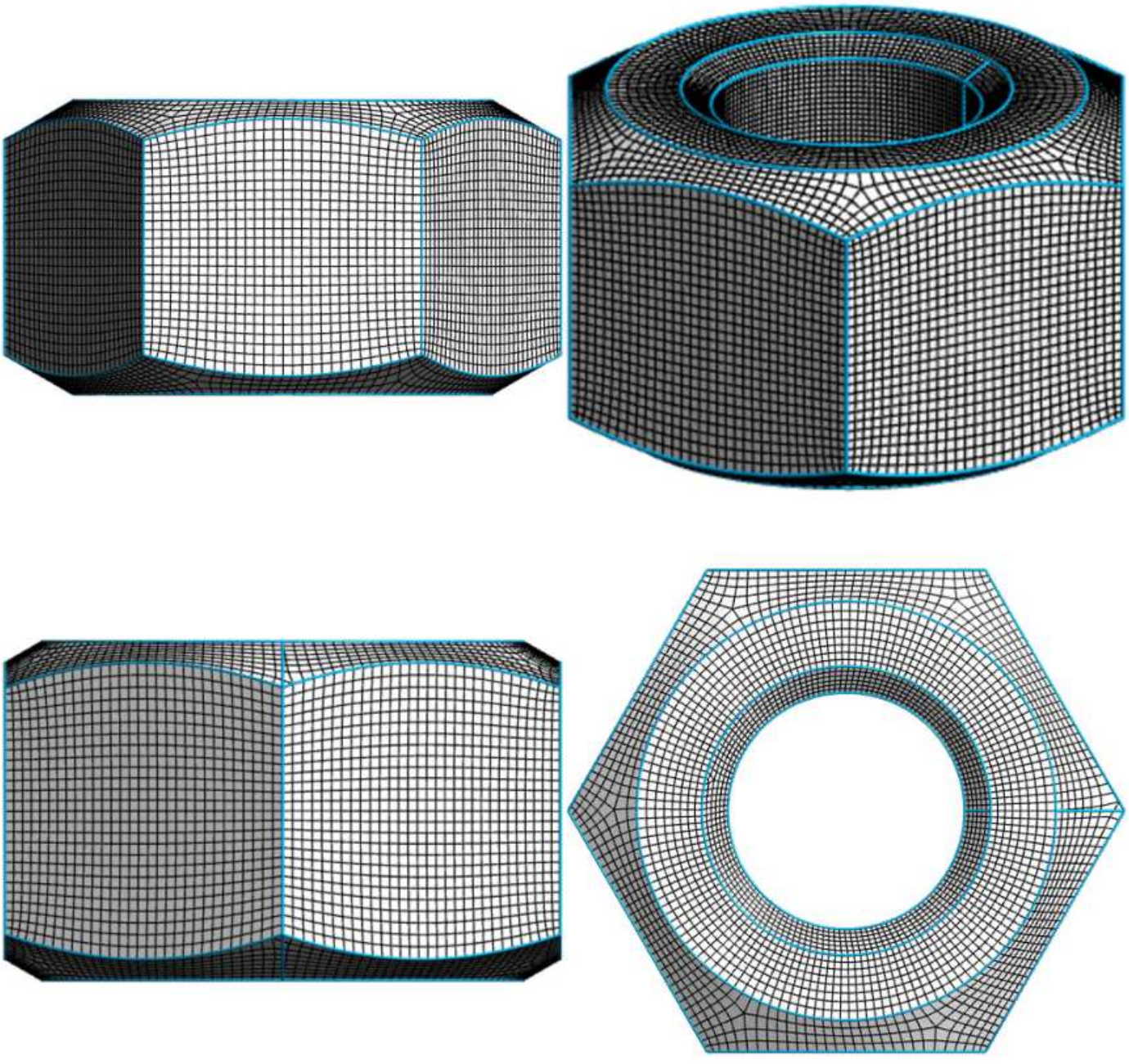


Model: 00000710 (from ABC dataset)
CAD: 18 corners, 29 curves, 13 faces
Cross field: 10 singularities detected
Timings: 14.5333 sec to generate the unstructured mesh, 1.60538 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17240	18626	97	76
Quasi-structured	17836	19222	14	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0485278	0.148472	0.372563	0.588769	0.983359	0.997067
Quasi-structured	0.0600222	0.146242	0.538207	0.658657	0.985214	0.998933

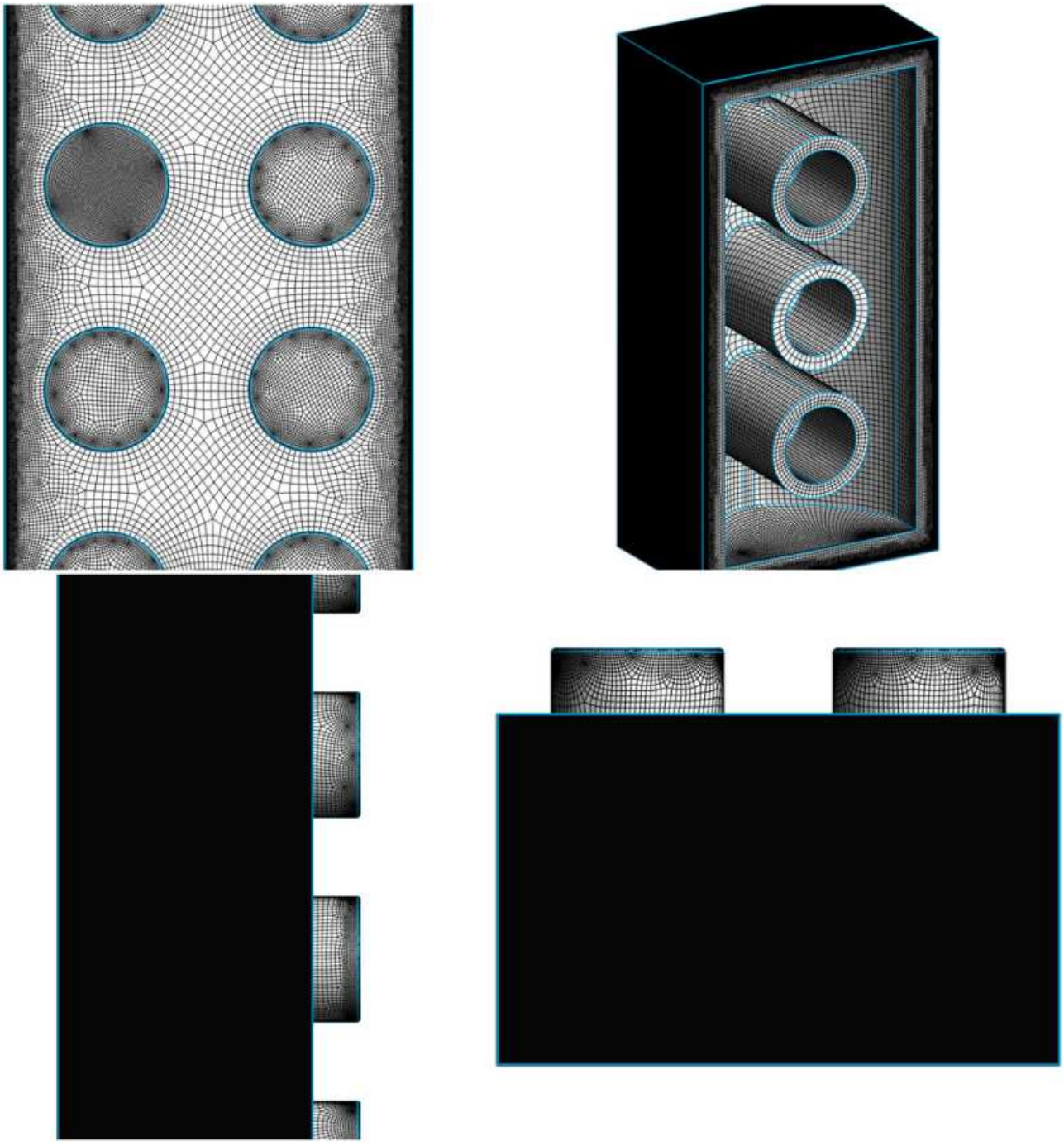


Model: 00000724 (from ABC dataset)
CAD: 95 corners, 164 curves, 75 faces
Cross field: 120 singularities detected
Timings: 56.8943 sec to generate the unstructured mesh, 1782.22 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	2852730	2882950	11308	902
Quasi-structured	2856797	2887017	8784	3

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	6.12229e-06	0.0228855	0.976677	0	0.993906	0.998761
Quasi-structured	0.00669366	0.0229171	0.961727	0.101349	0.99664	0.998751

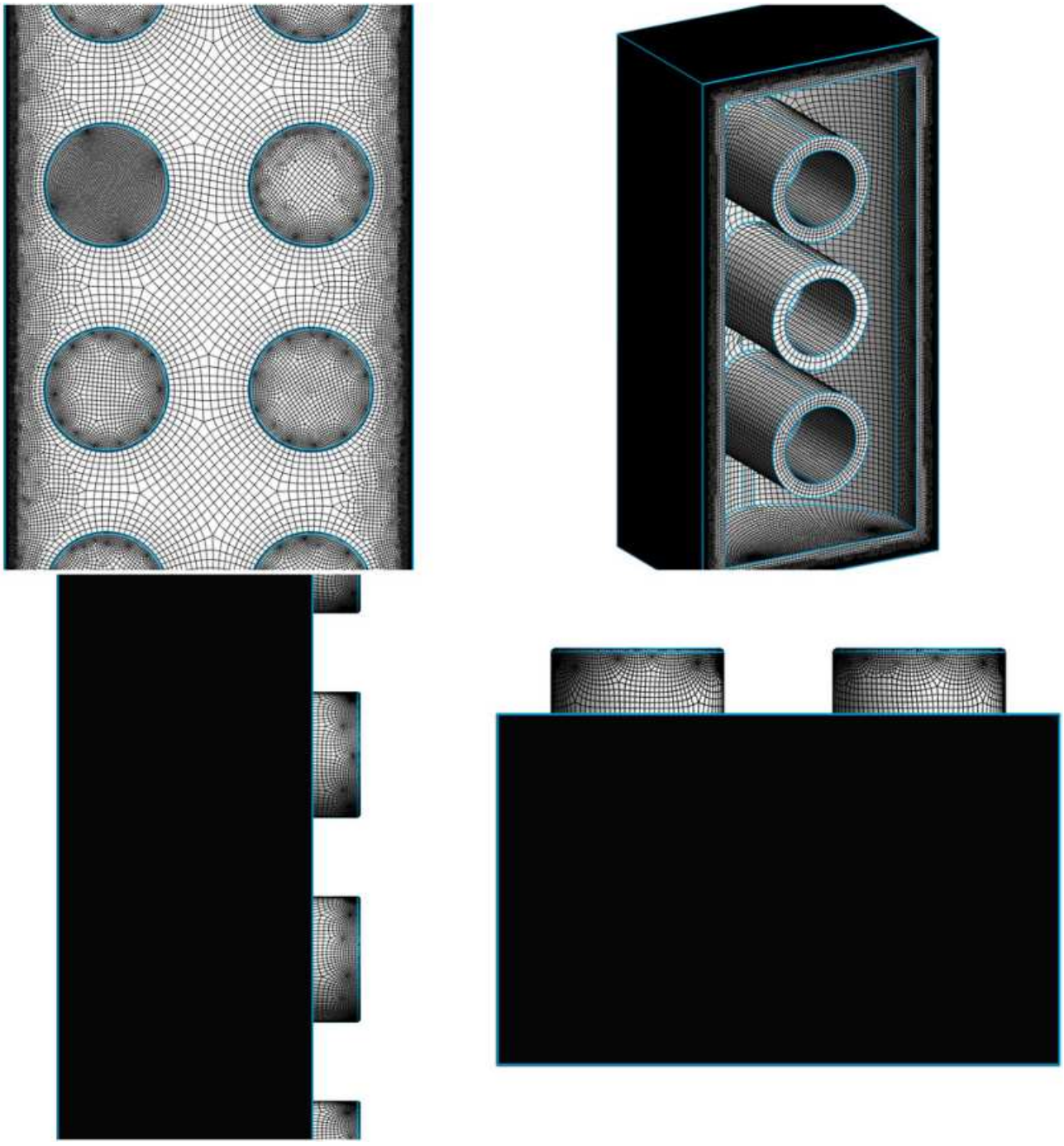


Model: 00000726 (from ABC dataset)
CAD: 95 corners, 164 curves, 75 faces
Cross field: 120 singularities detected
Timings: 54.0511 sec to generate the unstructured mesh, 1788.39 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	2854046	2884266	11284	932
Quasi-structured	2857483	2887703	8798	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	7.16136e-06	0.0228881	0.973986	0	0.993871	0.99876
Quasi-structured	0.00669366	0.0229117	0.955811	0.247789	0.996607	0.998751

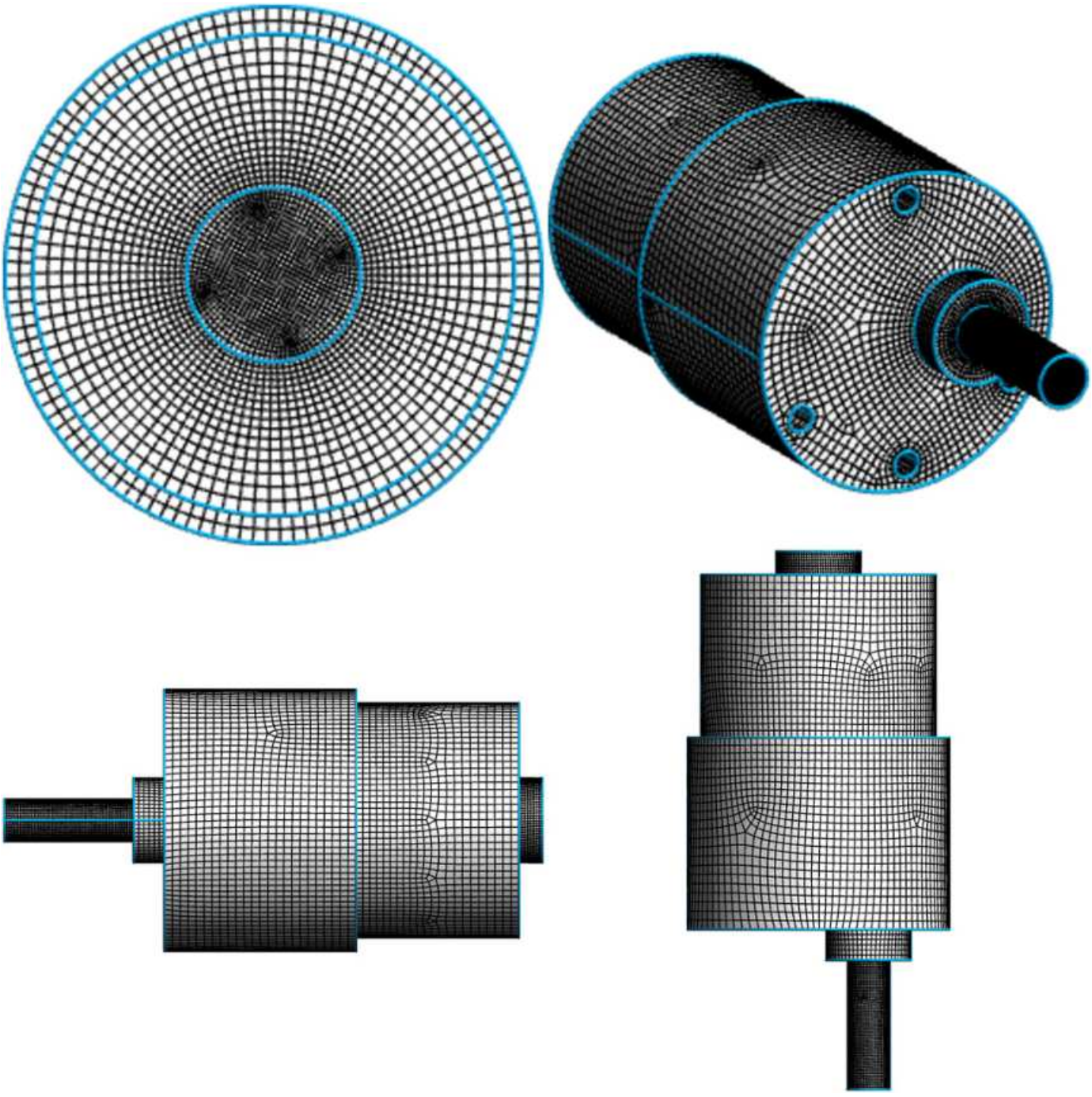


Model: 00000755 (from ABC dataset)
CAD: 18 corners, 27 curves, 19 faces
Cross field: 40 singularities detected
Timings: 8.34266 sec to generate the unstructured mesh, 2.66493 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15570	16578	255	188
Quasi-structured	15605	16613	98	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.108667	0.67693	2.0514	0.14024	0.972239	0.992632
Quasi-structured	0.137933	0.675325	1.79224	0.492296	0.988717	0.995974

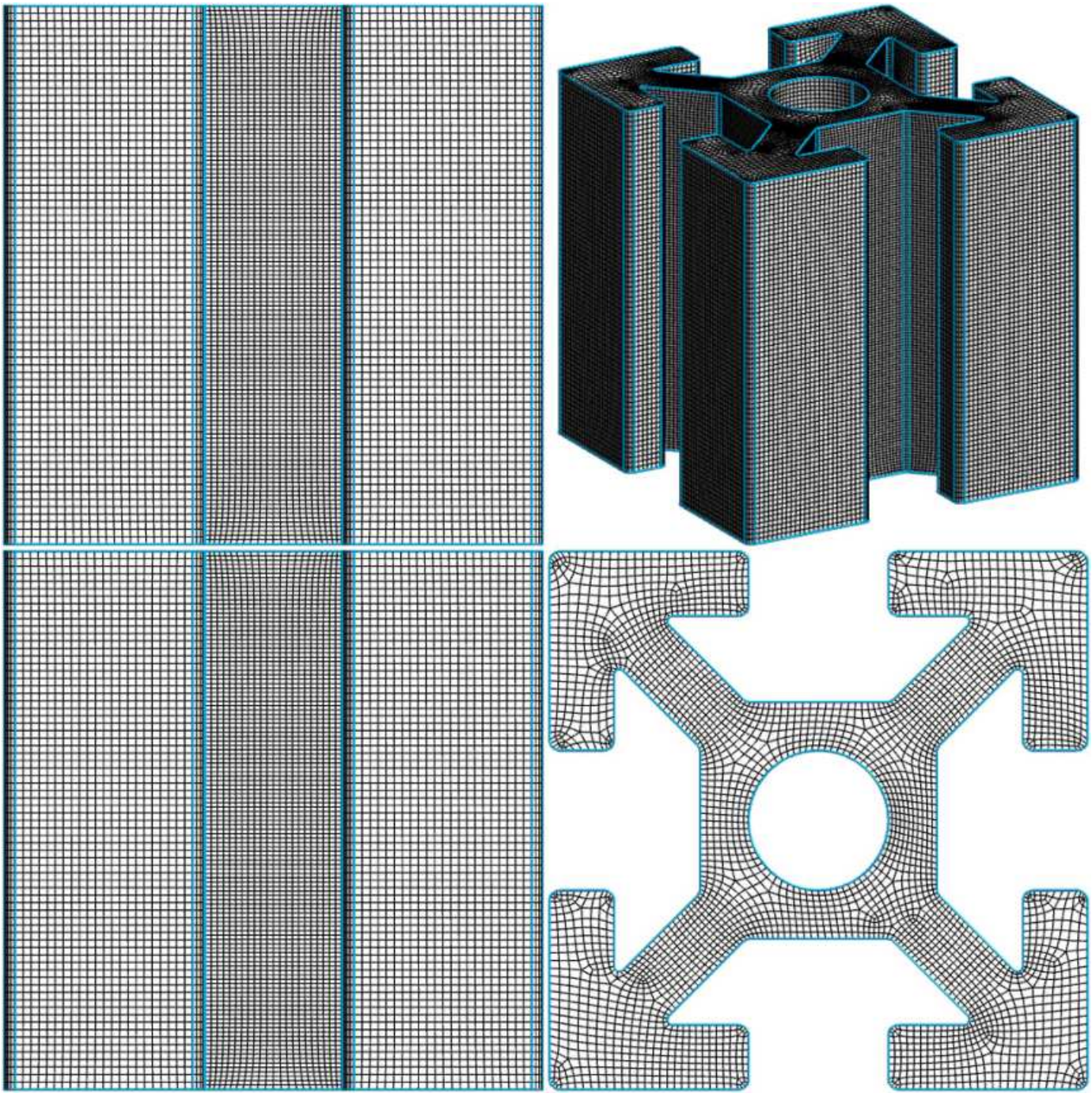


Model: 00000758 (from ABC dataset)
CAD: 146 corners, 219 curves, 75 faces
Cross field: 96 singularities detected
Timings: 28.7139 sec to generate the unstructured mesh, 9.27061 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	77862	86210	930	99
Quasi-structured	78035	86383	328	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0624461	0.274862	0.612153	0.102287	0.956242	0.988616
Quasi-structured	0.0963269	0.274284	0.737077	0.488245	0.964461	0.972153

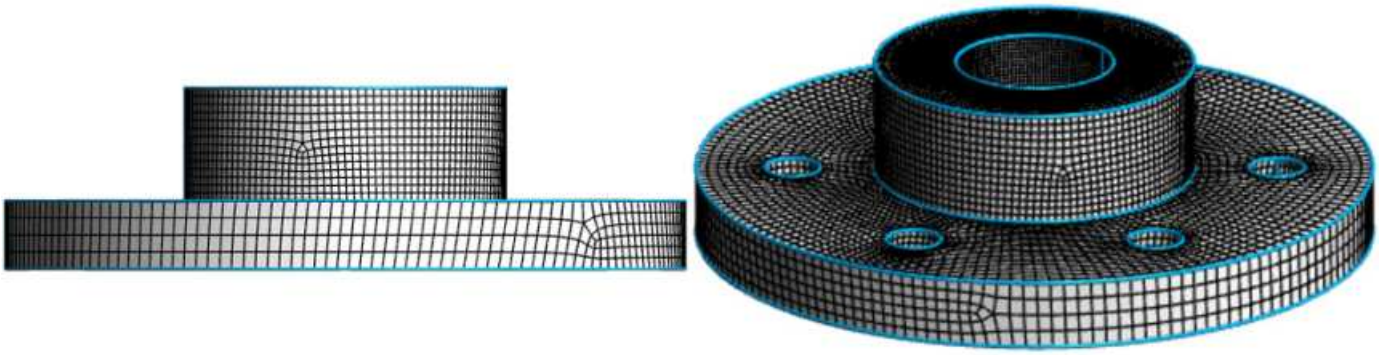


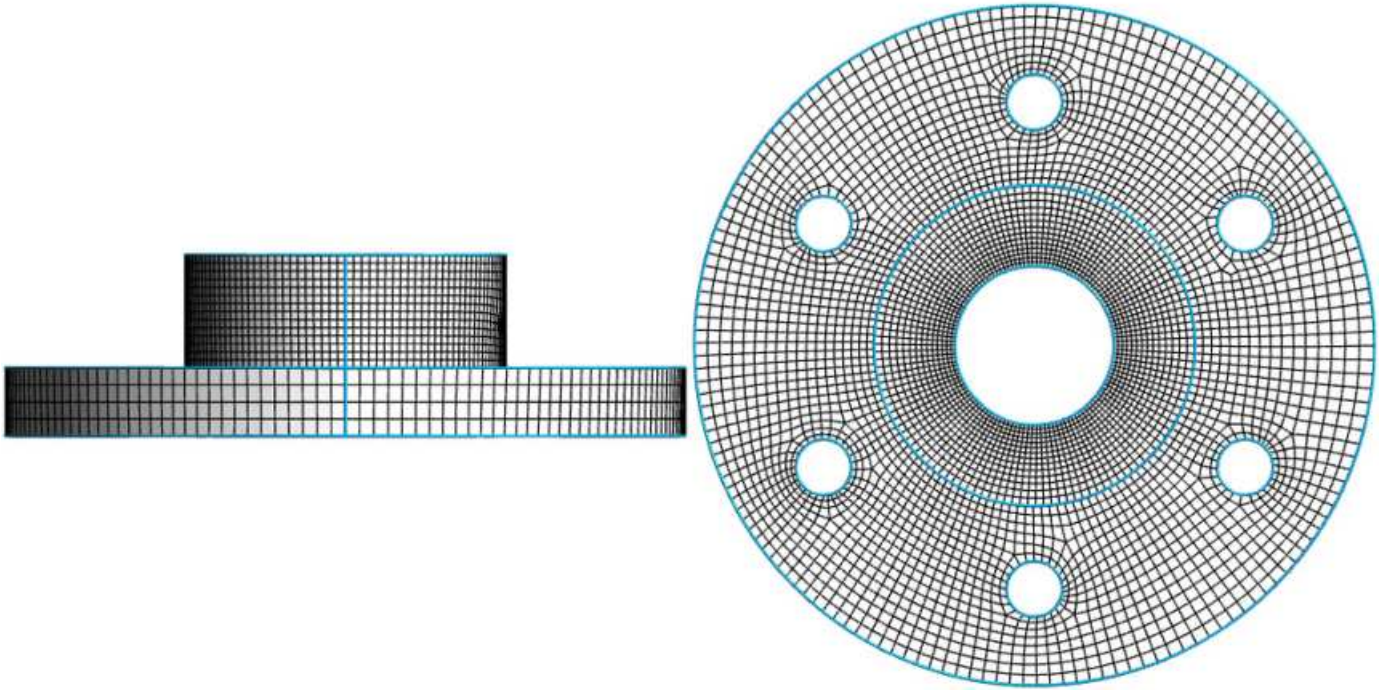
Model: 00000763 (from ABC dataset)
CAD: 24 corners, 33 curves, 12 faces
Cross field: 48 singularities detected
Timings: 14.5092 sec to generate the unstructured mesh, 4.40192 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16534	17638	327	135
Quasi-structured	16385	17489	88	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0556872	0.284224	0.808	0.406947	0.970146	0.994005
Quasi-structured	0.0832488	0.284443	0.81578	0.511531	0.986737	0.996029



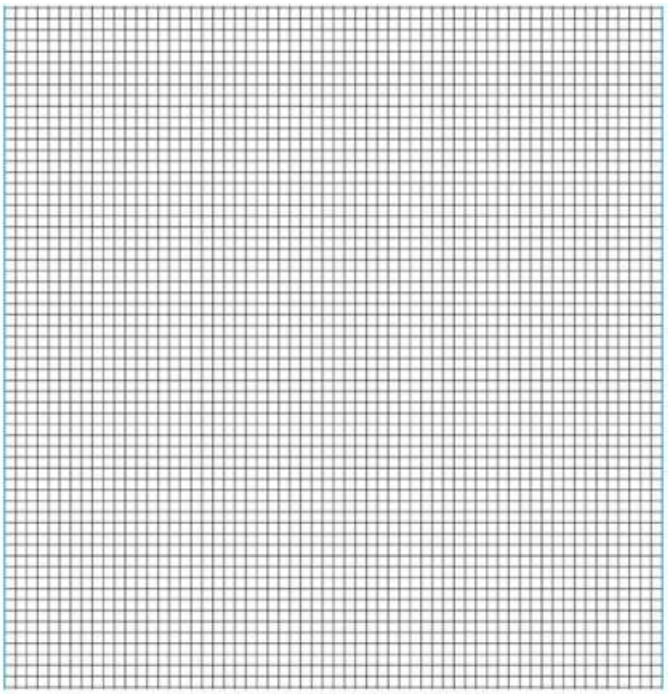


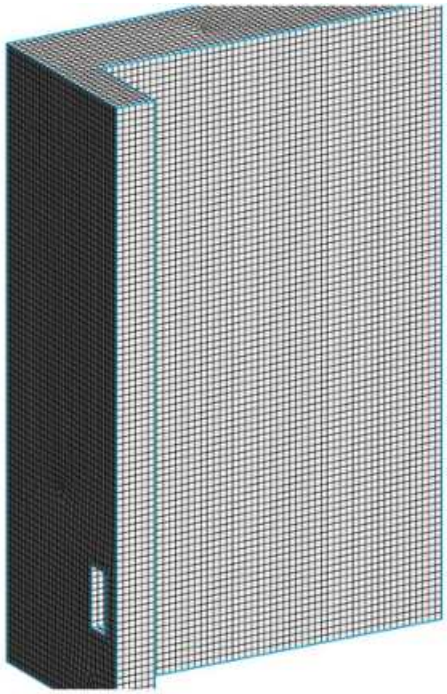
Model: 00000797 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 0 singularities detected
Timings: 7.03623 sec to generate the unstructured mesh, 0.860243 sec to make it quasi-structured
Mesh topology:

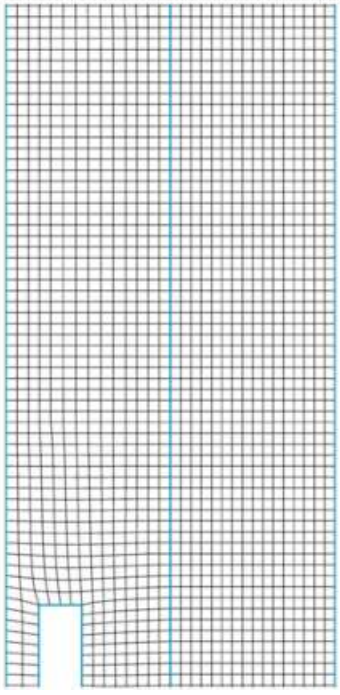
	# quads	# vertices	# irregular	# very irregular
Unstructured	18316	19310	16	0
Quasi-structured	18316	19310	12	0

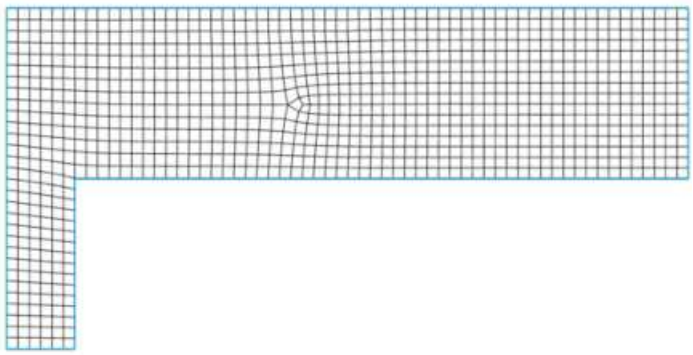
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.323577	0.846	1.30089	0.538555	0.995725	1
Quasi-structured	0.41395	0.845526	1.39881	0.764137	0.998543	1







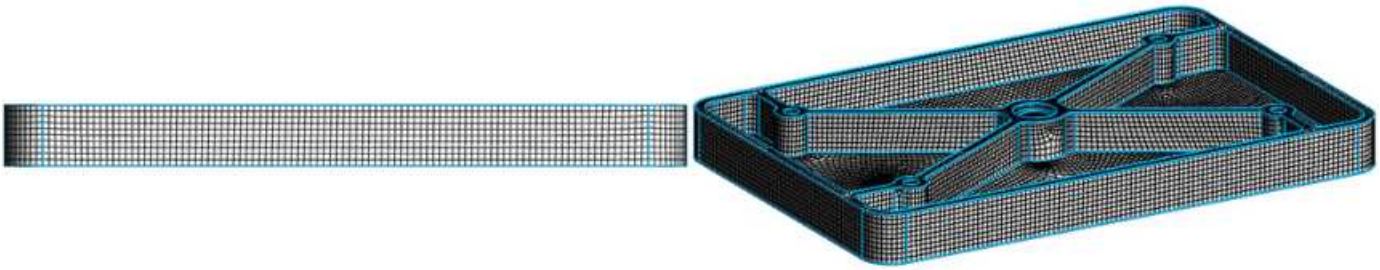


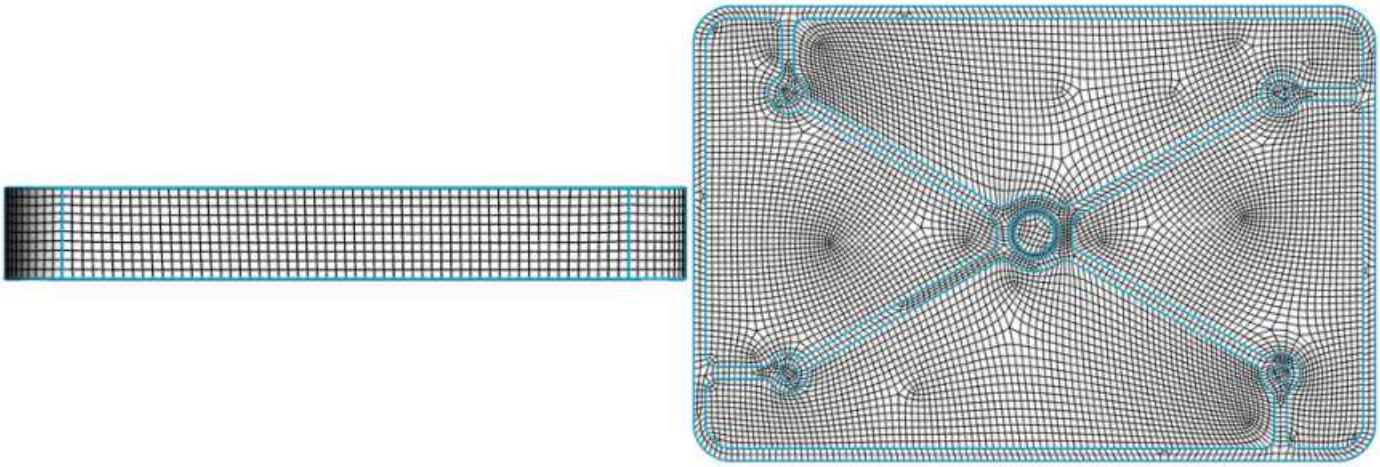
Model: 00000809 (from ABC dataset)
CAD: 156 corners, 234 curves, 90 faces
Cross field: 76 singularities detected
Timings: 12.8626 sec to generate the unstructured mesh, 6.70689 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26292	29698	440	70
Quasi-structured	27236	30642	268	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.186523	1.02794	2.20365	0.184491	0.971772	0.993874
Quasi-structured	0.120452	1.0091	2.82277	0.349493	0.969751	0.994996



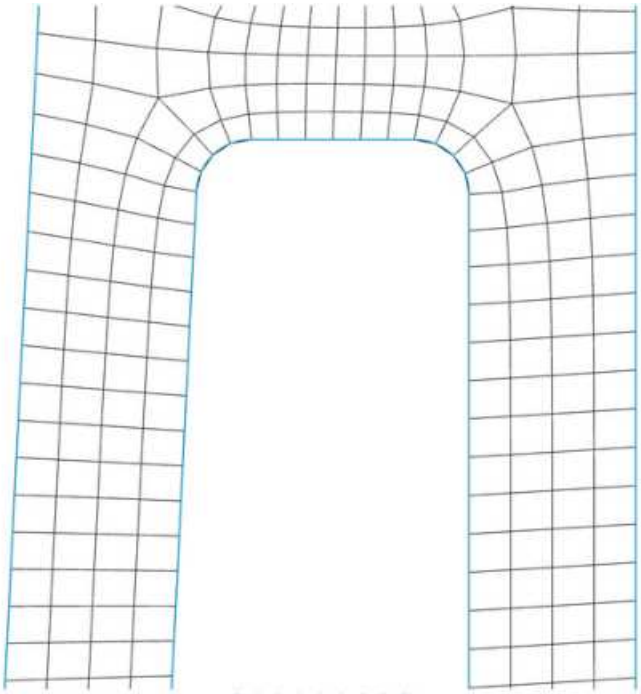


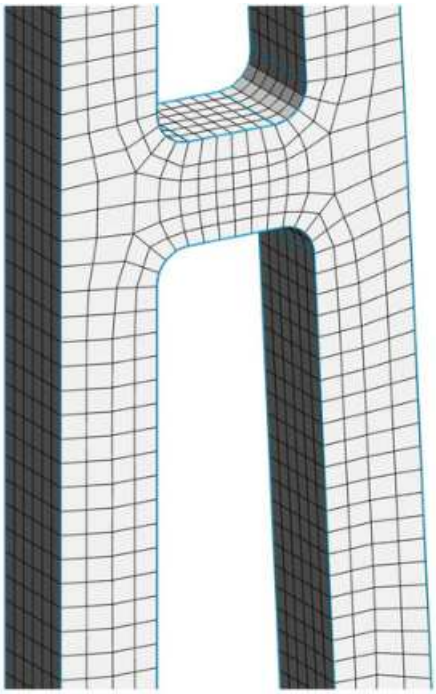
Model: 00000844 (from ABC dataset)
CAD: 162 corners, 237 curves, 81 faces
Cross field: 116 singularities detected
Timings: 7.3987 sec to generate the unstructured mesh, 6.10407 sec to make it quasi-structured
Mesh topology:

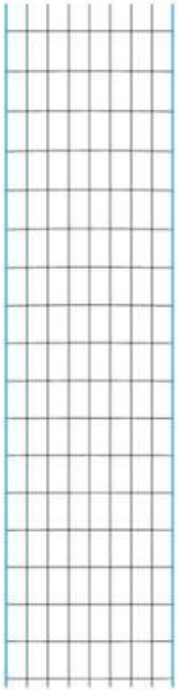
	# quads	# vertices	# irregular	# very irregular
Unstructured	15378	18431	928	96
Quasi-structured	15857	18910	292	0

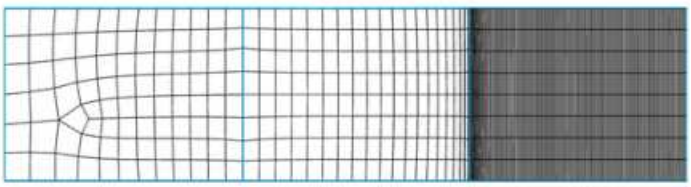
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0860843	1.39655	3.97195	0.0914129	0.923756	0.965437
Quasi-structured	0.0850074	1.39165	4.44776	0.173298	0.931922	0.959879







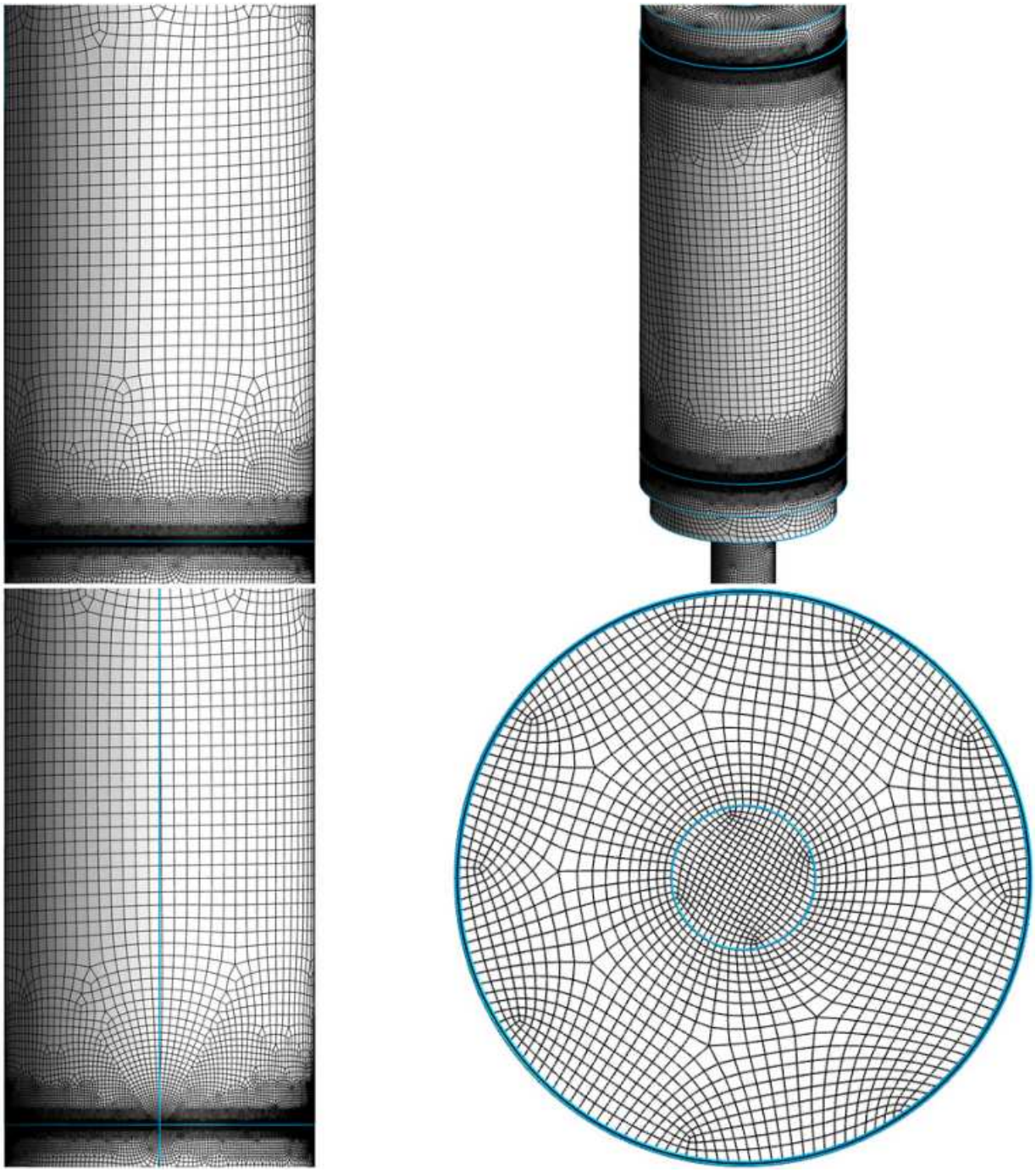


Model: 00000845 (from ABC dataset)
CAD: 12 corners, 18 curves, 13 faces
Cross field: 8 singularities detected
Timings: 12.8011 sec to generate the unstructured mesh, 734.051 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	82688	88552	4075	584
Quasi-structured	83437	89301	3592	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0246332	0.609063	5.65783	0.148353	0.904829	0.980716
Quasi-structured	0.0249922	0.597755	4.65706	0.285656	0.951525	0.994726

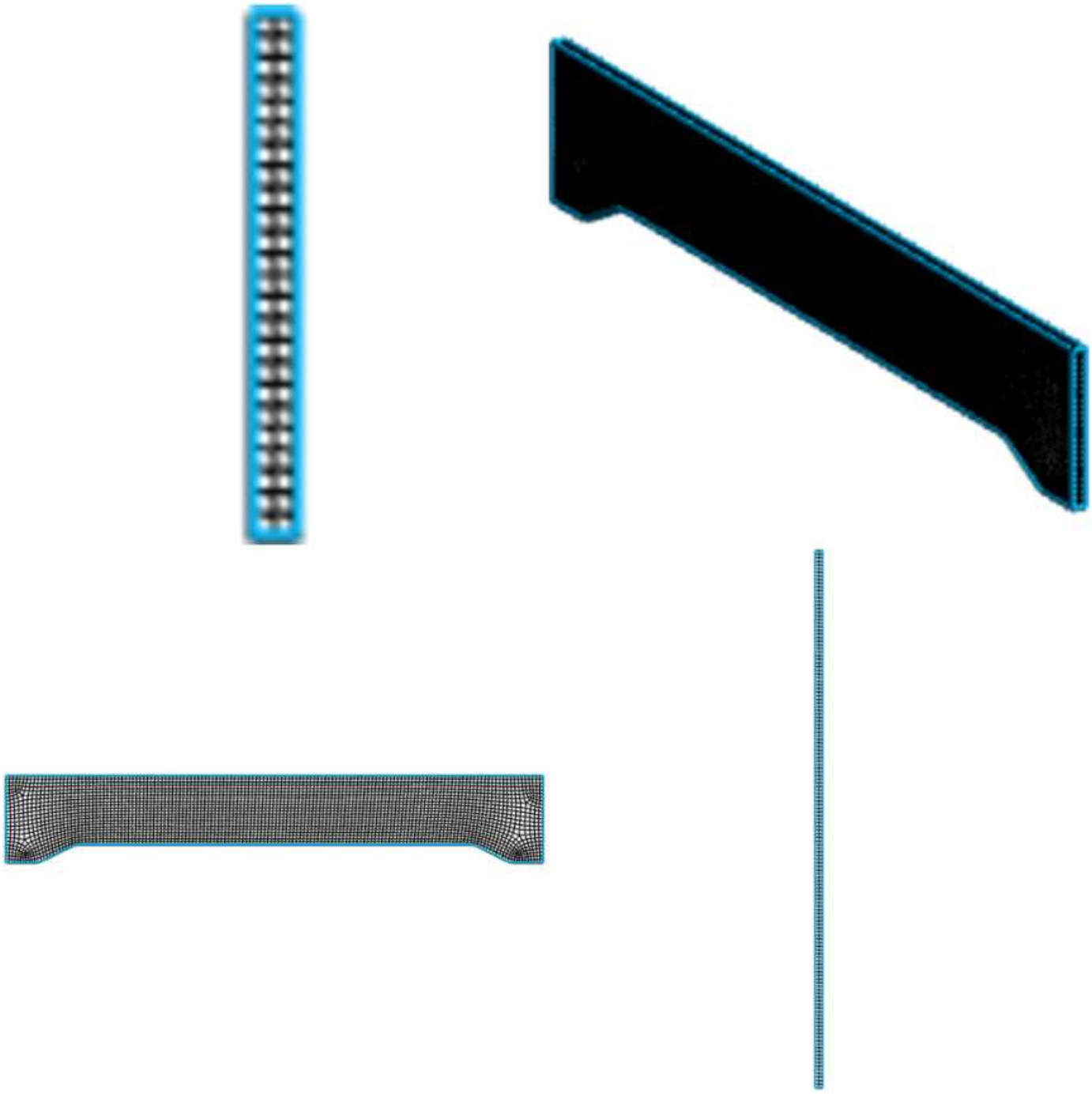


Model: 00000847 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 2.84247 sec to generate the unstructured mesh, 2.95771 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5984	6746	88	0
Quasi-structured	7578	8340	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.95148	6.67495	11.3747	0.534199	0.955302	0.977328
Quasi-structured	2.15939	5.93107	12.3007	0.715188	0.974408	0.988698

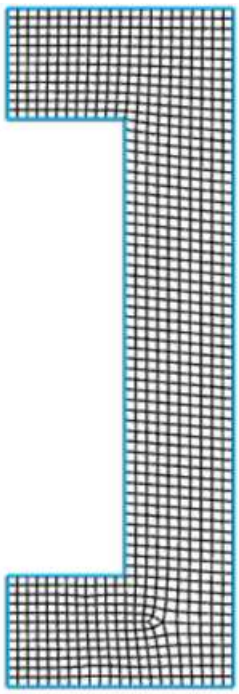
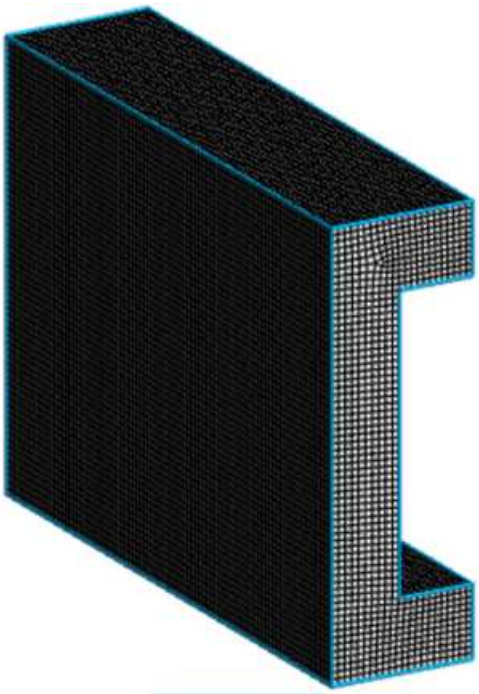
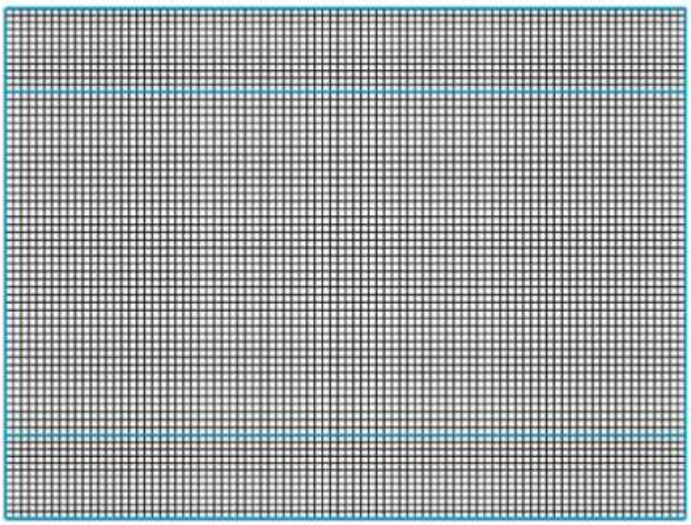
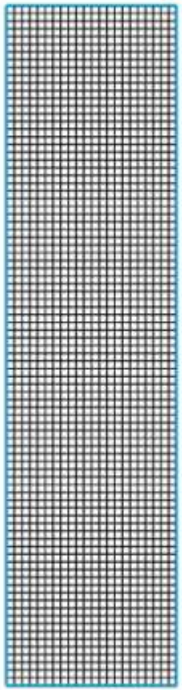


Model: 00000849 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 12.5159 sec to generate the unstructured mesh, 1.06863 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19682	20800	12	0
Quasi-structured	19686	20804	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.206209	0.573238	0.755539	0.550568	0.997109	0.999971
Quasi-structured	0.358172	0.572954	0.768654	0.844678	0.998667	0.99995

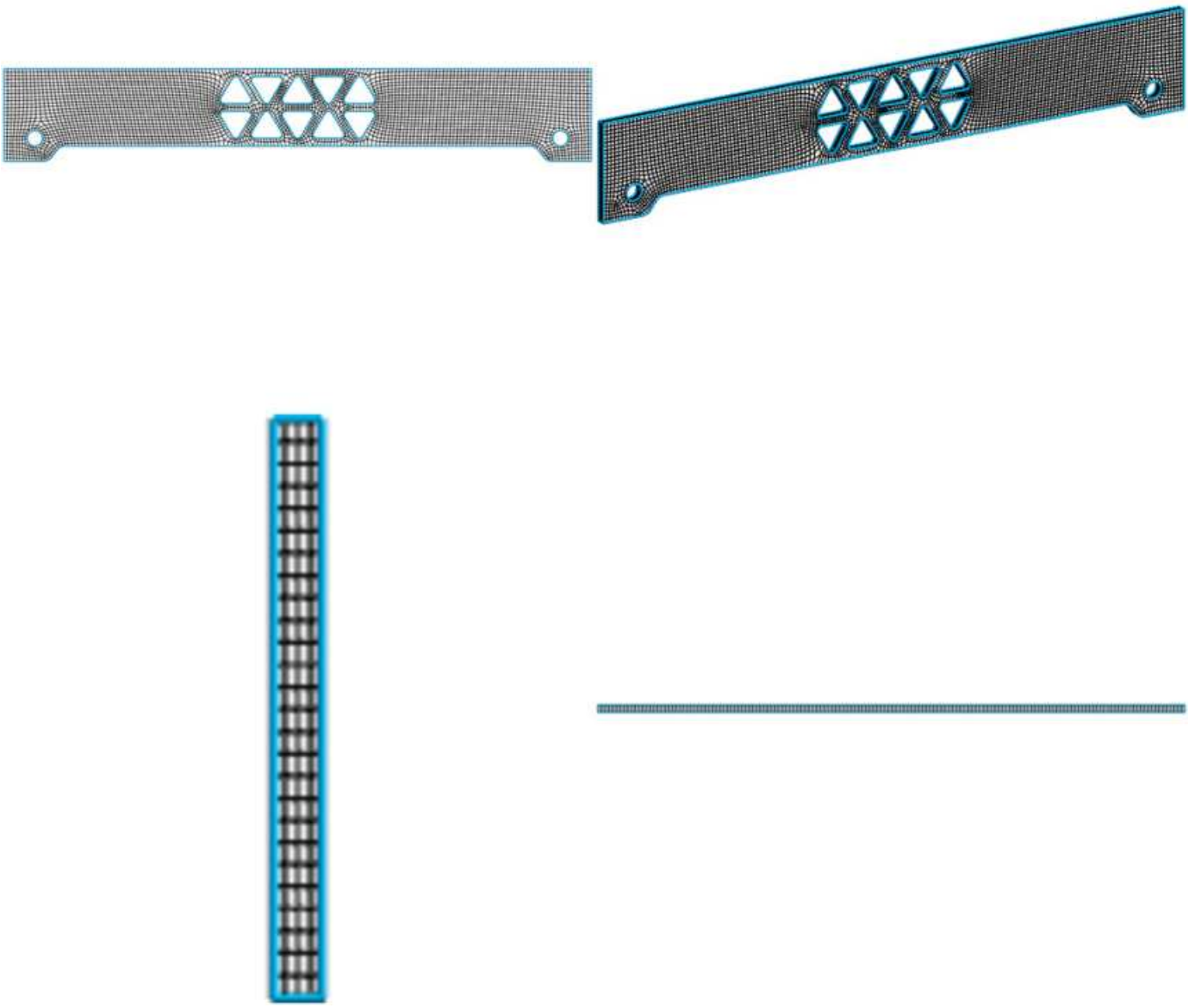





Model: 00000852 (from ABC dataset)
CAD: 148 corners, 222 curves, 76 faces
Cross field: 96 singularities detected
Timings: 7.13229 sec to generate the unstructured mesh, 4.14992 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10026	11932	311	50
Quasi-structured	10487	12393	164	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.13791	5.21676	9.61146	0.0109107	0.920614	0.964247
Quasi-structured	1.59959	5.09239	16.1614	0.332116	0.936966	0.977696

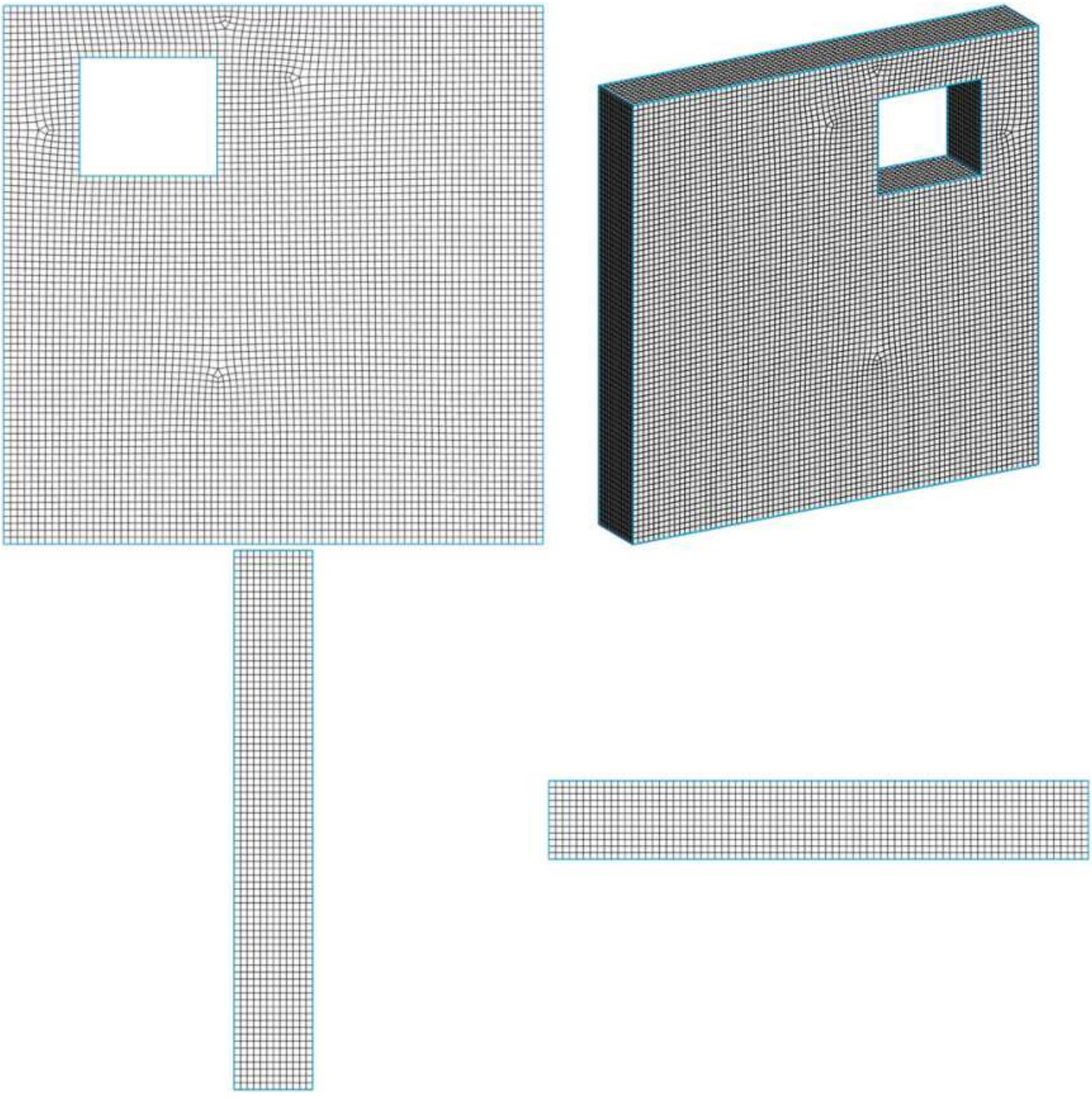


Model: 00000858 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 10.6269 sec to generate the unstructured mesh, 2.20176 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15898	16778	52	0
Quasi-structured	16052	16932	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.957234	2.24133	3.36097	0.59695	0.993724	0.999841
Quasi-structured	1.29571	2.22832	3.44292	0.821077	0.998016	0.998717

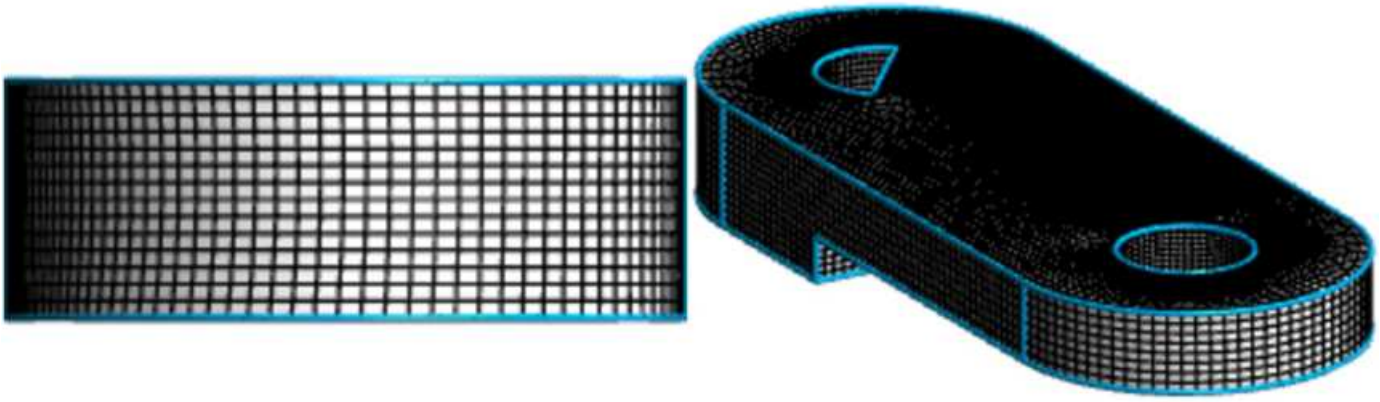


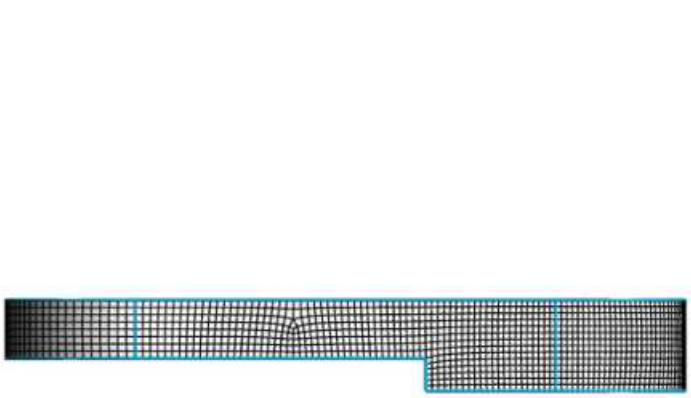
Model: 00000882 (from ABC dataset)
CAD: 19 corners, 28 curves, 11 faces
Cross field: 8 singularities detected
Timings: 9.09722 sec to generate the unstructured mesh, 1.87341 sec to make it quasi-structured
Mesh topology:

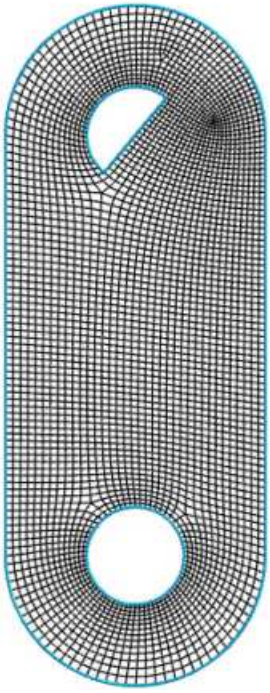
	# quads	# vertices	# irregular	# very irregular
Unstructured	11222	12066	124	14
Quasi-structured	11580	12424	22	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0791912	0.311899	0.608735	0.536311	0.979925	0.992611
Quasi-structured	0.0829257	0.306542	0.661656	0.729544	0.985812	0.992179





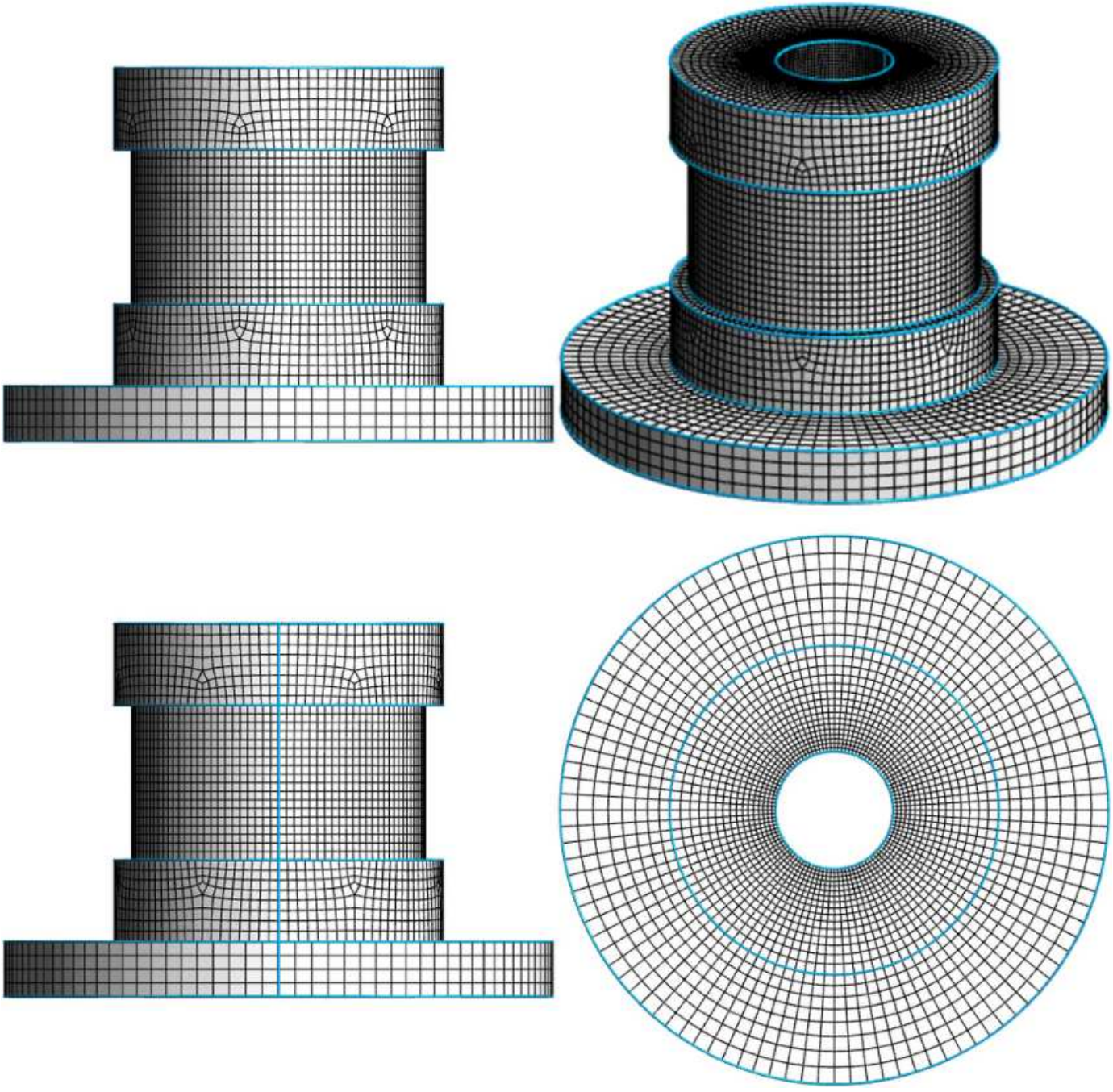


Model: 00000884 (from ABC dataset)
CAD: 14 corners, 21 curves, 14 faces
Cross field: 0 singularities detected
Timings: 9.13414 sec to generate the unstructured mesh, 1.42734 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18422	19934	52	117
Quasi-structured	18502	20014	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0528994	0.201662	0.498616	0.622756	0.987876	0.997237
Quasi-structured	0.0979698	0.201218	0.491295	0.842802	0.996446	0.996989

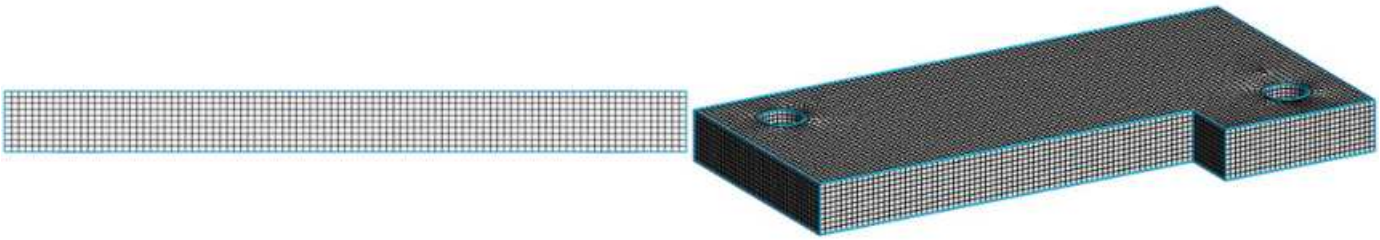


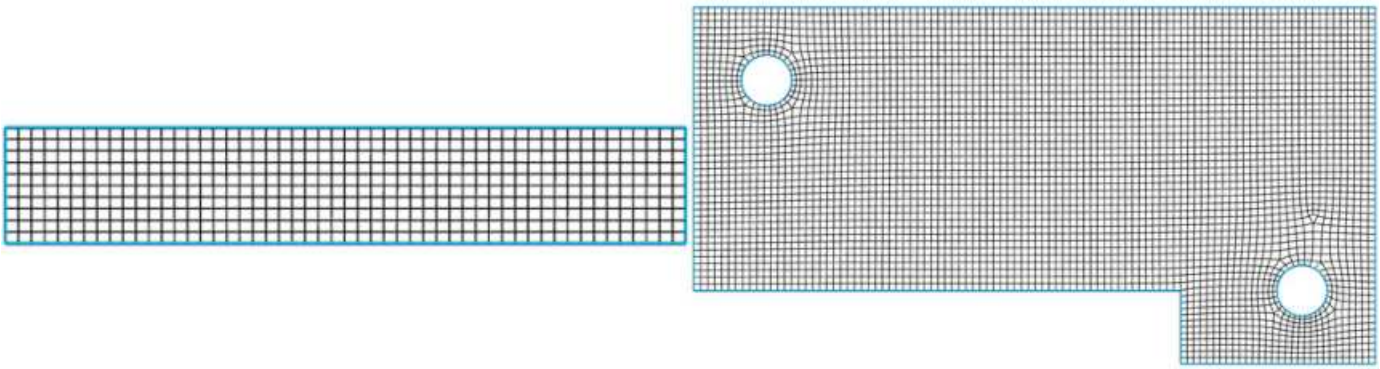
Model: 00000887 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 16 singularities detected
Timings: 8.99439 sec to generate the unstructured mesh, 1.51956 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12246	13038	72	25
Quasi-structured	12328	13120	22	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.136444	0.437916	0.714435	0.582628	0.988022	0.99876
Quasi-structured	0.227694	0.435864	0.701984	0.779084	0.994894	0.998639



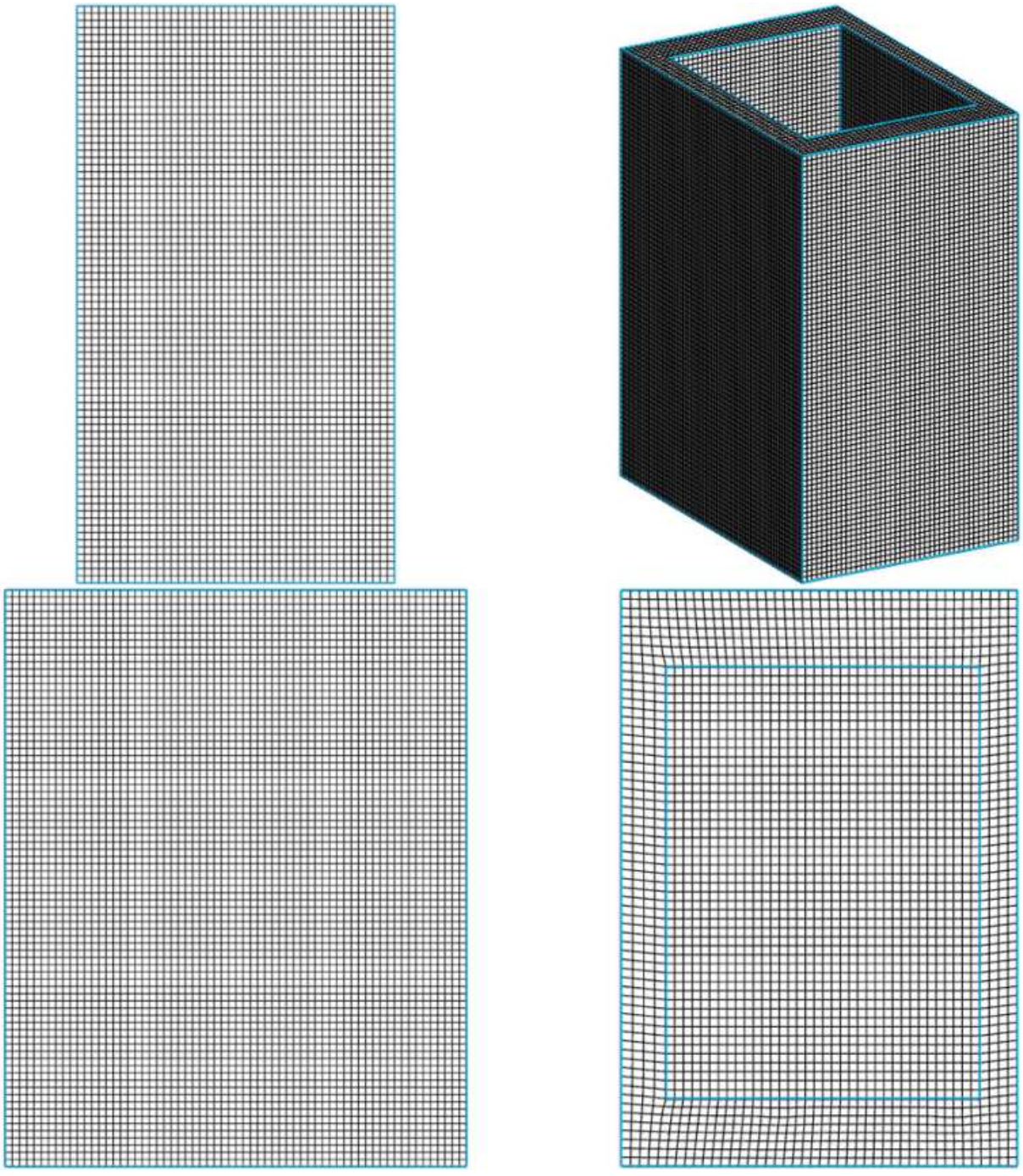


Model: 00000897 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 31.4092 sec to generate the unstructured mesh, 2.40333 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	35006	36392	4	0
Quasi-structured	35008	36394	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.345267	0.633616	0.941578	0.721221	0.99921	1
Quasi-structured	0.547211	0.633553	0.871654	0.912622	0.999578	1

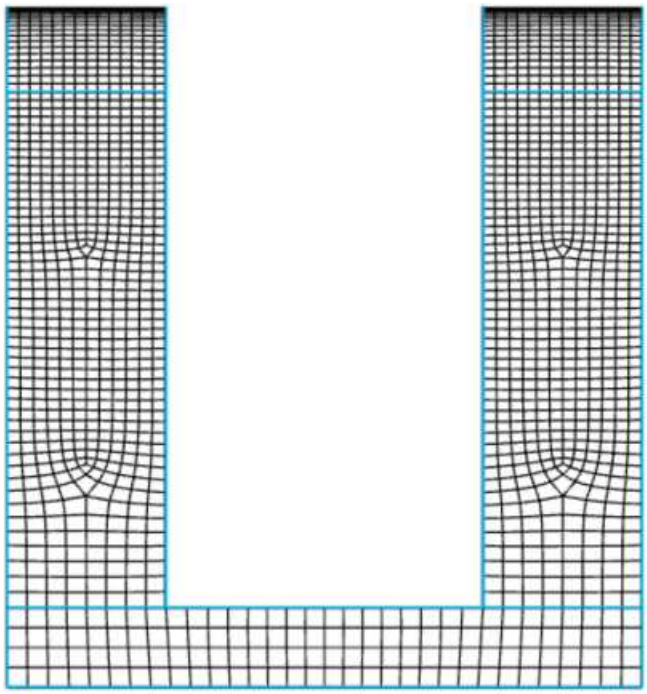


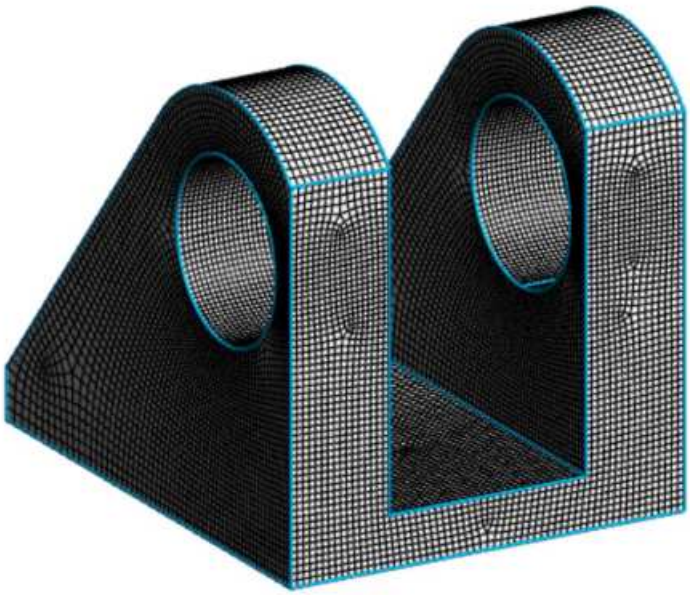
Model: 00000904 (from ABC dataset)
CAD: 23 corners, 35 curves, 14 faces
Cross field: 8 singularities detected
Timings: 11.5135 sec to generate the unstructured mesh, 3.49239 sec to make it quasi-structured
Mesh topology:

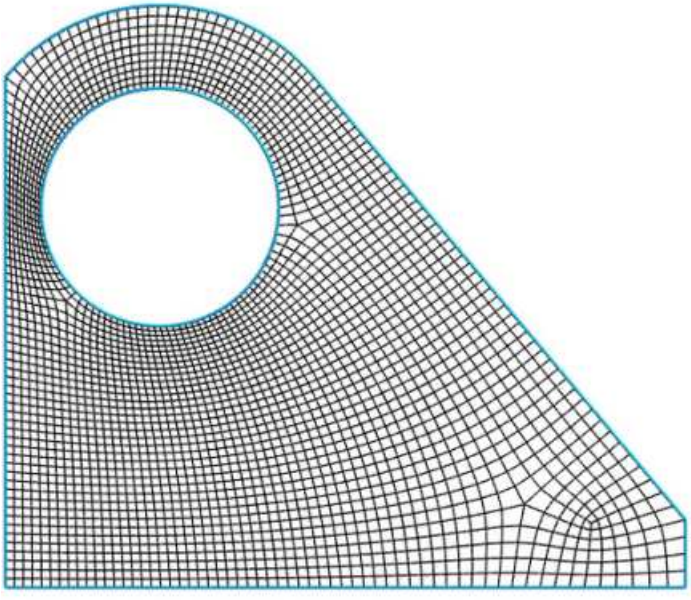
	# quads	# vertices	# irregular	# very irregular
Unstructured	23222	24708	310	45
Quasi-structured	24270	25756	68	0

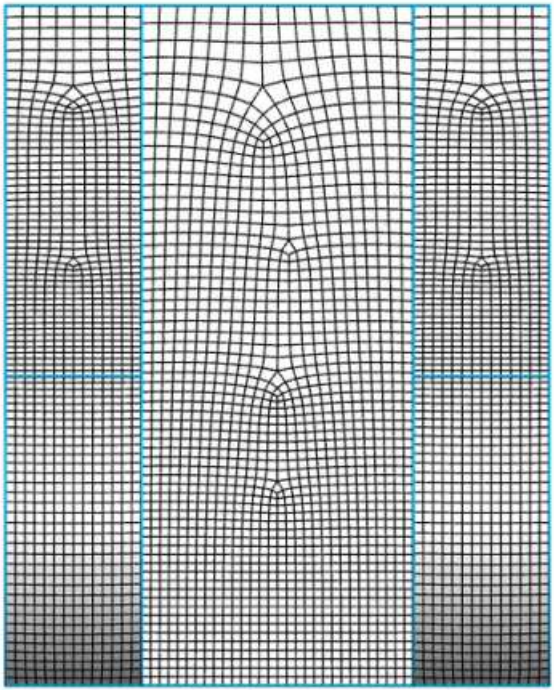
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.188314	0.854865	2.17916	0.427568	0.982816	0.997119
Quasi-structured	0.346051	0.834718	2.37372	0.499817	0.979615	0.996116







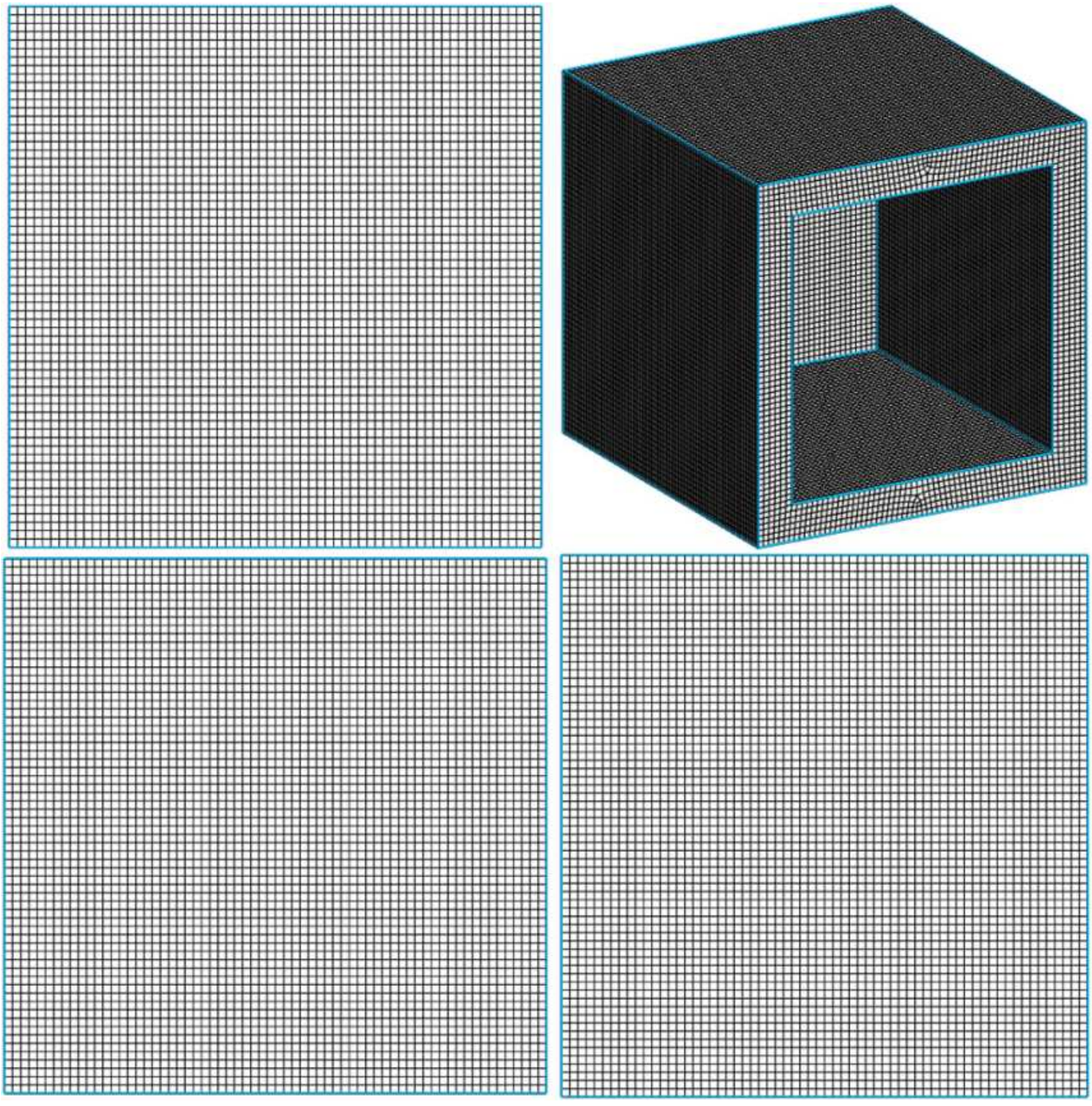


Model: 00000906 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 34.1245 sec to generate the unstructured mesh, 2.67404 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36836	38262	22	2
Quasi-structured	36806	38232	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.17512	0.778061	1.0152	0.280349	0.998639	0.999861
Quasi-structured	0.503223	0.77826	1.14003	0.843596	0.999554	0.99984

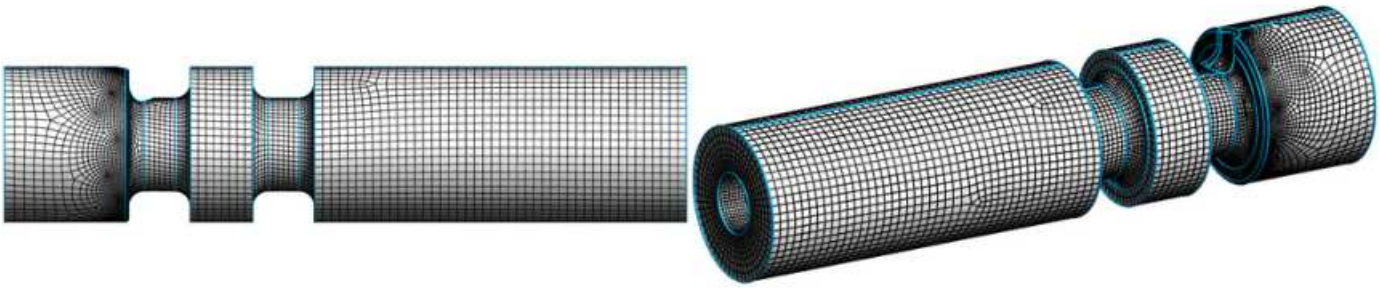


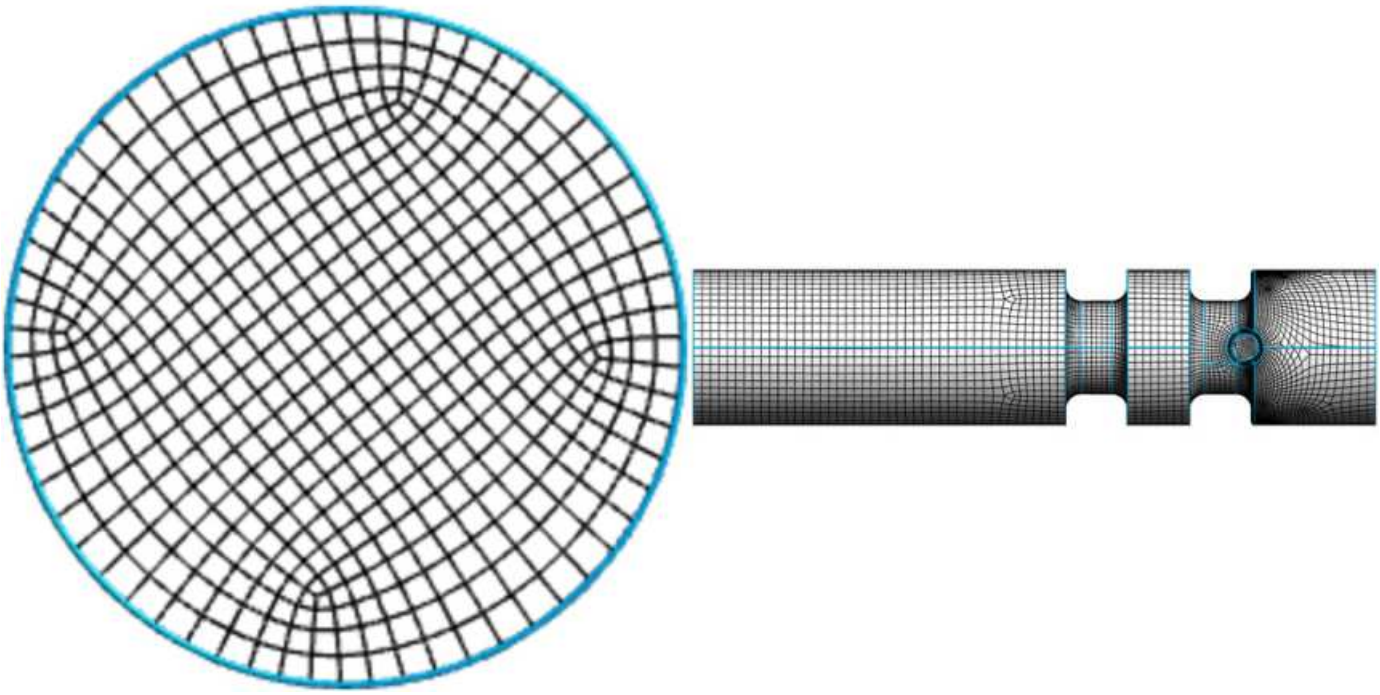
Model: 00000934 (from ABC dataset)
CAD: 33 corners, 58 curves, 29 faces
Cross field: 21 singularities detected
Timings: 7.46979 sec to generate the unstructured mesh, 11.7237 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15676	17372	500	188
Quasi-structured	15986	17682	128	0

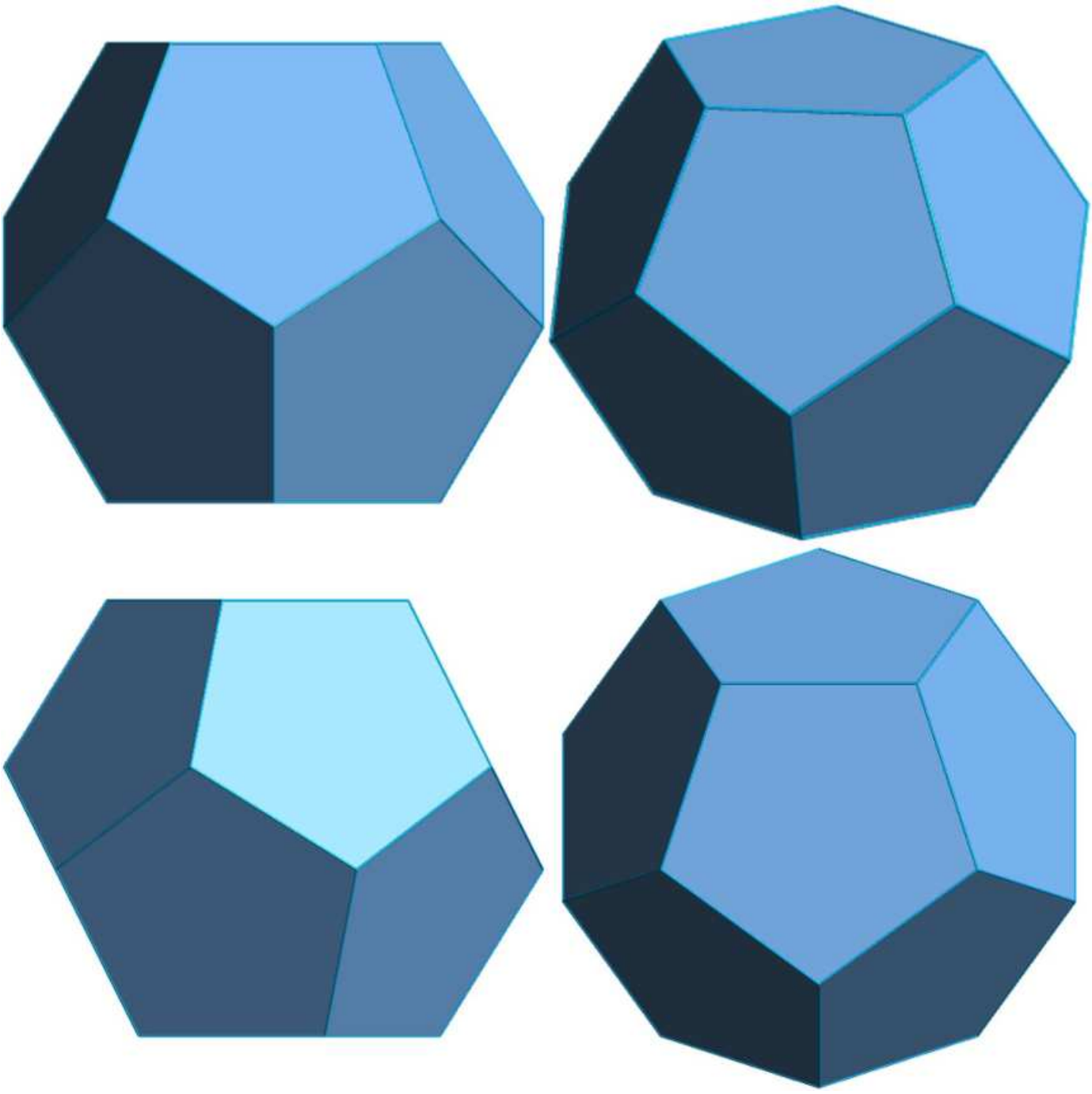
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.125994	1.49822	4.60836	0.0899425	0.921045	0.987572
Quasi-structured	0.0912631	1.47567	4.80563	0.163047	0.93556	0.988354





Model: 00000952 (from ABC dataset)
Error: failed to build quadrilateral mesh



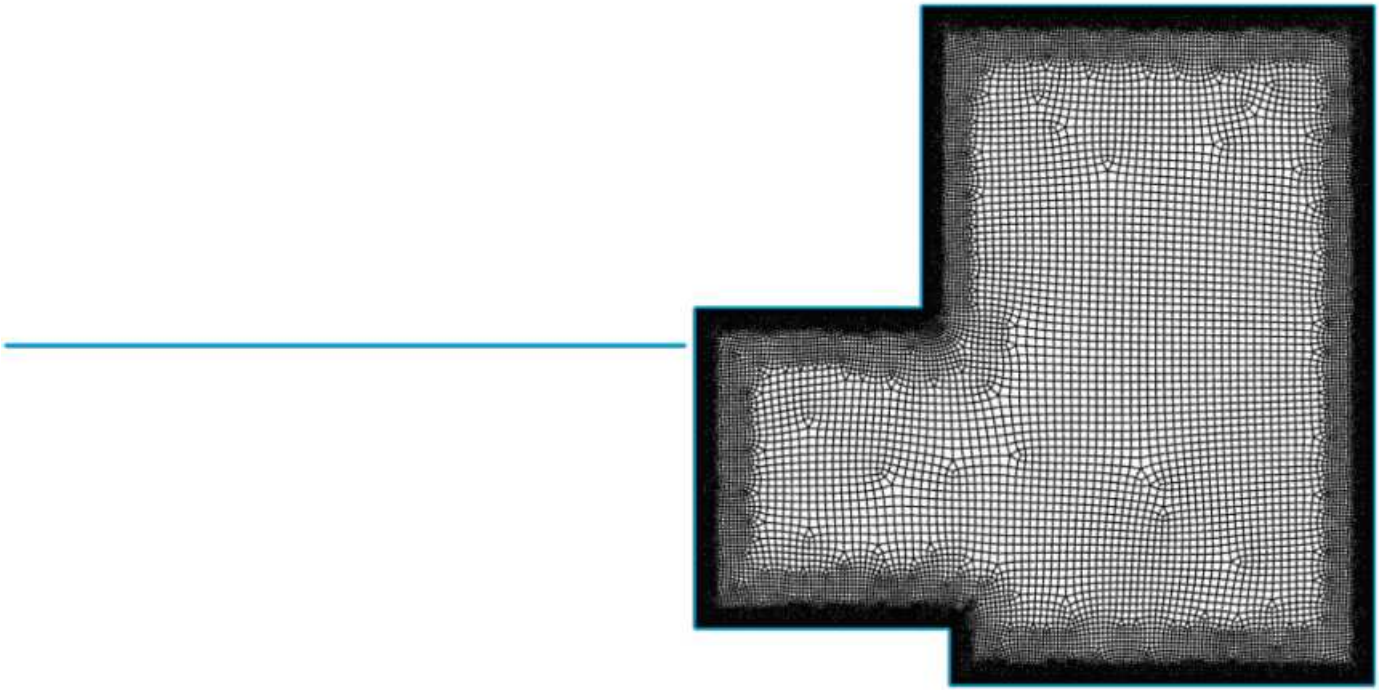
Model: 00000960 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 9.07463 sec to generate the unstructured mesh, 592.224 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	95484	101658	4227	485
Quasi-structured	96172	102346	4002	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.1323	11.42	72.3001	0.407343	0.937484	0.98395
Quasi-structured	1.96609	11.1308	63.6376	0.714579	0.980363	0.997025



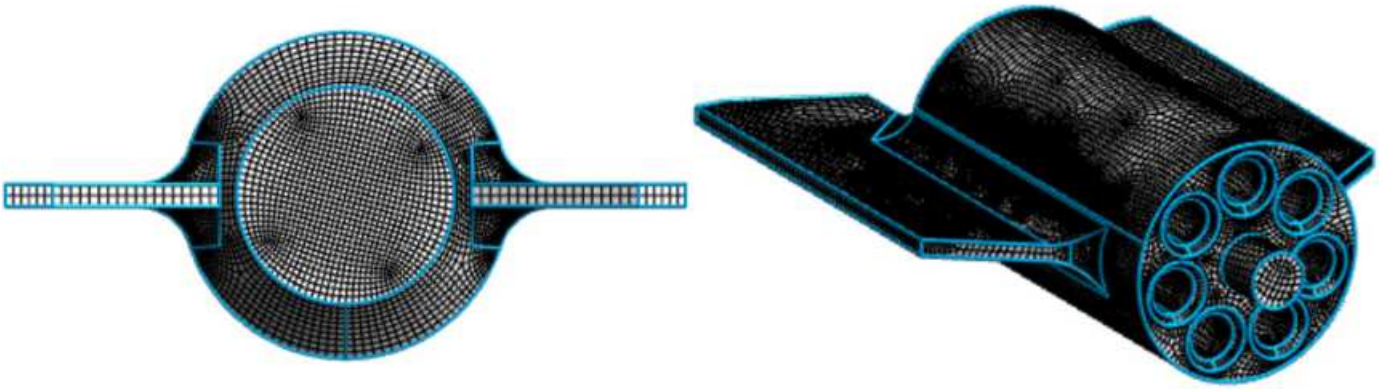


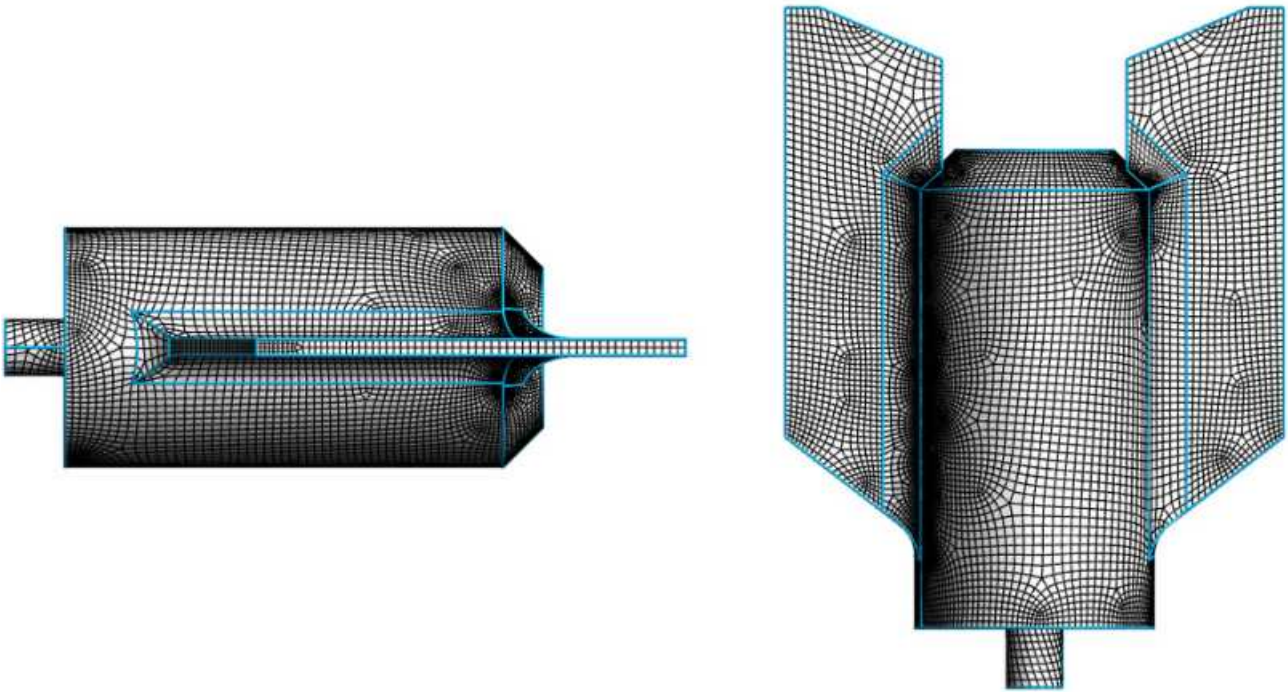
Model: 00000971 (from ABC dataset)
CAD: 92 corners, 139 curves, 57 faces
Cross field: 88 singularities detected
Timings: 13.6828 sec to generate the unstructured mesh, 30.39 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28924	31868	1591	568
Quasi-structured	30678	33622	456	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0669572	0.65523	1.92088	0.0377891	0.930503	0.976295
Quasi-structured	0.0538513	0.634661	3.23044	0.0713983	0.947519	0.981645



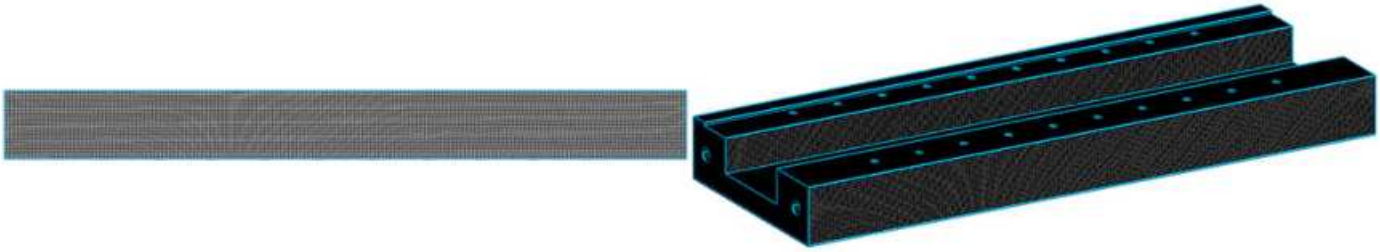


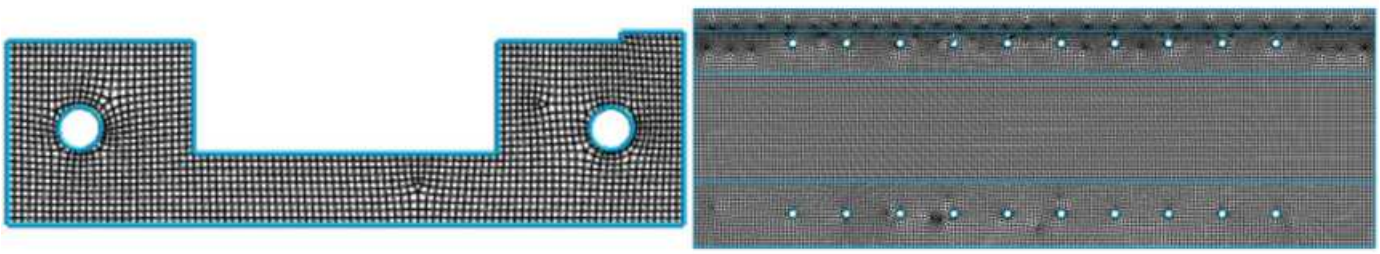
Model: 00001002 (from ABC dataset)
CAD: 111 corners, 153 curves, 34 faces
Cross field: 331 singularities detected
Timings: 101.139 sec to generate the unstructured mesh, 160.254 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	160860	166538	6587	2404
Quasi-structured	155969	161647	2792	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0033481	0.640952	1.57954	0.0873155	0.950897	0.988736
Quasi-structured	0.0033481	0.654143	2.52875	0.130482	0.974694	0.995754



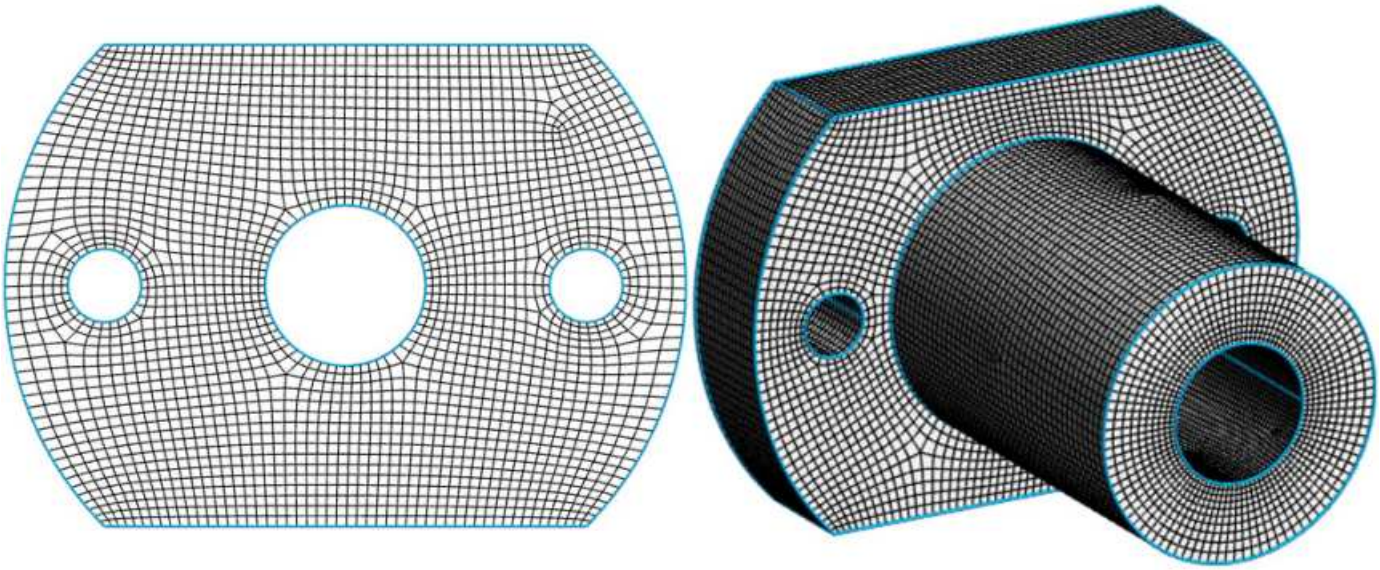


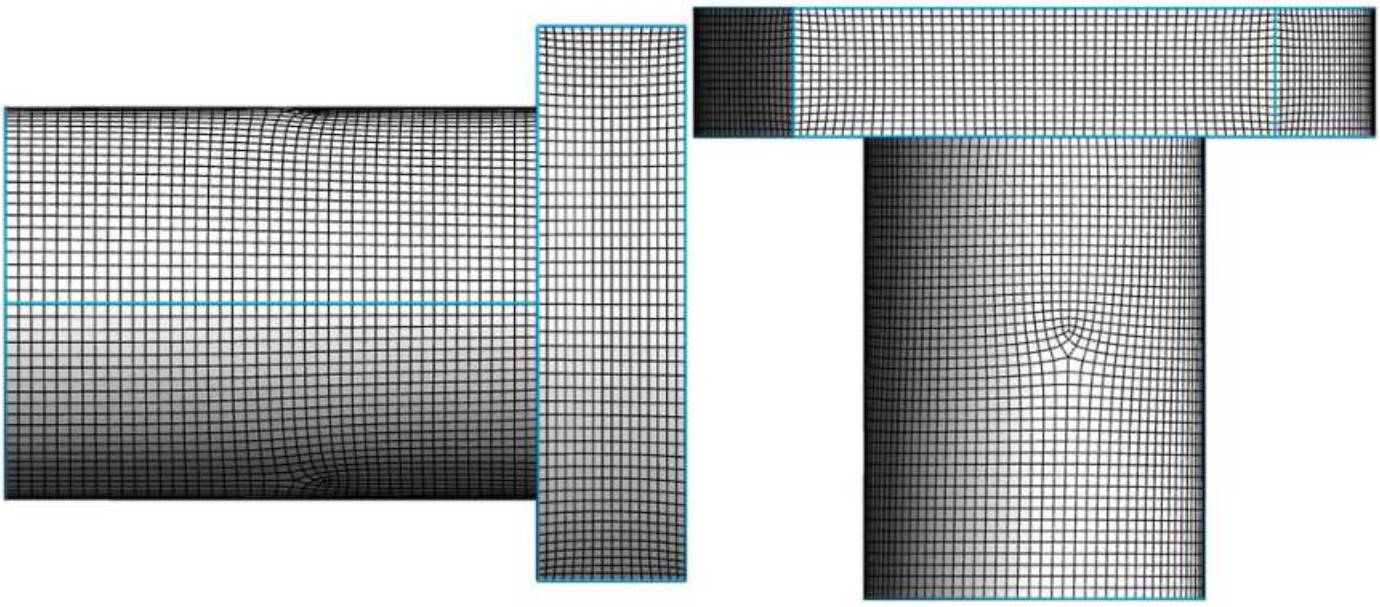
Model: 00001009 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 24 singularities detected
Timings: 15.8341 sec to generate the unstructured mesh, 5.69556 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20286	21216	264	166
Quasi-structured	20155	21085	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0742994	0.350991	0.709155	0.438421	0.975164	0.993792
Quasi-structured	0.123611	0.351562	0.988414	0.625195	0.985366	0.997043



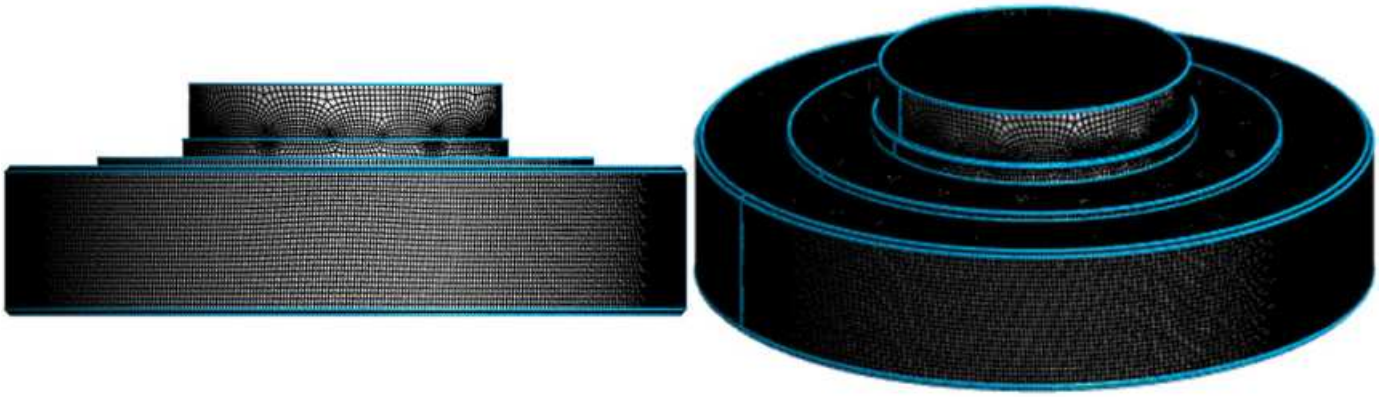


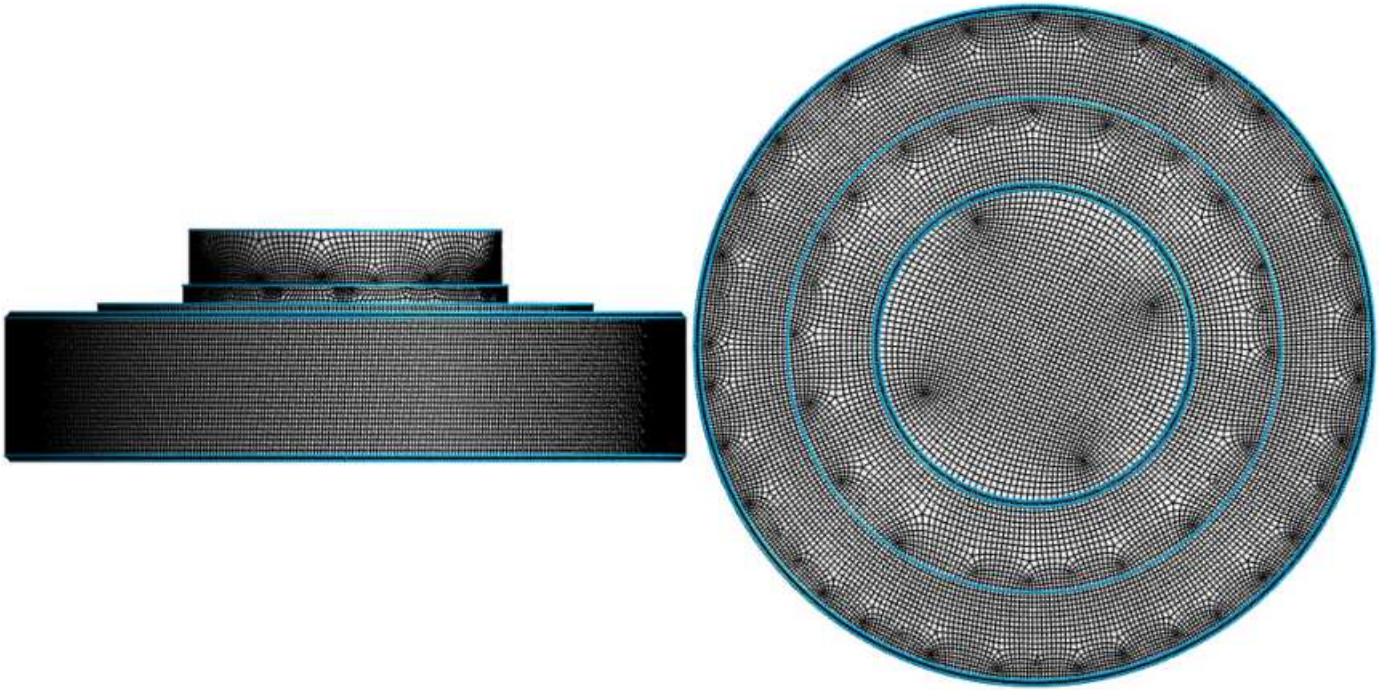
Model: 00001016 (from ABC dataset)
CAD: 16 corners, 25 curves, 15 faces
Cross field: 8 singularities detected
Timings: 15.1916 sec to generate the unstructured mesh, 230.647 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	57734	63532	2316	365
Quasi-structured	63636	69434	404	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.226789	1.17506	3.35777	0.32049	0.935432	0.979977
Quasi-structured	0.31182	1.13192	3.2854	0.40574	0.954212	0.963046



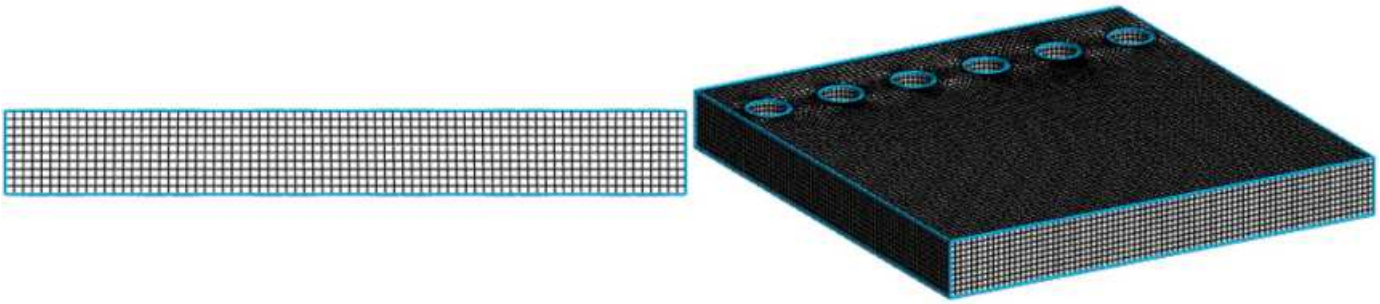


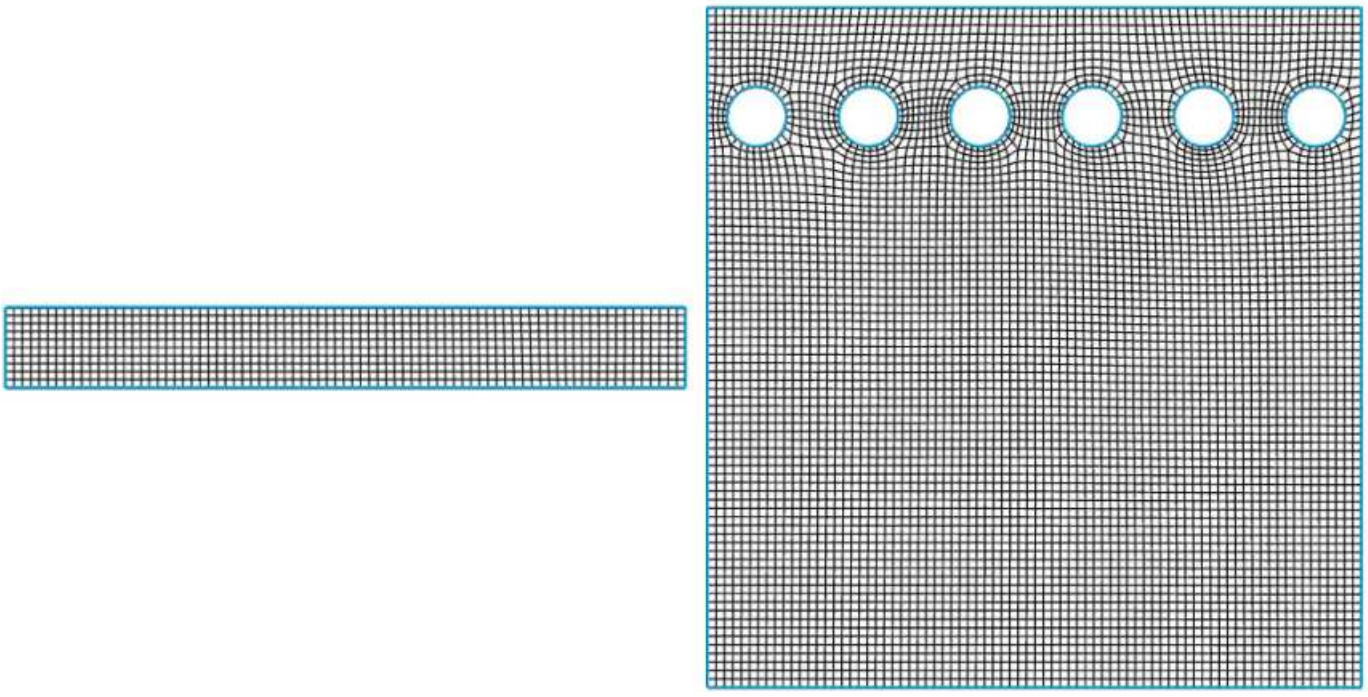
Model: 00001020 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 48 singularities detected
Timings: 15.1758 sec to generate the unstructured mesh, 2.56897 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17366	18378	192	80
Quasi-structured	17397	18409	52	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.369151	1.27725	2.22921	0.353458	0.982849	0.99862
Quasi-structured	0.634212	1.27416	2.54491	0.672277	0.992512	0.999026



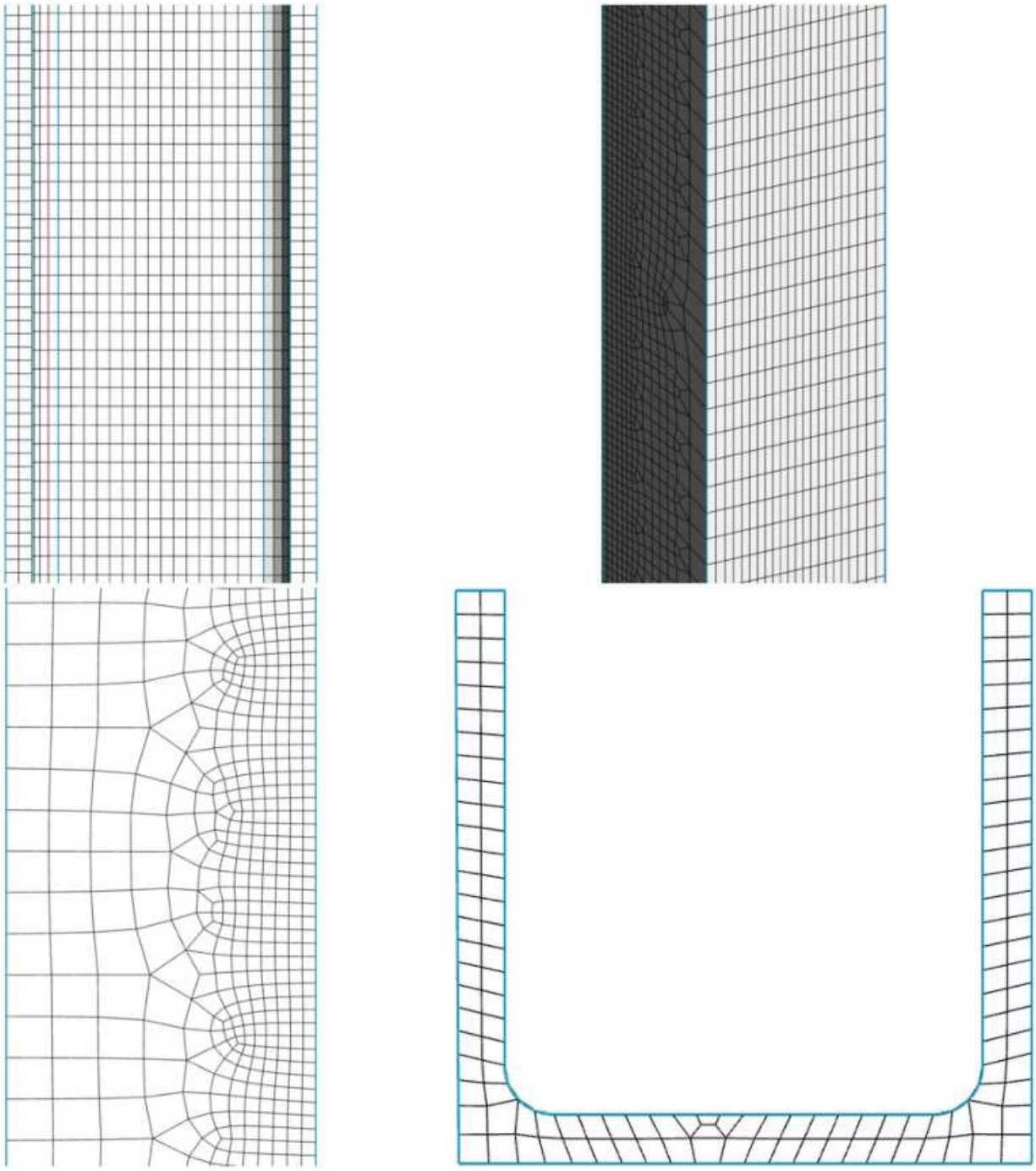


Model: 00001049 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 0 singularities detected
Timings: 3.46739 sec to generate the unstructured mesh, 521.773 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	77946	86246	2088	305
Quasi-structured	81438	89738	1812	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.624203	2.02238	5.68496	0.28713	0.898029	0.948794
Quasi-structured	0.549619	1.94815	8.86648	0.381932	0.925181	0.982127

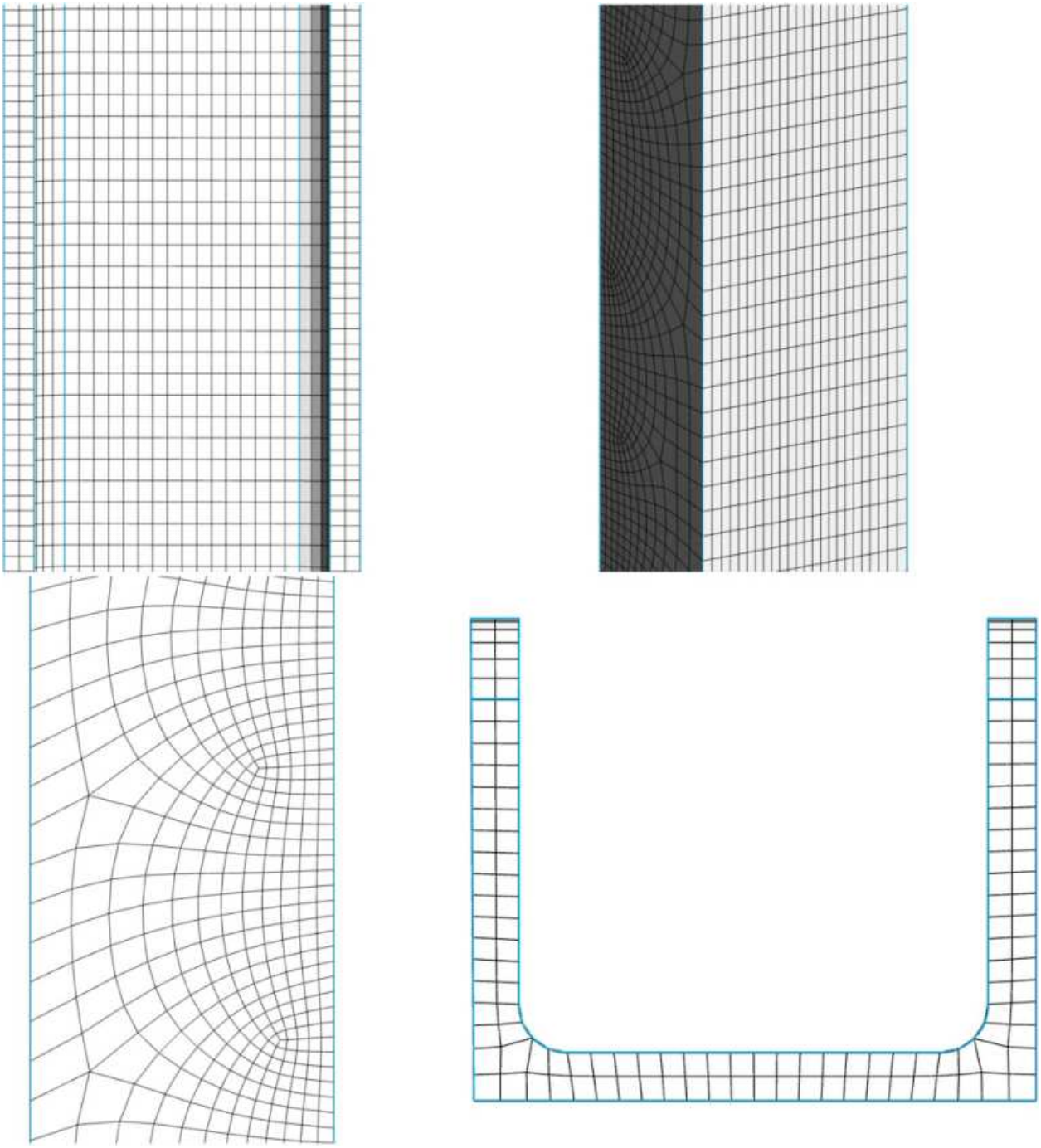


Model: 00001050 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 8 singularities detected
Timings: 2.74912 sec to generate the unstructured mesh, 55.286 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	33386	37232	812	70
Quasi-structured	35433	39279	256	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.619114	1.95001	4.5978	0.258821	0.903653	0.949856
Quasi-structured	0.616153	1.88498	7.6494	0.600713	0.921638	0.964372



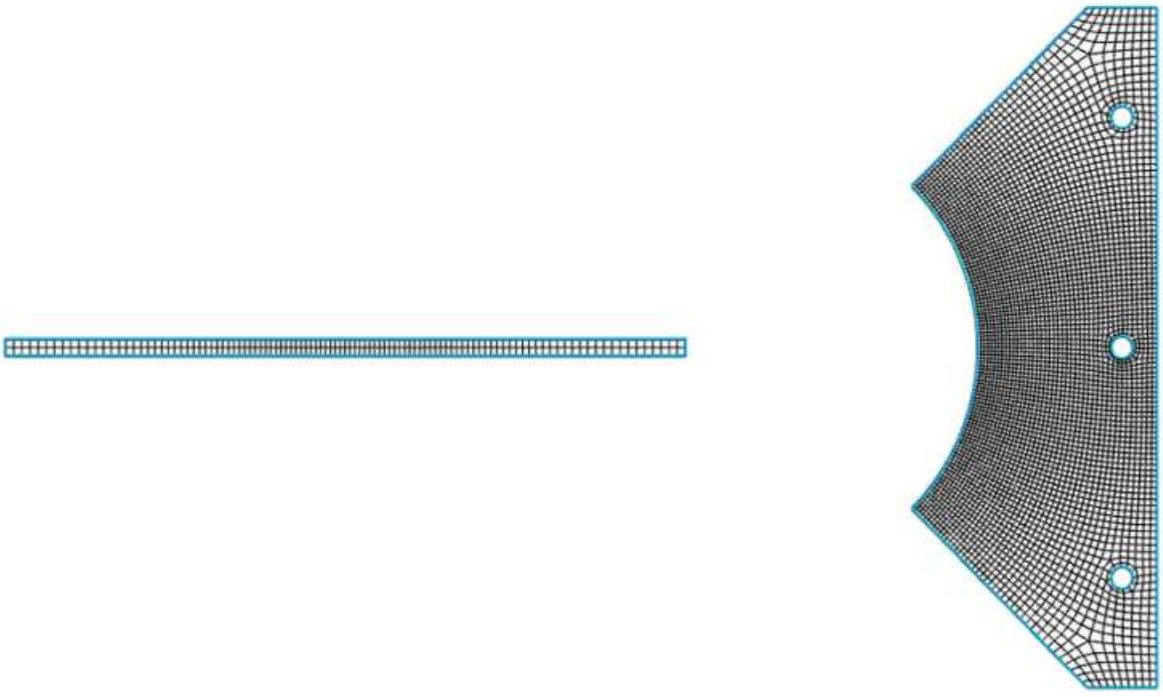
Model: 00001071 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 28 singularities detected
Timings: 9.48209 sec to generate the unstructured mesh, 1.52815 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9942	10676	153	18
Quasi-structured	9962	10696	38	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.159227	0.461766	1.27921	0.354844	0.975755	0.99784
Quasi-structured	0.204681	0.459038	1.45227	0.67794	0.986219	0.998794



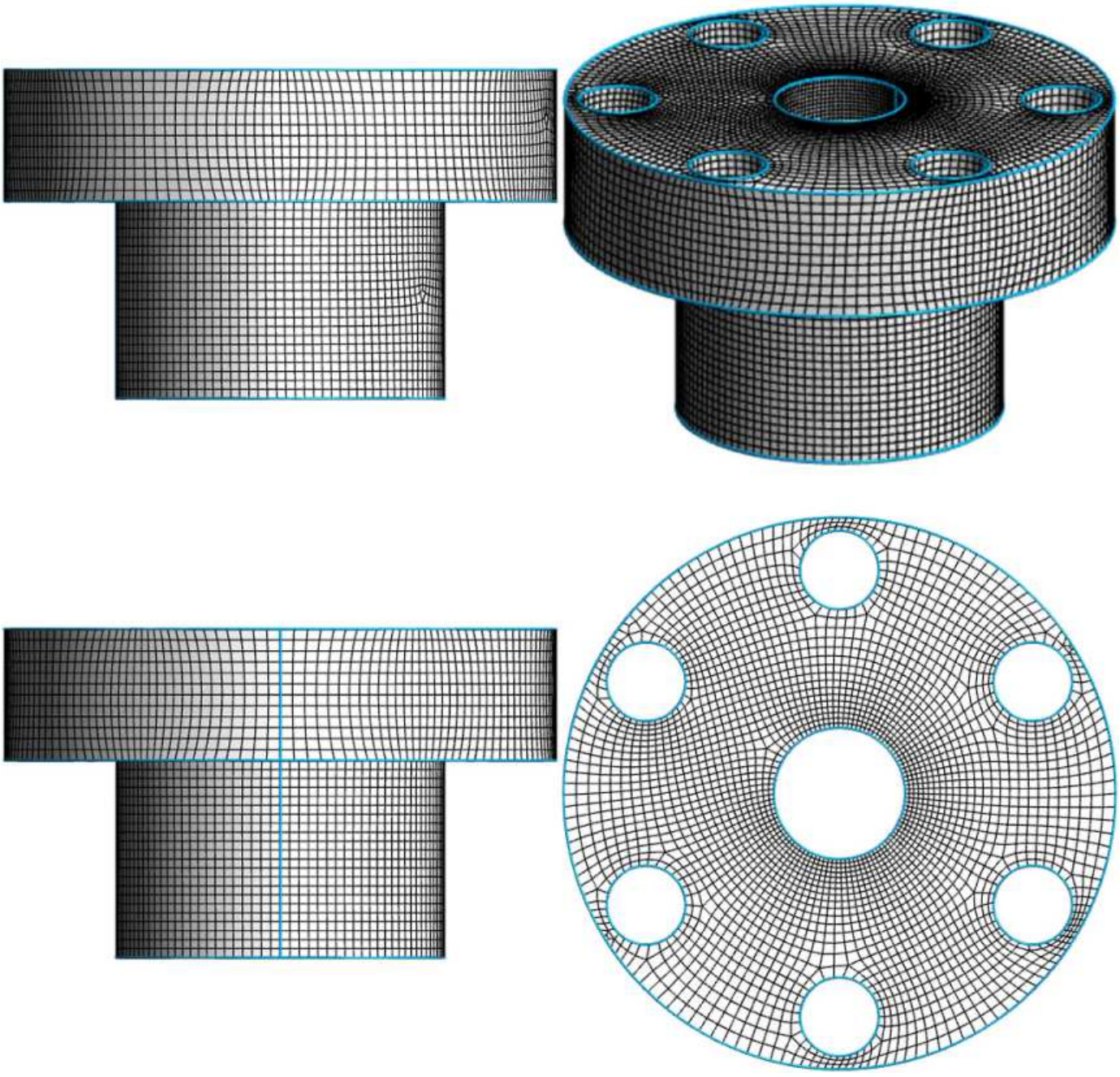


Model: 00001097 (from ABC dataset)
CAD: 24 corners, 33 curves, 12 faces
Cross field: 48 singularities detected
Timings: 16.9167 sec to generate the unstructured mesh, 5.49387 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21150	22282	412	208
Quasi-structured	21232	22364	98	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.120383	0.527909	1.30422	0.232312	0.974135	0.995645
Quasi-structured	0.170252	0.527764	1.83041	0.513447	0.985348	0.997986

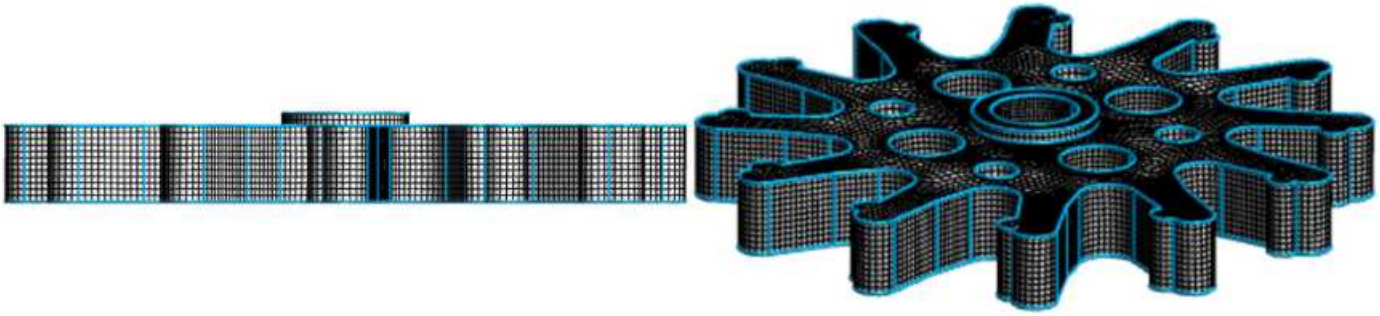


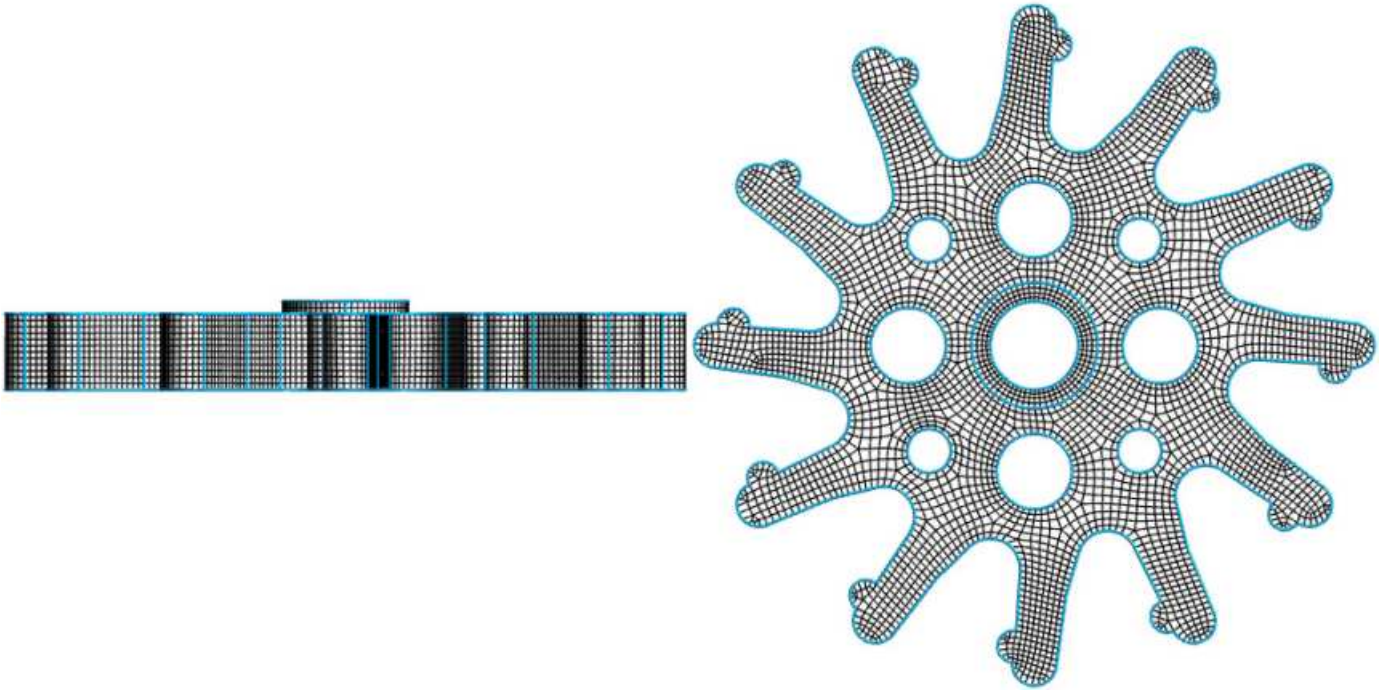
Model: 00001108 (from ABC dataset)
CAD: 165 corners, 247 curves, 85 faces
Cross field: 208 singularities detected
Timings: 11.7993 sec to generate the unstructured mesh, 7.03062 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20100	23190	558	144
Quasi-structured	19985	23075	326	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.153329	0.511255	1.13183	0.285697	0.966602	0.9952
Quasi-structured	0.195249	0.5115	1.30117	0.553369	0.976567	0.995528



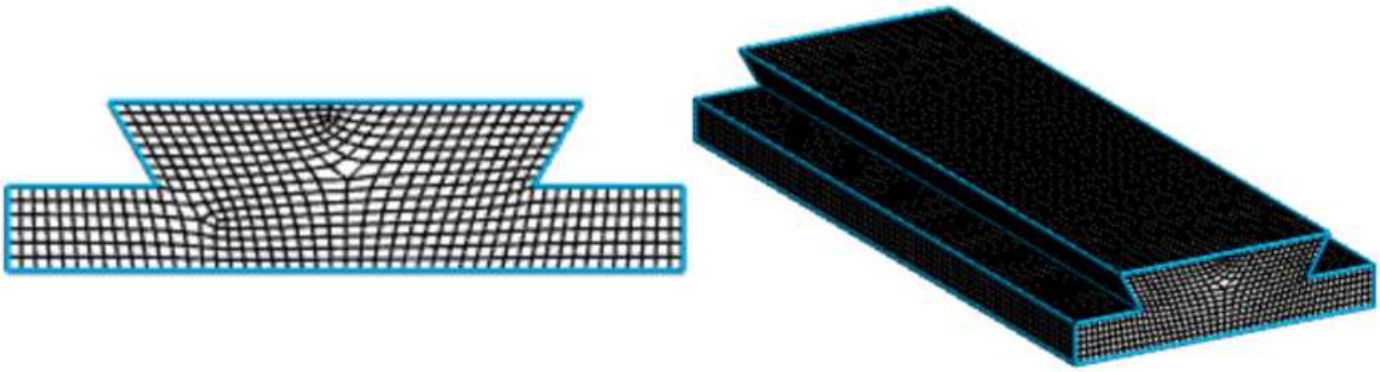


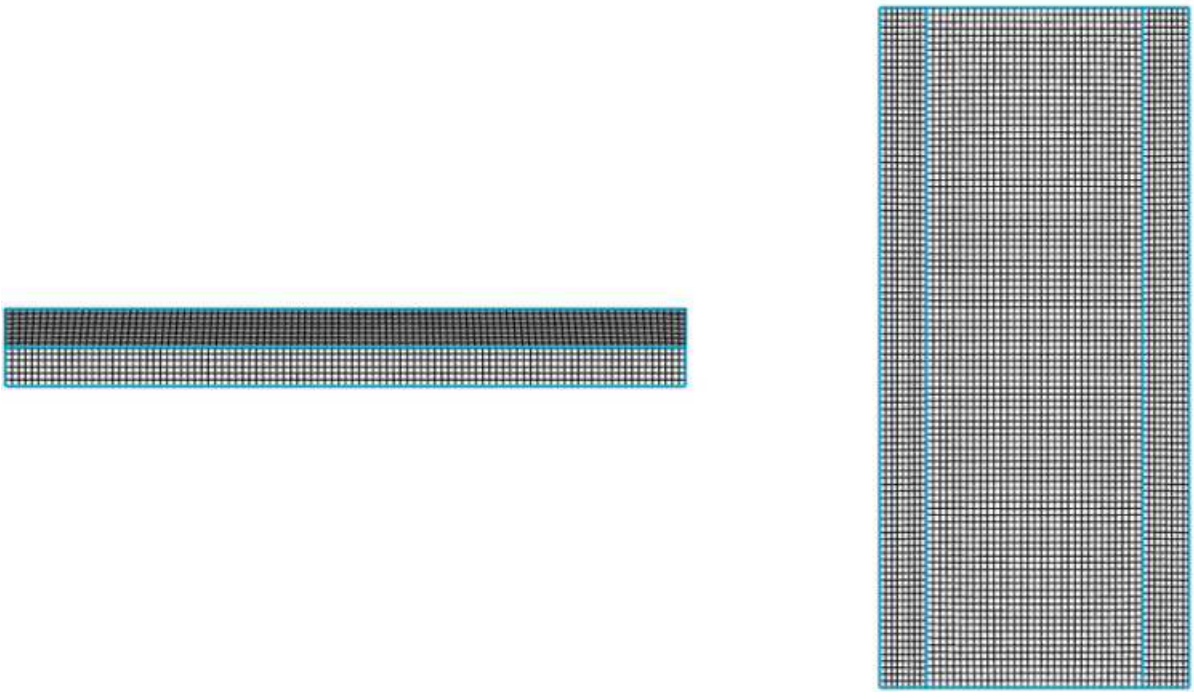
Model: 00001109 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 5.68078 sec to generate the unstructured mesh, 0.856909 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14128	15202	44	2
Quasi-structured	14250	15324	6	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.952914	2.6869	4.14386	0.434255	0.991358	0.99809
Quasi-structured	0.99708	2.67973	5.79444	0.586109	0.988419	0.998164



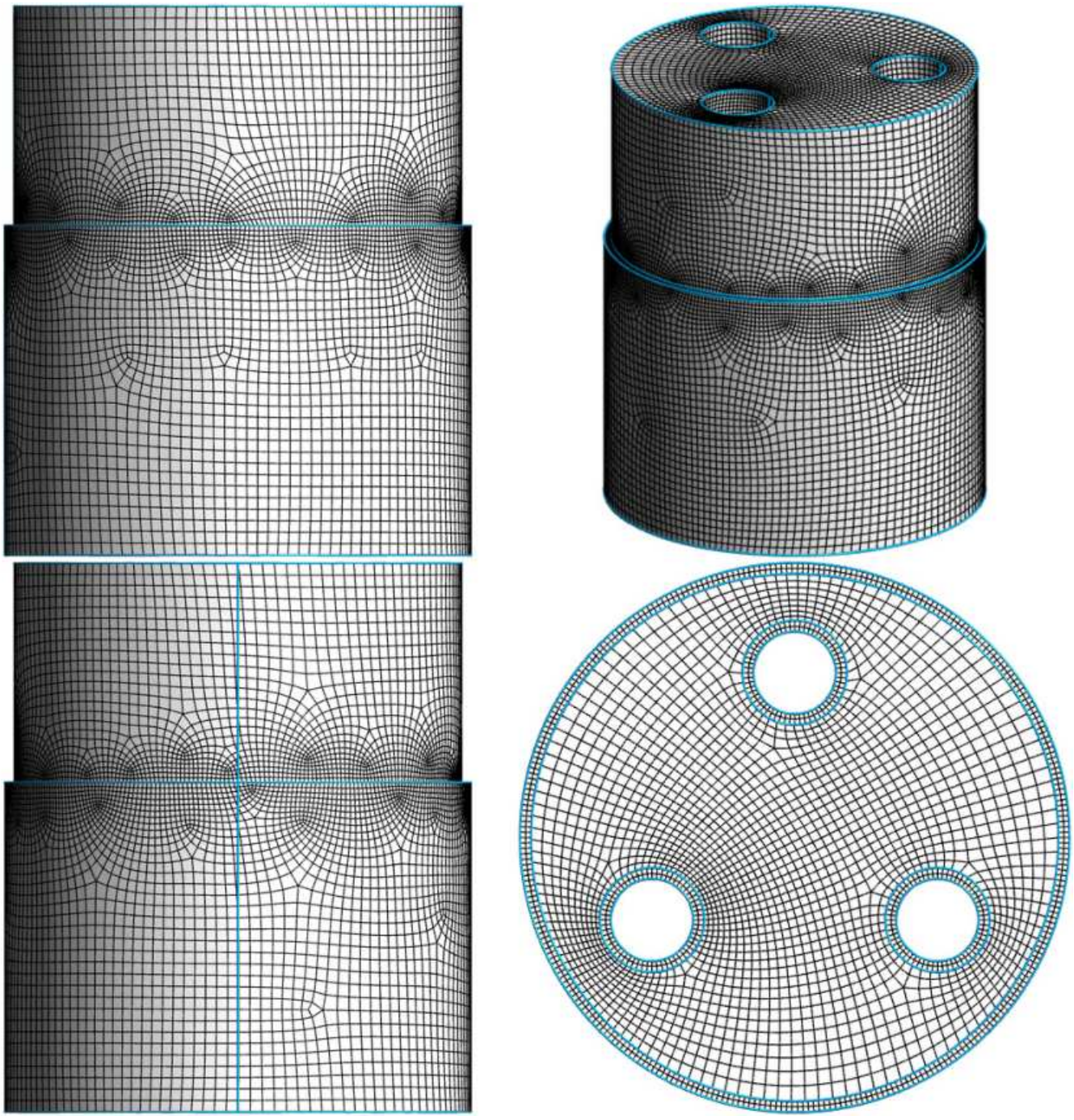


Model: 00001124 (from ABC dataset)
CAD: 16 corners, 24 curves, 14 faces
Cross field: 16 singularities detected
Timings: 24.0413 sec to generate the unstructured mesh, 51.6827 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30732	32254	578	401
Quasi-structured	31332	32854	164	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.422096	1.80197	5.01324	0.407139	0.966858	0.993463
Quasi-structured	0.501075	1.77137	5.28191	0.702253	0.986835	0.994353

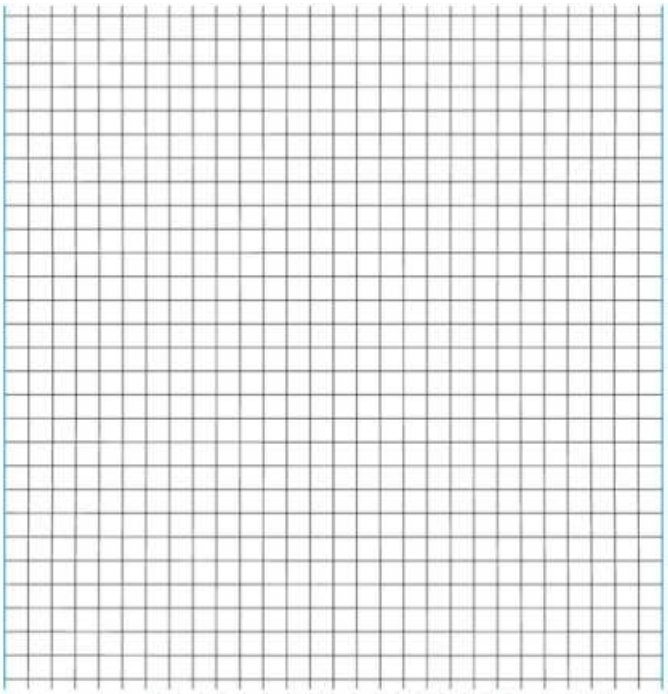


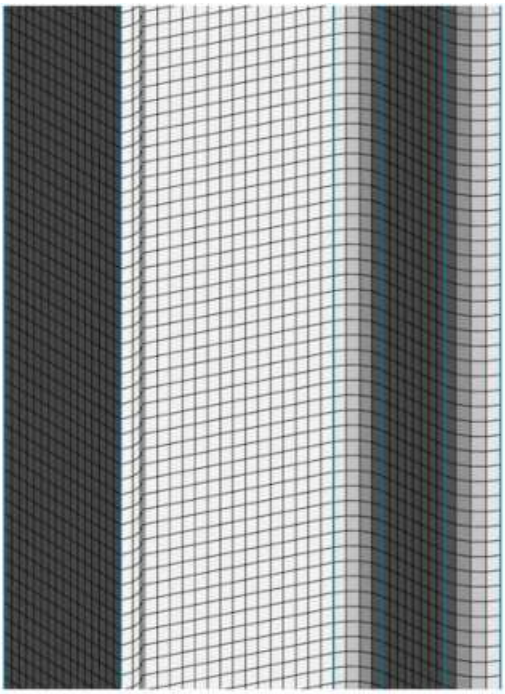
Model: 00001146 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 8 singularities detected
Timings: 7.385 sec to generate the unstructured mesh, 1.05232 sec to make it quasi-structured
Mesh topology:

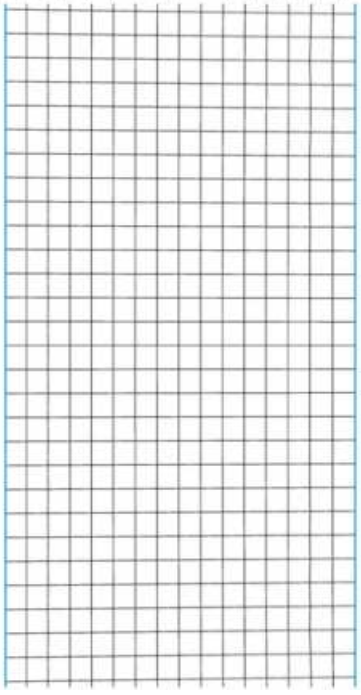
	# quads	# vertices	# irregular	# very irregular
Unstructured	12446	13778	36	0
Quasi-structured	12446	13778	36	0

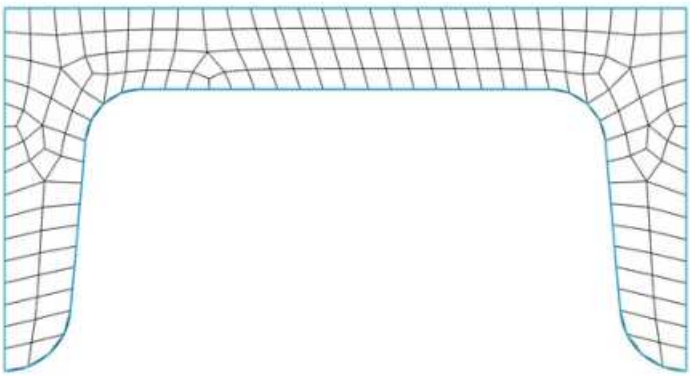
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.794546	2.66559	4.37441	0.362197	0.991338	0.99593
Quasi-structured	1.15621	2.66501	4.71105	0.362197	0.992638	0.99572







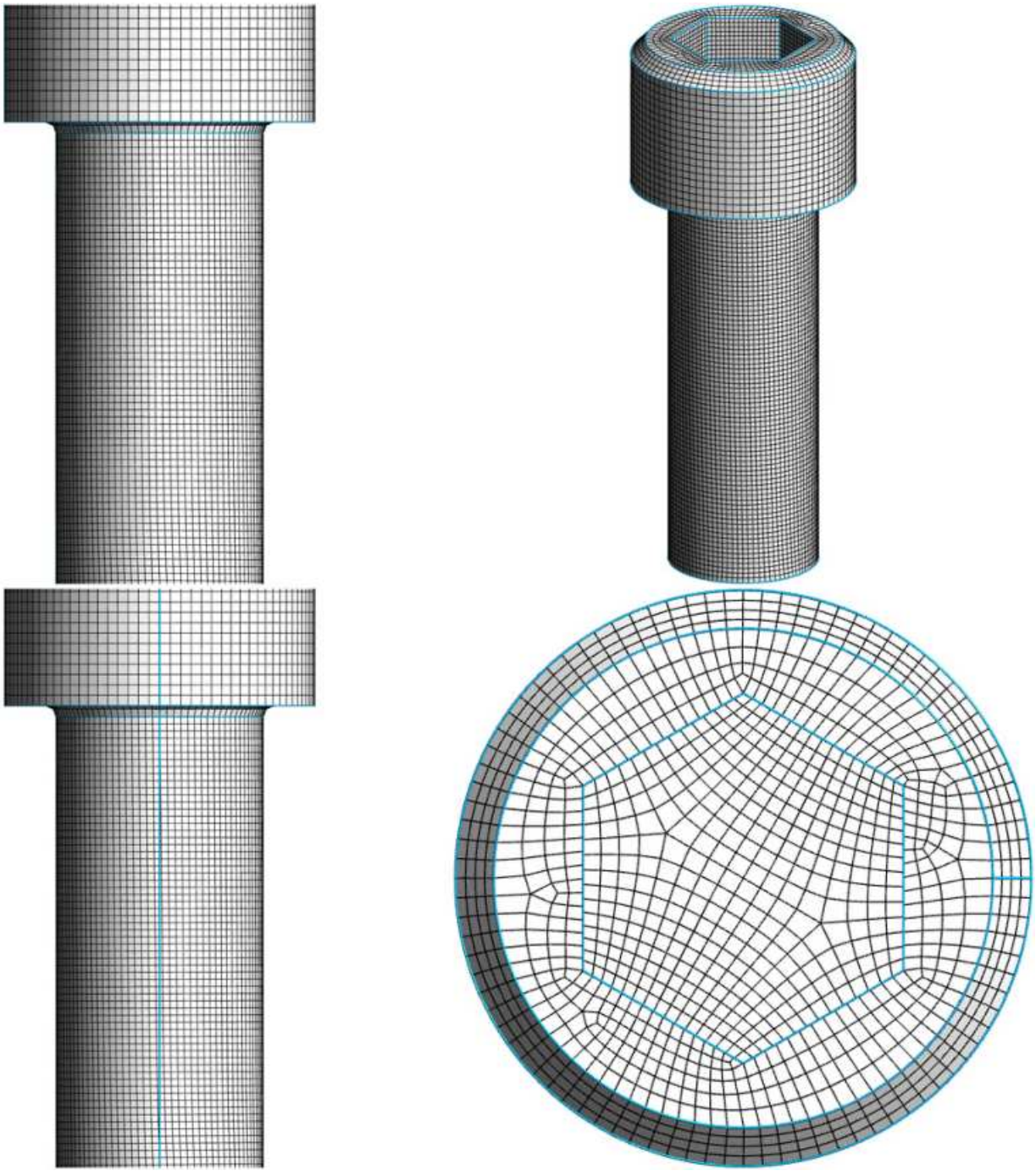


Model: 00001177 (from ABC dataset)
CAD: 18 corners, 28 curves, 14 faces
Cross field: 12 singularities detected
Timings: 8.49528 sec to generate the unstructured mesh, 1.01517 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12744	13576	103	98
Quasi-structured	12679	13511	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.108268	0.350577	0.586075	0.487277	0.983431	0.998367
Quasi-structured	0.120883	0.350498	0.894851	0.723865	0.993519	0.999669

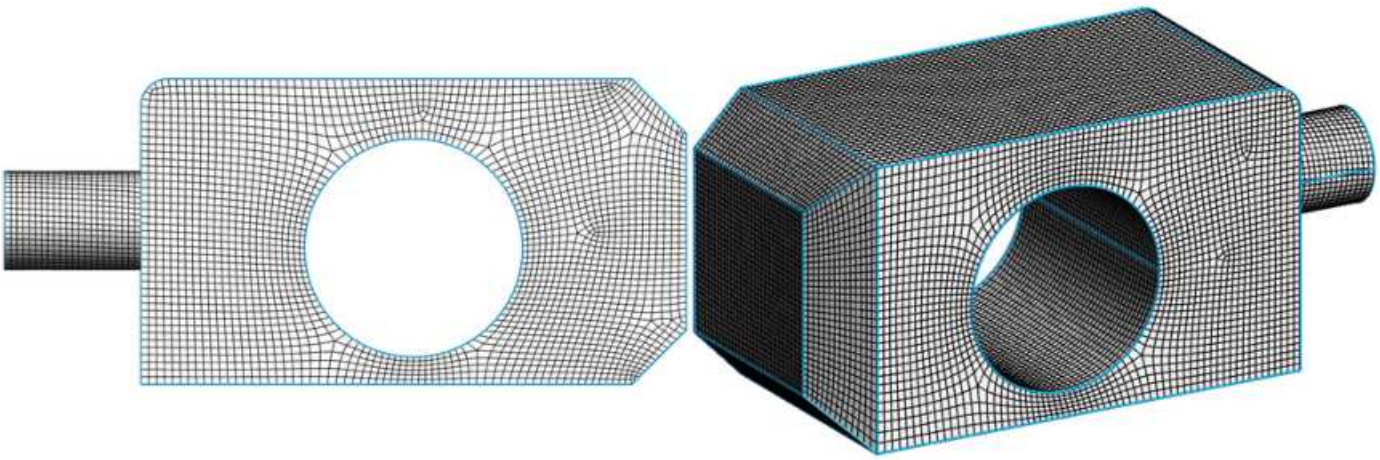


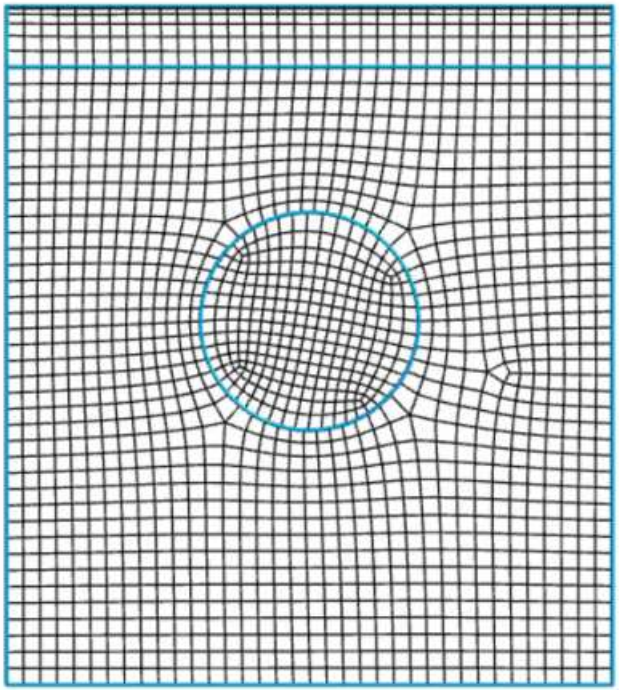
Model: 00001183 (from ABC dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 21 singularities detected
Timings: 9.82961 sec to generate the unstructured mesh, 1.60915 sec to make it quasi-structured
Mesh topology:

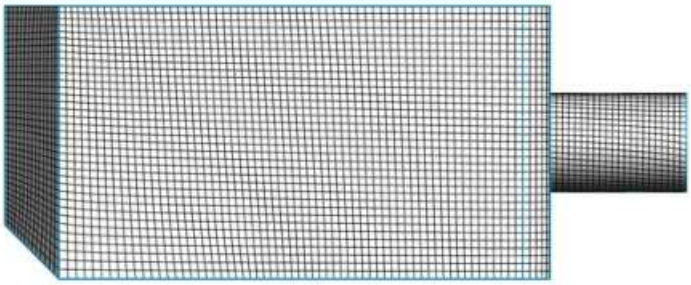
	# quads	# vertices	# irregular	# very irregular
Unstructured	18586	19646	175	65
Quasi-structured	18554	19614	44	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.384314	1.28519	2.61974	0.430937	0.979301	0.994124
Quasi-structured	0.454664	1.28455	3.29609	0.604592	0.987289	0.997078





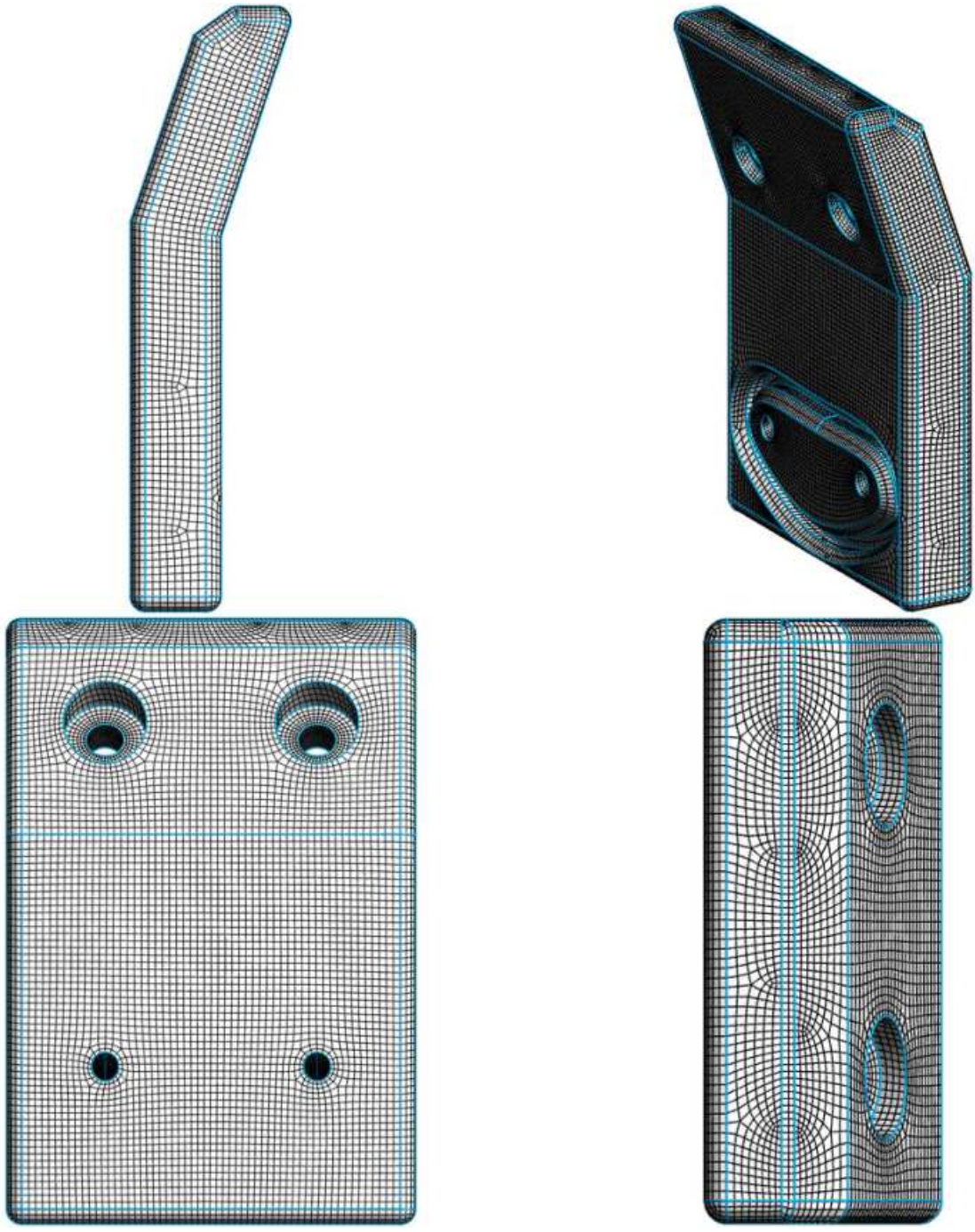


Model: 00001190 (from ABC dataset)
CAD: 70 corners, 126 curves, 55 faces
Cross field: 48 singularities detected
Timings: 12.0245 sec to generate the unstructured mesh, 6.89715 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20870	23894	482	121
Quasi-structured	20558	23582	138	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0659553	0.384403	0.853553	0.0923026	0.958273	0.988166
Quasi-structured	0.0290258	0.387374	0.817235	0.106301	0.968317	0.990509

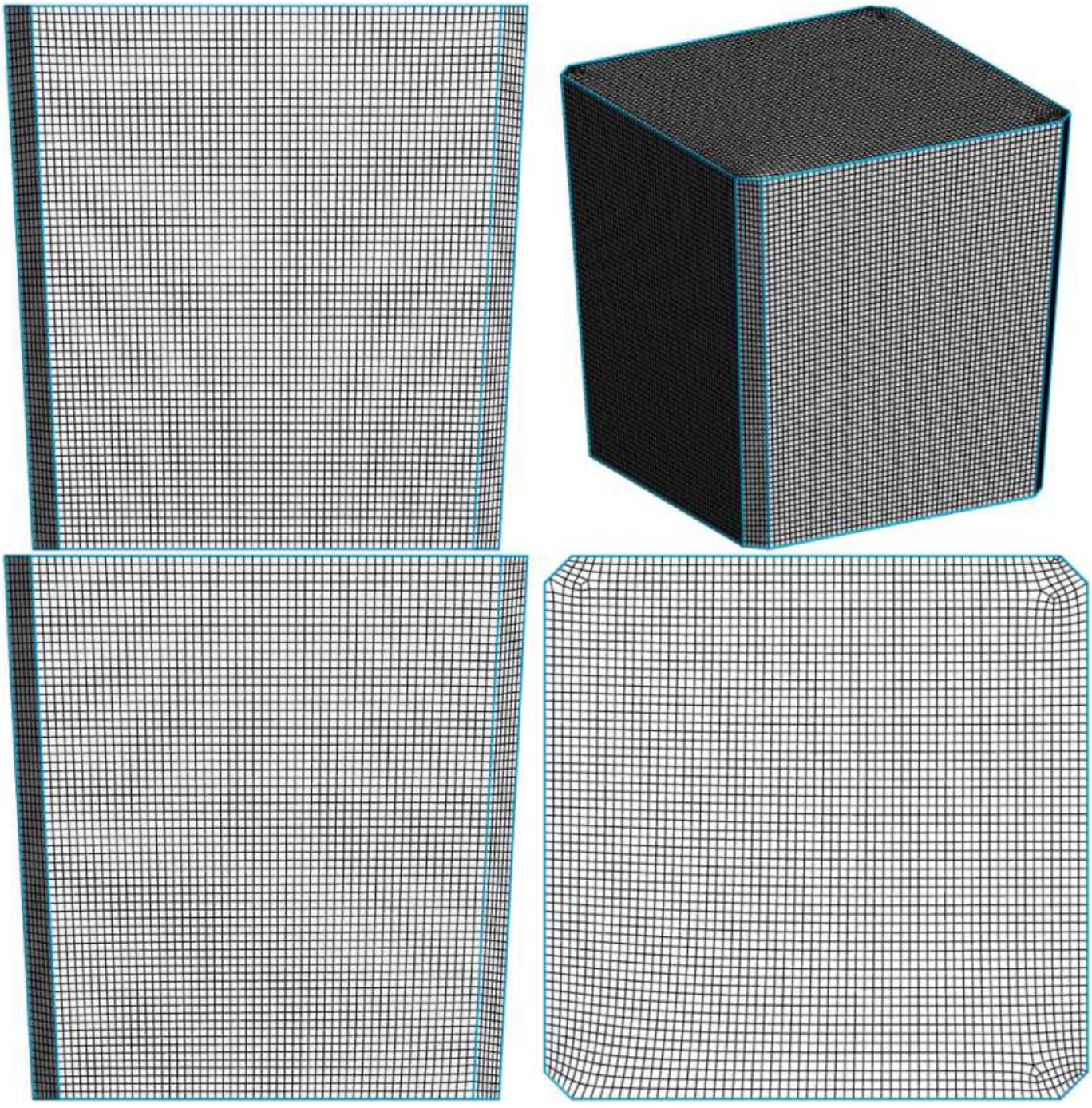


Model: 00001204 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 3 singularities detected
Timings: 12.2495 sec to generate the unstructured mesh, 2.98063 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23376	24402	68	3
Quasi-structured	23476	24502	27	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.69726	7.94256	13.8901	0.549197	0.991129	0.99835
Quasi-structured	2.781	7.92344	16.1463	0.646591	0.993963	0.998848

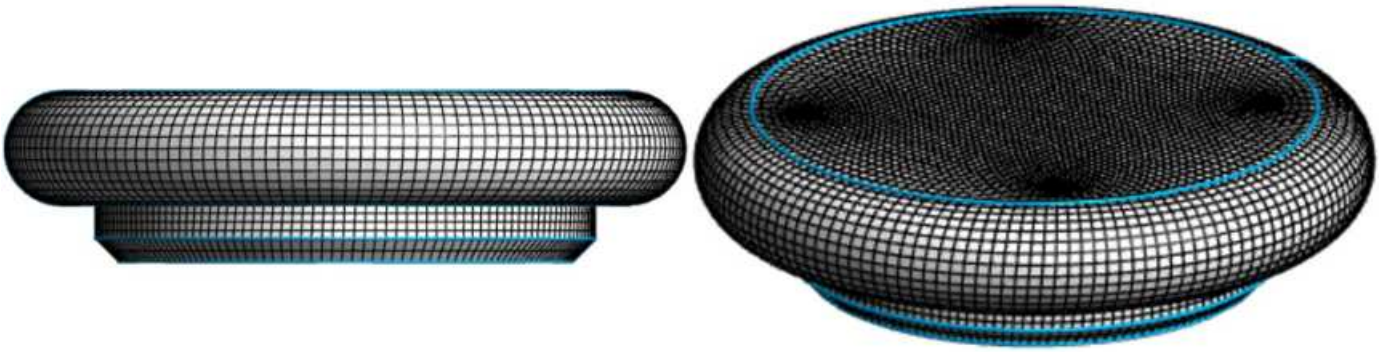


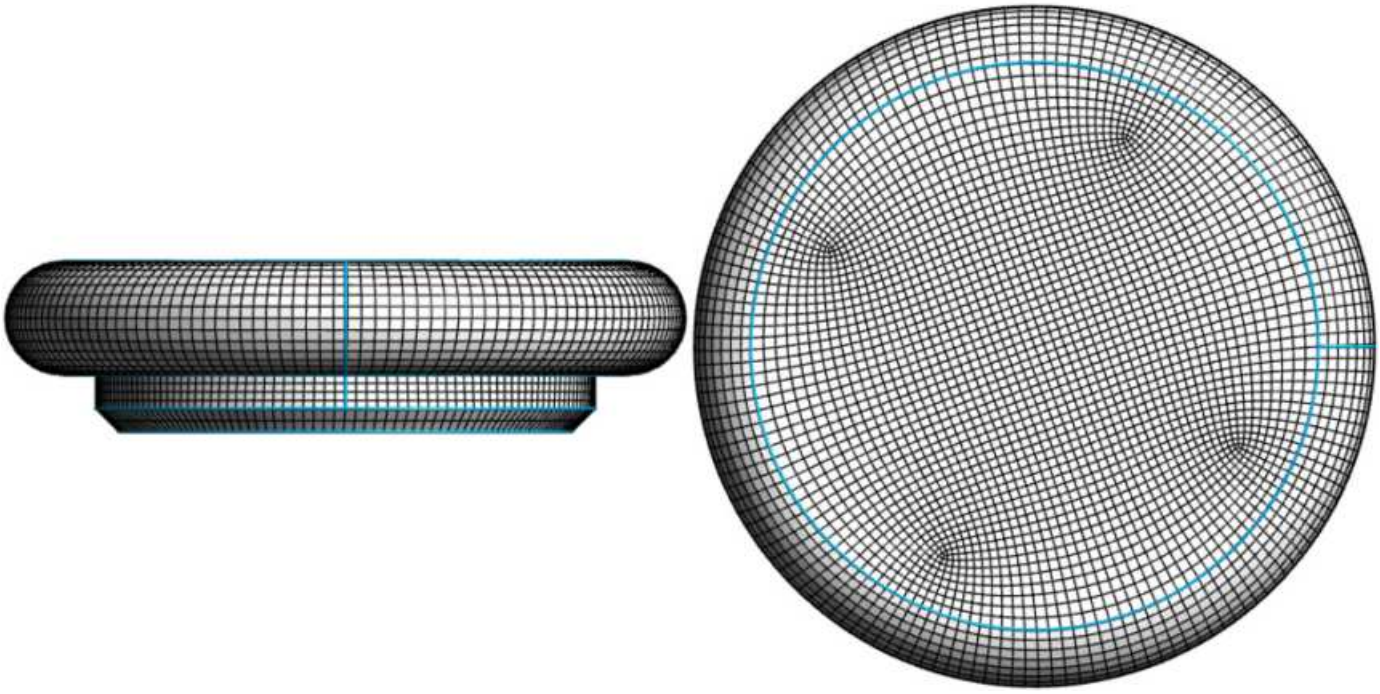
Model: 00001206 (from ABC dataset)
CAD: 23 corners, 34 curves, 15 faces
Cross field: 12 singularities detected
Timings: 10.8199 sec to generate the unstructured mesh, 1.92061 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12964	14254	152	20
Quasi-structured	12712	14002	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.254	0.985009	1.94303	0.19809	0.969021	0.99412
Quasi-structured	0.289248	0.990171	1.9714	0.631051	0.984636	0.996189



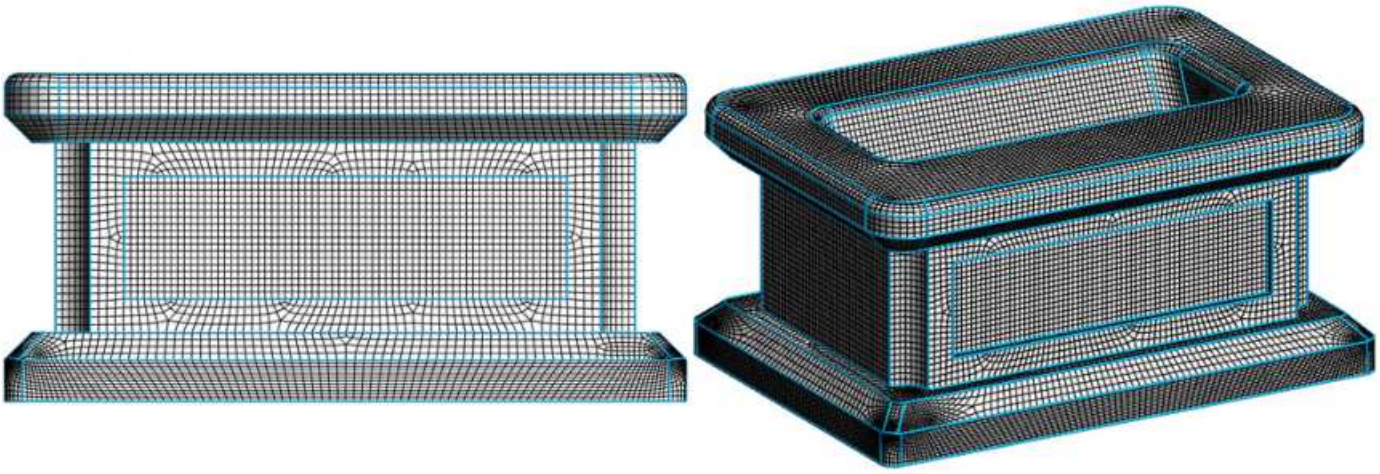


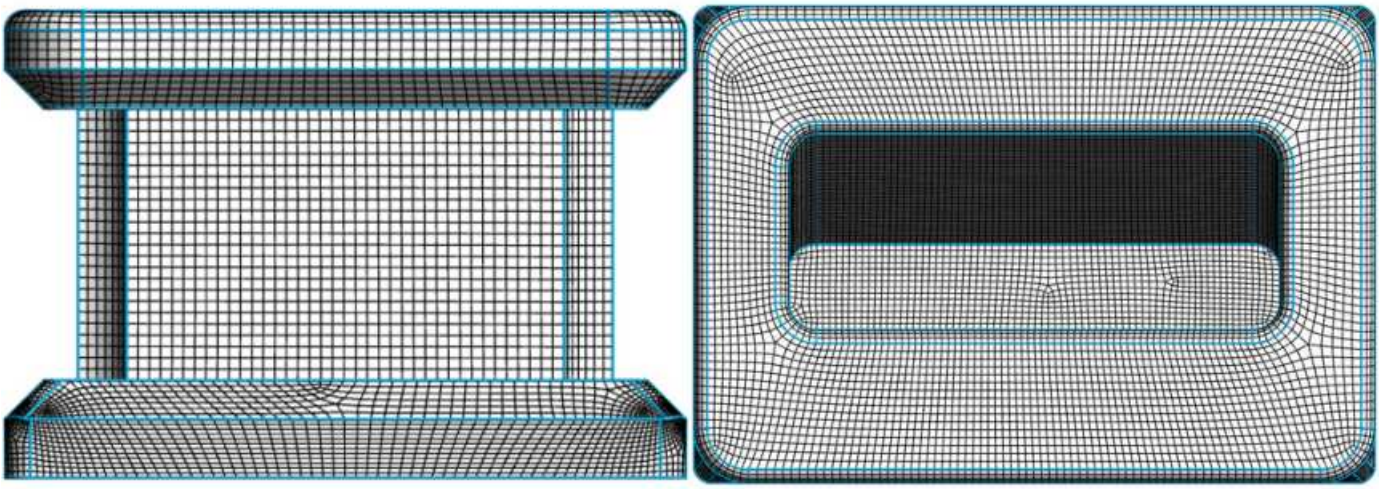
Model: 00001208 (from ABC dataset)
CAD: 120 corners, 192 curves, 79 faces
Cross field: 32 singularities detected
Timings: 21.88 sec to generate the unstructured mesh, 30.6164 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34610	39244	475	8
Quasi-structured	35355	39989	220	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.153924	1.29987	2.67512	0.0909712	0.941272	0.984965
Quasi-structured	0.174985	1.28572	3.33748	0.0909712	0.944588	0.982219



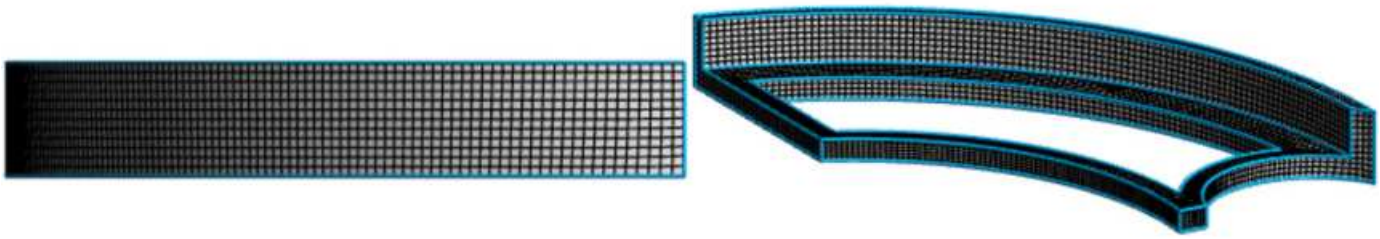


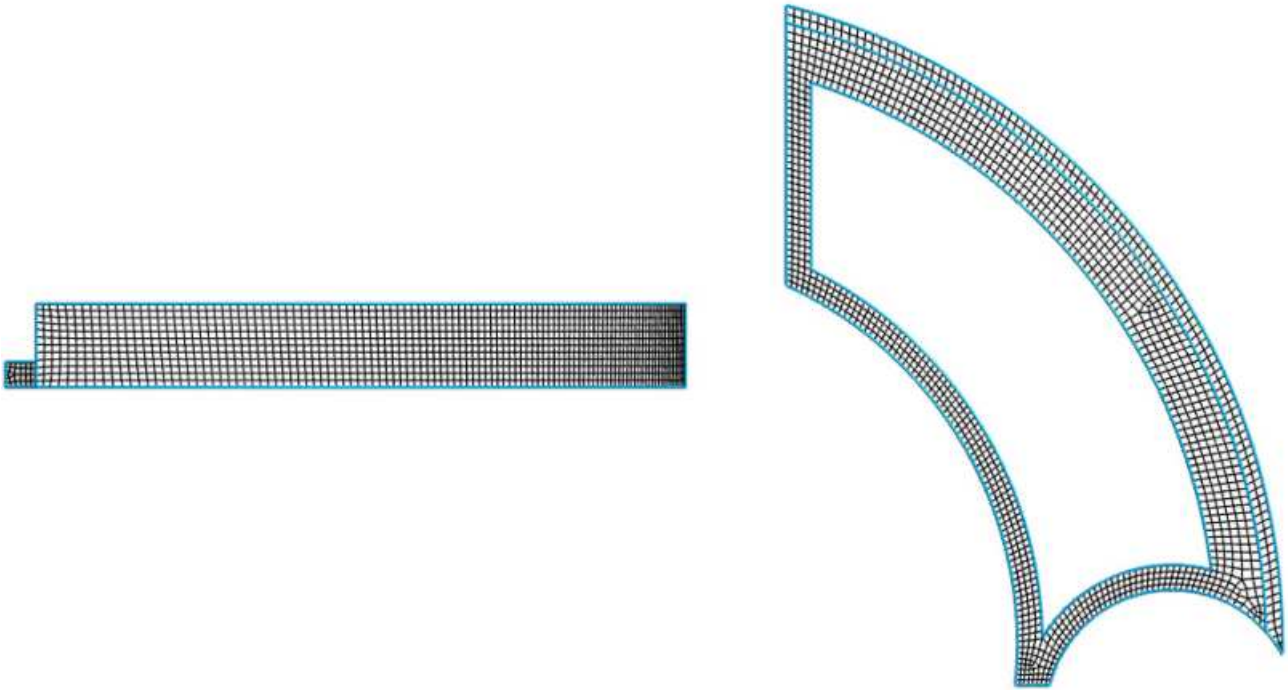
Model: 00001211 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 2 singularities detected
Timings: 4.97125 sec to generate the unstructured mesh, 1.10271 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6676	7965	56	0
Quasi-structured	6681	7970	21	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.364336	1.71467	3.25254	0.407254	0.970105	0.987595
Quasi-structured	0.50559	1.71113	3.65624	0.518857	0.977437	0.983937



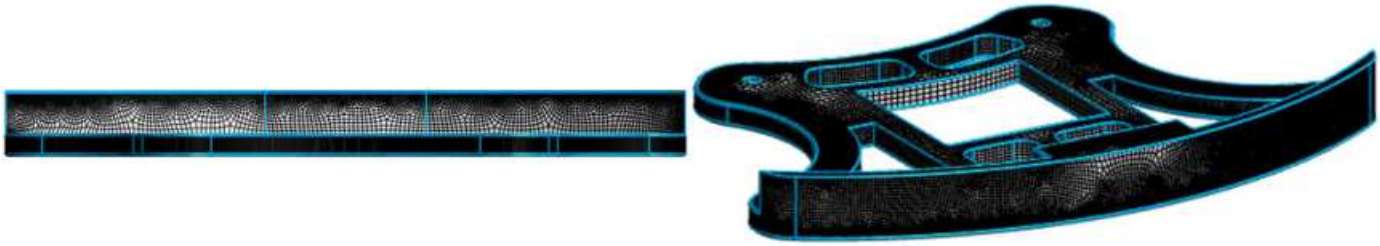


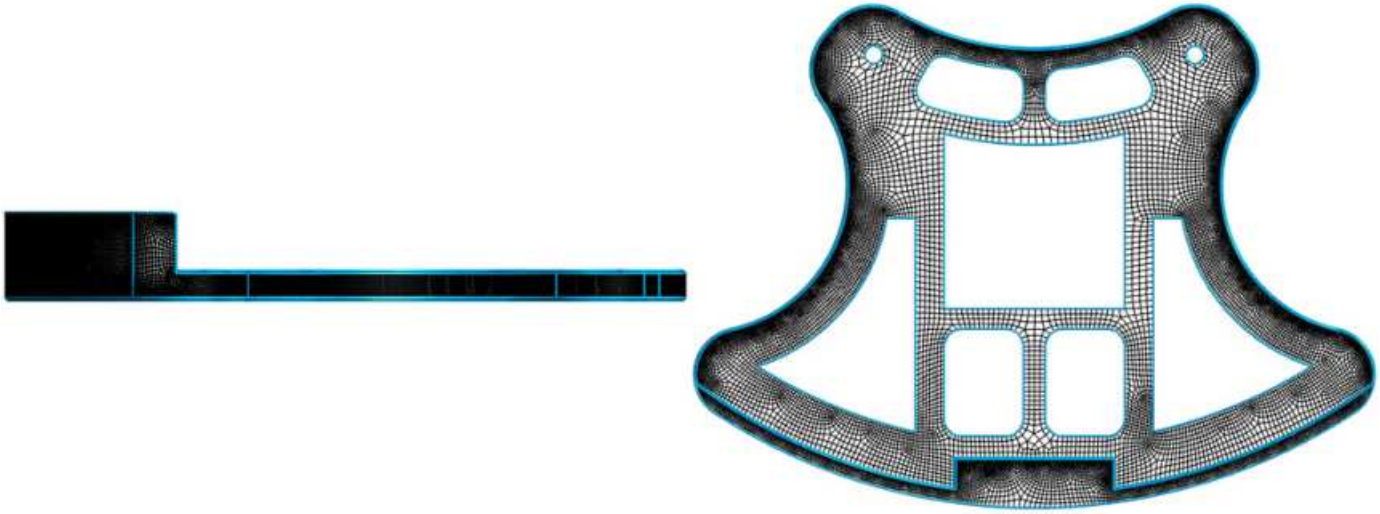
Model: 00001212 (from ABC dataset)
CAD: 164 corners, 260 curves, 98 faces
Cross field: 54 singularities detected
Timings: 21.735 sec to generate the unstructured mesh, 254.008 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	87974	98522	4115	240
Quasi-structured	91269	101817	1224	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0464864	0.557623	2.89508	0.108632	0.933547	0.980805
Quasi-structured	0.0862362	0.548047	3.27743	0.285842	0.953186	0.978593



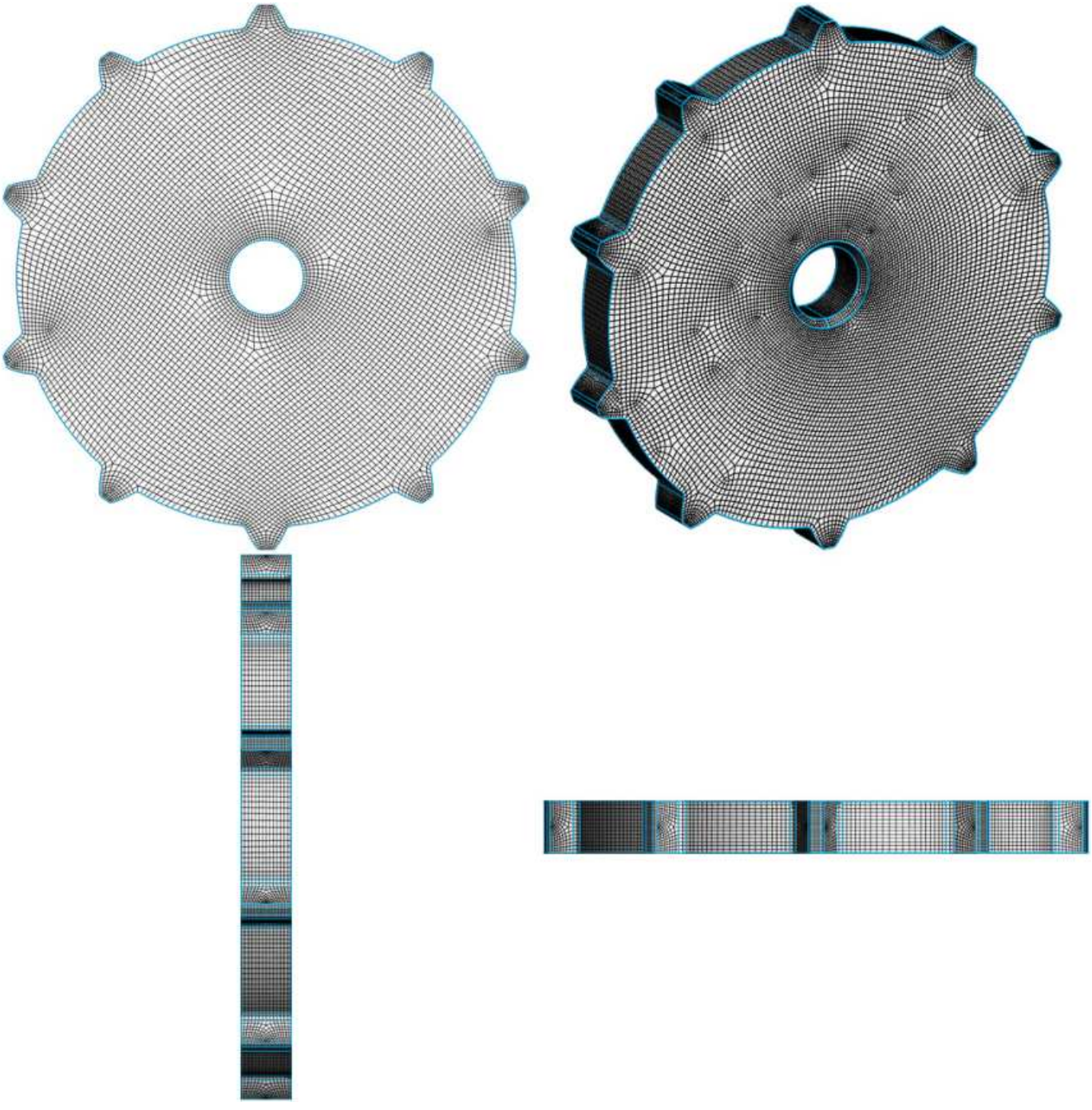


Model: 00001228 (from ABC dataset)
CAD: 163 corners, 245 curves, 84 faces
Cross field: 107 singularities detected
Timings: 25.8865 sec to generate the unstructured mesh, 25.24 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27124	29974	899	62
Quasi-structured	27810	30660	238	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0404364	0.212671	0.462389	0.221566	0.938741	0.969557
Quasi-structured	0.0474161	0.208198	0.613925	0.553805	0.963289	0.982483

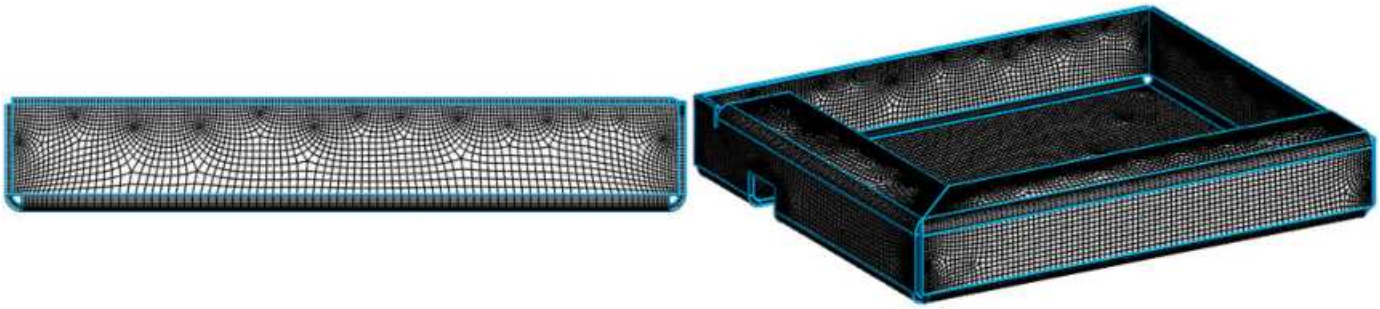


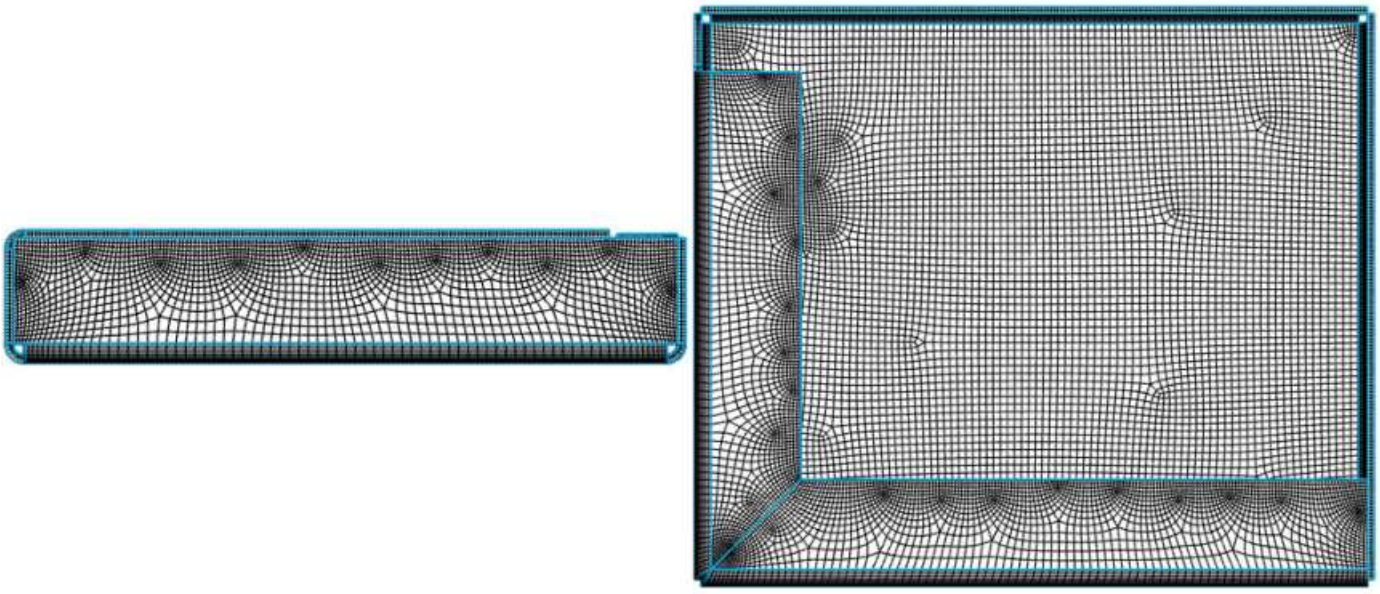
Model: 00001232 (from ABC dataset)
CAD: 98 corners, 175 curves, 77 faces
Cross field: 10 singularities detected
Timings: 20.1918 sec to generate the unstructured mesh, 51.7393 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	47426	52381	1302	111
Quasi-structured	50717	55672	296	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.182115	1.2847	2.87854	0.366631	0.900711	0.985543
Quasi-structured	0.242746	1.24283	5.13208	0.508832	0.92107	0.983577



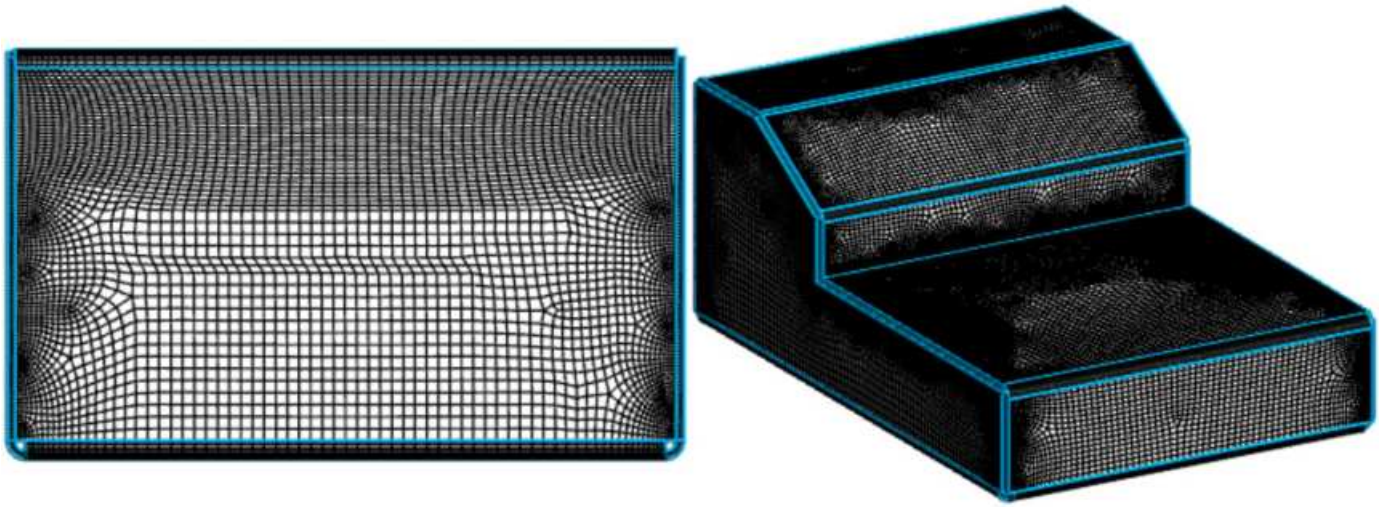


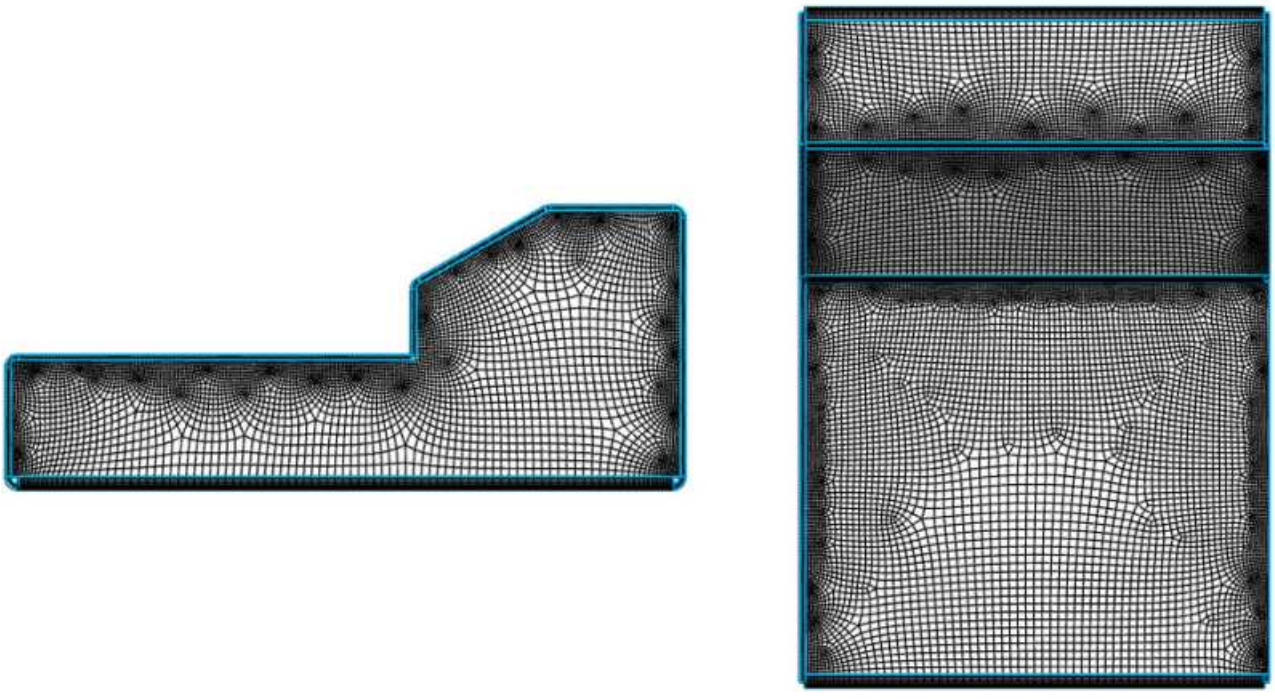
Model: 00001233 (from ABC dataset)
CAD: 106 corners, 191 curves, 87 faces
Cross field: 0 singularities detected
Timings: 27.4284 sec to generate the unstructured mesh, 188.877 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	97682	105707	2766	248
Quasi-structured	110975	119000	854	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.229148	1.35768	3.93923	0.354442	0.907917	0.976039
Quasi-structured	0.257136	1.28339	5.45719	0.354442	0.9163	0.9756



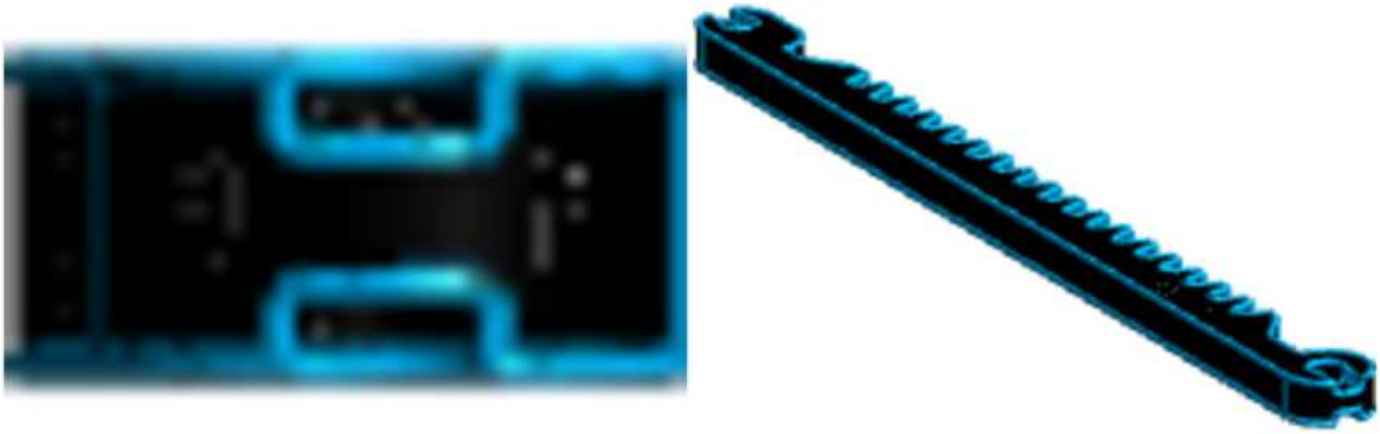


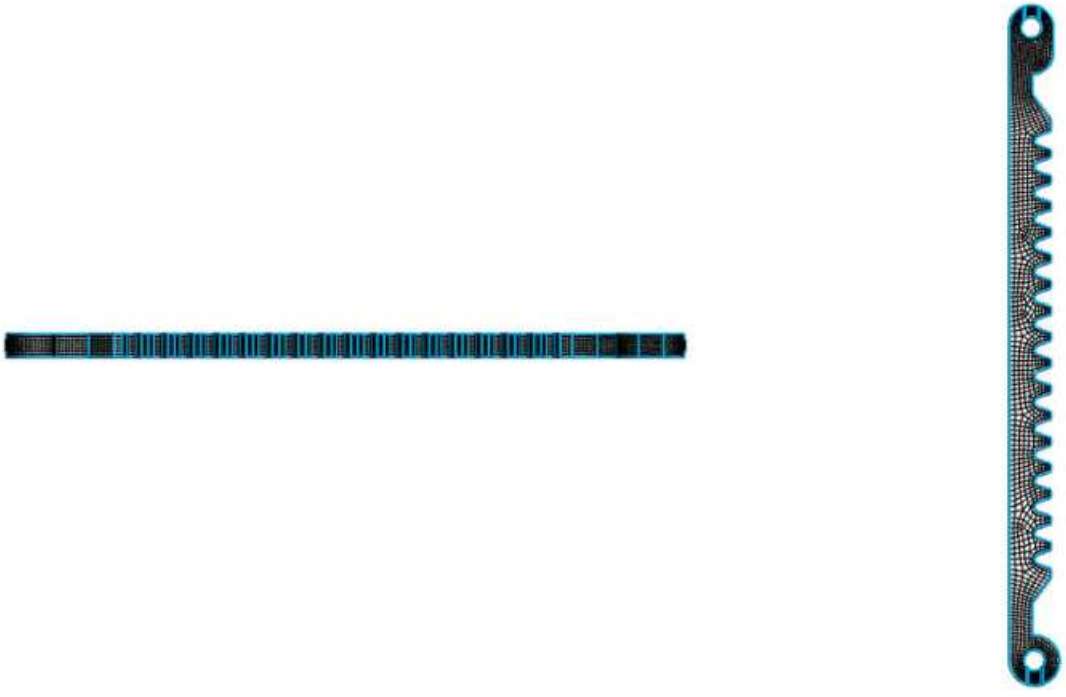
Model: 00001240 (from ABC dataset)
CAD: 204 corners, 308 curves, 102 faces
Cross field: 98 singularities detected
Timings: 8.73856 sec to generate the unstructured mesh, 4.80932 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10782	13252	400	47
Quasi-structured	11073	13543	182	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0372888	0.333845	1.08318	0.0496109	0.90896	0.949102
Quasi-structured	0.0669555	0.326622	1.13554	0.377804	0.930754	0.963989



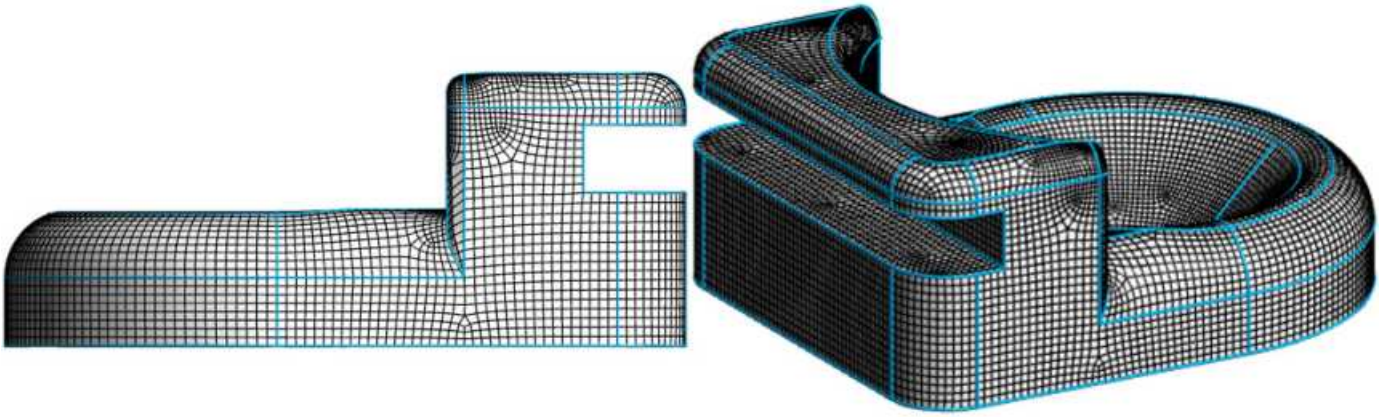


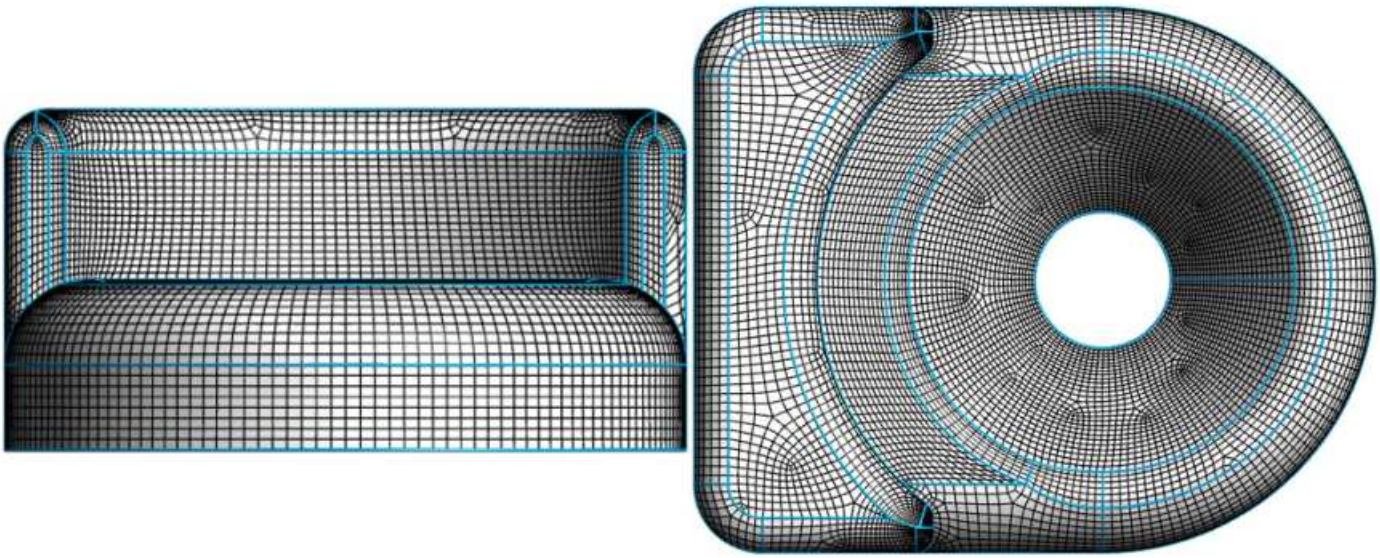
Model: 00001262 (from ABC dataset)
CAD: 64 corners, 103 curves, 40 faces
Cross field: 24 singularities detected
Timings: 15.9562 sec to generate the unstructured mesh, 8.98953 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20022	22000	486	37
Quasi-structured	20541	22519	138	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0157026	0.22625	0.472415	0.104751	0.948687	0.988008
Quasi-structured	0.0239013	0.22414	0.623475	0.332751	0.956857	0.988214



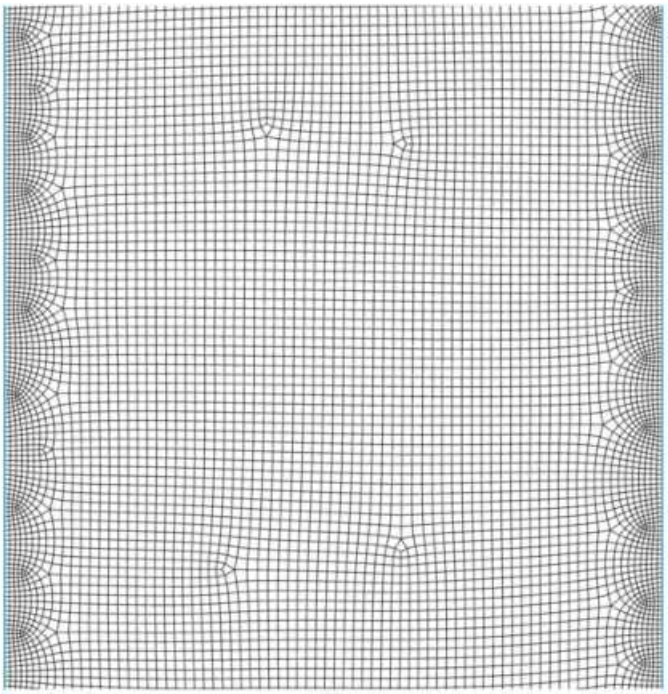


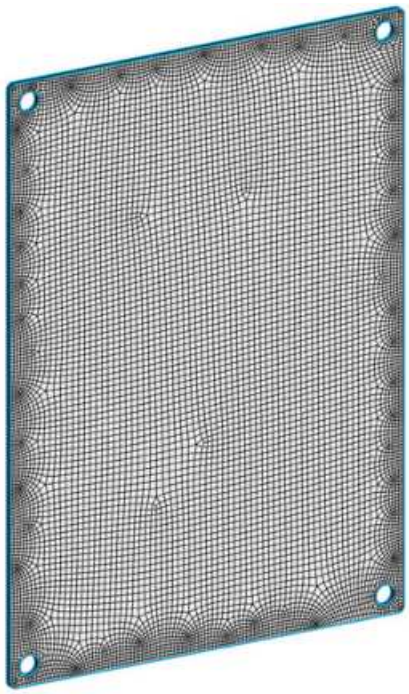
Model: 00001305 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 40 singularities detected
Timings: 12.7509 sec to generate the unstructured mesh, 126.03 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21848	23394	630	70
Quasi-structured	21530	23076	260	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.578524	2.32355	4.54491	0.374547	0.96152	0.998389
Quasi-structured	0.650856	2.32552	4.63648	0.518811	0.984488	0.996879





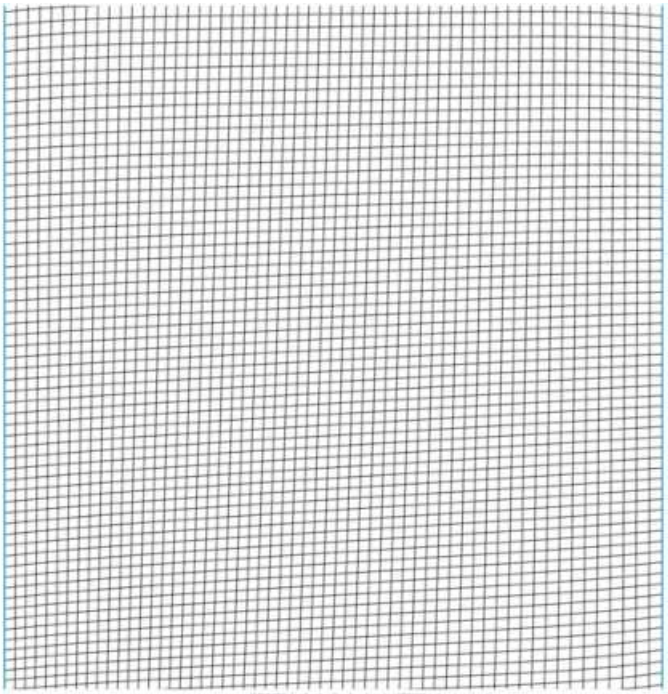
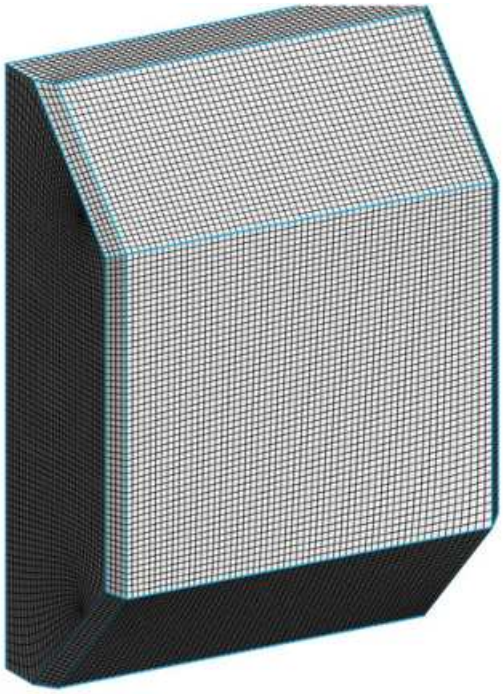
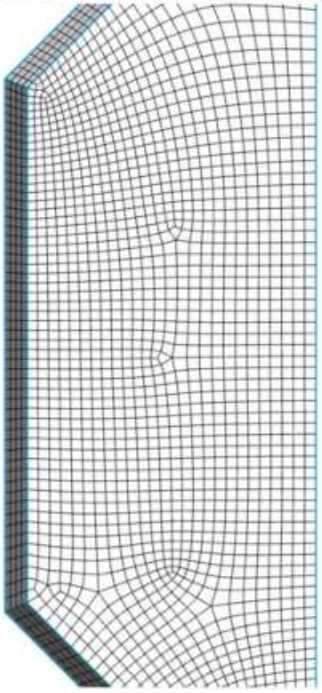
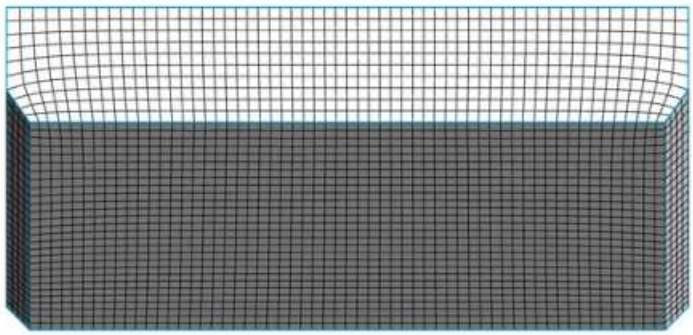


Model: 00001309 (from ABC dataset)
CAD: 20 corners, 32 curves, 14 faces
Cross field: 5 singularities detected
Timings: 9.40083 sec to generate the unstructured mesh, 1.45312 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17456	18490	119	1
Quasi-structured	17668	18702	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.86253	2.37777	4.32134	0.551402	0.982645	0.993916
Quasi-structured	0.640604	2.36196	9.12838	0.495817	0.986038	0.994658

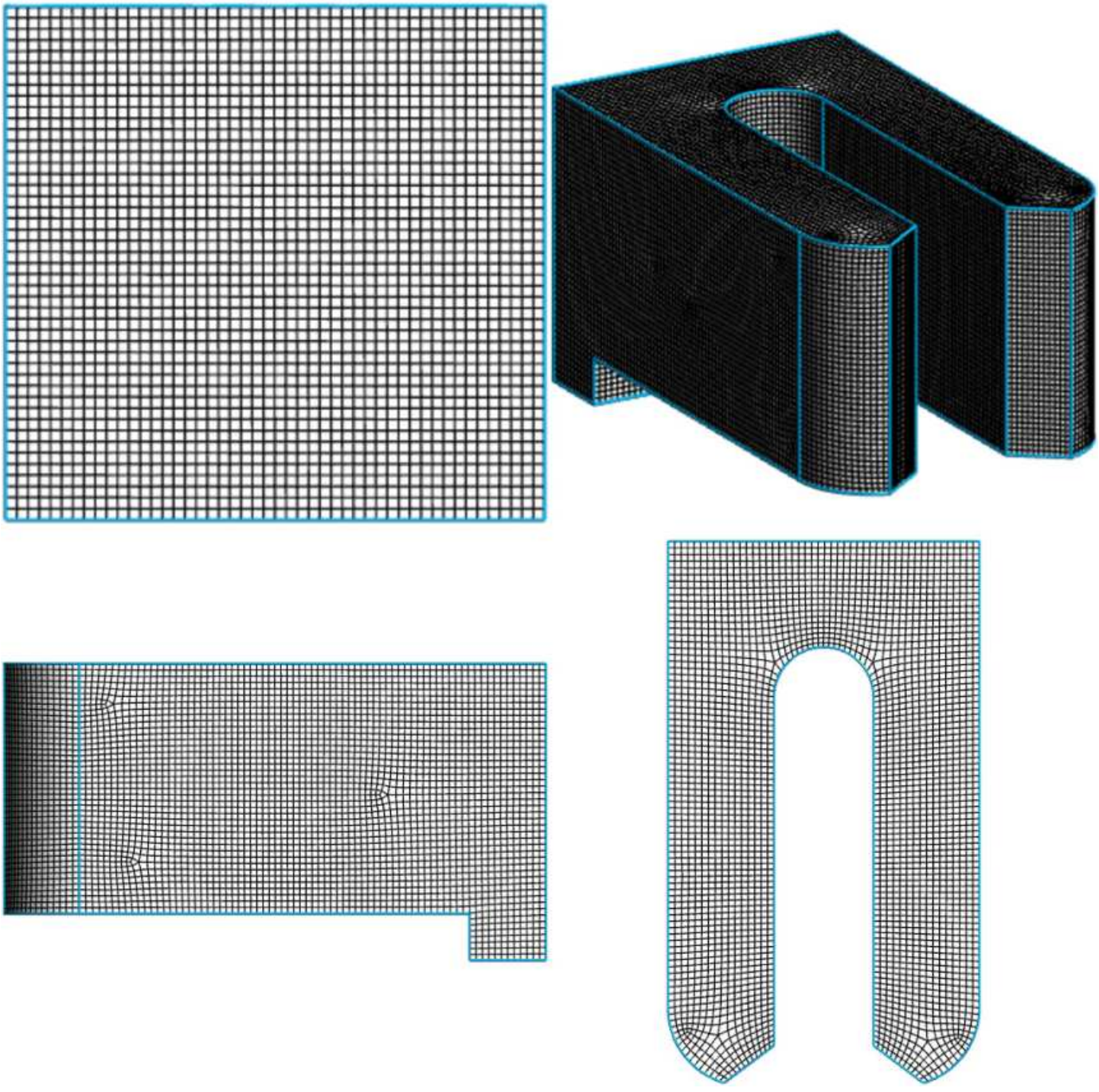





Model: 00001314 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 4 singularities detected
Timings: 16.1295 sec to generate the unstructured mesh, 3.04541 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24038	25410	96	0
Quasi-structured	23608	24980	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.121525	0.389805	0.642856	0.417428	0.991446	0.999356
Quasi-structured	0.199419	0.393228	0.926394	0.612964	0.995454	0.999259

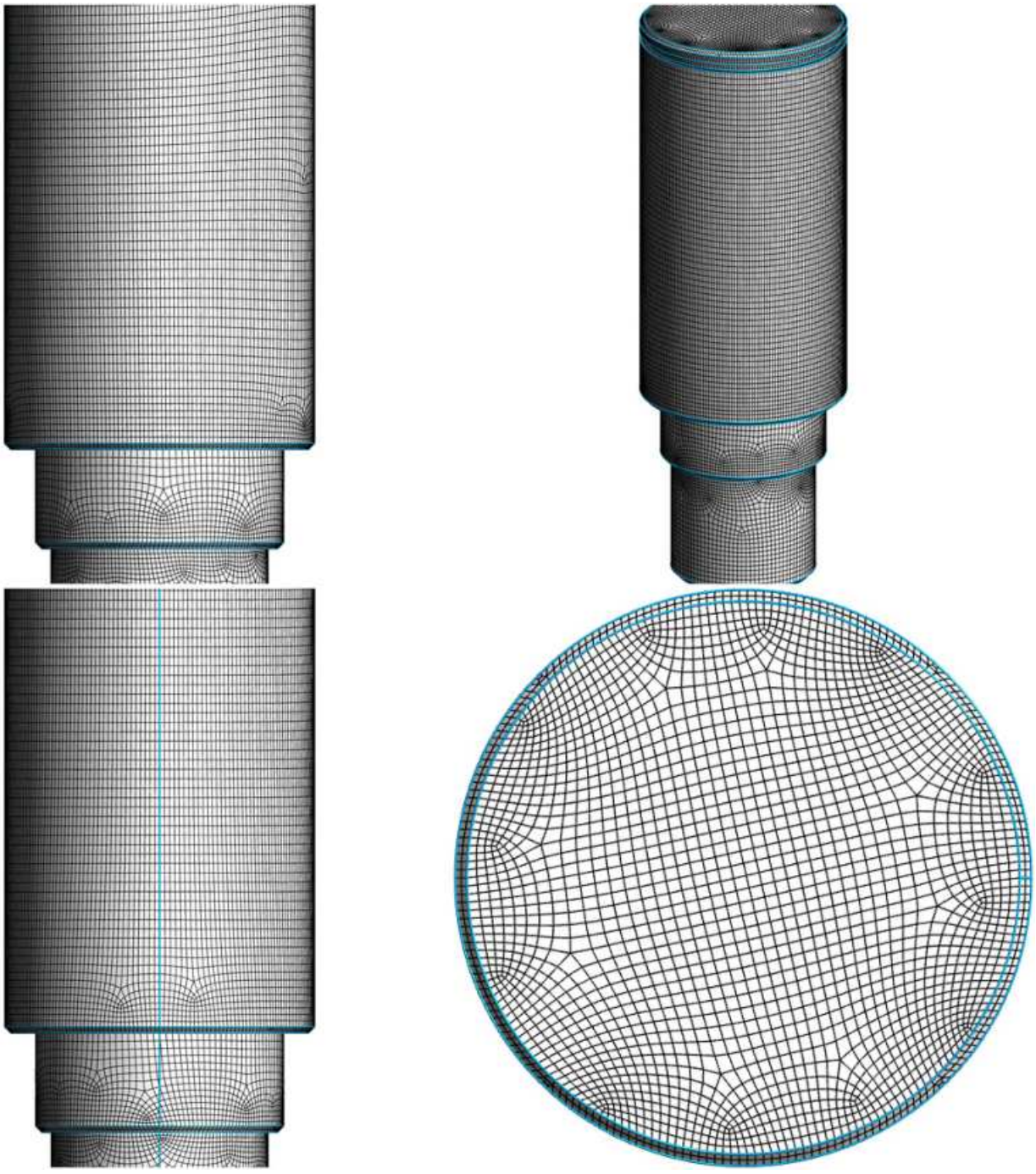


Model: 00001318 (from ABC dataset)
CAD: 16 corners, 25 curves, 15 faces
Cross field: 8 singularities detected
Timings: 11.6448 sec to generate the unstructured mesh, 28.3028 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21146	23704	742	168
Quasi-structured	26500	29058	196	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.211714	1.02822	2.61991	0.366391	0.942146	0.985385
Quasi-structured	0.245249	0.972951	2.50015	0.337217	0.889225	0.897454

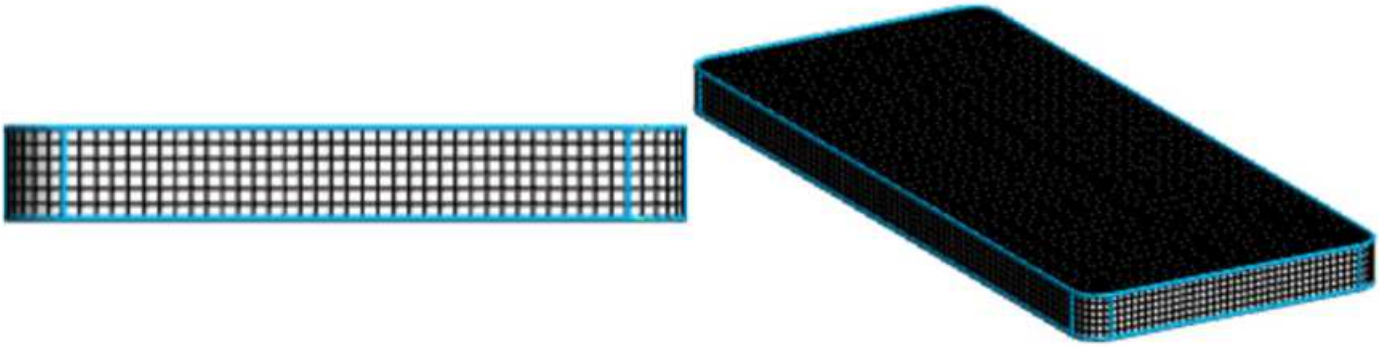


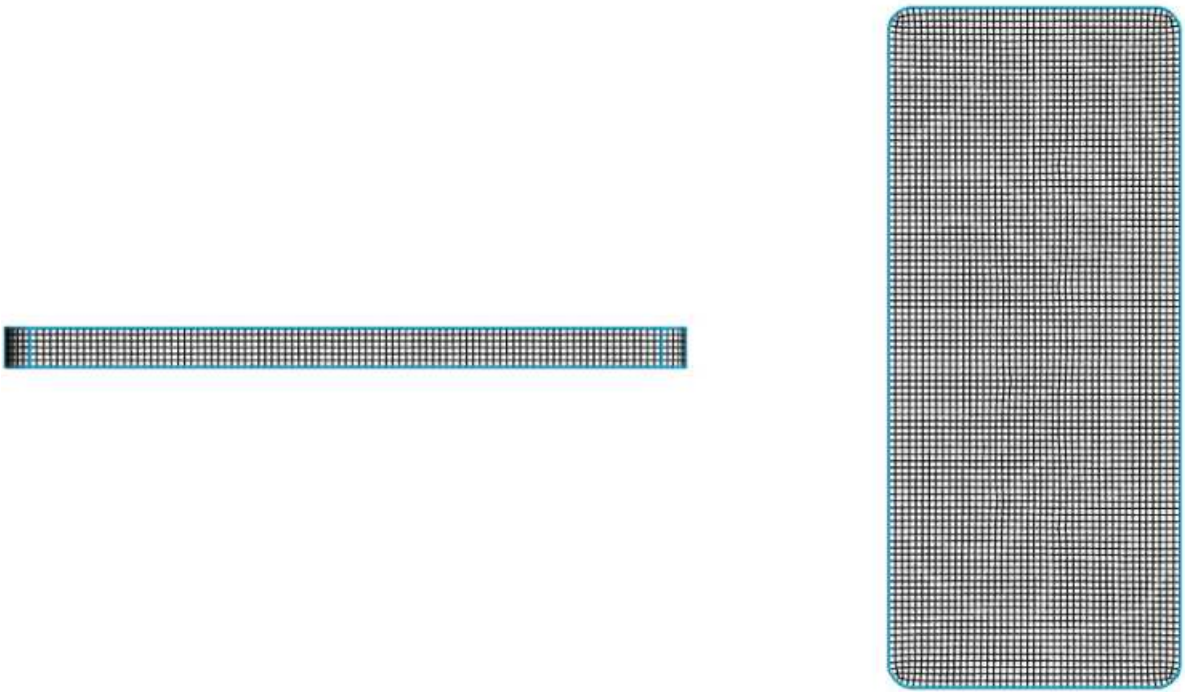
Model: 00001348 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 5.38474 sec to generate the unstructured mesh, 0.956311 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10666	11292	16	2
Quasi-structured	10672	11298	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.813877	1.73637	2.34018	0.709225	0.993914	0.999873
Quasi-structured	1.03411	1.73365	1.95519	0.85431	0.999029	0.999825



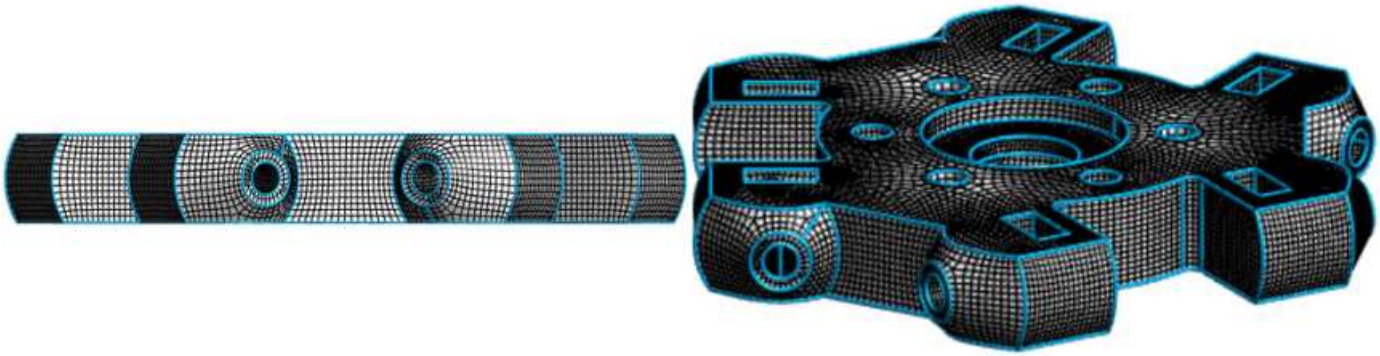


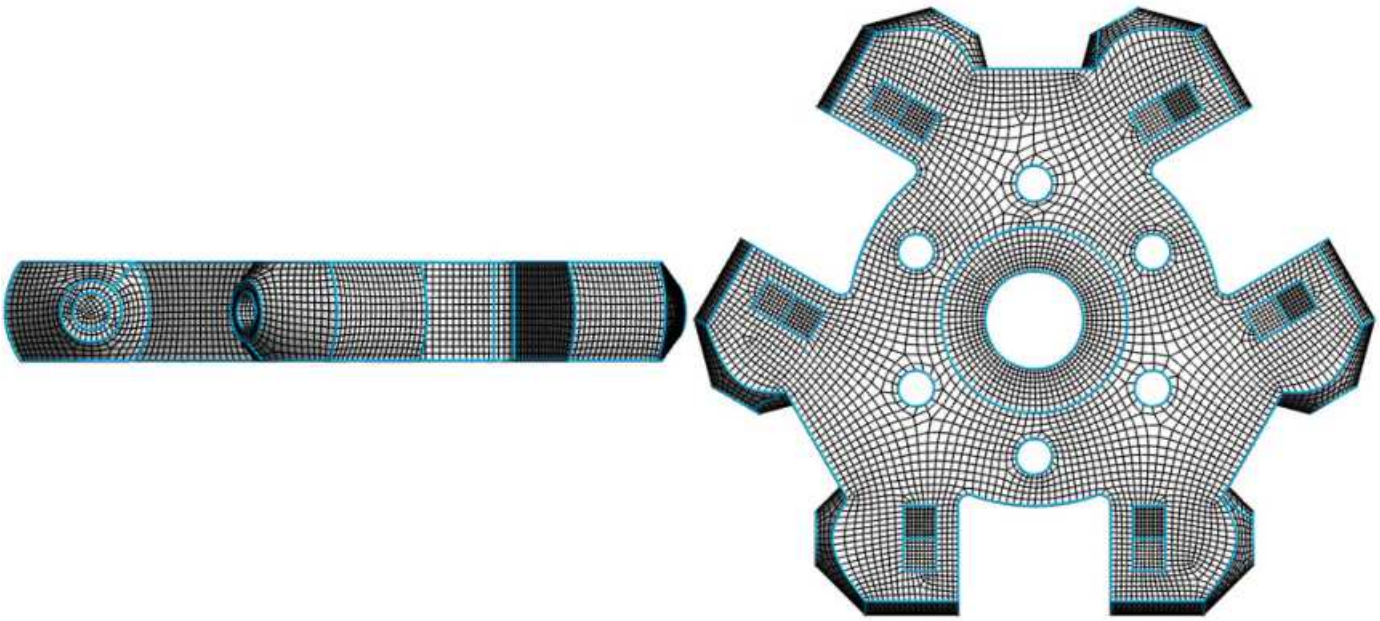
Model: 00001371 (from ABC dataset)
CAD: 187 corners, 274 curves, 103 faces
Cross field: 192 singularities detected
Timings: 17.1774 sec to generate the unstructured mesh, 3.88834 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25744	29414	935	300
Quasi-structured	25875	29545	328	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.12557	0.53458	1.51055	0.150498	0.950607	0.980987
Quasi-structured	0.175521	0.531637	1.84874	0.436344	0.969996	0.987748



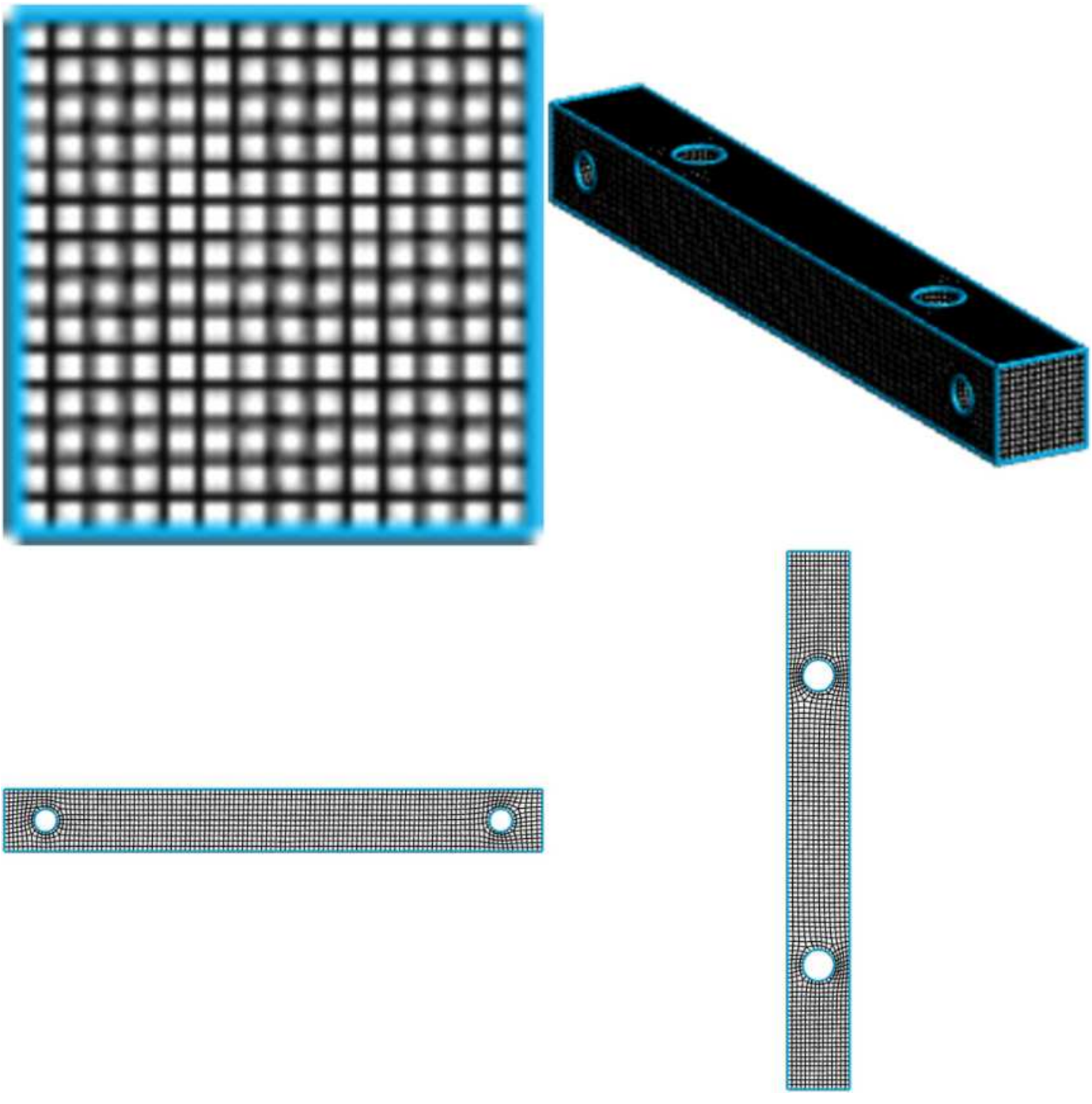


Model: 00001400 (from ABC dataset)
CAD: 20 corners, 28 curves, 10 faces
Cross field: 32 singularities detected
Timings: 3.59802 sec to generate the unstructured mesh, 1.13745 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7992	8752	228	77
Quasi-structured	7906	8666	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.197613	0.680911	1.14701	0.331523	0.963298	0.995299
Quasi-structured	0.318158	0.680712	1.19346	0.699747	0.98544	0.996579

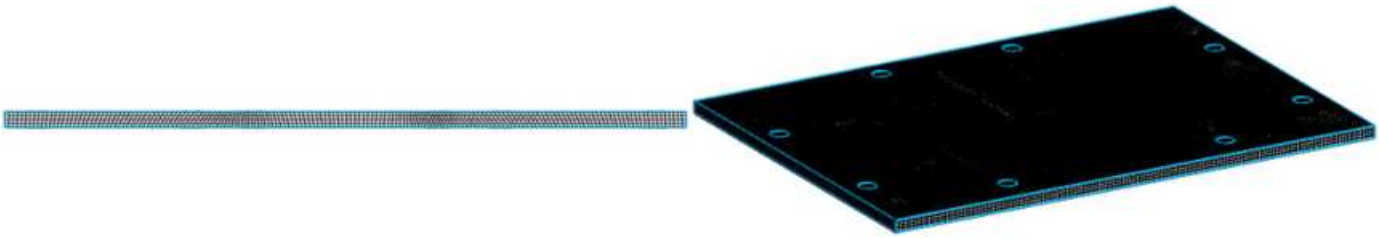


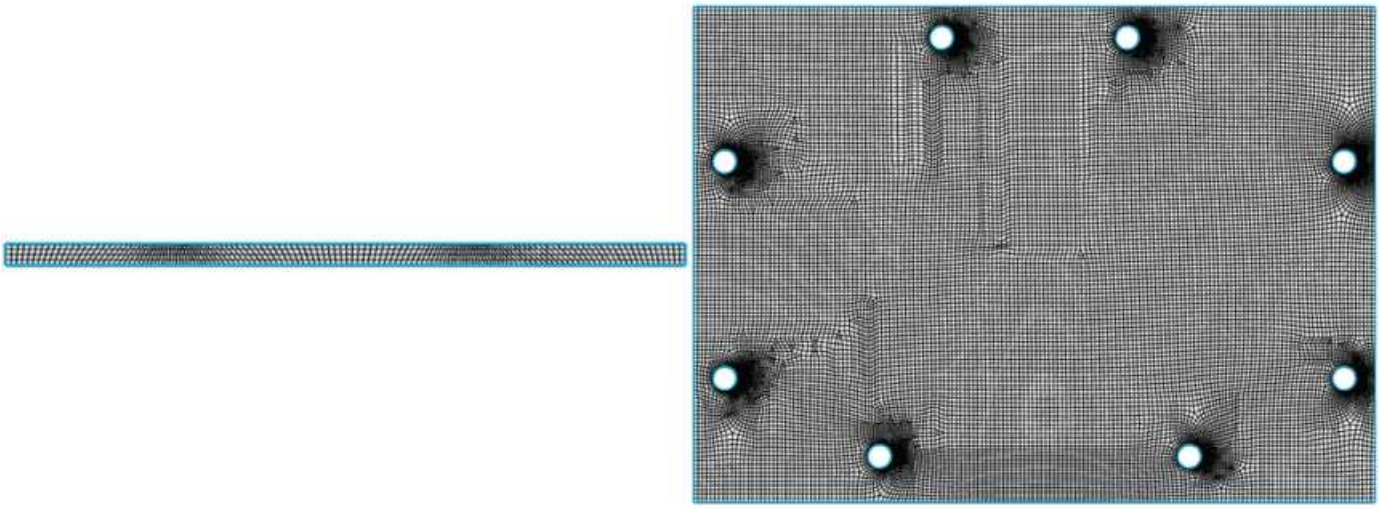
Model: 00001401 (from ABC dataset)
CAD: 32 corners, 44 curves, 14 faces
Cross field: 64 singularities detected
Timings: 28.3501 sec to generate the unstructured mesh, 64.4199 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	59838	61956	2016	232
Quasi-structured	60401	62519	646	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00340029	0.650411	1.35614	0.10002	0.951902	0.987556
Quasi-structured	0.00340029	0.652511	1.58858	0.298925	0.965274	0.993444



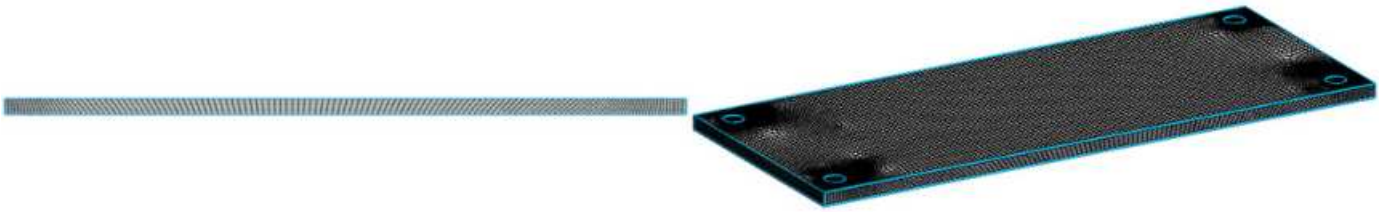


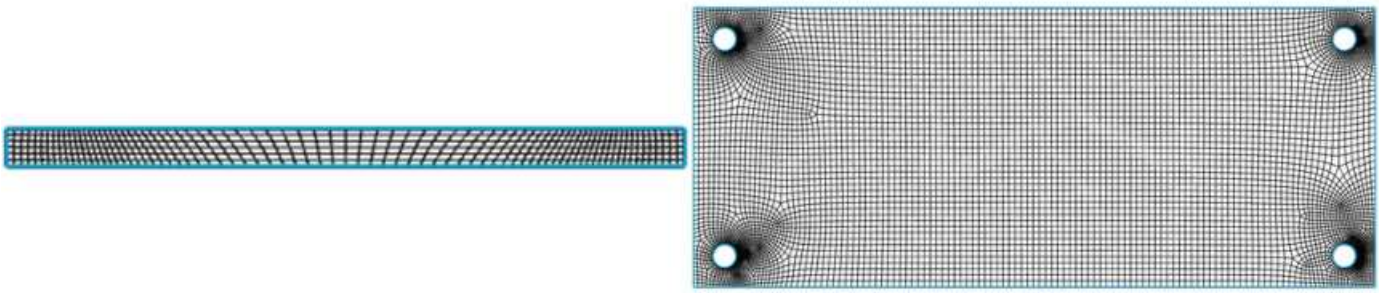
Model: 00001402 (from ABC dataset)
CAD: 20 corners, 28 curves, 10 faces
Cross field: 32 singularities detected
Timings: 10.6273 sec to generate the unstructured mesh, 36.9953 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23008	24278	913	120
Quasi-structured	22670	23940	126	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00813986	0.761714	1.81719	0.164651	0.931223	0.979376
Quasi-structured	0.00813986	0.789059	2.27317	0.290764	0.953009	0.984912



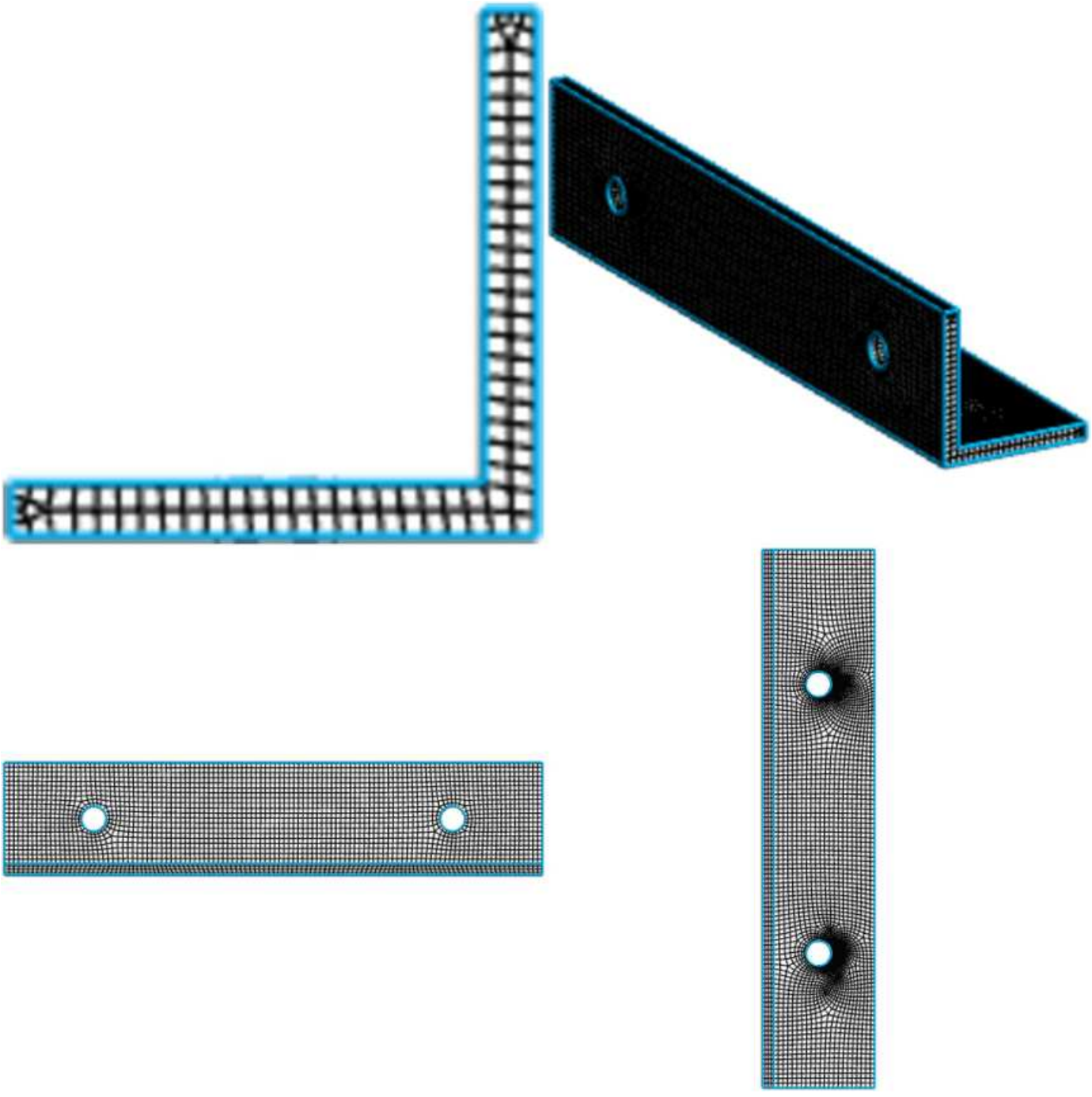


Model: 00001403 (from ABC dataset)
CAD: 24 corners, 34 curves, 12 faces
Cross field: 32 singularities detected
Timings: 9.03151 sec to generate the unstructured mesh, 12.9214 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16924	18164	679	69
Quasi-structured	16225	17465	94	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0049974	0.493345	1.11422	0.170224	0.947999	0.988691
Quasi-structured	0.0049974	0.509696	1.33416	0.375878	0.971735	0.990663

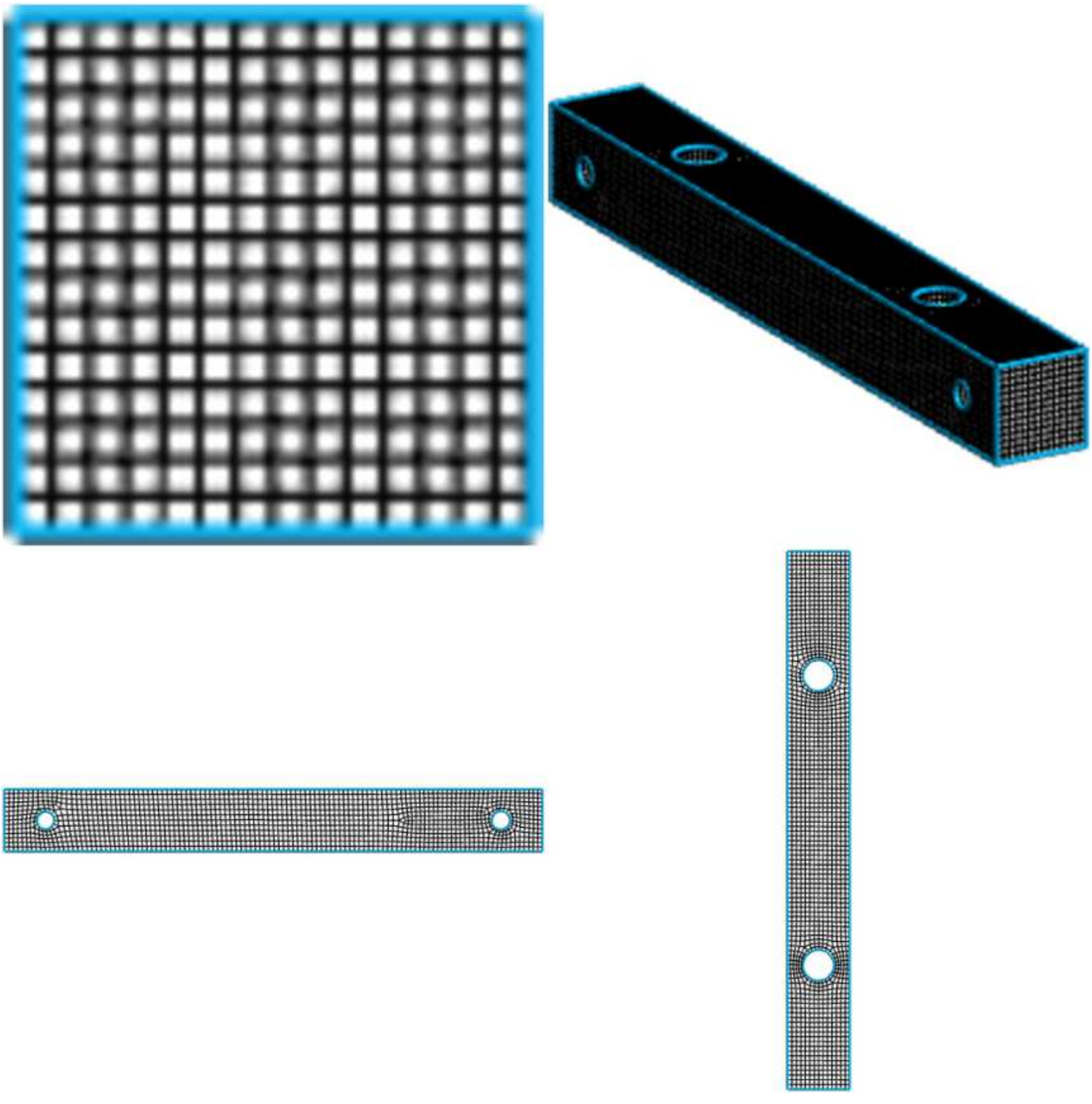


Model: 00001408 (from ABC dataset)
CAD: 20 corners, 28 curves, 10 faces
Cross field: 32 singularities detected
Timings: 6.14323 sec to generate the unstructured mesh, 1.93312 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7942	8692	128	75
Quasi-structured	8116	8866	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.203549	0.677752	1.13928	0.272897	0.975644	0.998641
Quasi-structured	0.251837	0.669657	1.07441	0.67248	0.9877	0.996691

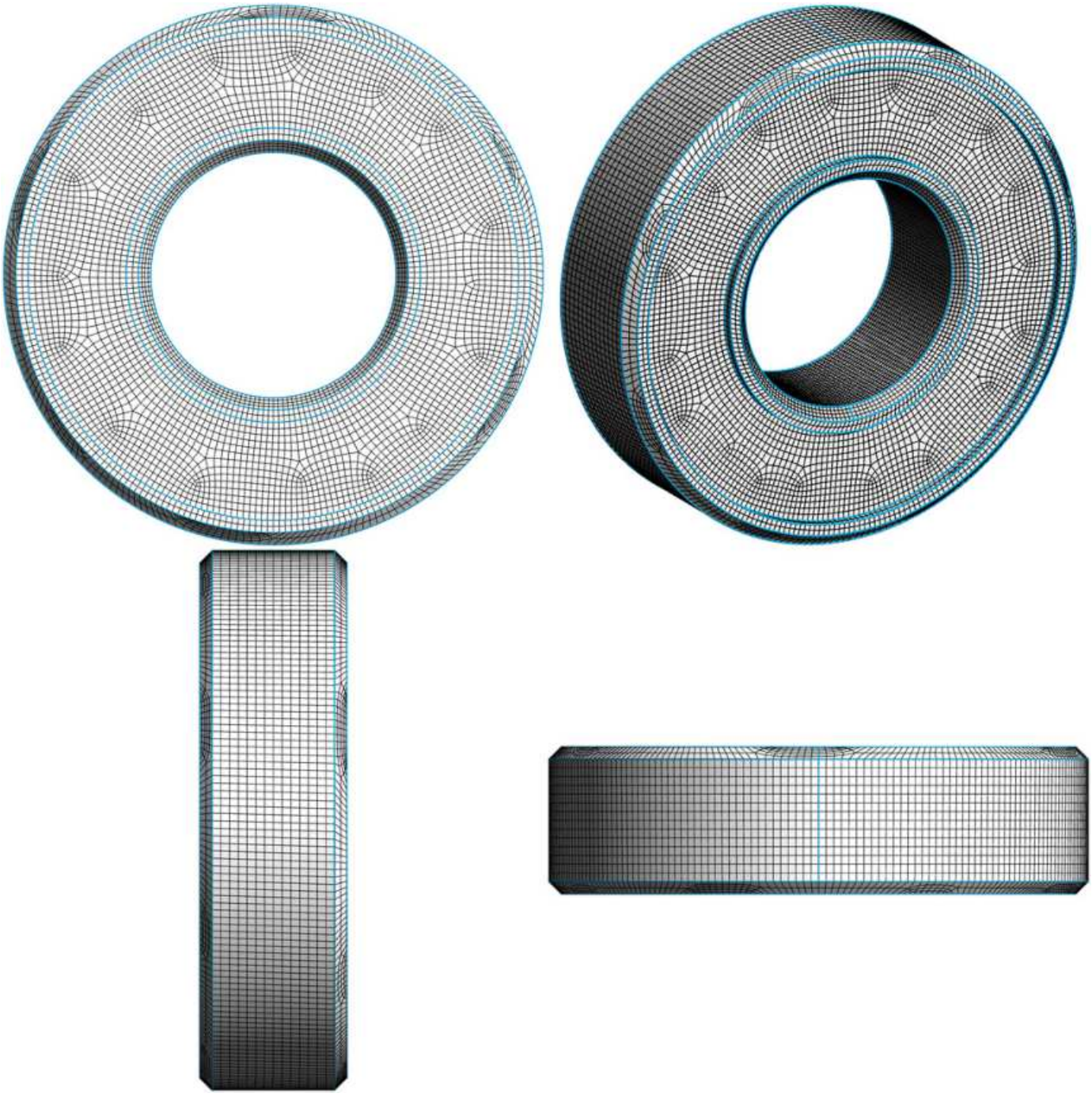


Model: 00001422 (from ABC dataset)
CAD: 18 corners, 28 curves, 16 faces
Cross field: 0 singularities detected
Timings: 13.1068 sec to generate the unstructured mesh, 17.934 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19762	23130	372	60
Quasi-structured	19977	23345	178	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0769278	0.247656	0.461912	0.486426	0.962863	0.992851
Quasi-structured	0.062603	0.246223	0.638885	0.286598	0.968679	0.990082

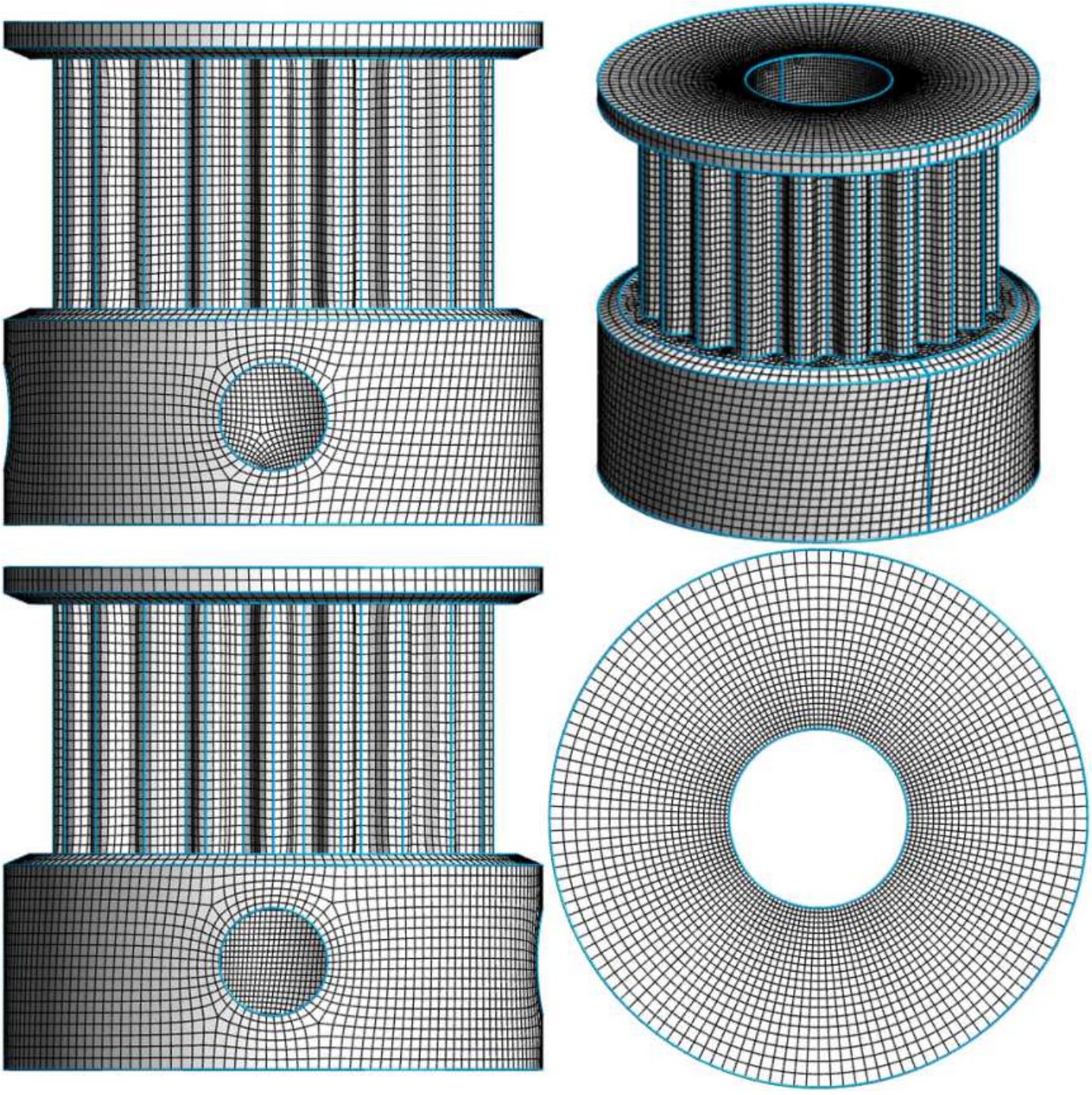


Model: 00001445 (from ABC dataset)
CAD: 94 corners, 142 curves, 51 faces
Cross field: 177 singularities detected
Timings: 31.1024 sec to generate the unstructured mesh, 12.8282 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30330	33212	493	166
Quasi-structured	30756	33638	418	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0495903	0.206041	0.482649	0.0980767	0.967322	0.986418
Quasi-structured	0.0522108	0.204288	0.565494	0.390316	0.980288	0.991164

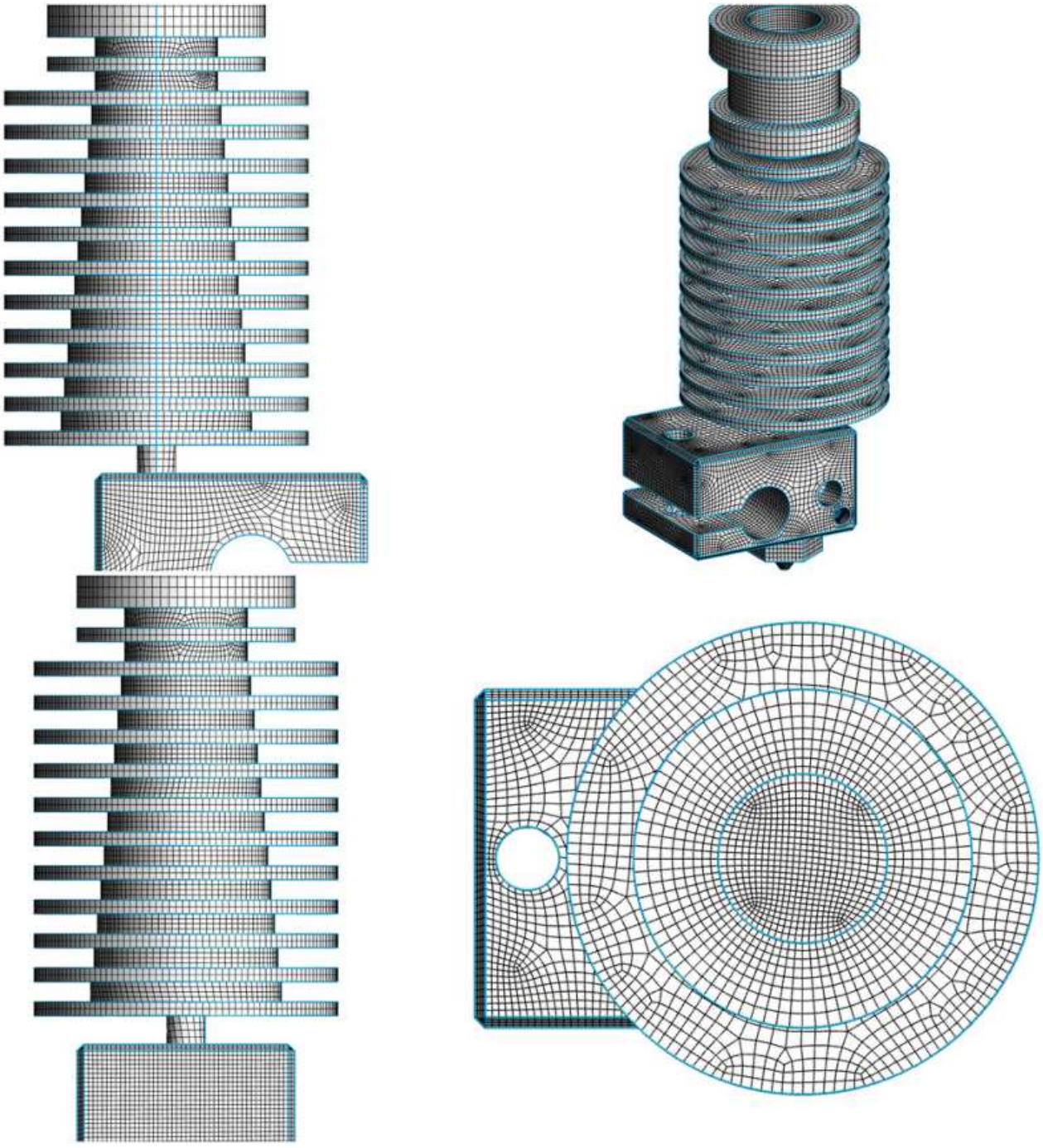


Model: 00001466 (from ABC dataset)
CAD: 122 corners, 195 curves, 111 faces
Cross field: 82 singularities detected
Timings: 25.1093 sec to generate the unstructured mesh, 28.2076 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	49826	57778	2191	319
Quasi-structured	51573	59525	757	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00488984	0.466467	1.12573	0.0274131	0.939668	0.98447
Quasi-structured	0.00488984	0.458057	1.16622	0.0274131	0.962245	0.98148

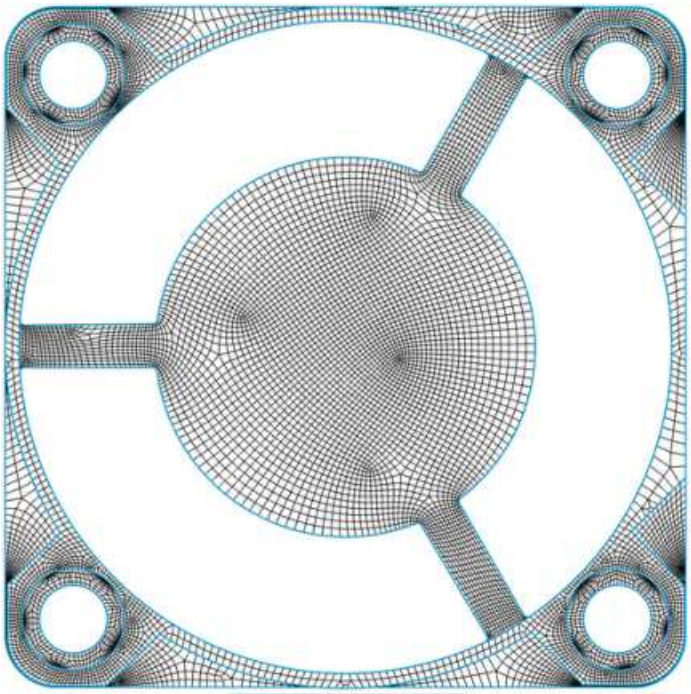


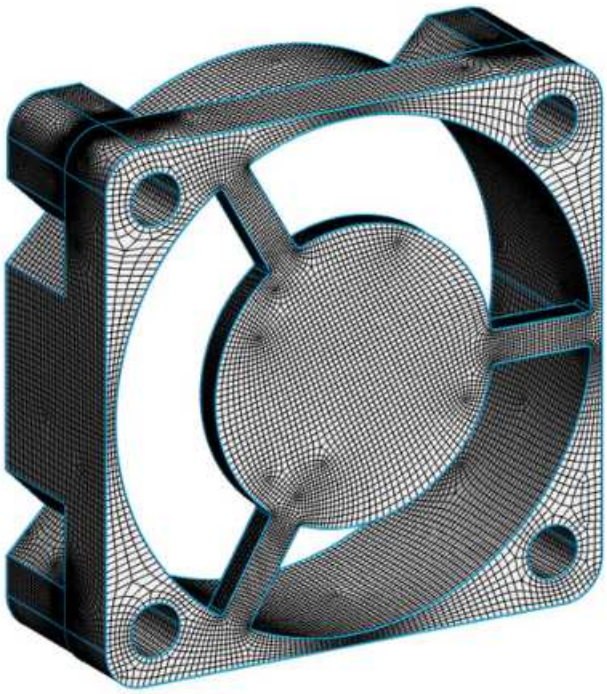
Model: 00001467 (from ABC dataset)
CAD: 156 corners, 236 curves, 84 faces
Cross field: 74 singularities detected
Timings: 30.5936 sec to generate the unstructured mesh, 98.6882 sec to make it quasi-structured
Mesh topology:

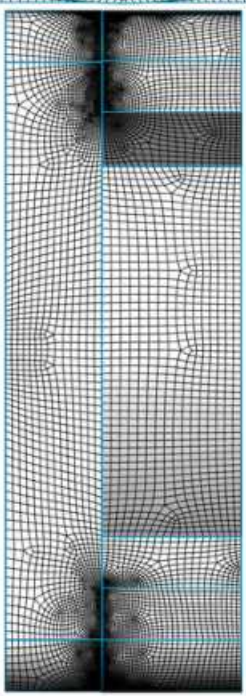
	# quads	# vertices	# irregular	# very irregular
Unstructured	77662	85562	4078	141
Quasi-structured	80161	88061	932	0

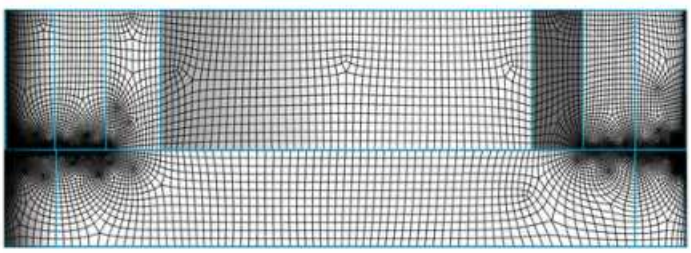
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00822056	0.185276	0.696782	6.29903e-05	0.927241	0.971592
Quasi-structured	0.010634	0.183538	1.26972	0.0103192	0.944605	0.979353







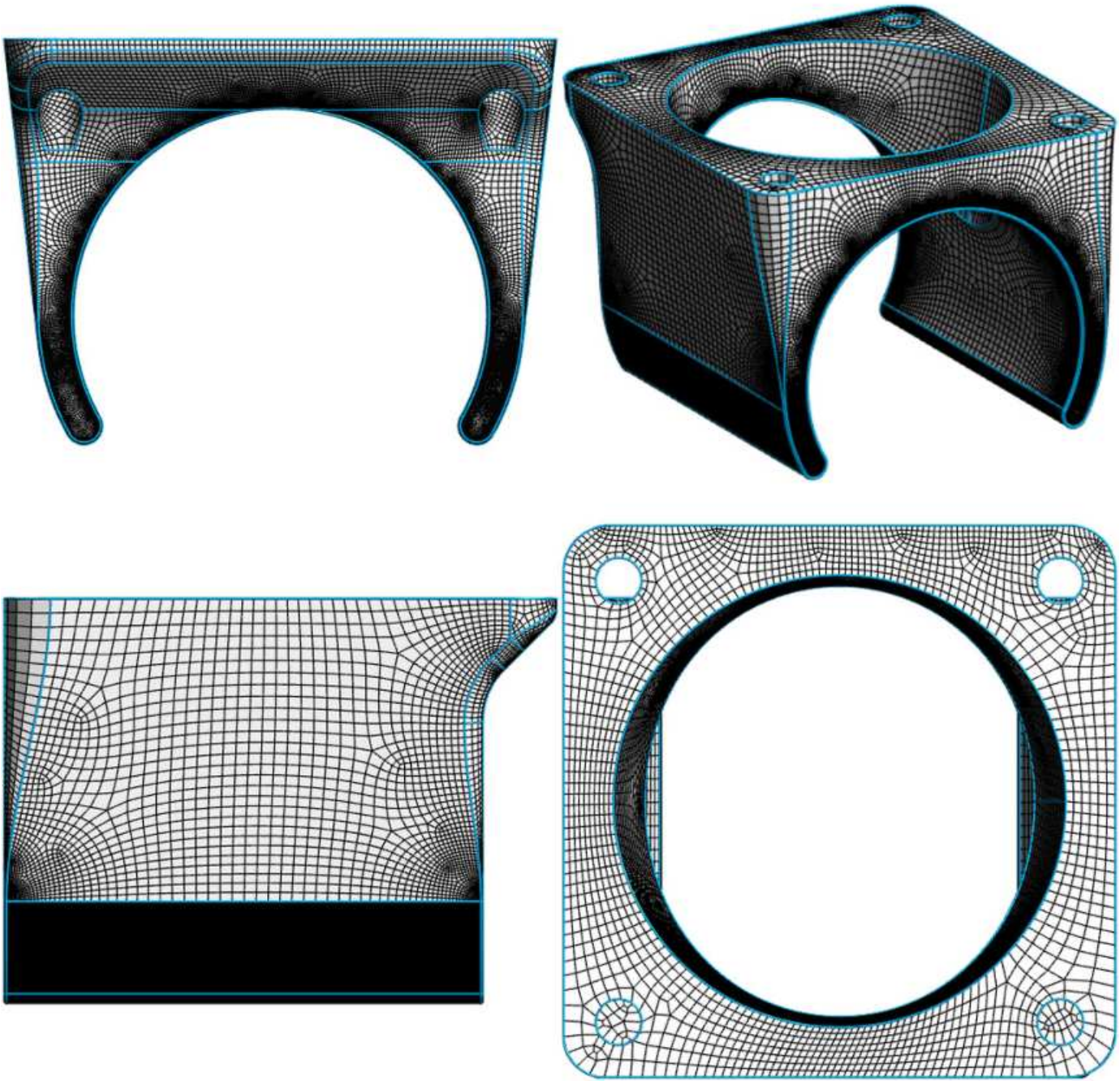


Model: 00001469 (from ABC dataset)
CAD: 75 corners, 124 curves, 51 faces
Cross field: 49 singularities detected
Timings: 22.405 sec to generate the unstructured mesh, 226.474 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	77030	83384	3146	305
Quasi-structured	78717	85071	1403	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000183055	0.181081	1.12952	0.00276791	0.821718	0.937244
Quasi-structured	0.00422931	0.178312	1.50451	0.131428	0.849782	0.959749

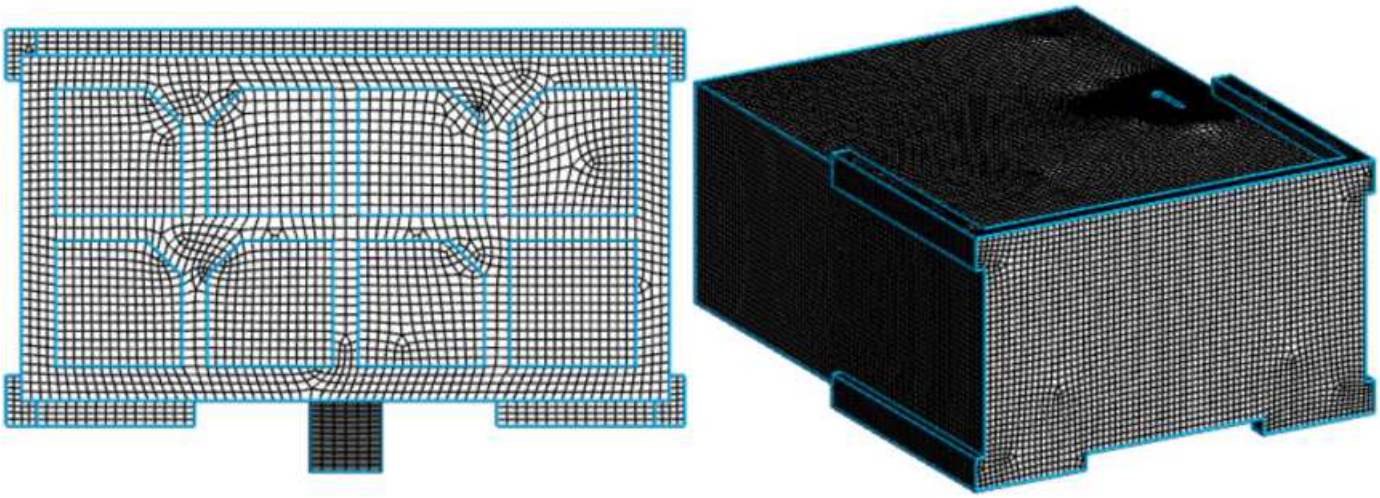


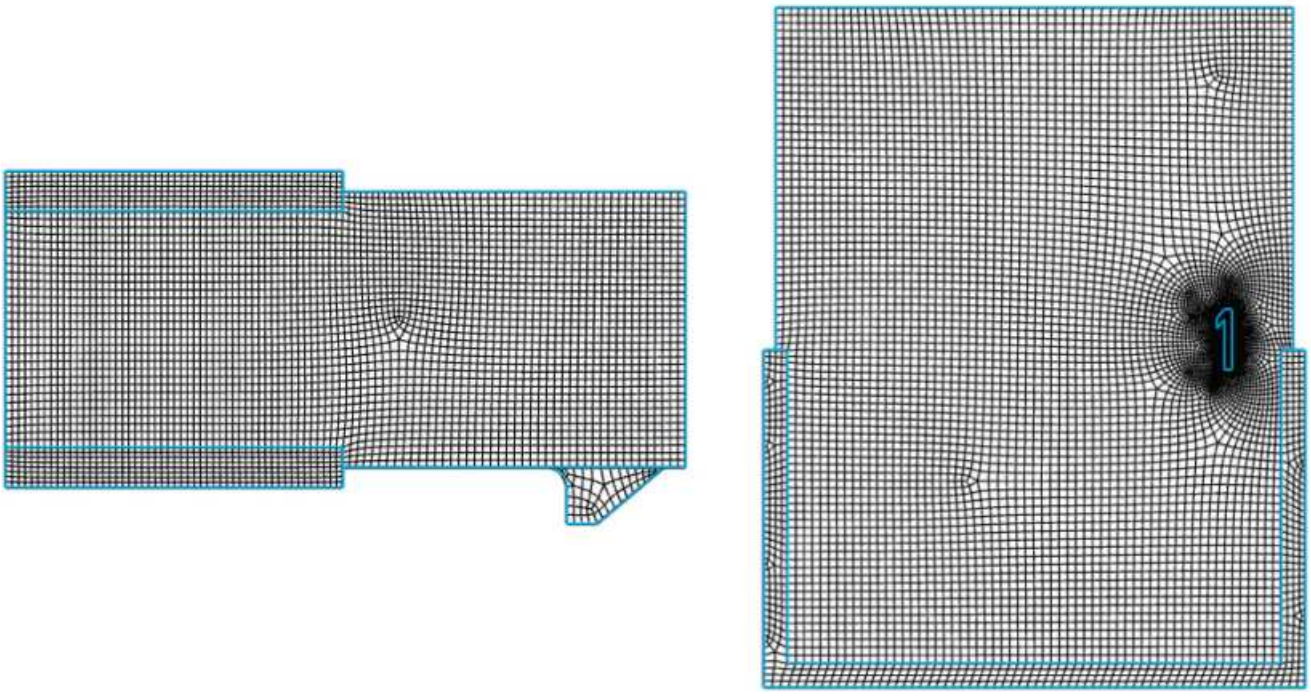
Model: 00001472 (from ABC dataset)
CAD: 158 corners, 237 curves, 91 faces
Cross field: 16 singularities detected
Timings: 19.559 sec to generate the unstructured mesh, 24.8426 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	43548	48135	601	22
Quasi-structured	43948	48535	201	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.007829	0.176945	0.318114	0.0313804	0.974569	0.996998
Quasi-structured	0.0081382	0.176044	0.455722	0.19055	0.985142	0.996912



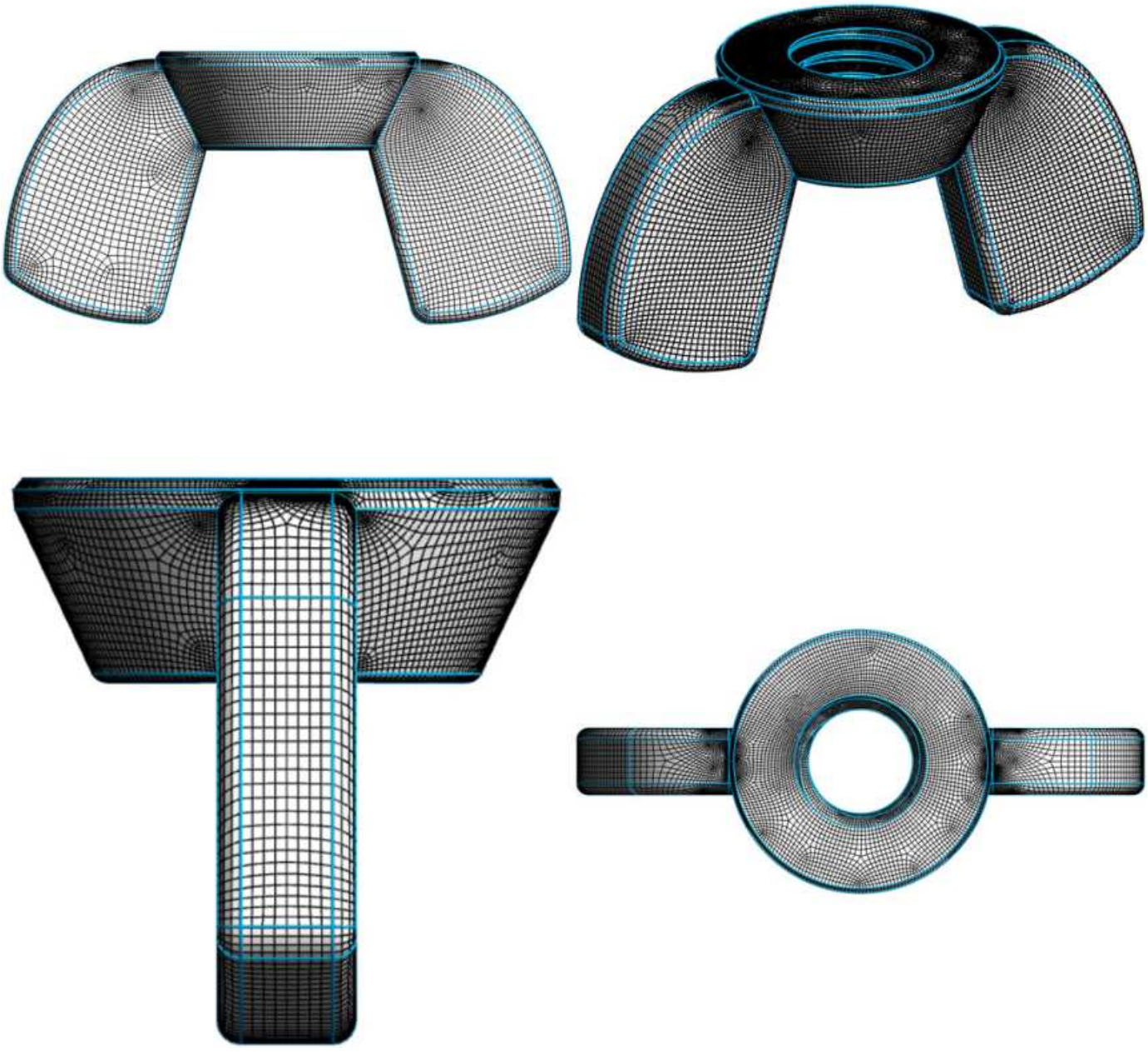


Model: 00001474 (from ABC dataset)
CAD: 90 corners, 148 curves, 60 faces
Cross field: 36 singularities detected
Timings: 53.0612 sec to generate the unstructured mesh, 449.776 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	48700	57060	2078	117
Quasi-structured	51621	59981	813	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00140003	0.0909262	0.547366	0.0203366	0.917436	0.970282
Quasi-structured	0.00139959	0.0900708	0.547366	0.0203366	0.931792	0.96616

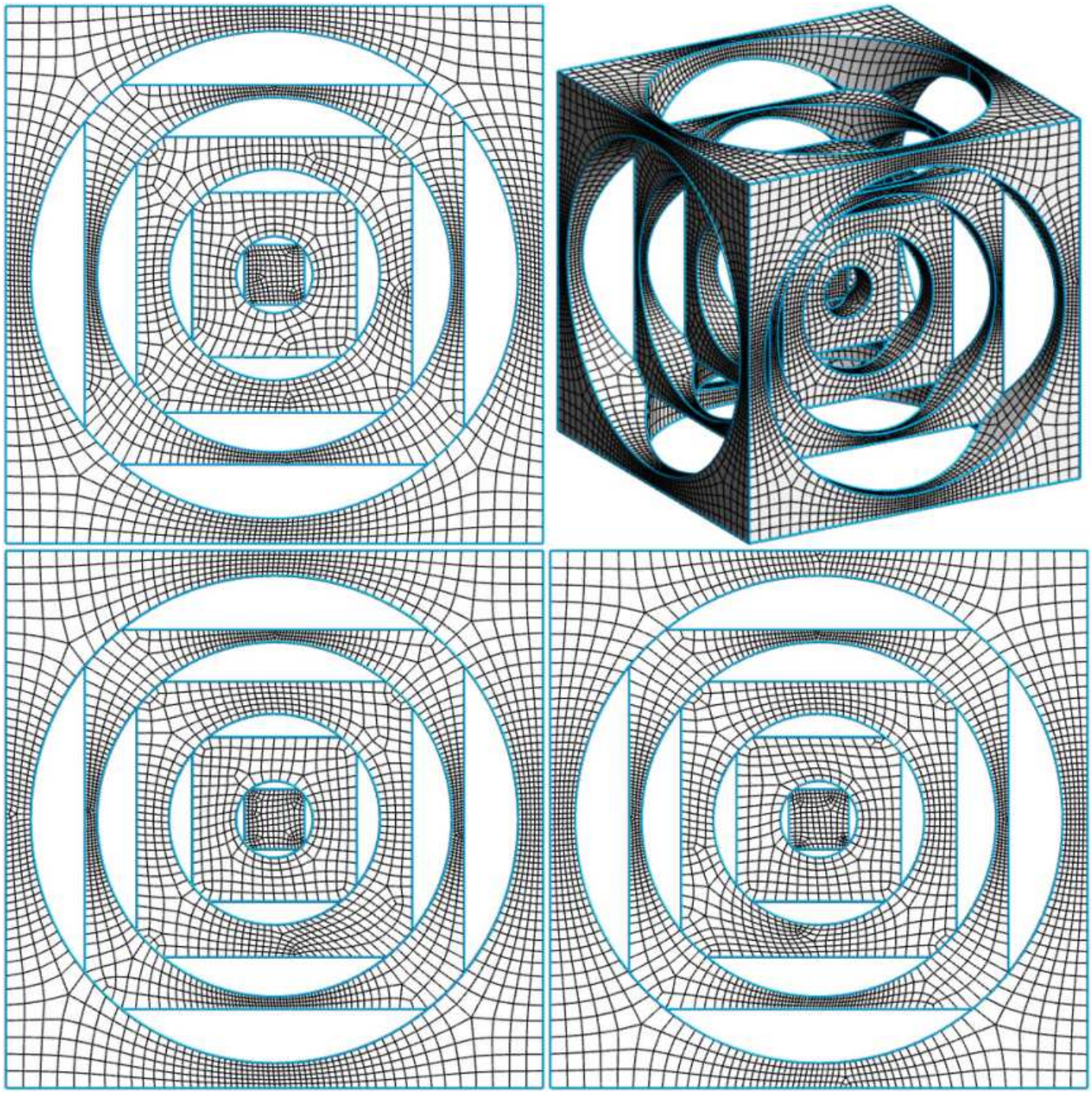


Model: 00001525 (from ABC dataset)
CAD: 152 corners, 276 curves, 54 faces
Cross field: 144 singularities detected
Timings: 36.1183 sec to generate the unstructured mesh, 38.6605 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31574	38646	1328	166
Quasi-structured	33600	40672	570	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.119116	0.71594	2.61557	0.294475	0.926394	0.951959
Quasi-structured	0.0712129	0.690982	2.62521	0.521205	0.949568	0.964466

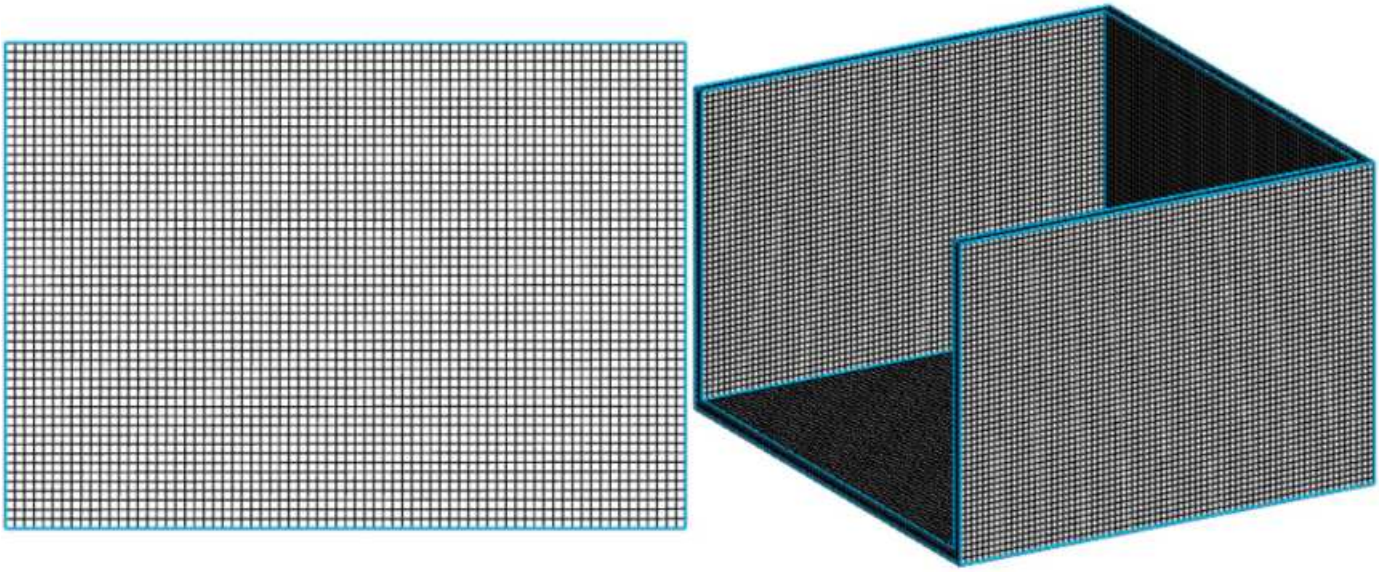


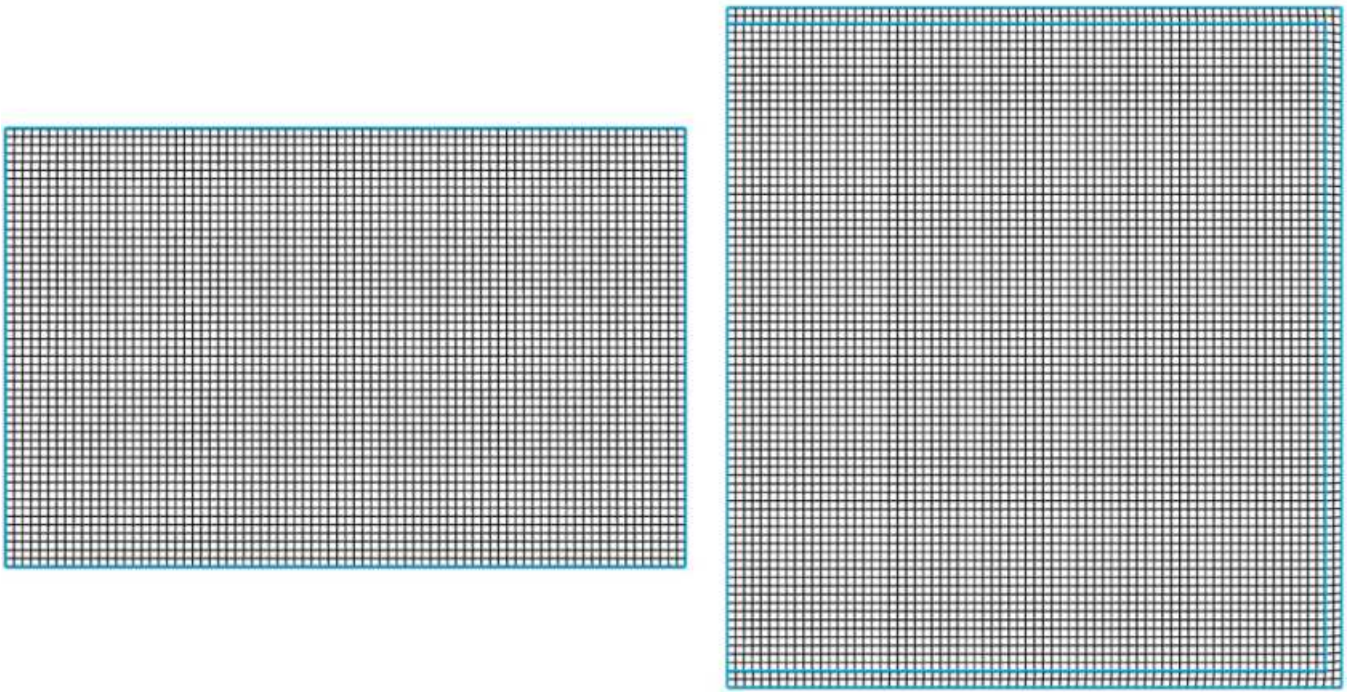
Model: 00001536 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 27.3633 sec to generate the unstructured mesh, 2.43988 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34328	35786	0	0
Quasi-structured	34328	35786	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	9.27792	9.8337	10.4212	0.983331	0.999883	0.999977
Quasi-structured	9.27792	9.8337	10.4212	0.984537	0.999901	0.999977



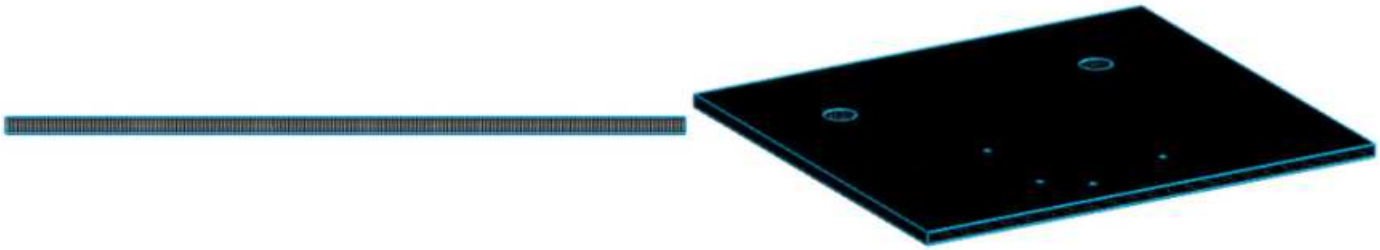


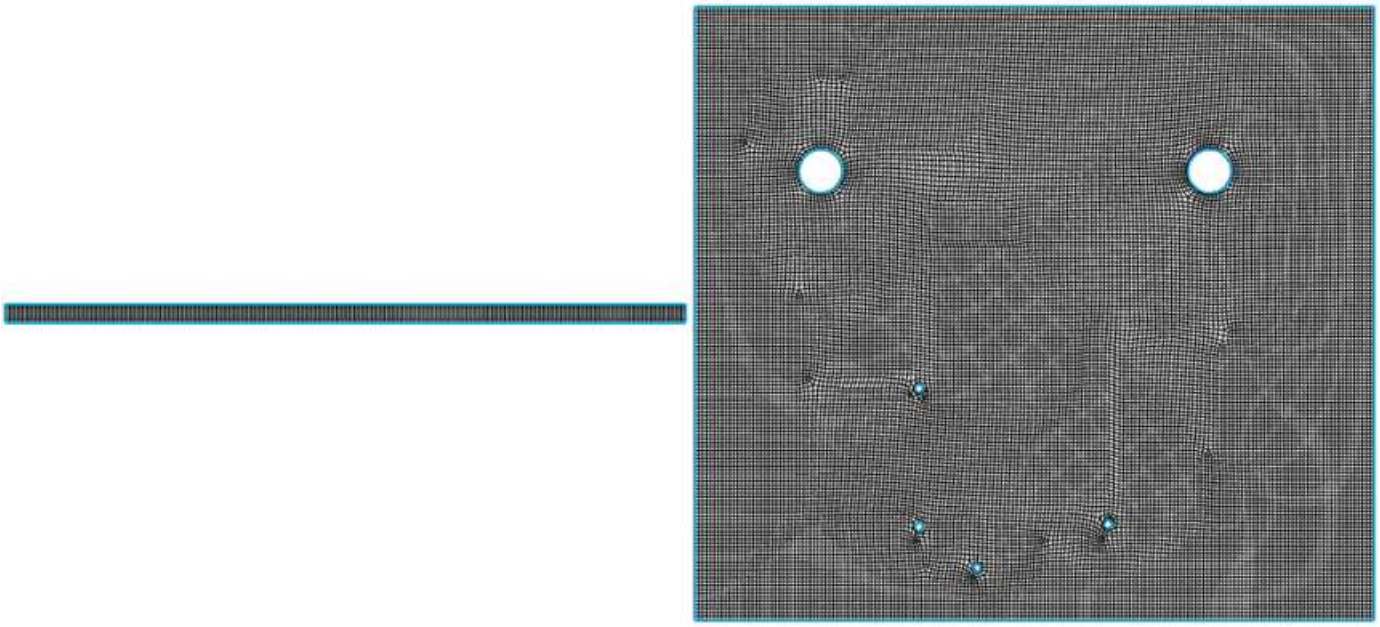
Model: 00001539 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 48 singularities detected
Timings: 51.529 sec to generate the unstructured mesh, 39.1253 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	58236	59818	352	43
Quasi-structured	58059	59641	122	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.54861	4.50534	8.19401	0.0741625	0.982243	0.999961
Quasi-structured	0.861346	4.50327	8.93437	0.204084	0.991452	0.999374



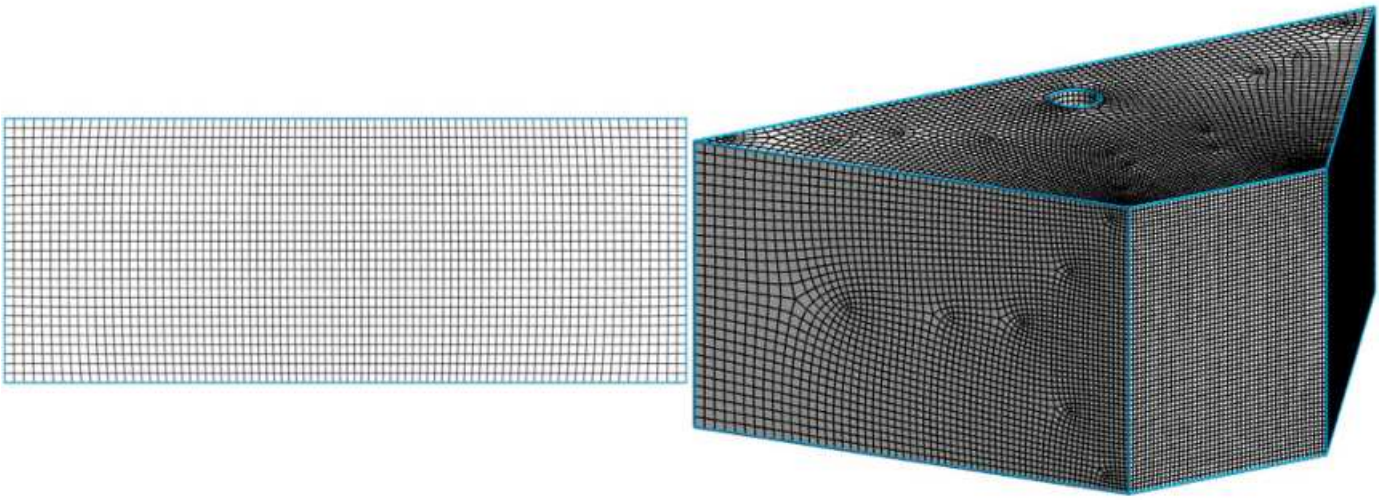


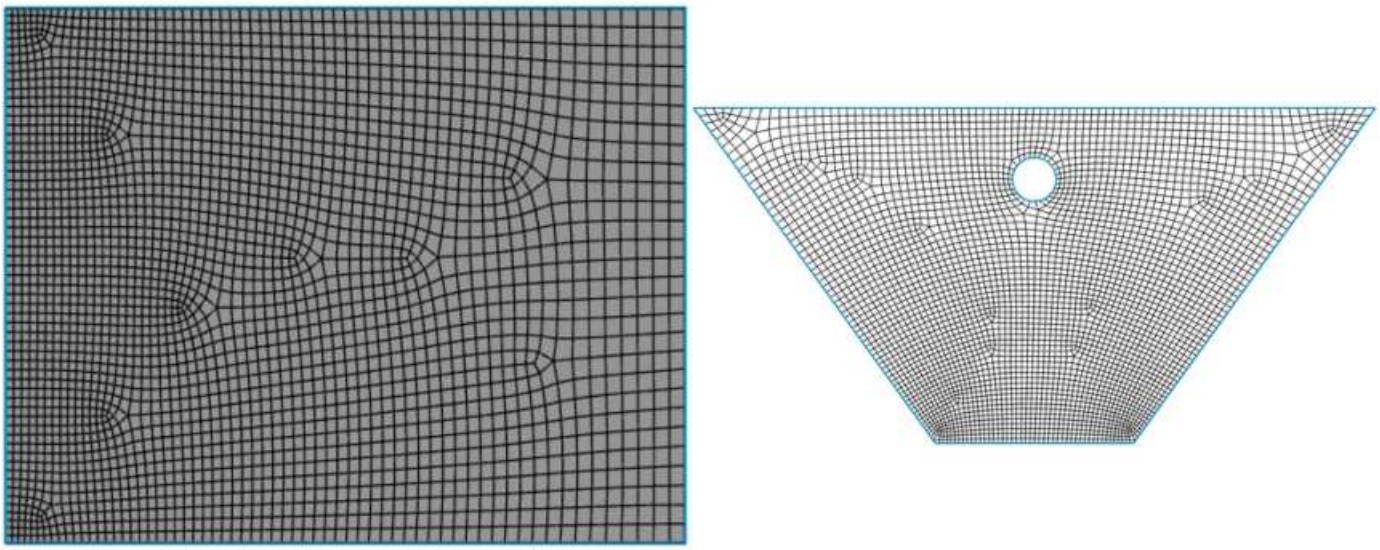
Model: 00001540 (from ABC dataset)
CAD: 18 corners, 27 curves, 15 faces
Cross field: 40 singularities detected
Timings: 10.3644 sec to generate the unstructured mesh, 5.76024 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19596	20444	295	73
Quasi-structured	19585	20433	138	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.725931	3.54075	8.02985	0.00222981	0.979933	0.995159
Quasi-structured	0.918269	3.5326	9.21539	0.442014	0.989206	0.997414



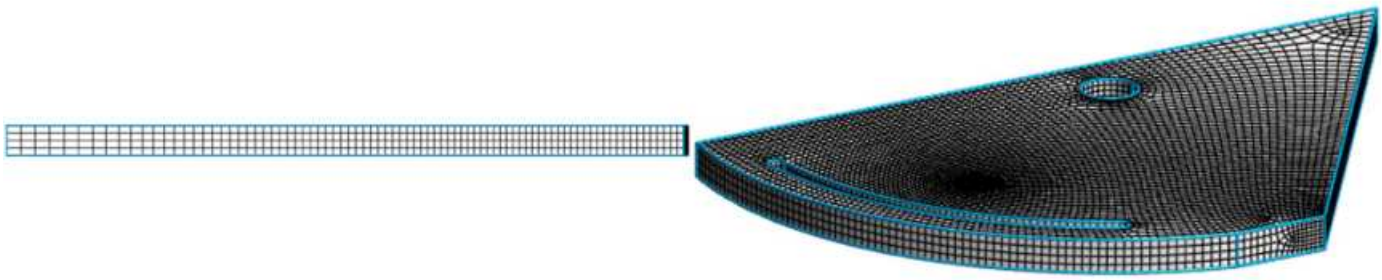


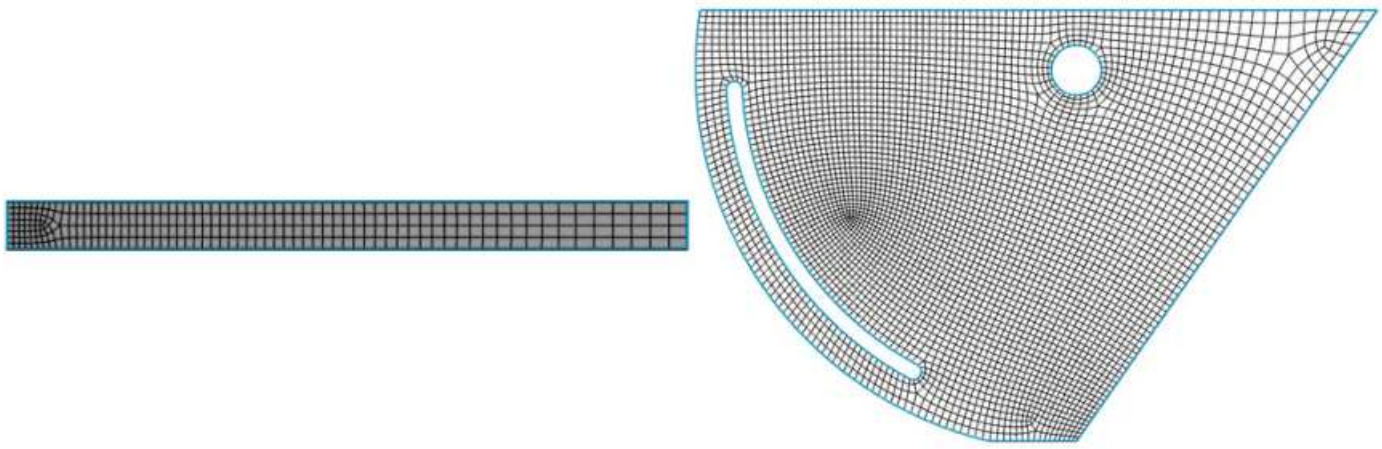
Model: 00001541 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 18 singularities detected
Timings: 10.6319 sec to generate the unstructured mesh, 1.99773 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10742	11588	115	9
Quasi-structured	10533	11379	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.885423	4.1166	13.2227	0.108682	0.980232	0.997383
Quasi-structured	1.12892	4.1618	12.8176	0.534276	0.986913	0.997244



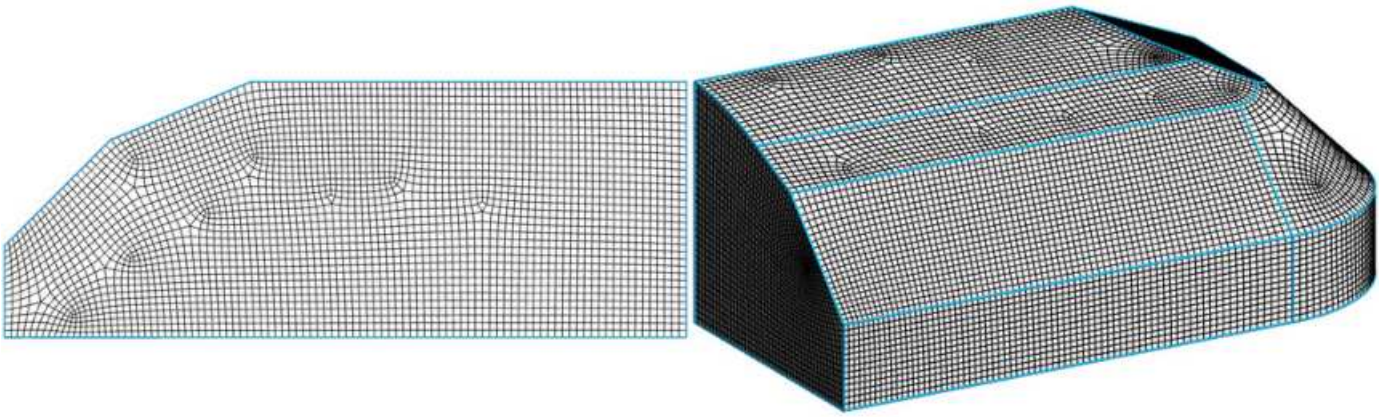


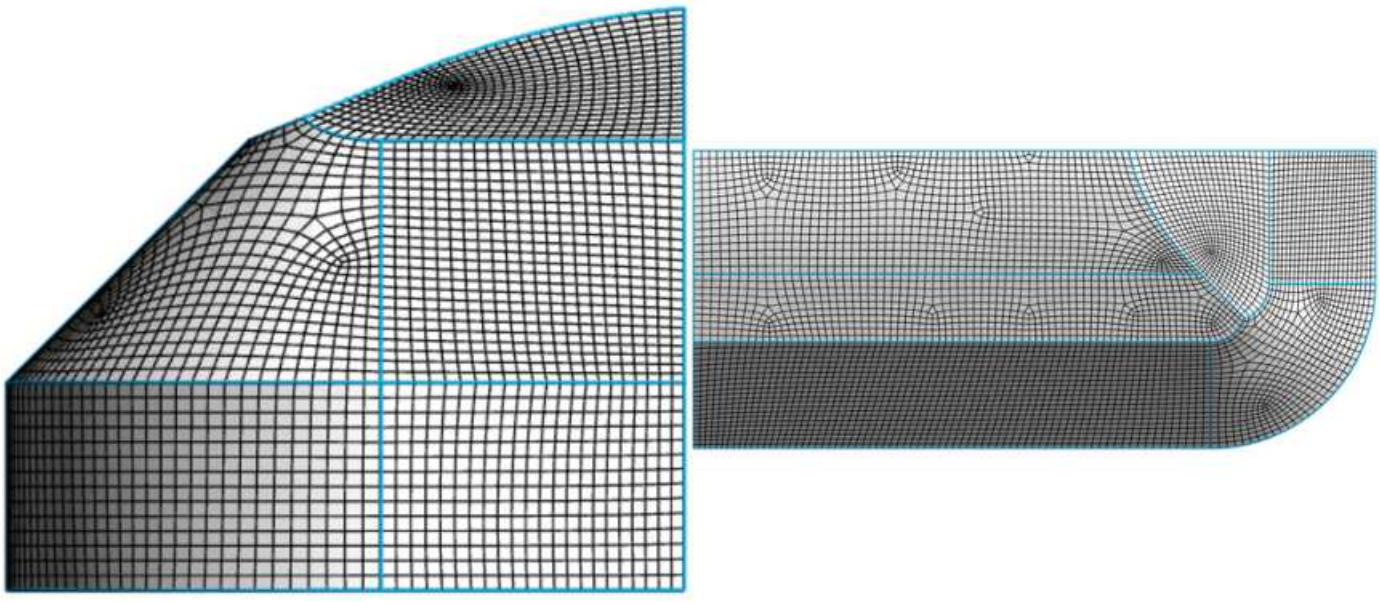
Model: 00001559 (from ABC dataset)
CAD: 18 corners, 28 curves, 12 faces
Cross field: 4 singularities detected
Timings: 11.9691 sec to generate the unstructured mesh, 4.66686 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15184	16100	210	7
Quasi-structured	15704	16620	44	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.635629	2.15539	5.53228	0.470847	0.979071	0.993573
Quasi-structured	0.52197	2.11355	5.06193	0.66303	0.986804	0.993637



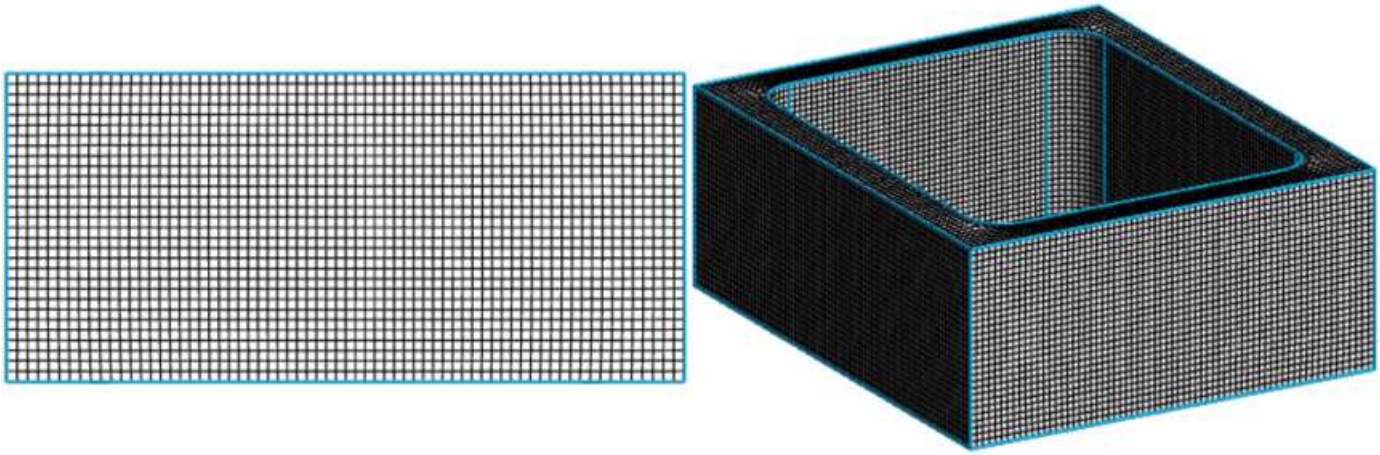


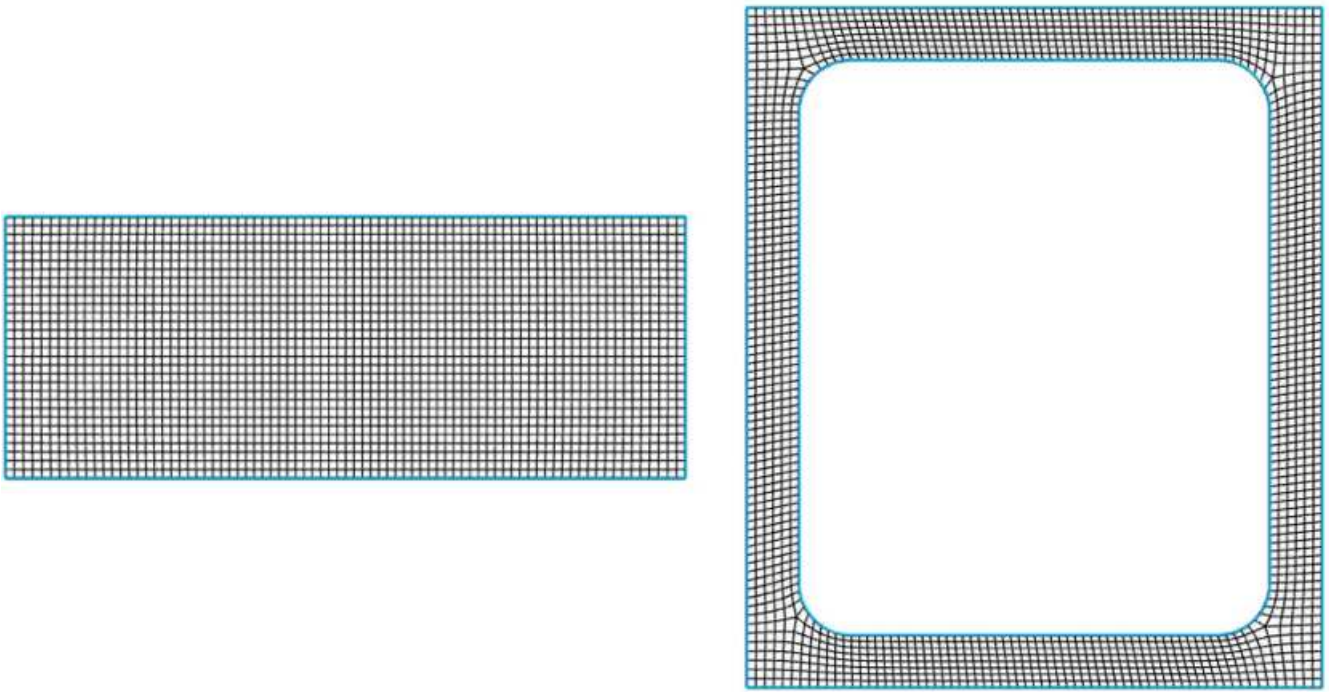
Model: 00001567 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 8 singularities detected
Timings: 14.0254 sec to generate the unstructured mesh, 2.12265 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20672	22164	110	1
Quasi-structured	21135	22627	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.26281	0.794369	1.19777	0.45338	0.993626	0.998974
Quasi-structured	0.552124	0.785237	1.44194	0.726548	0.994243	0.998835



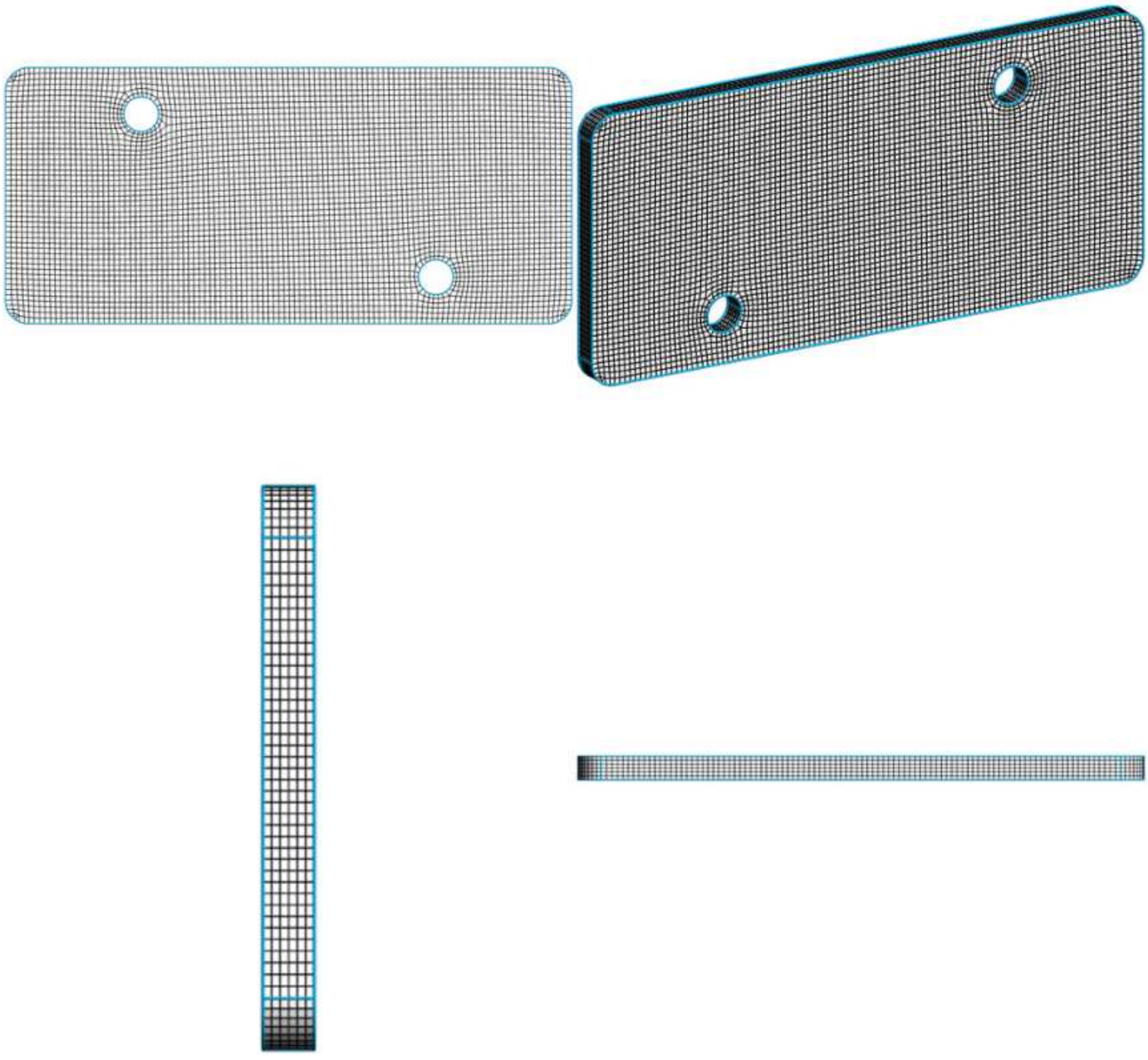


Model: 00001579 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 24 singularities detected
Timings: 8.12468 sec to generate the unstructured mesh, 1.2495 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12198	12972	97	15
Quasi-structured	12274	13048	38	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.207298	0.669215	1.08023	0.193466	0.978732	0.999112
Quasi-structured	0.275197	0.665918	1.15911	0.687379	0.987892	0.997463

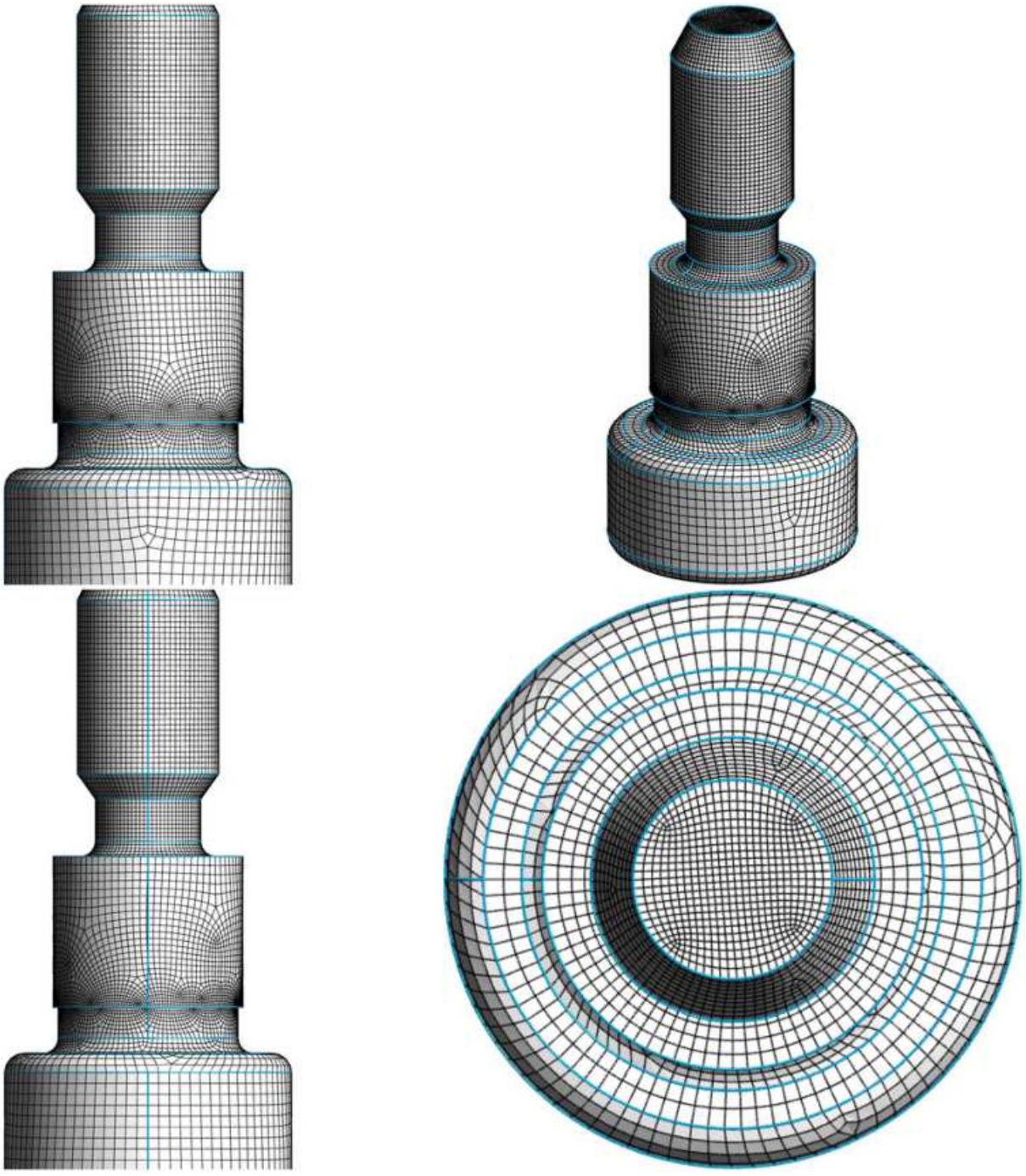


Model: 00001598 (from ABC dataset)
CAD: 18 corners, 29 curves, 16 faces
Cross field: 8 singularities detected
Timings: 8.58384 sec to generate the unstructured mesh, 24.5471 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14348	15928	343	137
Quasi-structured	14340	15920	104	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0367046	0.179094	0.406477	0.365617	0.957098	0.994907
Quasi-structured	0.029534	0.17904	0.514961	0.523586	0.97978	0.994902

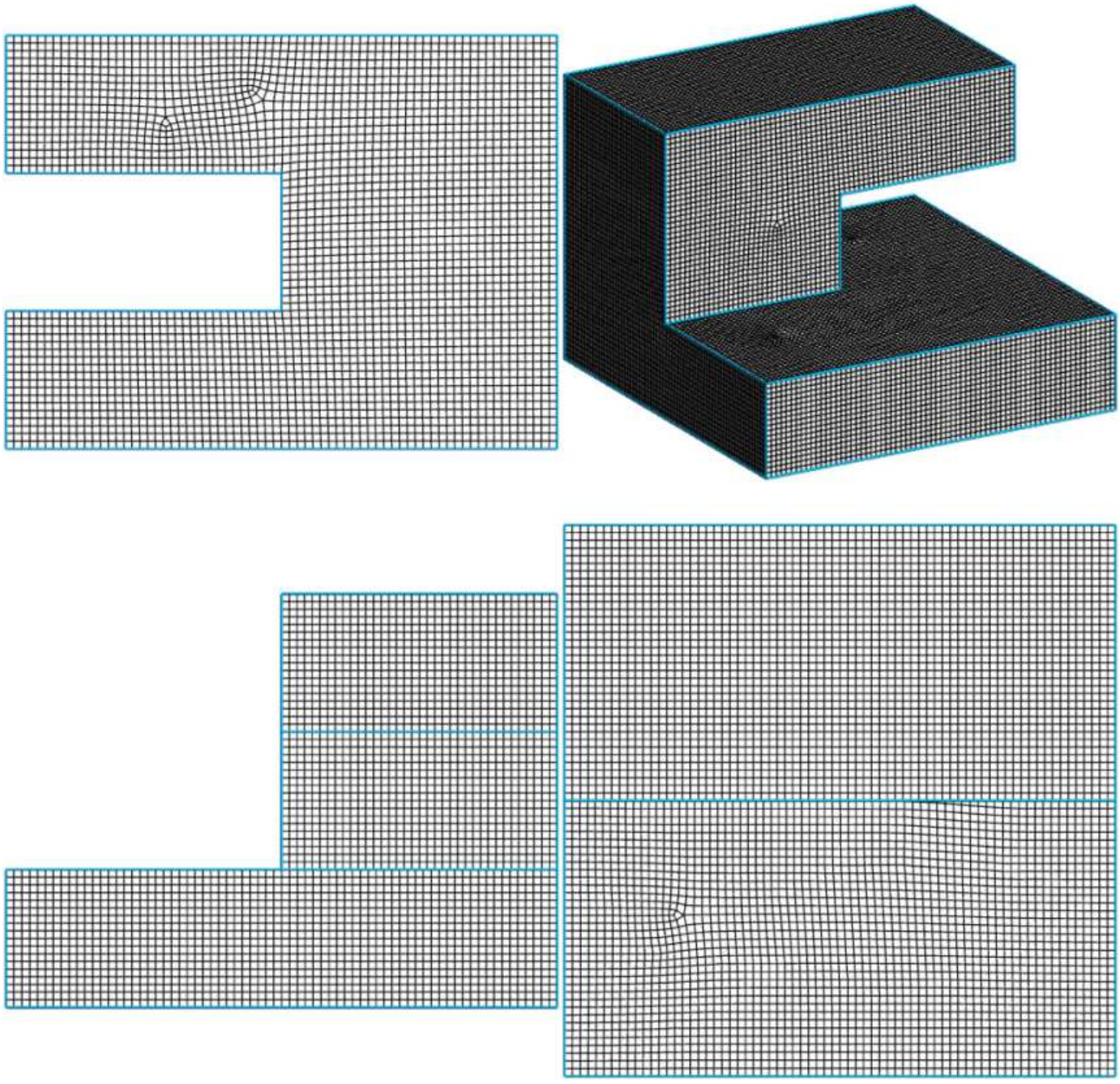


Model: 00001614 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 0 singularities detected
Timings: 16.7252 sec to generate the unstructured mesh, 2.17467 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23554	24699	43	1
Quasi-structured	23643	24788	14	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.560971	1.44414	2.30008	0.650081	0.995381	0.999603
Quasi-structured	0.822805	1.44011	2.02138	0.760467	0.999197	0.999603

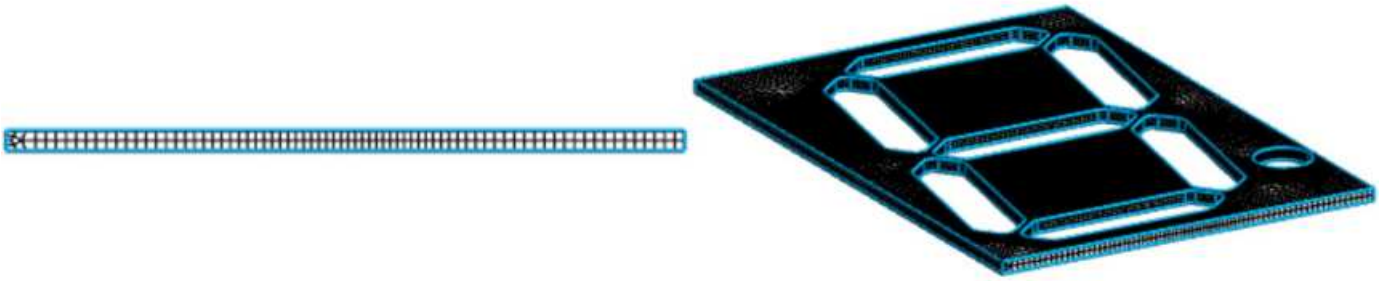


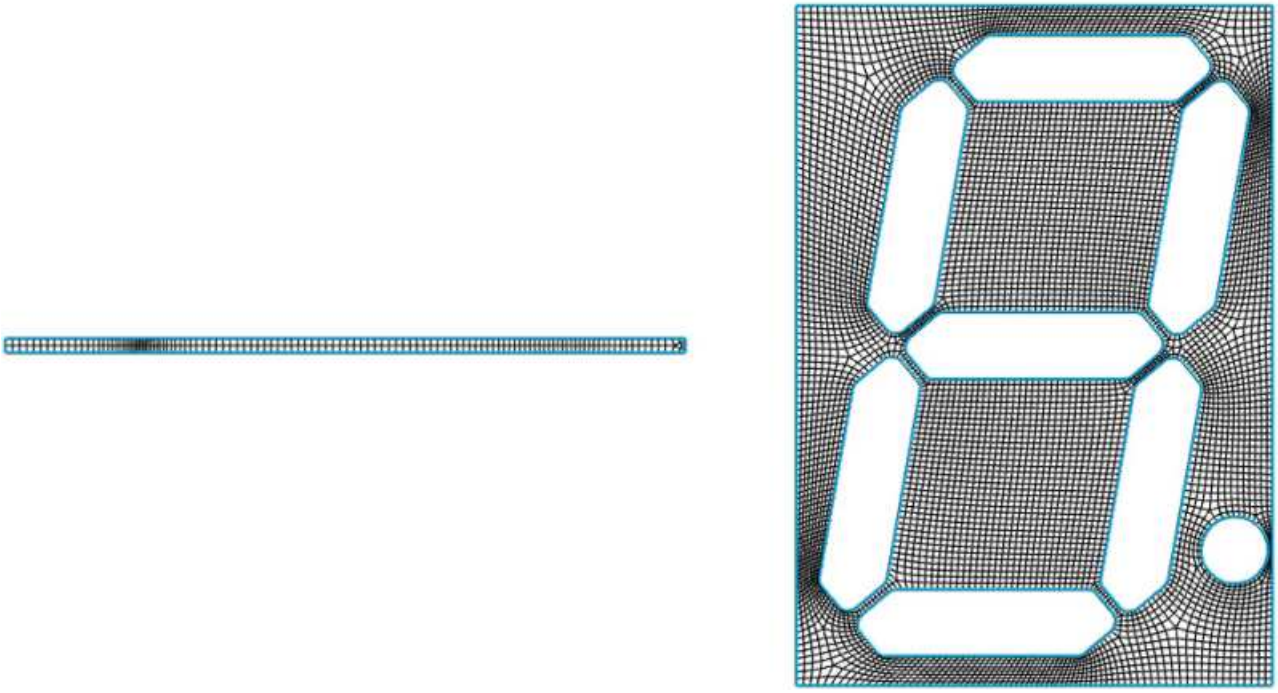
Model: 00001640 (from ABC dataset)
CAD: 179 corners, 268 curves, 91 faces
Cross field: 64 singularities detected
Timings: 14.0744 sec to generate the unstructured mesh, 3.10206 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15562	18478	448	15
Quasi-structured	17575	20491	76	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.204485	1.27108	2.61649	0.314102	0.952597	0.986132
Quasi-structured	0.242262	1.206	3.08826	0.537268	0.937672	0.972757



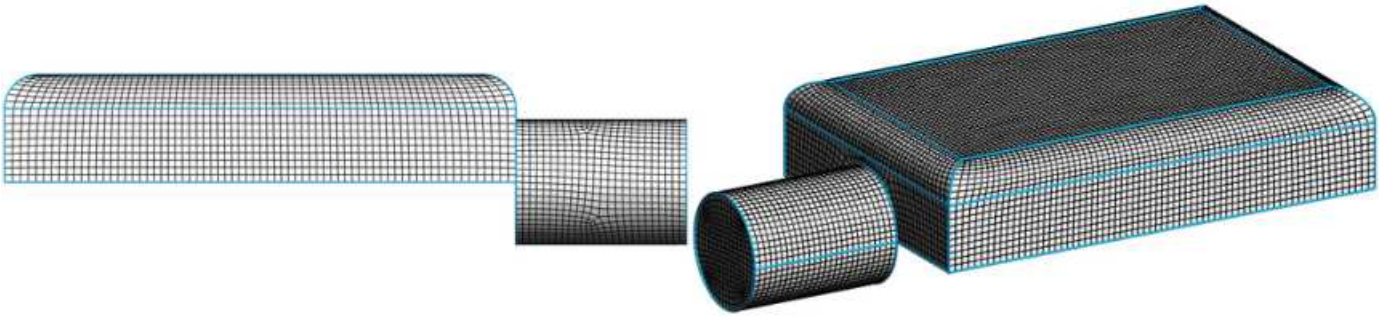


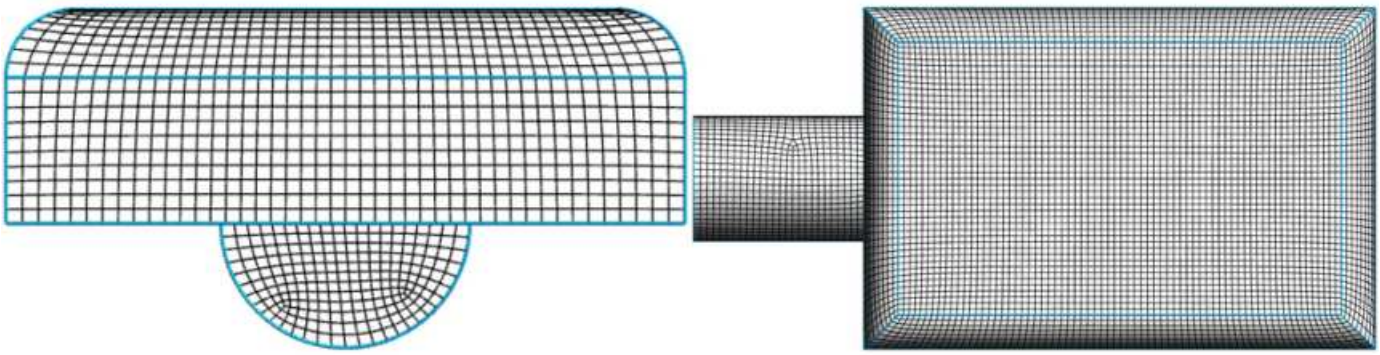
Model: 00001642 (from ABC dataset)
CAD: 15 corners, 26 curves, 13 faces
Cross field: 14 singularities detected
Timings: 10.5971 sec to generate the unstructured mesh, 1.8529 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12978	13880	60	29
Quasi-structured	13022	13924	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.270379	1.0013	1.70914	0.52008	0.974081	0.996753
Quasi-structured	0.385365	0.997829	1.97707	0.611825	0.987856	0.998569



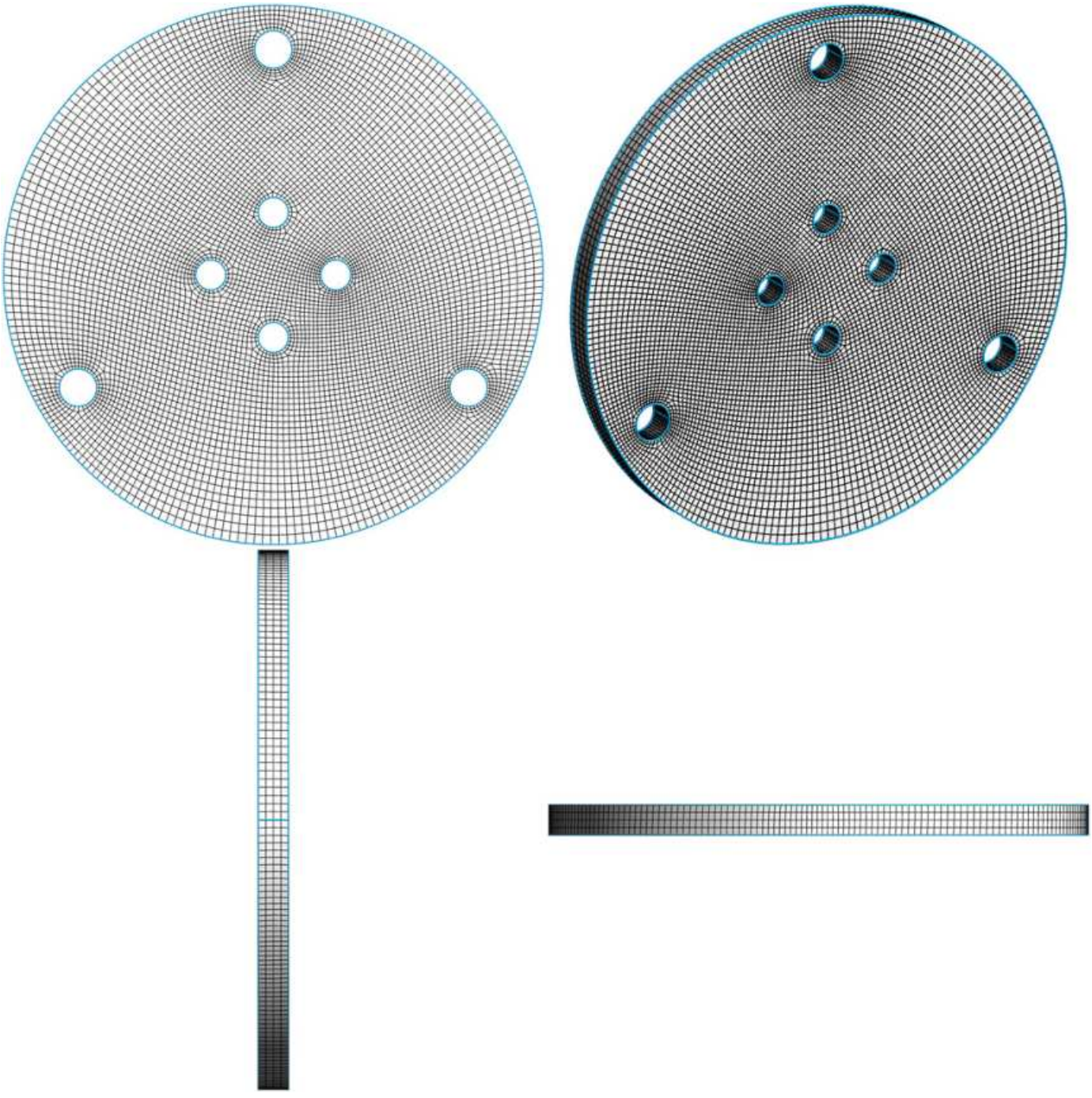


Model: 00001677 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 48 singularities detected
Timings: 16.6108 sec to generate the unstructured mesh, 3.80765 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18440	19366	330	70
Quasi-structured	17656	18582	50	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.232314	1.09484	1.9458	0.452545	0.970481	0.993248
Quasi-structured	0.408722	1.1141	2.15653	0.669612	0.985062	0.993835

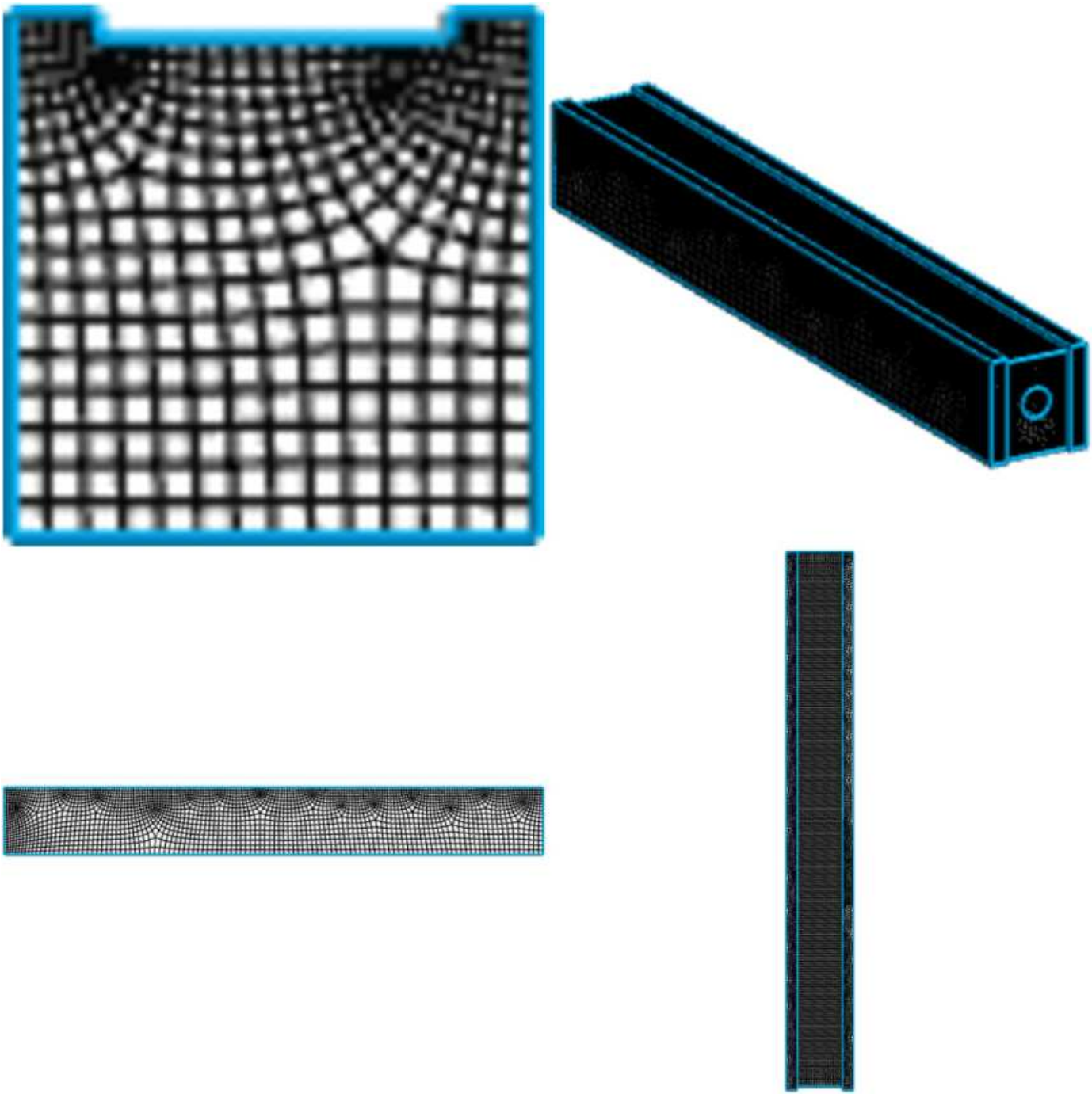


Model: 00001694 (from ABC dataset)
CAD: 23 corners, 34 curves, 14 faces
Cross field: 8 singularities detected
Timings: 3.76858 sec to generate the unstructured mesh, 27.9001 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17540	19768	539	27
Quasi-structured	17981	20209	180	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.180905	0.803195	1.83282	0.282408	0.944901	0.981101
Quasi-structured	0.132626	0.793031	2.72668	0.443616	0.955799	0.963959

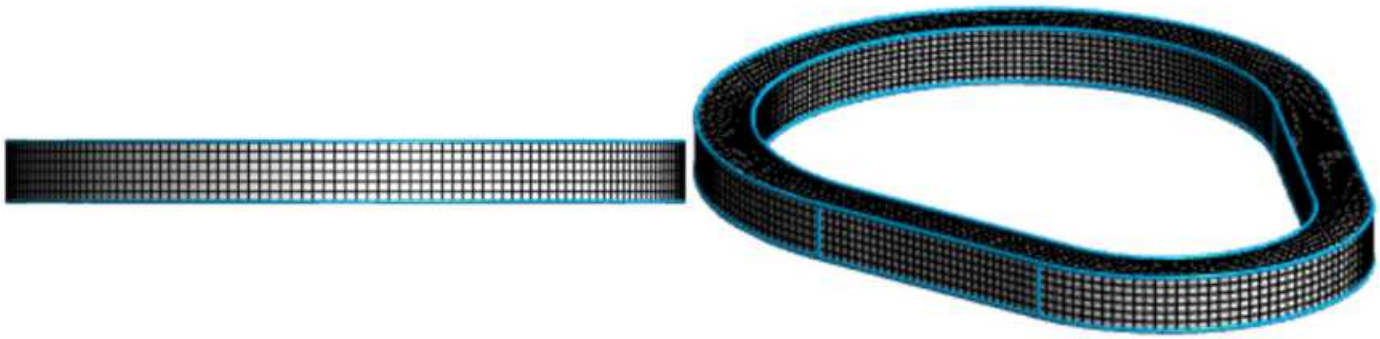


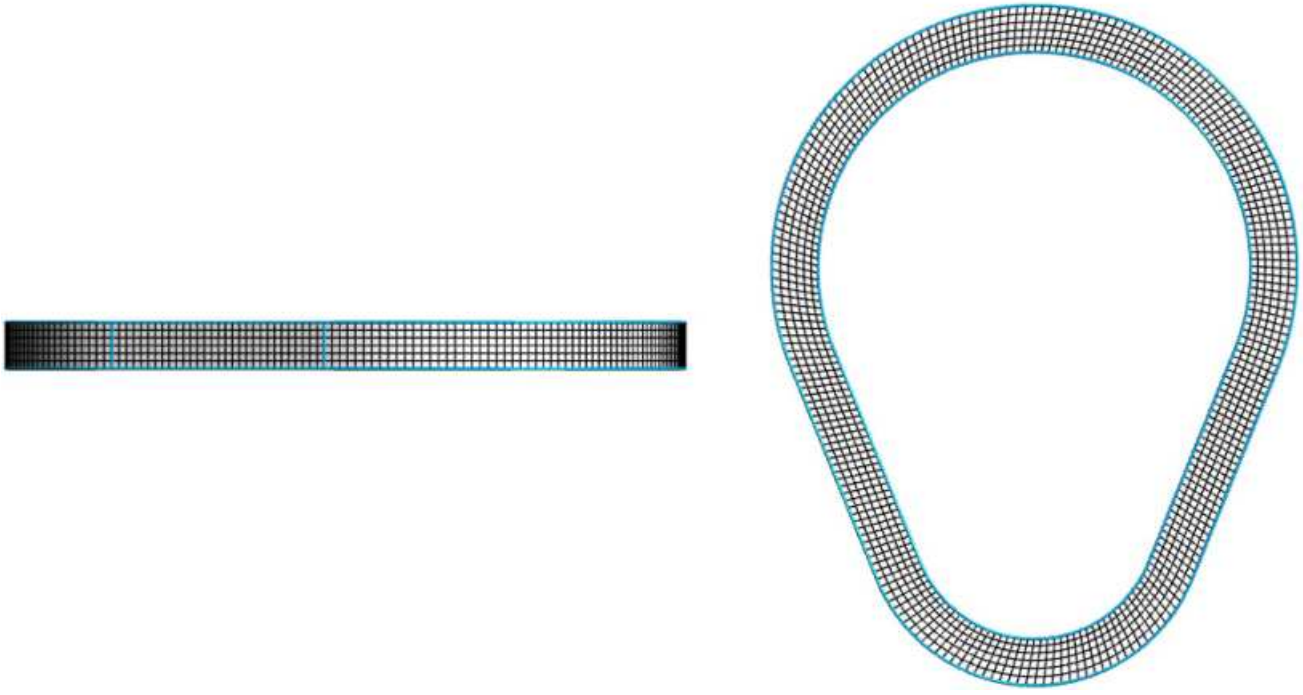
Model: 00001723 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 3.96239 sec to generate the unstructured mesh, 0.665868 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5936	6912	16	0
Quasi-structured	5928	6904	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.62802	3.02881	3.80895	0.701194	0.986271	0.990892
Quasi-structured	2.3808	3.03564	3.69741	0.9364	0.984703	0.984361



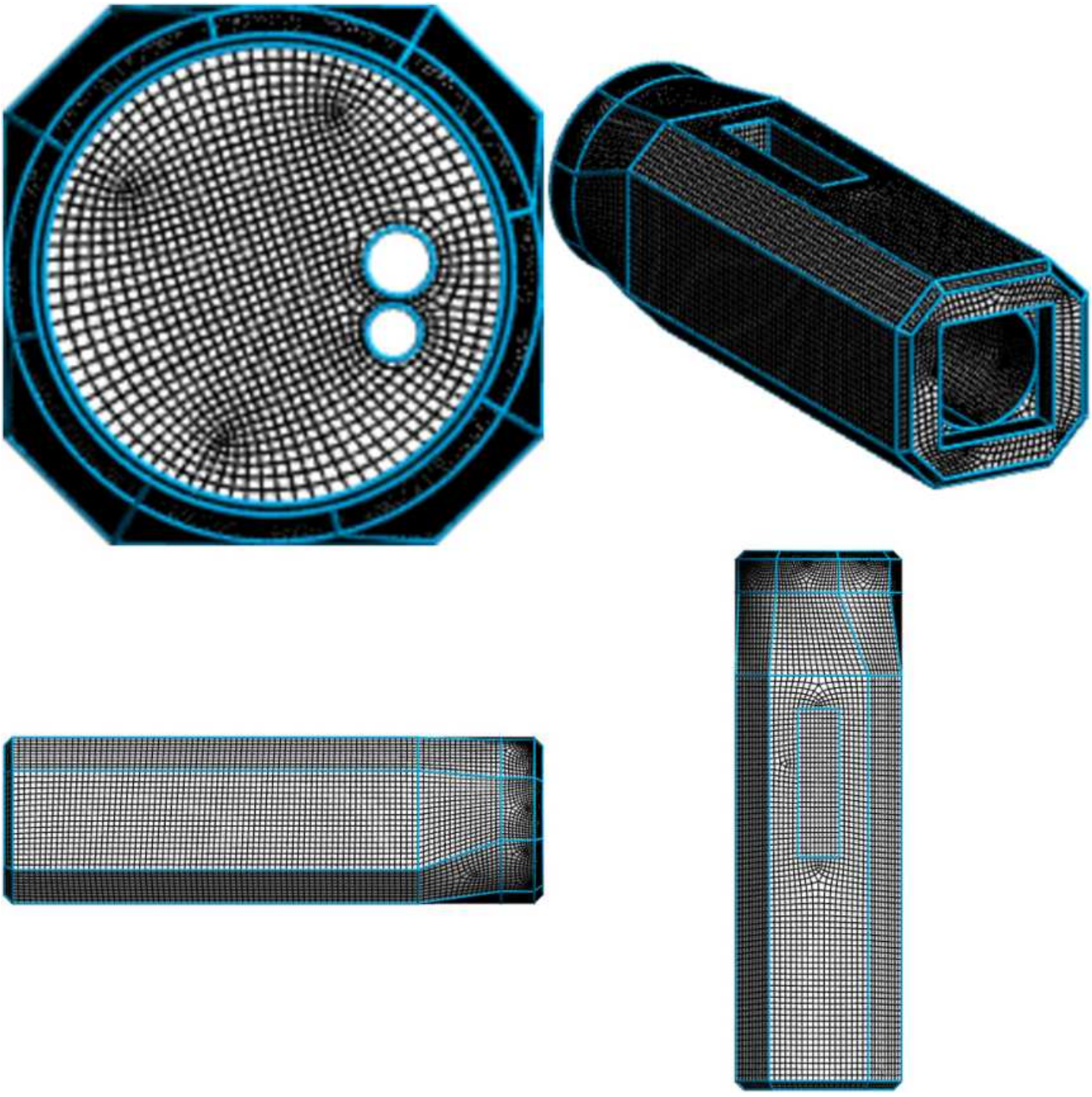


Model: 00001737 (from ABC dataset)
CAD: 85 corners, 147 curves, 63 faces
Cross field: 37 singularities detected
Timings: 14.5285 sec to generate the unstructured mesh, 37.564 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28390	31390	752	183
Quasi-structured	29125	32125	247	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0559193	0.652966	1.39125	0.00245754	0.956606	0.98633
Quasi-structured	0.0342753	0.641606	1.7588	0.0364745	0.970101	0.988448

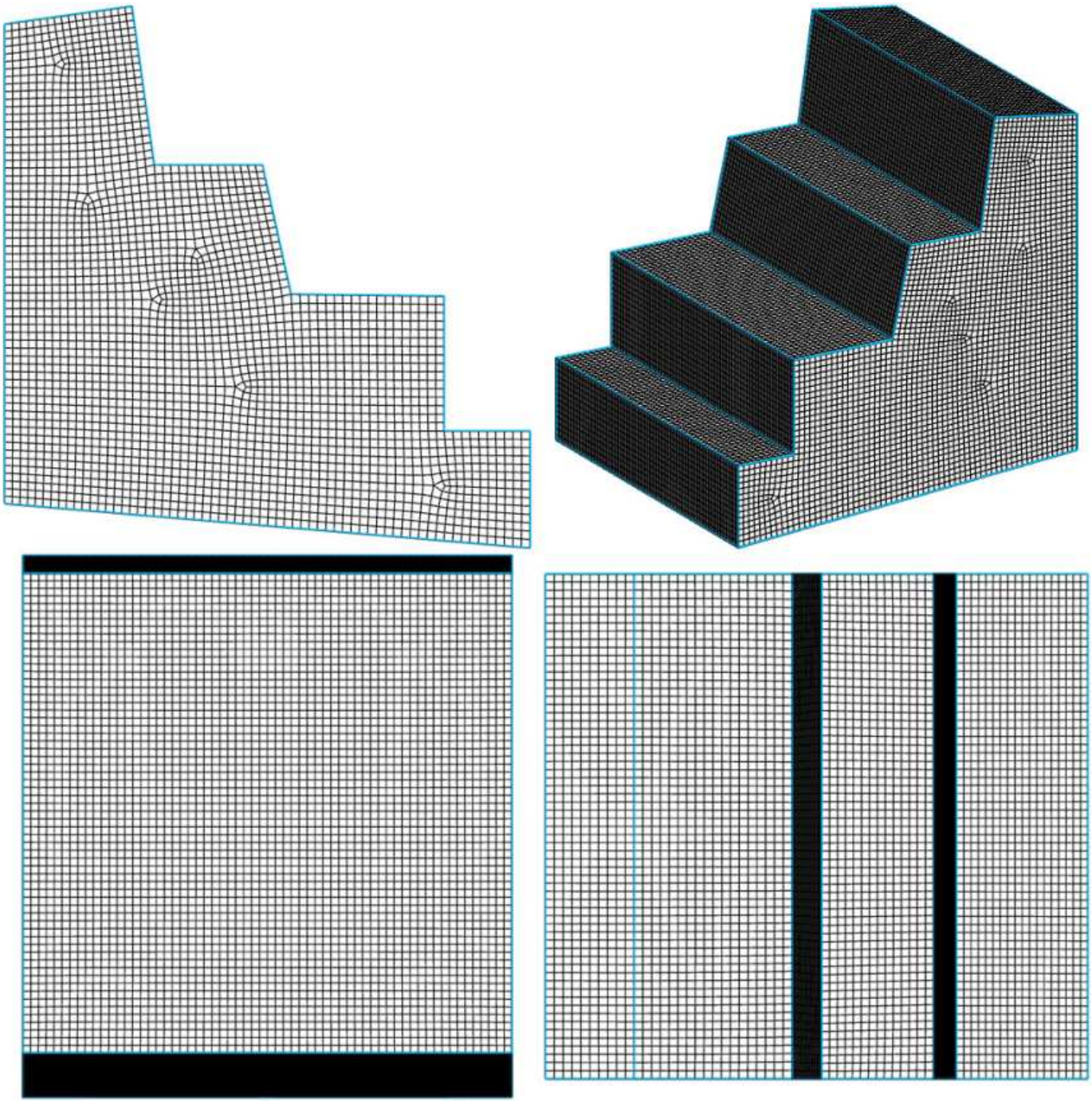


Model: 00001776 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 0 singularities detected
Timings: 13.6801 sec to generate the unstructured mesh, 2.46991 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21004	22148	43	0
Quasi-structured	21012	22156	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.208121	0.811779	1.27633	0.252999	0.994342	0.998388
Quasi-structured	0.474004	0.811104	1.14682	0.836955	0.997906	0.998747

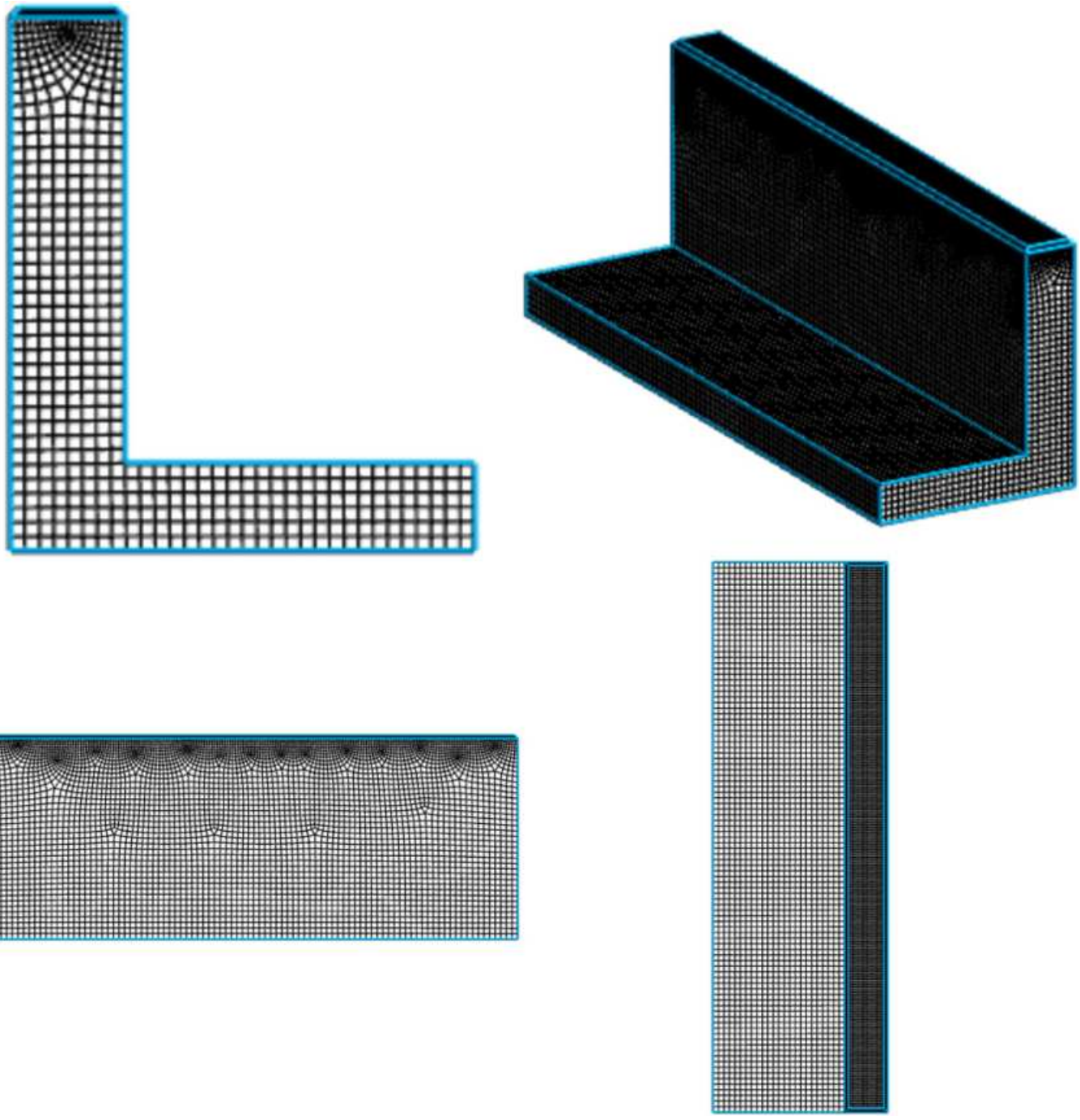


Model: 00001777 (from ABC dataset)
CAD: 16 corners, 26 curves, 12 faces
Cross field: 0 singularities detected
Timings: 6.46275 sec to generate the unstructured mesh, 10.4118 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22100	23736	211	26
Quasi-structured	22458	24094	80	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.342647	1.17242	2.00017	0.51579	0.963119	0.997576
Quasi-structured	0.330053	1.15724	2.51308	0.719228	0.973231	0.996259



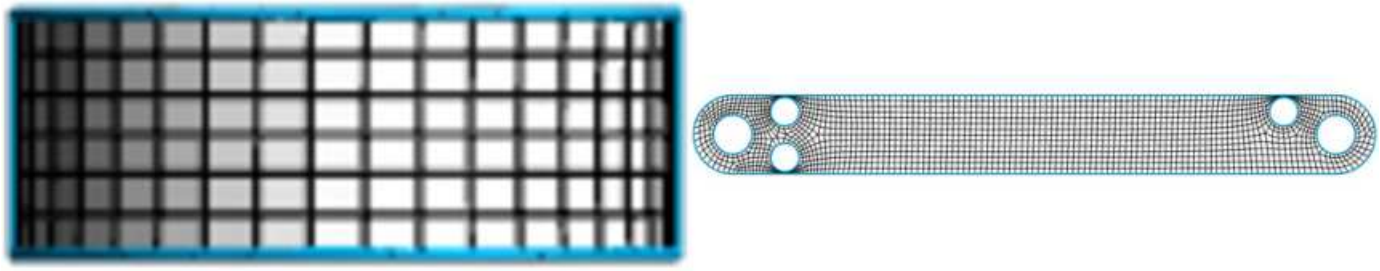
Model: 00001787 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 32 singularities detected
Timings: 3.08519 sec to generate the unstructured mesh, 1.29694 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7996	9020	296	45
Quasi-structured	7869	8893	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0421822	0.368411	0.754889	0.398056	0.933039	0.979359
Quasi-structured	0.0468707	0.376178	0.832282	0.451709	0.926793	0.979208



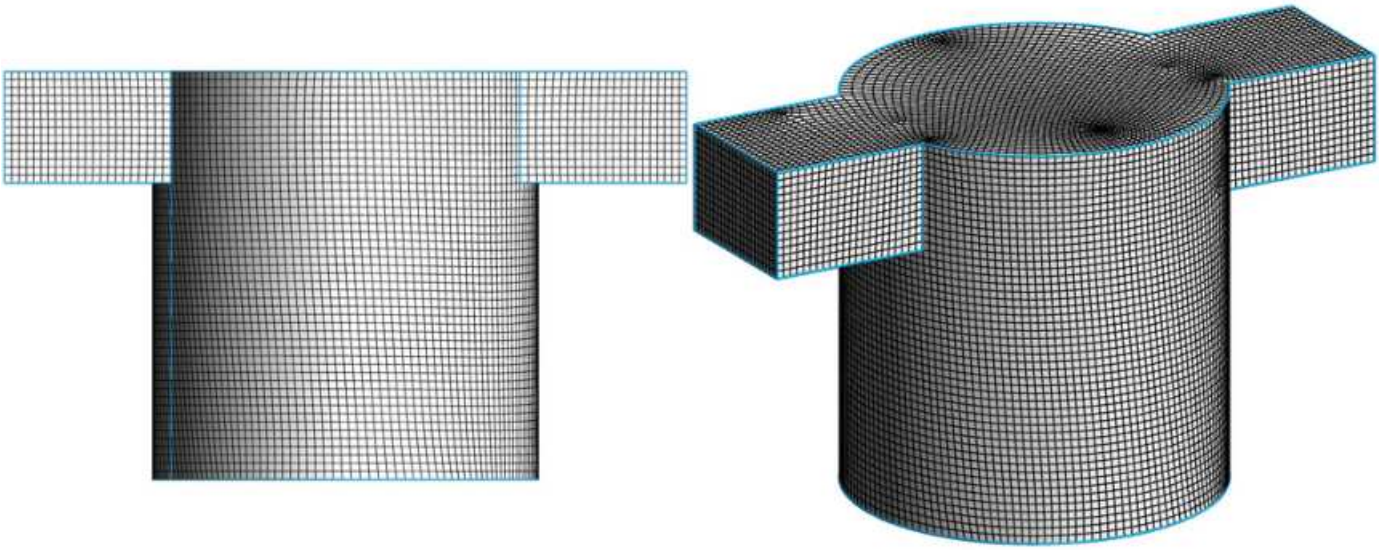


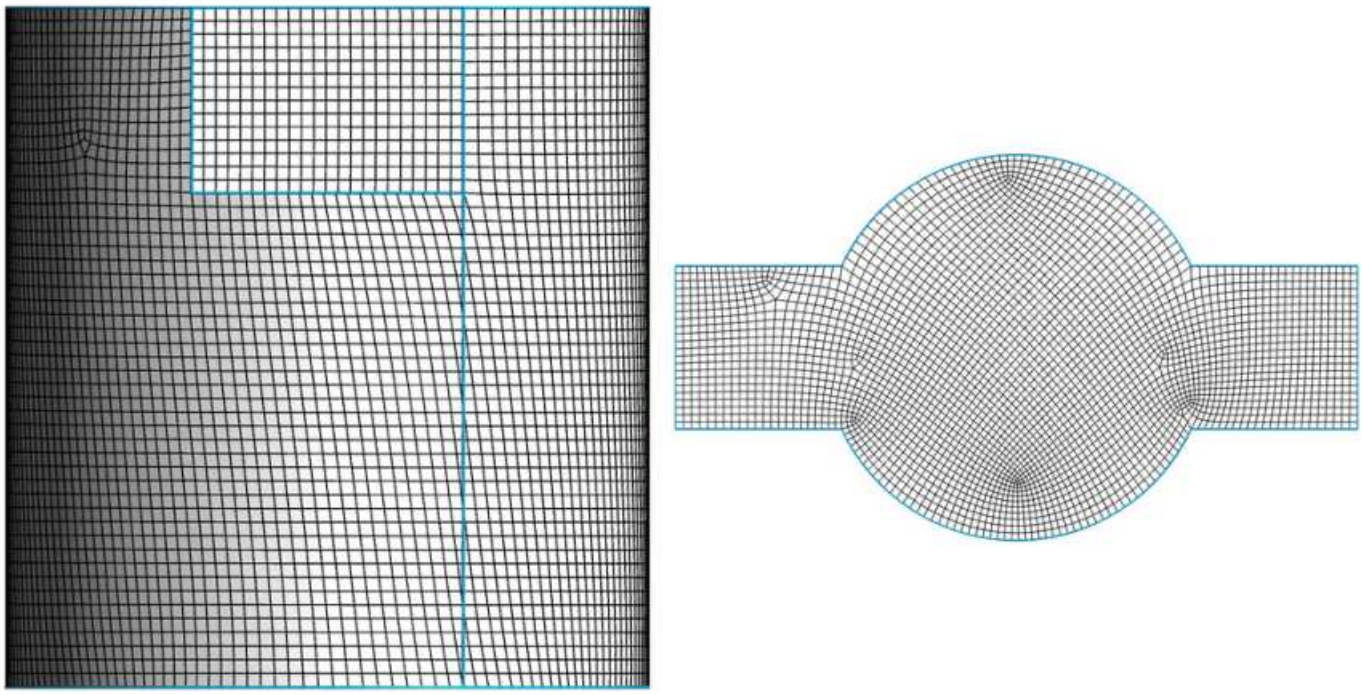
Model: 00001794 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 8 singularities detected
Timings: 12.777 sec to generate the unstructured mesh, 1.44572 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15204	15888	118	38
Quasi-structured	15350	16034	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0406384	0.131556	0.241597	0.493006	0.983305	0.993799
Quasi-structured	0.0398917	0.130613	0.241085	0.73643	0.993771	0.996194



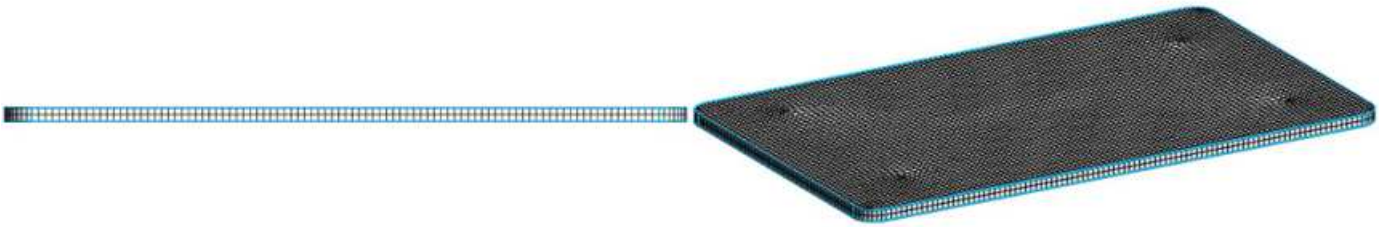


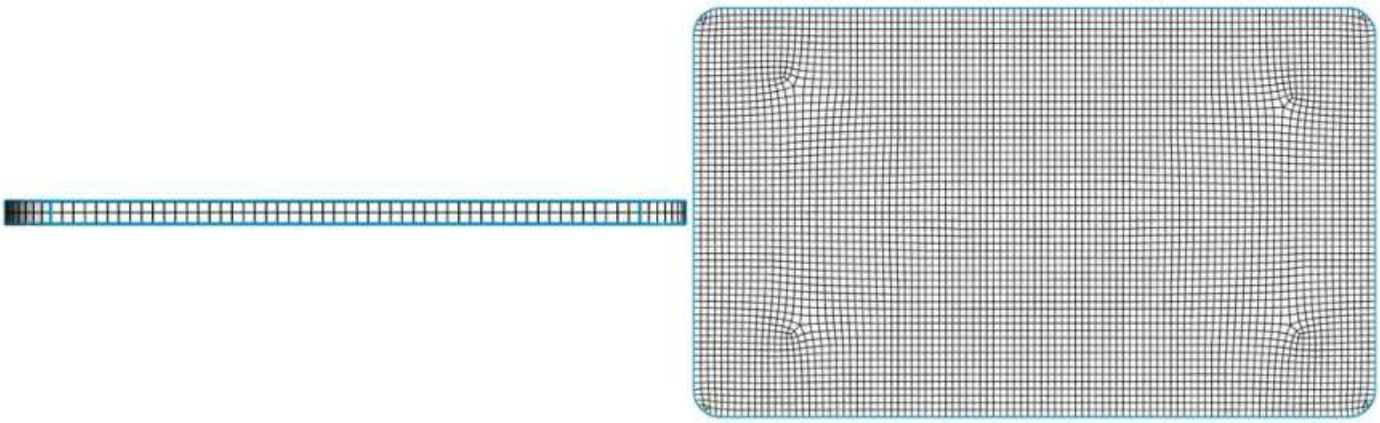
Model: 00001820 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 5.48505 sec to generate the unstructured mesh, 1.27418 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11856	12522	40	0
Quasi-structured	11832	12498	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.14962	5.15951	7.41097	0.195089	0.992466	0.997968
Quasi-structured	1.90889	5.15767	7.30231	0.714885	0.996156	0.998088



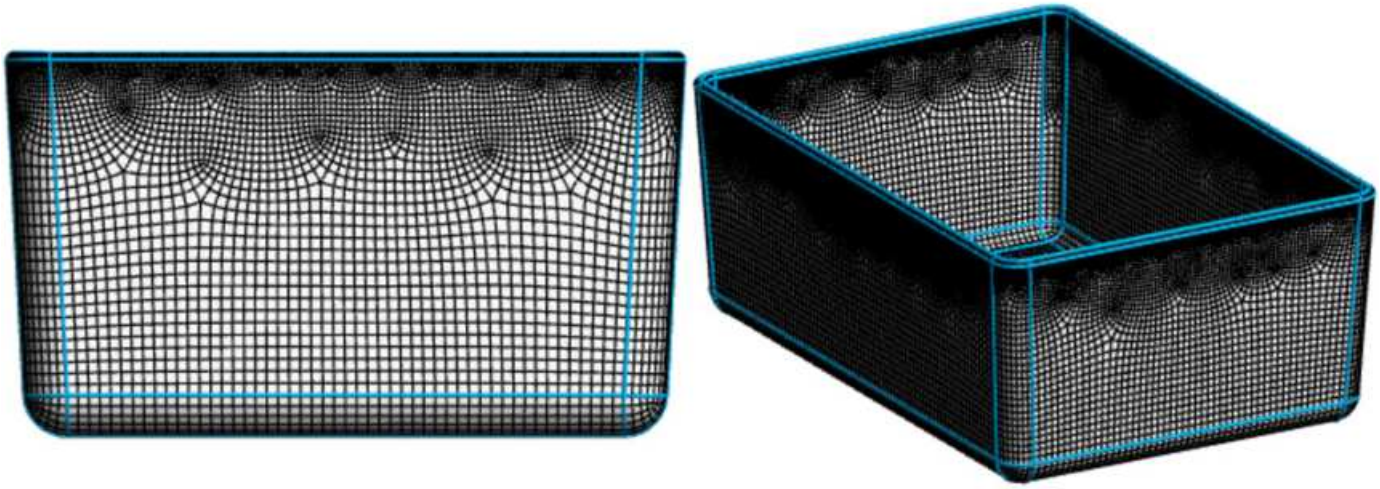


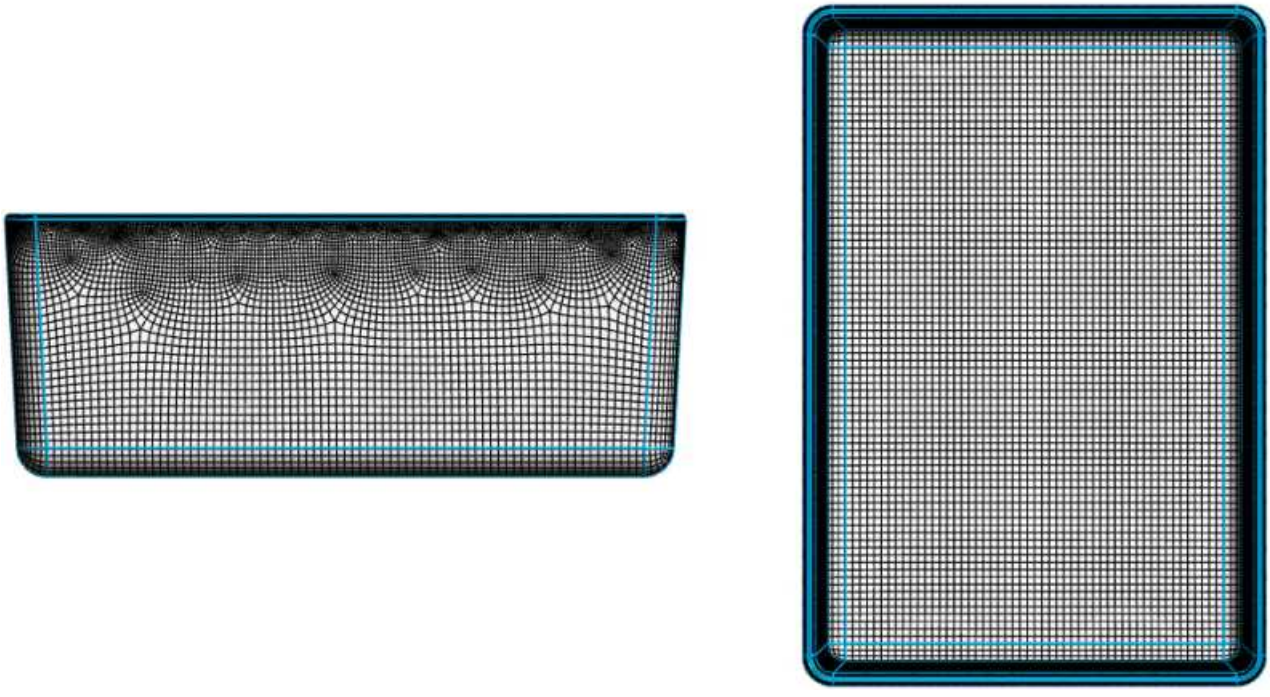
Model: 00001825 (from ABC dataset)
CAD: 56 corners, 112 curves, 51 faces
Cross field: 8 singularities detected
Timings: 31.5835 sec to generate the unstructured mesh, 194.823 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	66984	74328	2494	148
Quasi-structured	70433	77777	802	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.075969	0.962785	2.7688	0.0983011	0.927754	0.984876
Quasi-structured	0.102751	0.926012	3.08683	0.40995	0.948069	0.989306



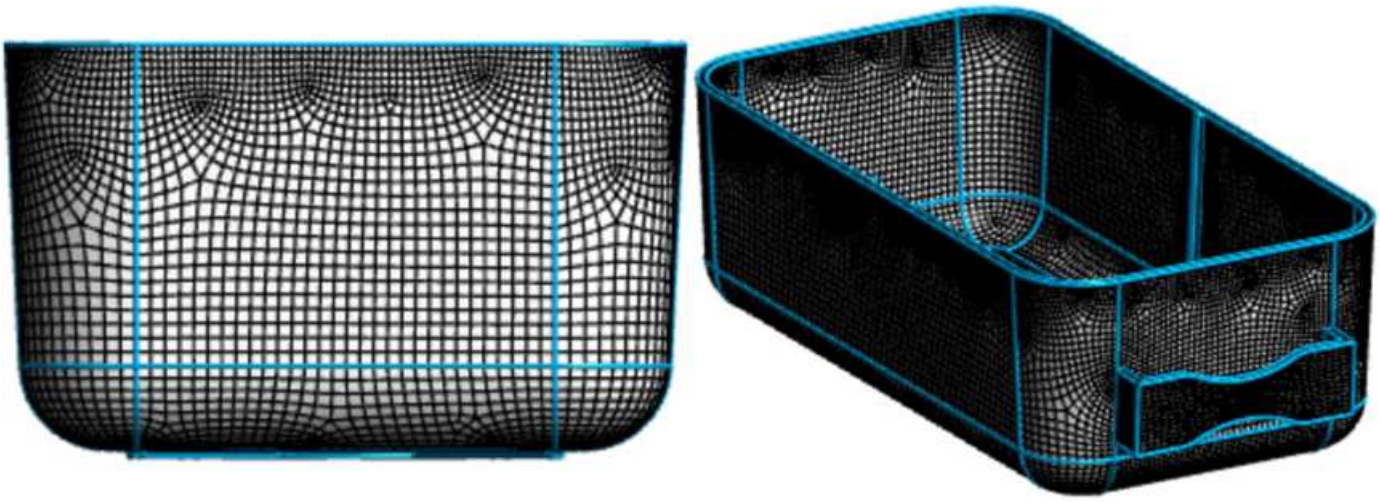


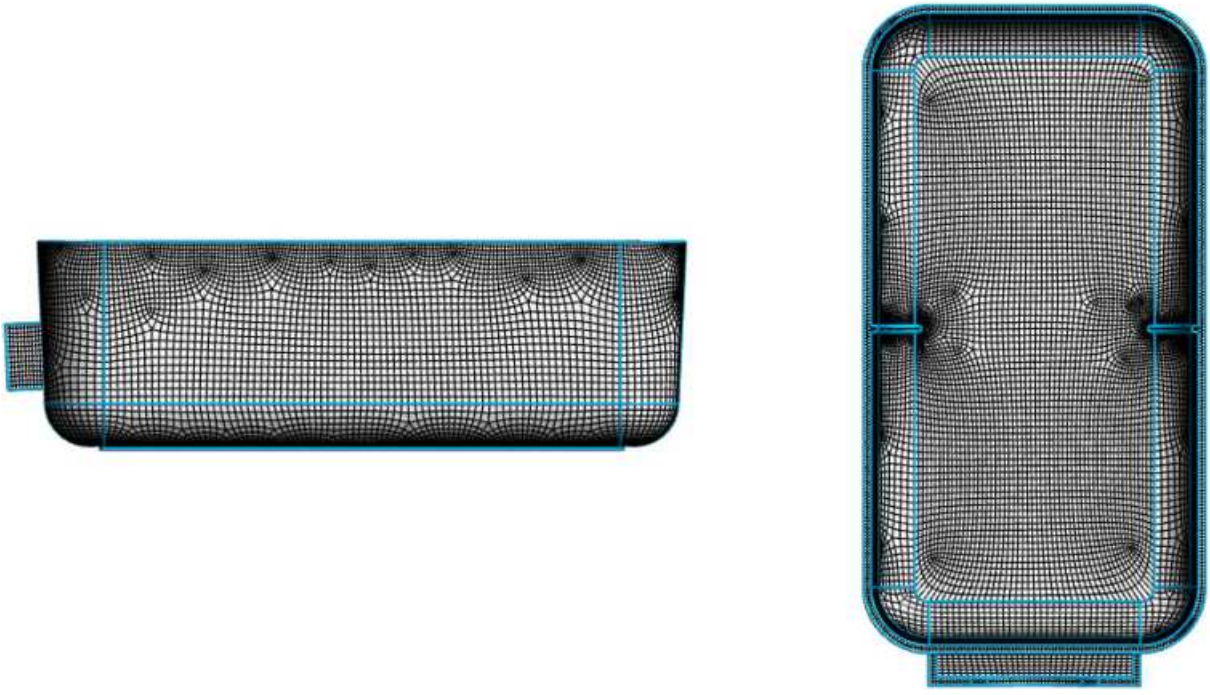
Model: 00001827 (from ABC dataset)
CAD: 160 corners, 254 curves, 103 faces
Cross field: 66 singularities detected
Timings: 20.4185 sec to generate the unstructured mesh, 197.483 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	65936	76134	2683	123
Quasi-structured	74627	84825	968	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00593207	0.510984	2.56525	-0.346598	0.945559	0.985341
Quasi-structured	0.0135666	0.475058	2.78306	0.0672732	0.940904	0.979475



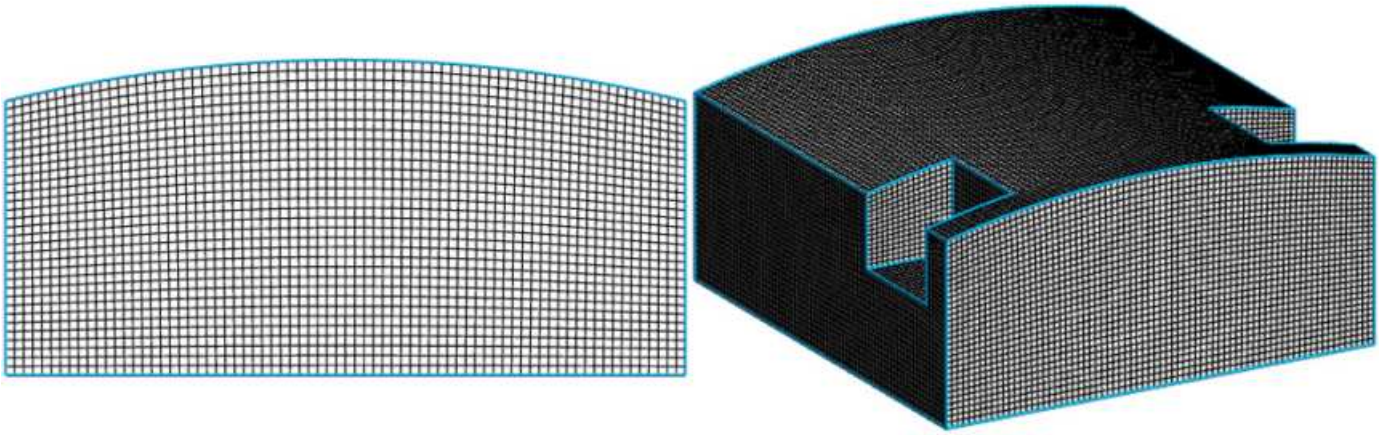


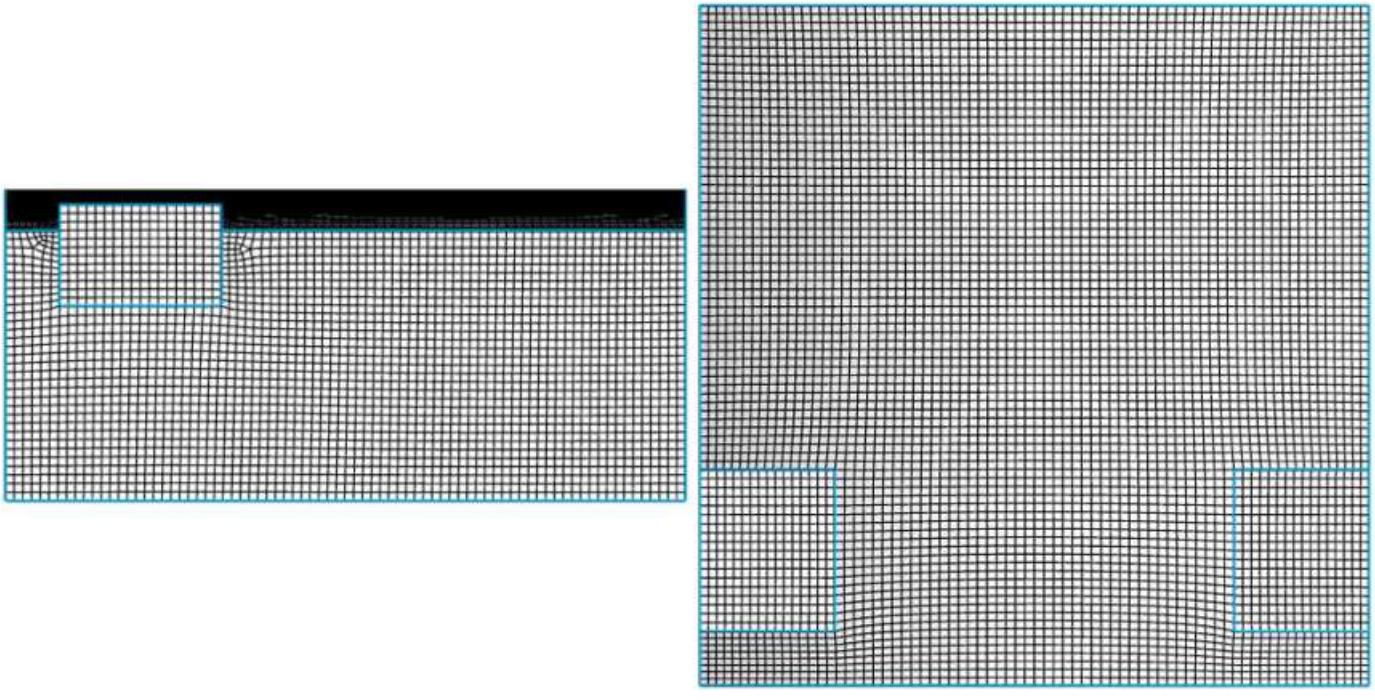
Model: 00001855 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 12.7289 sec to generate the unstructured mesh, 1.63023 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21810	22876	76	0
Quasi-structured	22418	23484	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.143889	0.421059	0.887848	0.476362	0.992463	0.999082
Quasi-structured	0.180047	0.415112	0.527153	0.771369	0.996655	0.998995



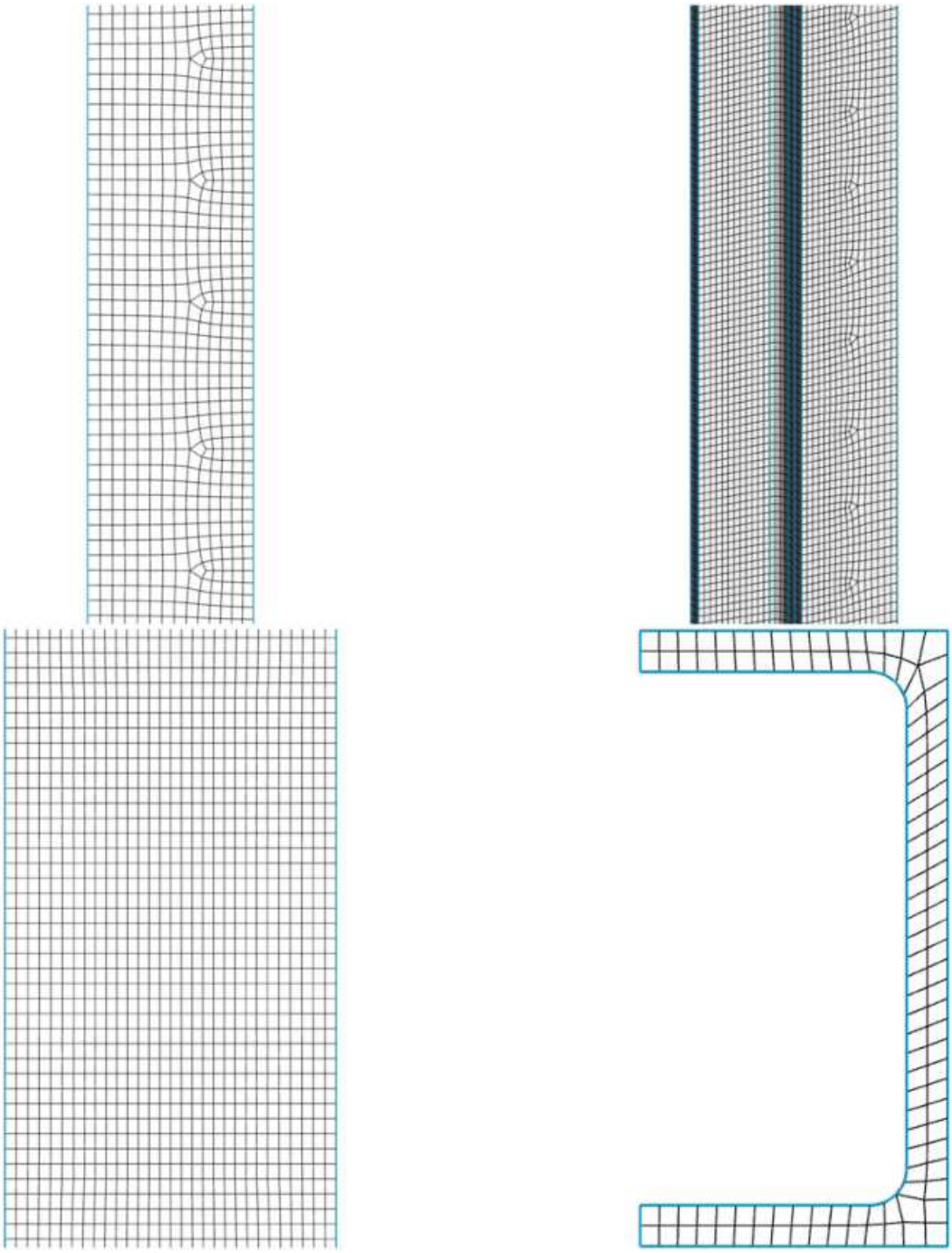


Model: 00001862 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 4 singularities detected
Timings: 6.22828 sec to generate the unstructured mesh, 3.89467 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14736	16300	76	0
Quasi-structured	15422	16986	50	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.55224	5.43723	9.28557	0.664219	0.97064	0.98515
Quasi-structured	2.66254	5.33166	9.61934	0.449463	0.967987	0.983226

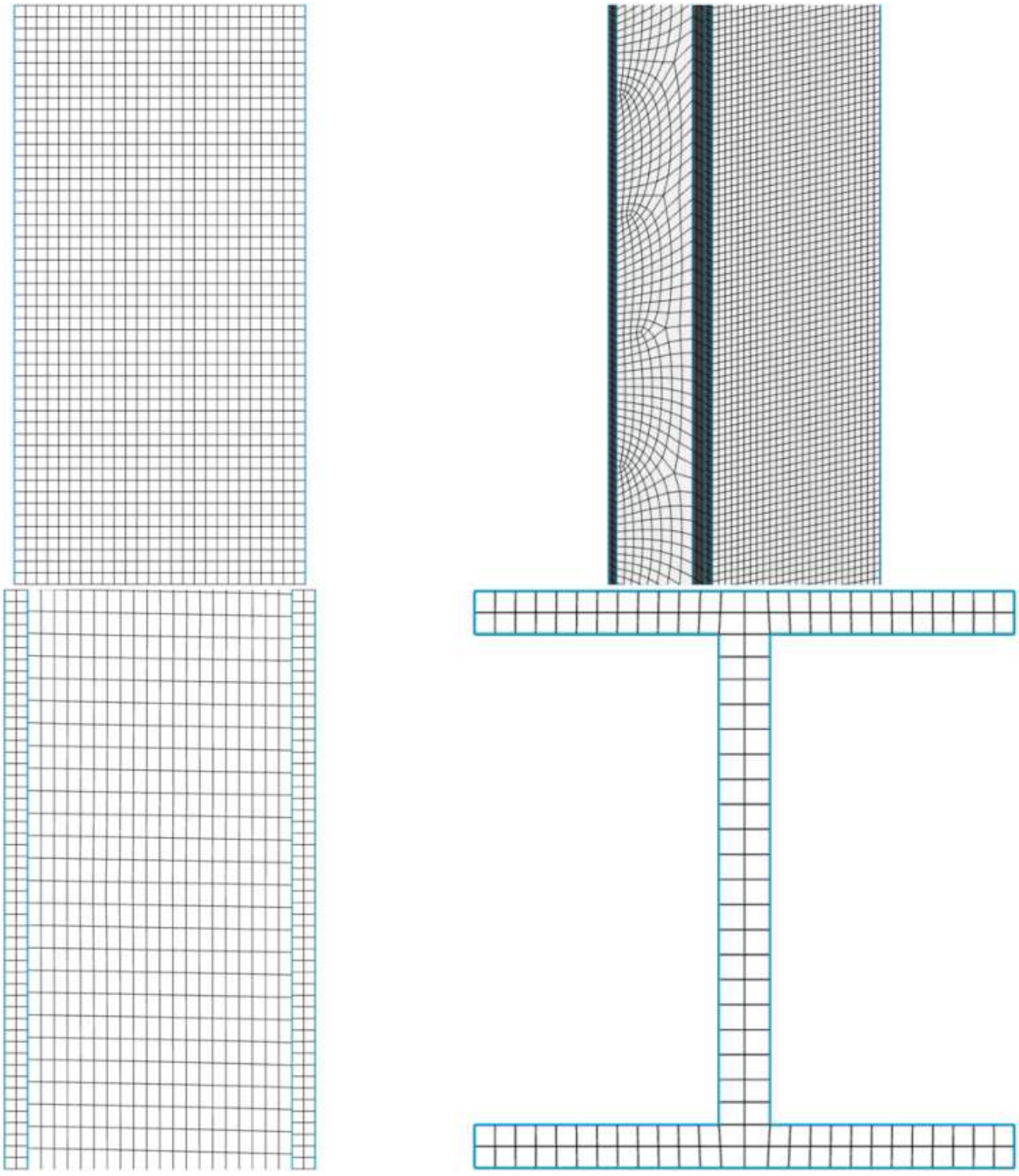


Model: 00001863 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 4.75812 sec to generate the unstructured mesh, 195.739 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	42628	46946	766	8
Quasi-structured	42724	47042	264	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.18425	2.93311	5.79809	0.580447	0.960875	0.998771
Quasi-structured	1.07649	2.94883	8.55264	0.607097	0.959196	0.998771

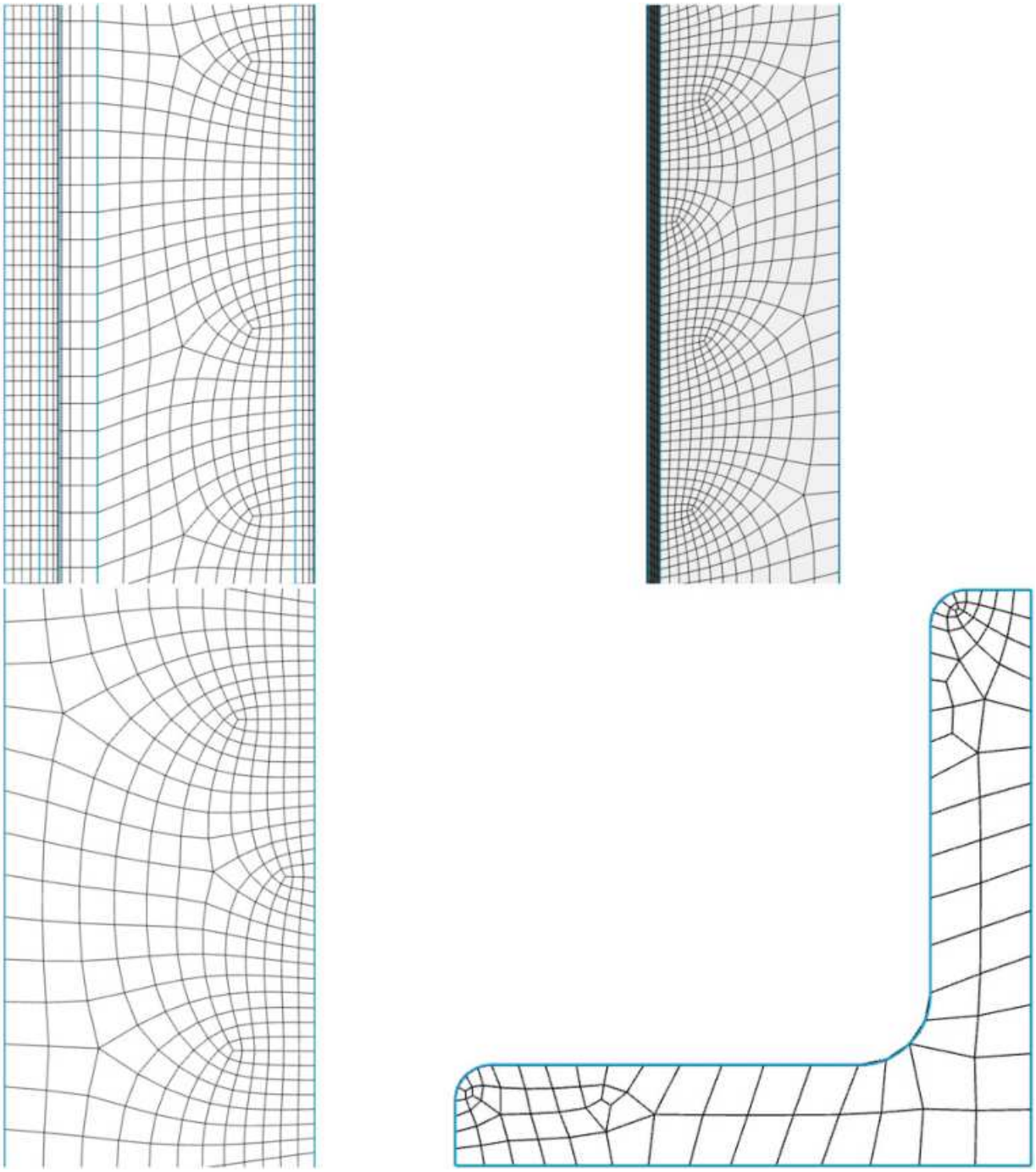


Model: 00001864 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 6 singularities detected
Timings: 3.86084 sec to generate the unstructured mesh, 153.005 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27206	31321	1113	75
Quasi-structured	27747	31862	424	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.69905	2.24588	6.77119	0.159963	0.900937	0.901578
Quasi-structured	0.25278	2.21705	10.9647	0.639264	0.927351	0.957716

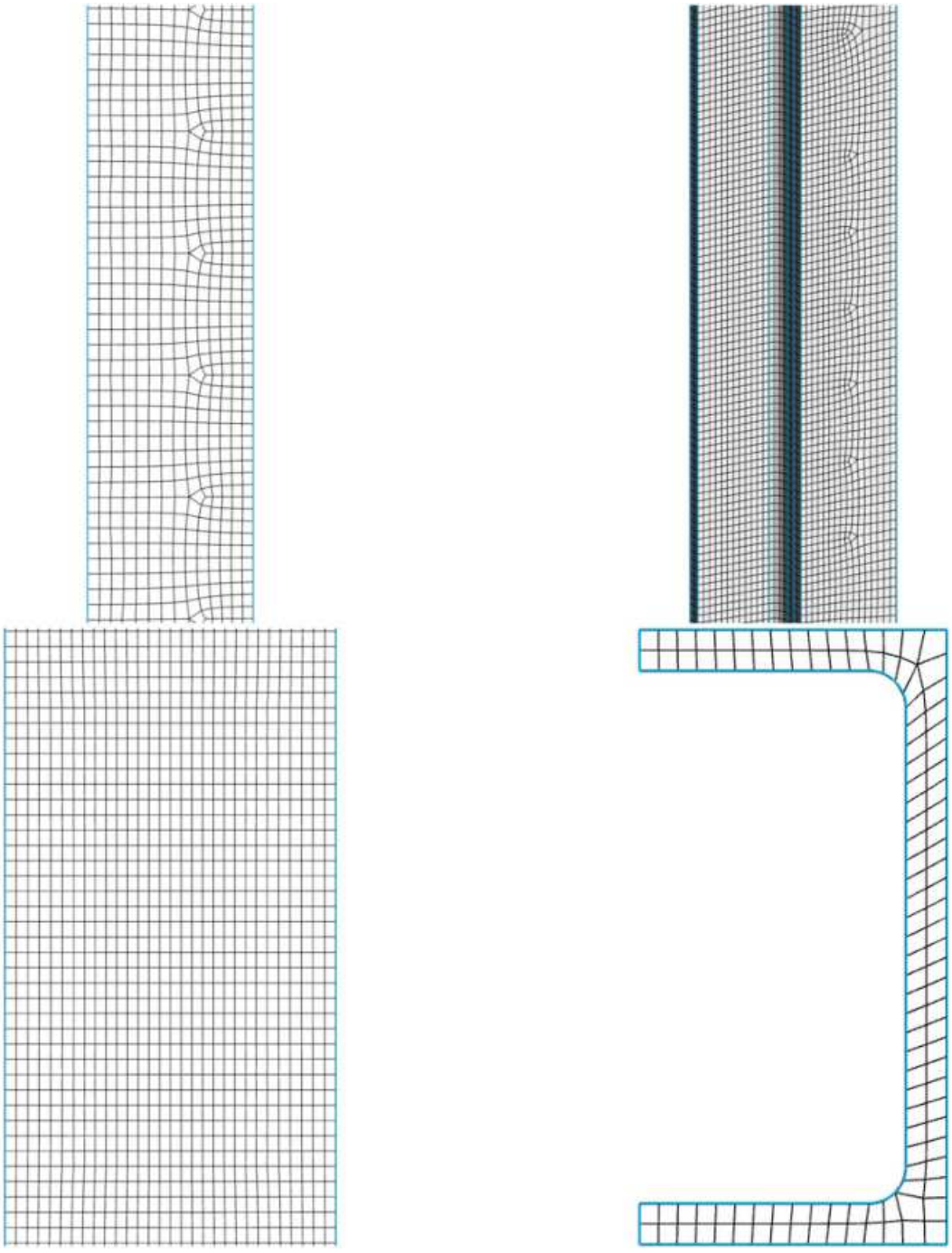


Model: 00001865 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 4 singularities detected
Timings: 6.0251 sec to generate the unstructured mesh, 3.69966 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14642	16202	80	0
Quasi-structured	15344	16904	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.50322	5.45411	9.39598	0.660652	0.969398	0.98515
Quasi-structured	2.67161	5.34562	9.73429	0.449496	0.966354	0.983491

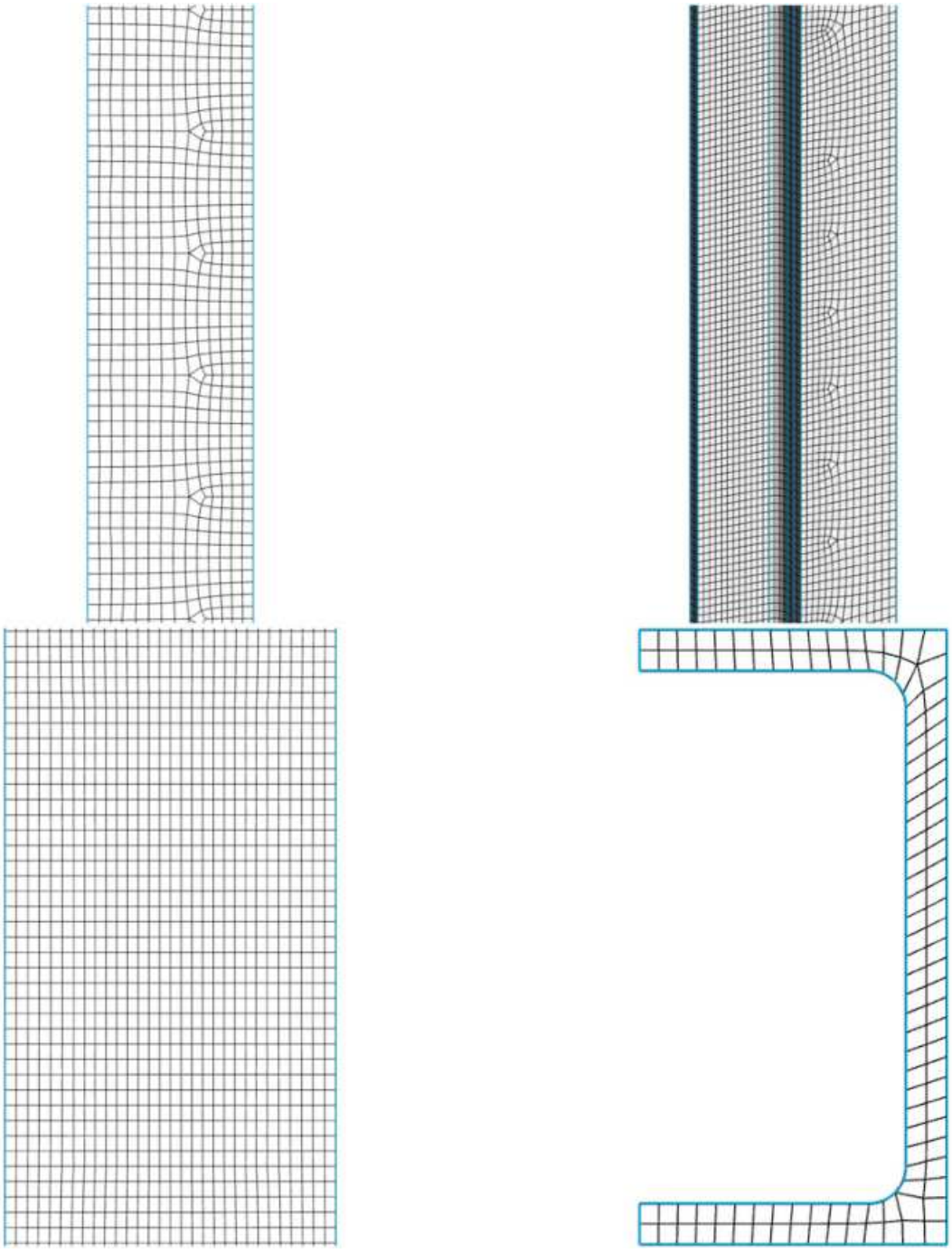


Model: 00001866 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 4 singularities detected
Timings: 4.32285 sec to generate the unstructured mesh, 2.25167 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14598	16158	80	0
Quasi-structured	15050	16610	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.50322	5.45985	9.39598	0.662799	0.969516	0.98515
Quasi-structured	2.67161	5.39261	9.73429	0.449496	0.968099	0.985122

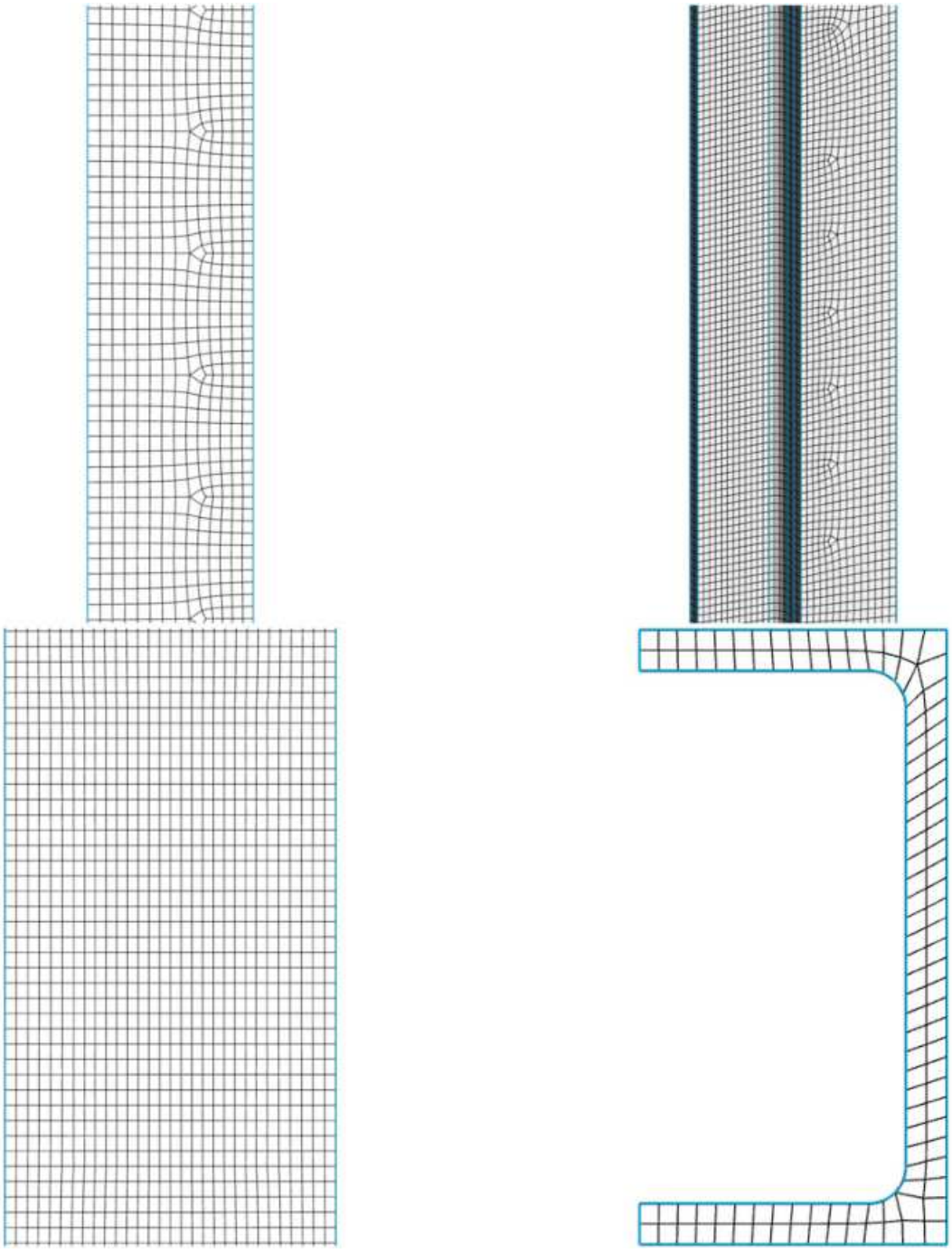


Model: 00001867 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 4 singularities detected
Timings: 4.21413 sec to generate the unstructured mesh, 2.20894 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14610	16170	80	0
Quasi-structured	15058	16618	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.54384	5.45793	9.55204	0.662799	0.96948	0.98515
Quasi-structured	2.67373	5.39078	9.70305	0.449496	0.968368	0.985133

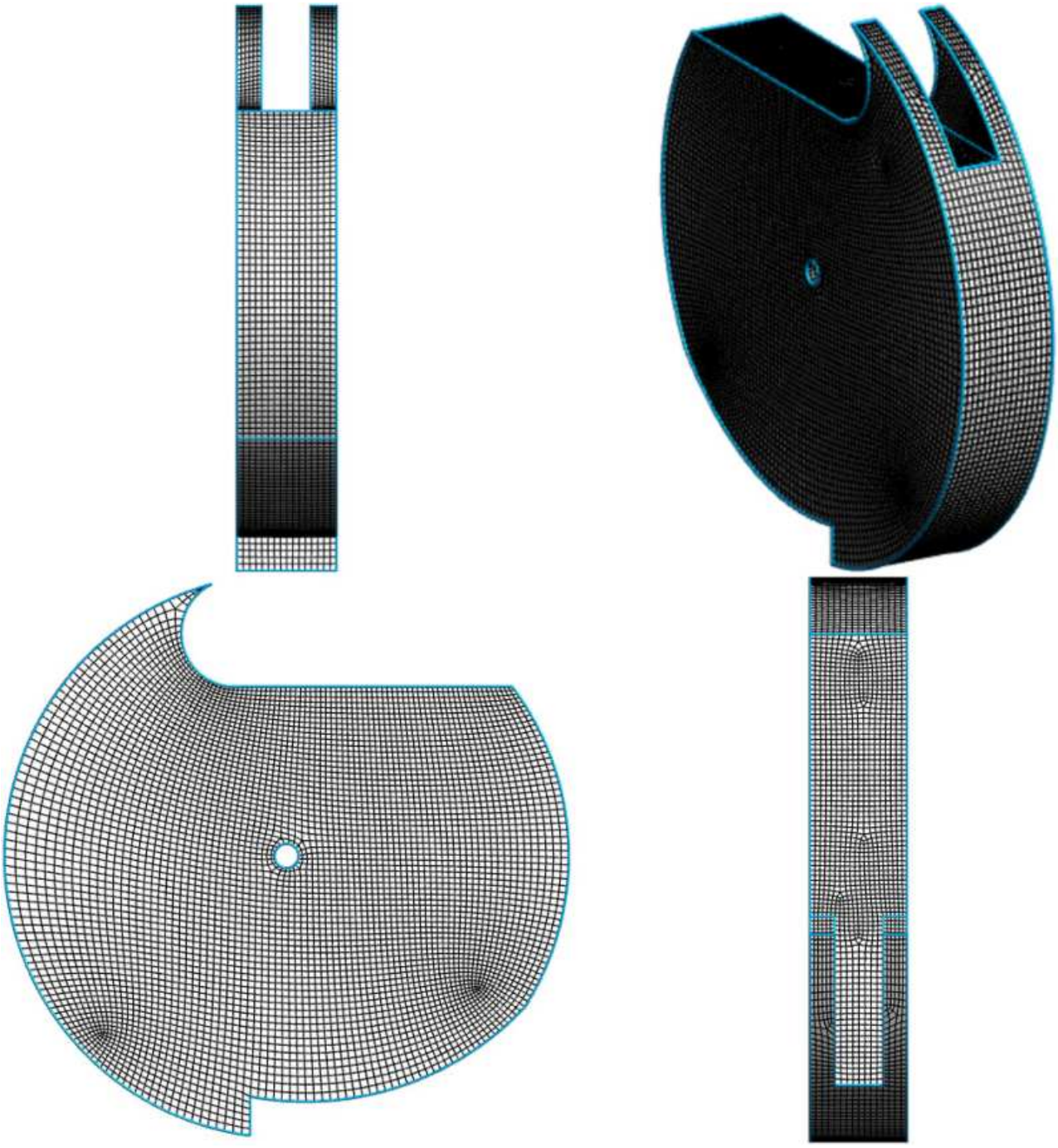


Model: 00001869 (from ABC dataset)
CAD: 21 corners, 31 curves, 12 faces
Cross field: 26 singularities detected
Timings: 17.2676 sec to generate the unstructured mesh, 3.42838 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16888	17779	238	26
Quasi-structured	17137	18028	52	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.110328	0.789392	1.75121	0.123091	0.977044	0.995734
Quasi-structured	0.0415484	0.784092	1.57917	0.138283	0.980343	0.992233

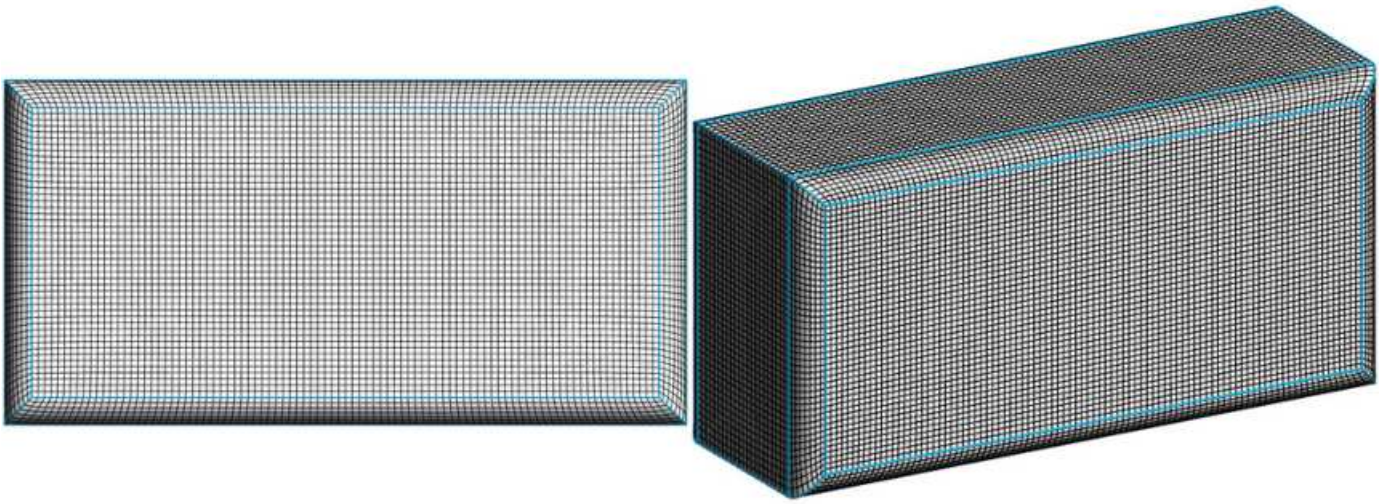


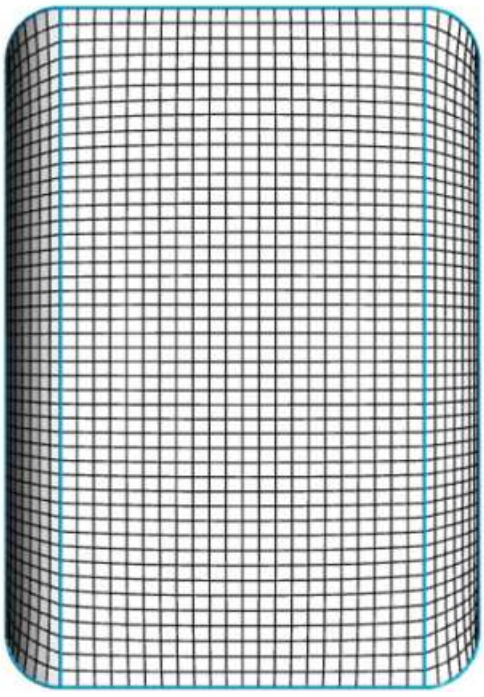
Model: 00001872 (from ABC dataset)
CAD: 16 corners, 28 curves, 14 faces
Cross field: 8 singularities detected
Timings: 11.7782 sec to generate the unstructured mesh, 0.933068 sec to make it quasi-structured
Mesh topology:

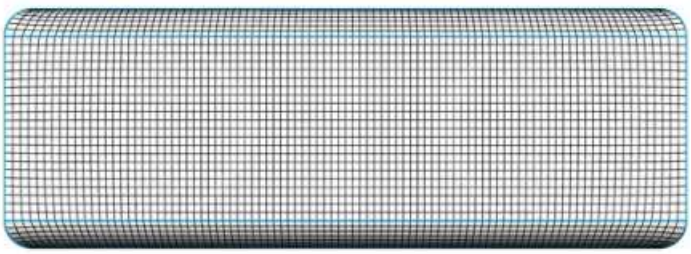
	# quads	# vertices	# irregular	# very irregular
Unstructured	18952	20222	0	0
Quasi-structured	18952	20222	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.714095	1.29213	1.73144	0.693281	0.974658	0.993022
Quasi-structured	0.976544	1.29128	1.91797	0.698334	0.981911	0.993852





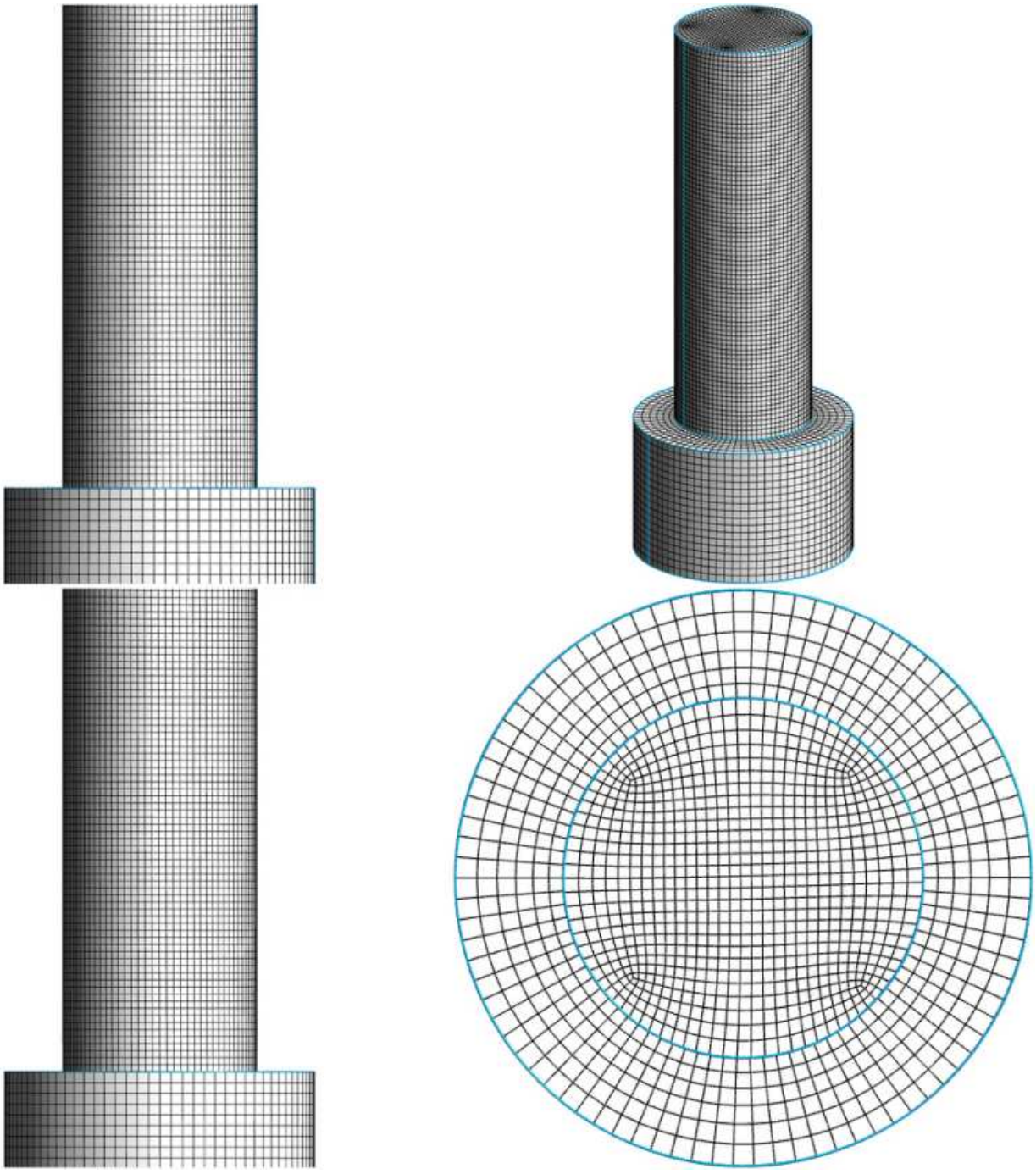


Model: 00001873 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 12 singularities detected
Timings: 6.06095 sec to generate the unstructured mesh, 0.732637 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12078	12678	98	98
Quasi-structured	12108	12708	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.120696	0.401699	0.781438	0.559094	0.984006	0.998206
Quasi-structured	0.14307	0.400284	0.861299	0.81028	0.996239	0.999885

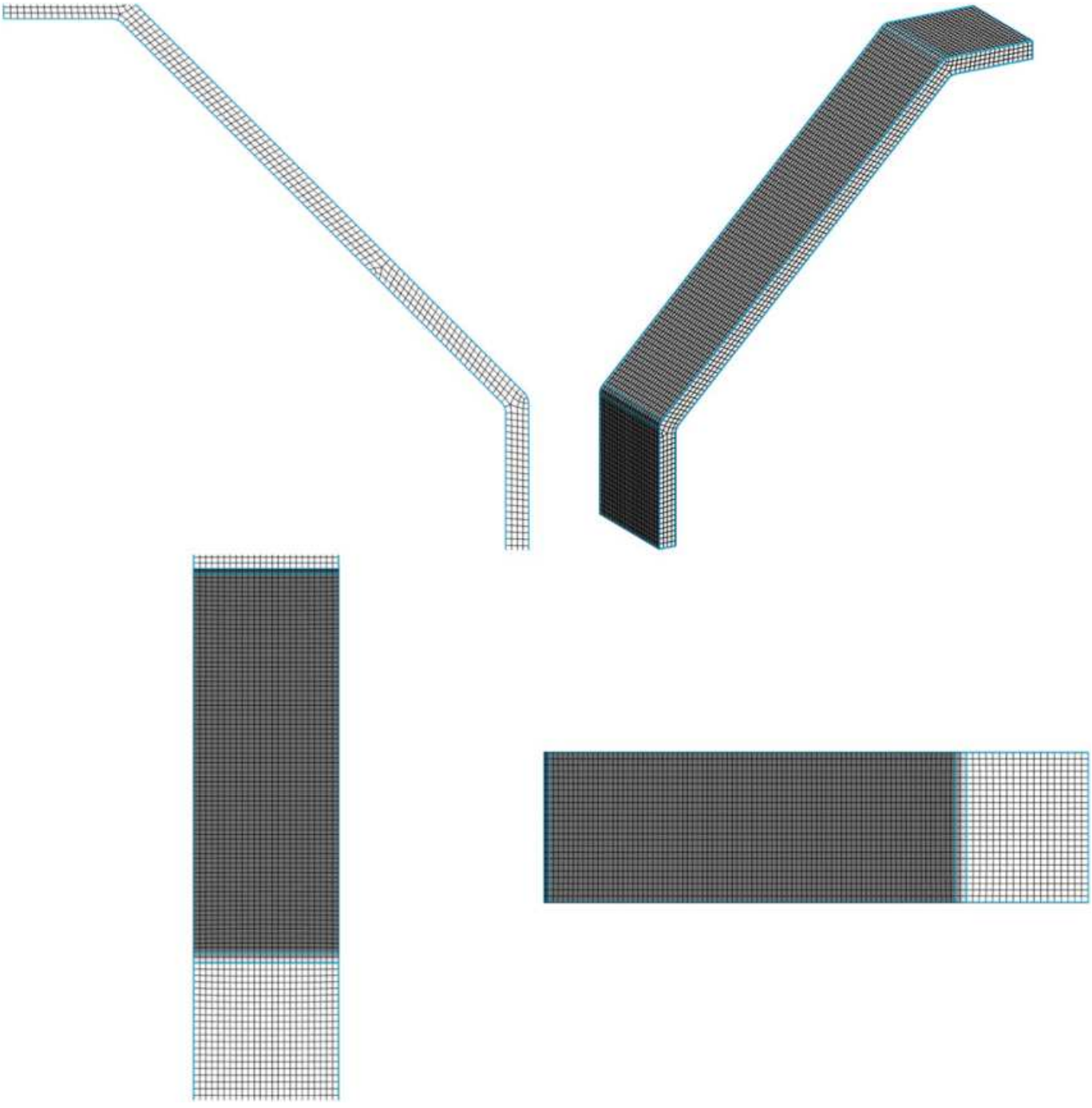


Model: 00001907 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 3.92998 sec to generate the unstructured mesh, 2.28508 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7186	8004	19	0
Quasi-structured	7190	8008	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.341158	0.831991	1.24382	0.615465	0.983495	0.993481
Quasi-structured	0.392534	0.830176	1.2111	0.731609	0.989787	0.993495

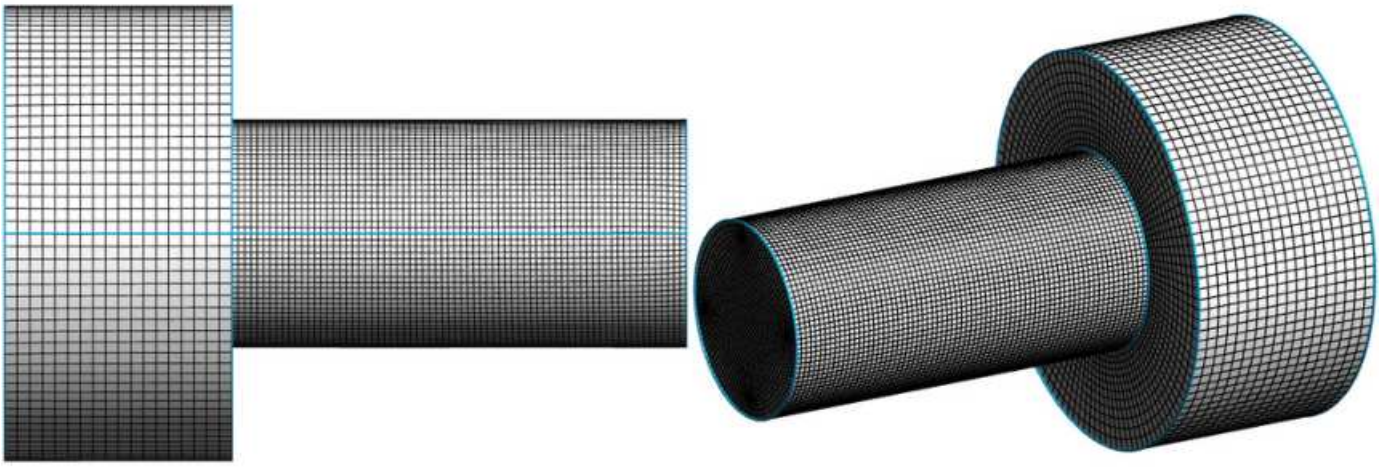


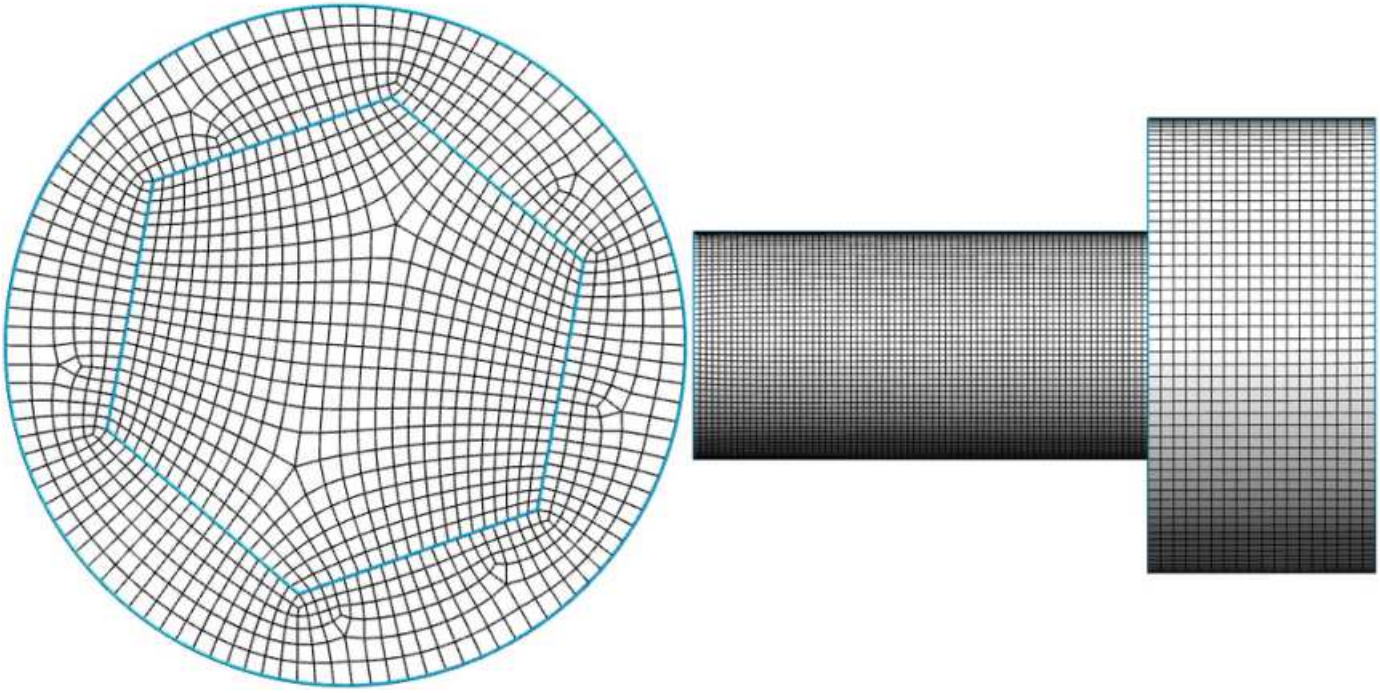
Model: 00001911 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 12 singularities detected
Timings: 8.38634 sec to generate the unstructured mesh, 0.987975 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17272	18112	79	90
Quasi-structured	17154	17994	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0177217	0.070036	0.173745	0.517525	0.988674	0.997415
Quasi-structured	0.0191828	0.0702061	0.203718	0.808647	0.995958	0.999701



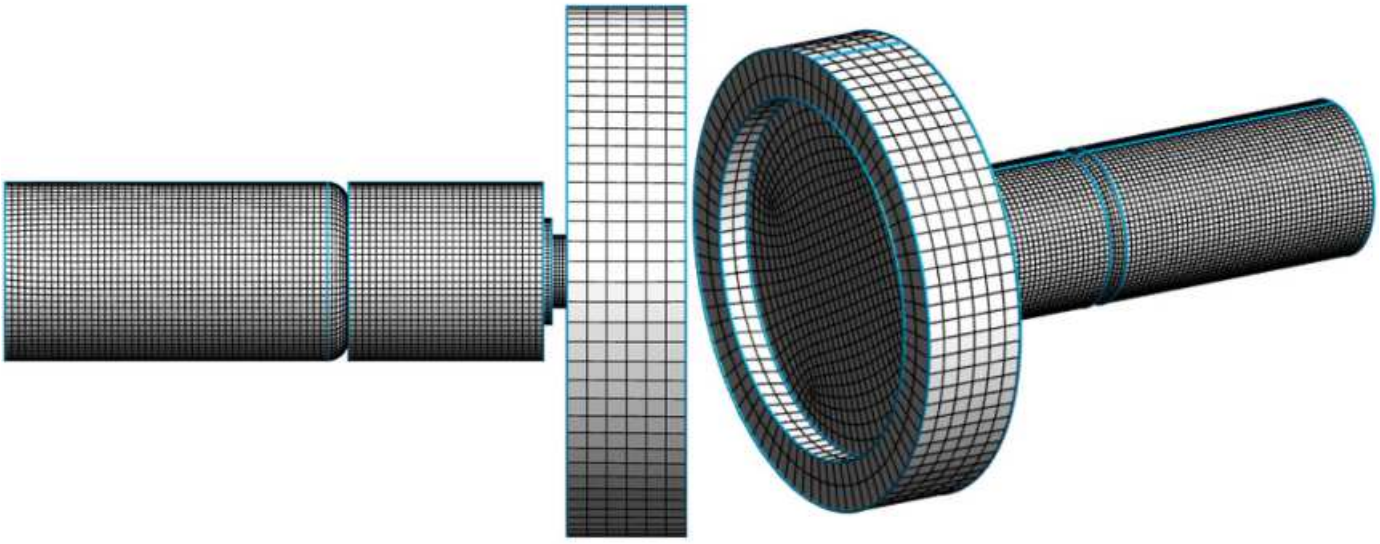


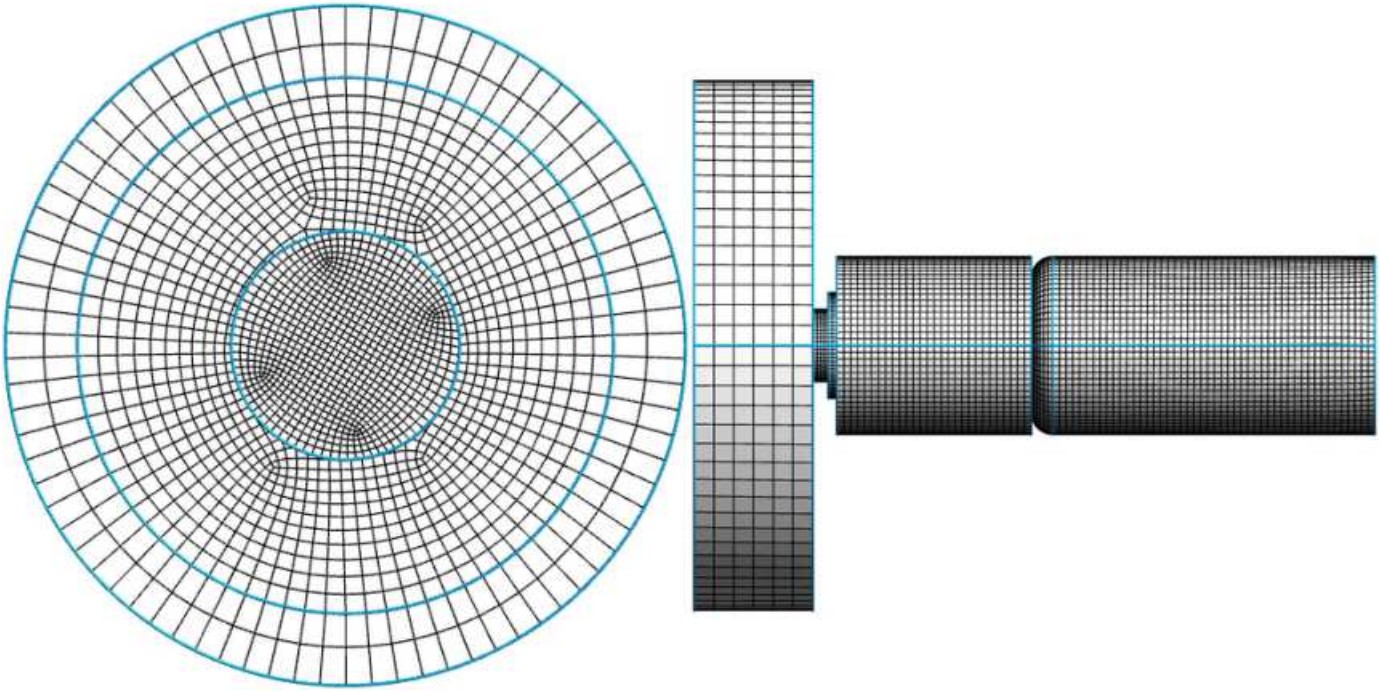
Model: 00001925 (from ABC dataset)
CAD: 15 corners, 23 curves, 16 faces
Cross field: 8 singularities detected
Timings: 10.7149 sec to generate the unstructured mesh, 5.92966 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13252	14432	155	109
Quasi-structured	13207	14387	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.235333	1.90365	6.81414	0.287666	0.961738	0.993418
Quasi-structured	0.352578	1.89908	7.04028	0.419613	0.985014	0.999024



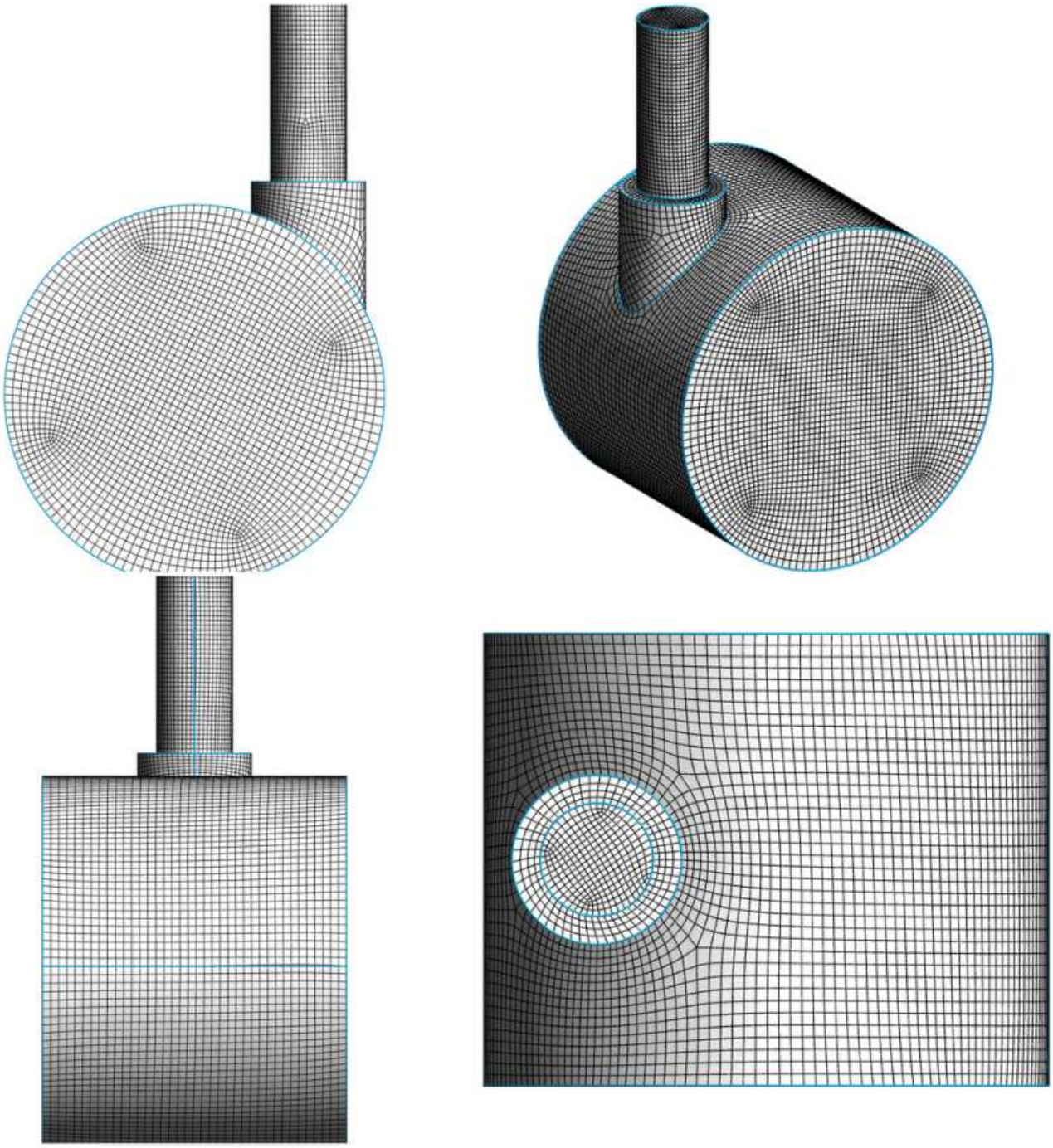


Model: 00001926 (from ABC dataset)
CAD: 6 corners, 9 curves, 7 faces
Cross field: 18 singularities detected
Timings: 15.2002 sec to generate the unstructured mesh, 2.38891 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13714	14240	150	89
Quasi-structured	13948	14474	22	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.237383	0.894411	2.2704	0.318969	0.979277	0.993593
Quasi-structured	0.249834	0.885154	2.09234	0.710398	0.991424	0.997637

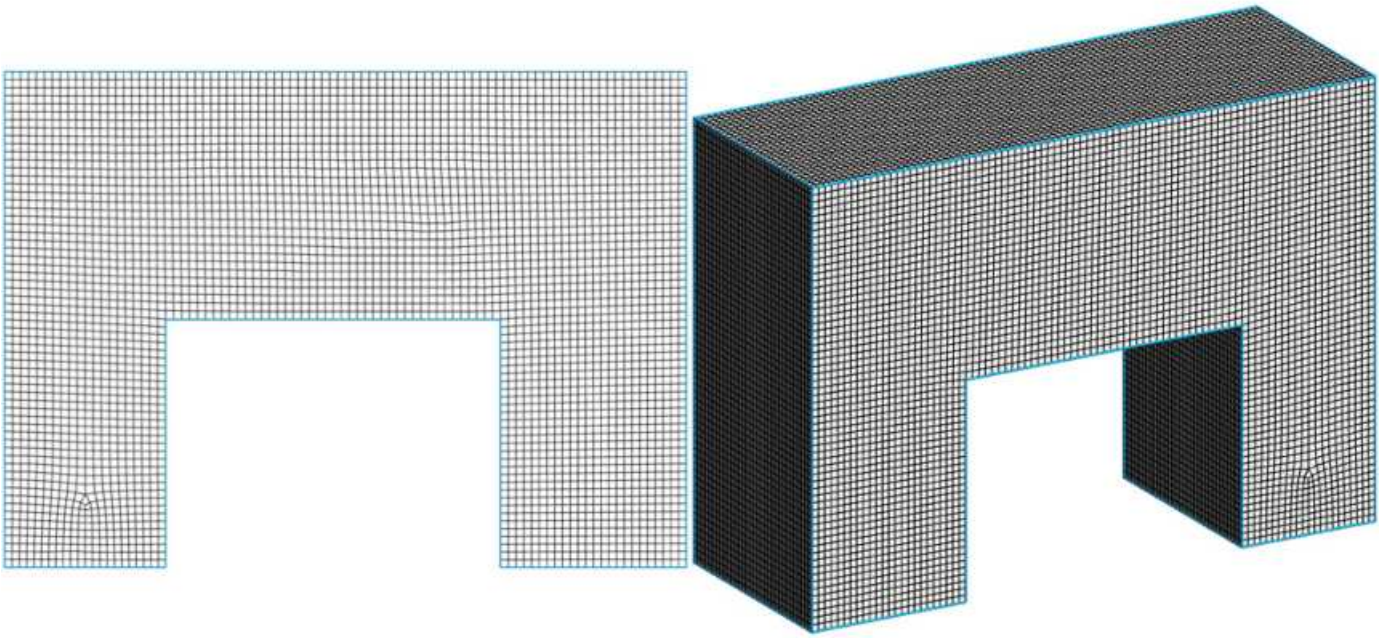


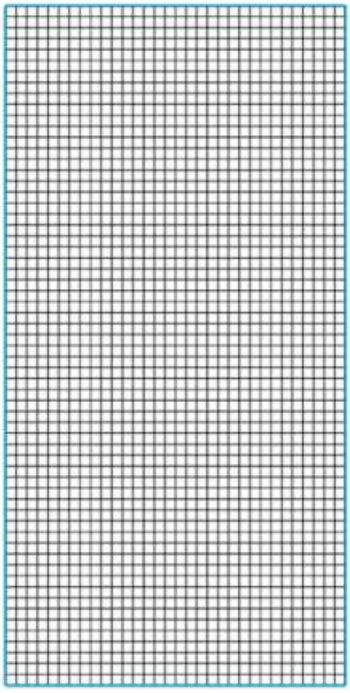
Model: 00001970 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 13.0066 sec to generate the unstructured mesh, 1.59615 sec to make it quasi-structured
Mesh topology:

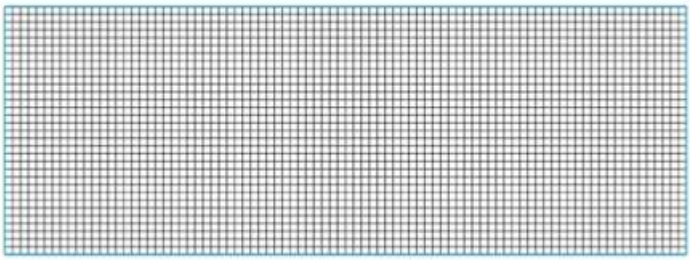
	# quads	# vertices	# irregular	# very irregular
Unstructured	19540	20530	20	0
Quasi-structured	19598	20588	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.336401	0.808918	1.3771	0.664608	0.996852	0.999736
Quasi-structured	0.49352	0.807342	1.04085	0.842523	0.99929	0.999496





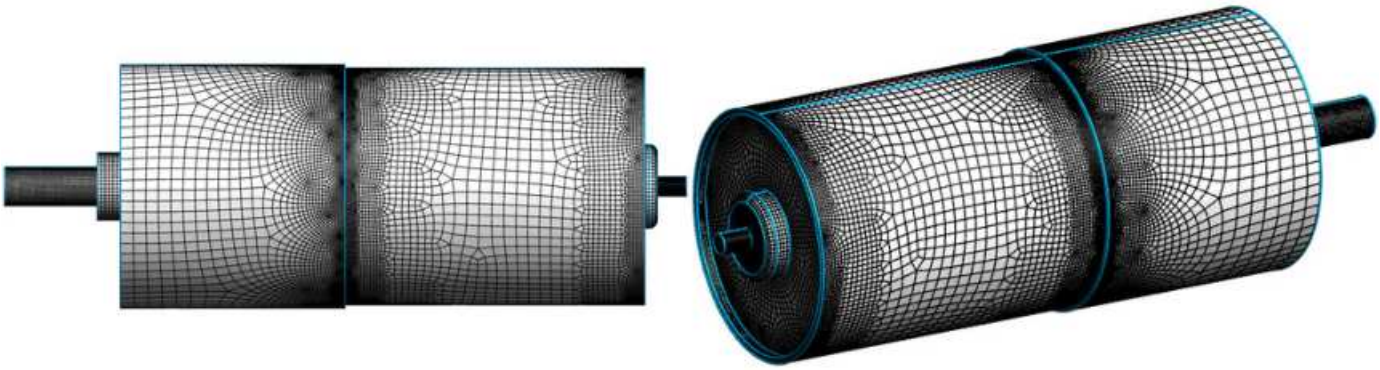


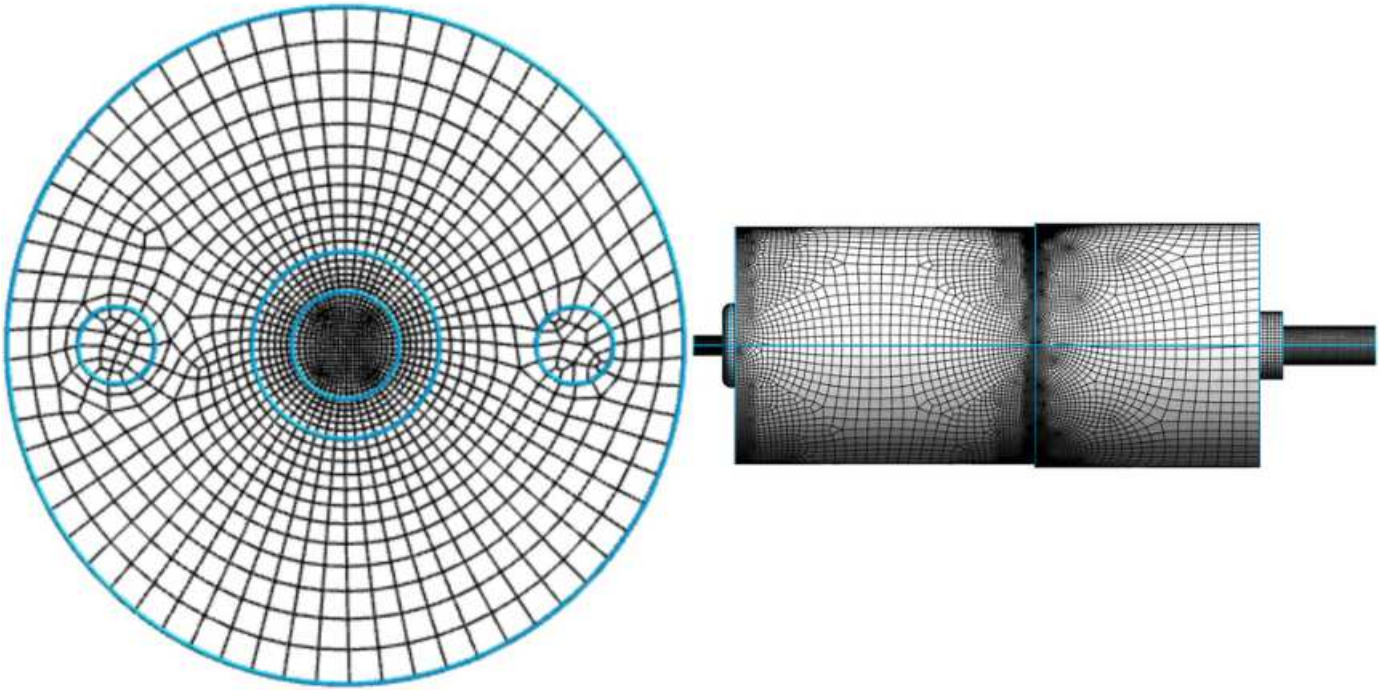
Model: 00001983 (from ABC dataset)
CAD: 19 corners, 29 curves, 20 faces
Cross field: 24 singularities detected
Timings: 10.641 sec to generate the unstructured mesh, 206.526 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30610	33046	1209	289
Quasi-structured	30647	33083	690	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0377807	0.348736	1.74302	0.189469	0.946552	0.987307
Quasi-structured	0.0426474	0.344679	2.0895	0.398393	0.976474	0.993071





Model: 00001987 (from ABC dataset)
CAD: 196 corners, 294 curves, 100 faces
Cross field: 96 singularities detected
Timings: 16.16 sec to generate the unstructured mesh, 4.58598 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18972	22564	672	39
Quasi-structured	19174	22766	180	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0979437	0.591666	2.07276	0.203031	0.951573	0.978573
Quasi-structured	0.158235	0.583221	2.94616	0.300096	0.958242	0.978244

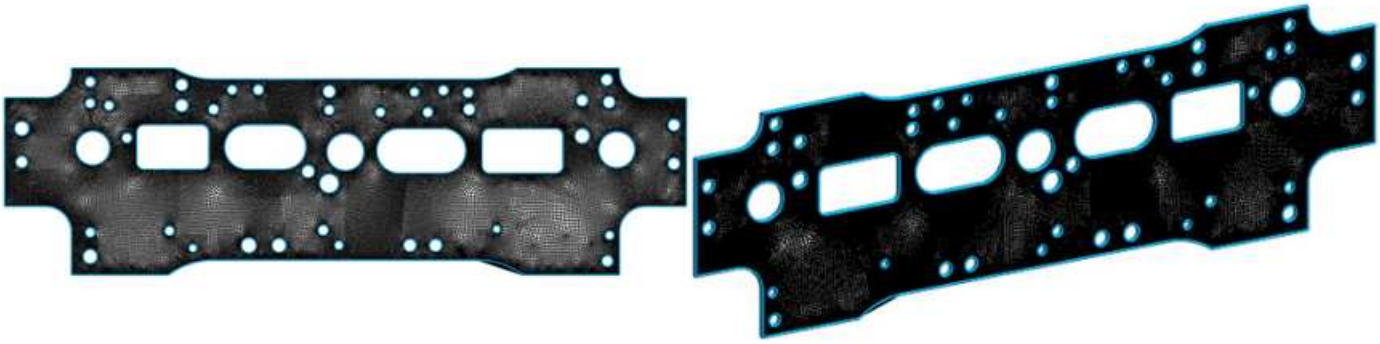


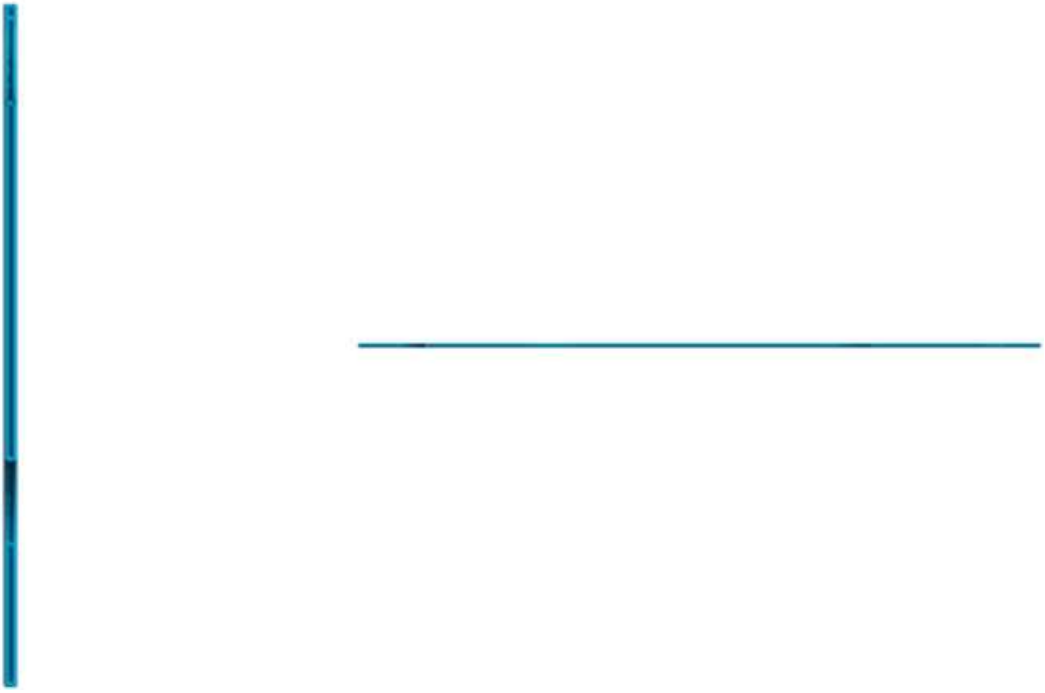
Model: 00001990 (from ABC dataset)
CAD: 224 corners, 315 curves, 93 faces
Cross field: 384 singularities detected
Timings: 42.3727 sec to generate the unstructured mesh, 149.098 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	83538	91720	4217	246
Quasi-structured	90602	98784	766	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.250092	2.06842	31.6317	0.0146419	0.939732	0.972856
Quasi-structured	0.250092	2.02571	31.6317	0.0146419	0.933985	0.958378



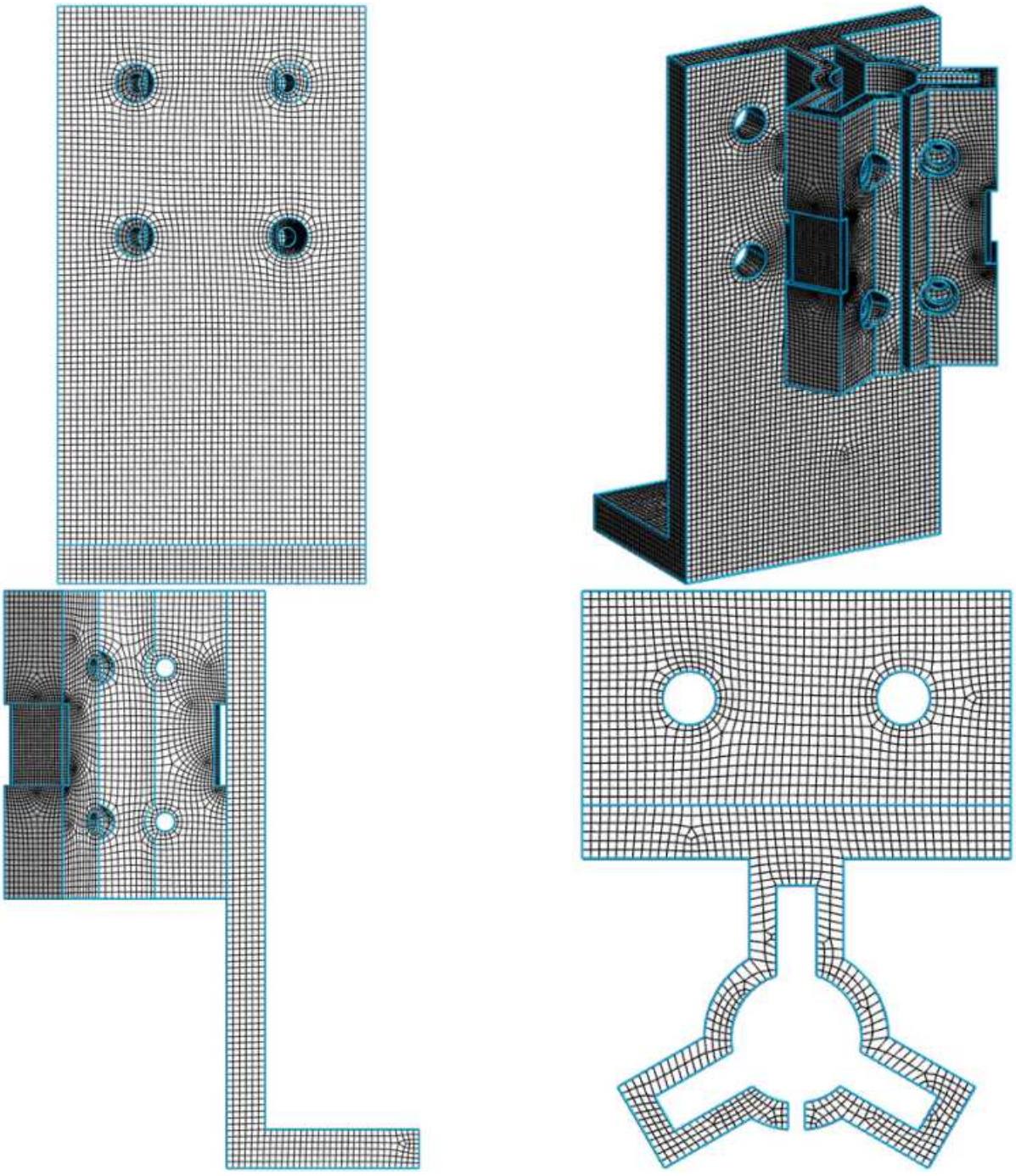


Model: 00001998 (from ABC dataset)
CAD: 184 corners, 272 curves, 89 faces
Cross field: 170 singularities detected
Timings: 20.4908 sec to generate the unstructured mesh, 12.0054 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	38782	43682	1436	187
Quasi-structured	39032	43932	556	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0143481	0.819815	1.80526	0.0668333	0.949395	0.985905
Quasi-structured	0.0195774	0.816748	2.32095	0.358775	0.968781	0.991763

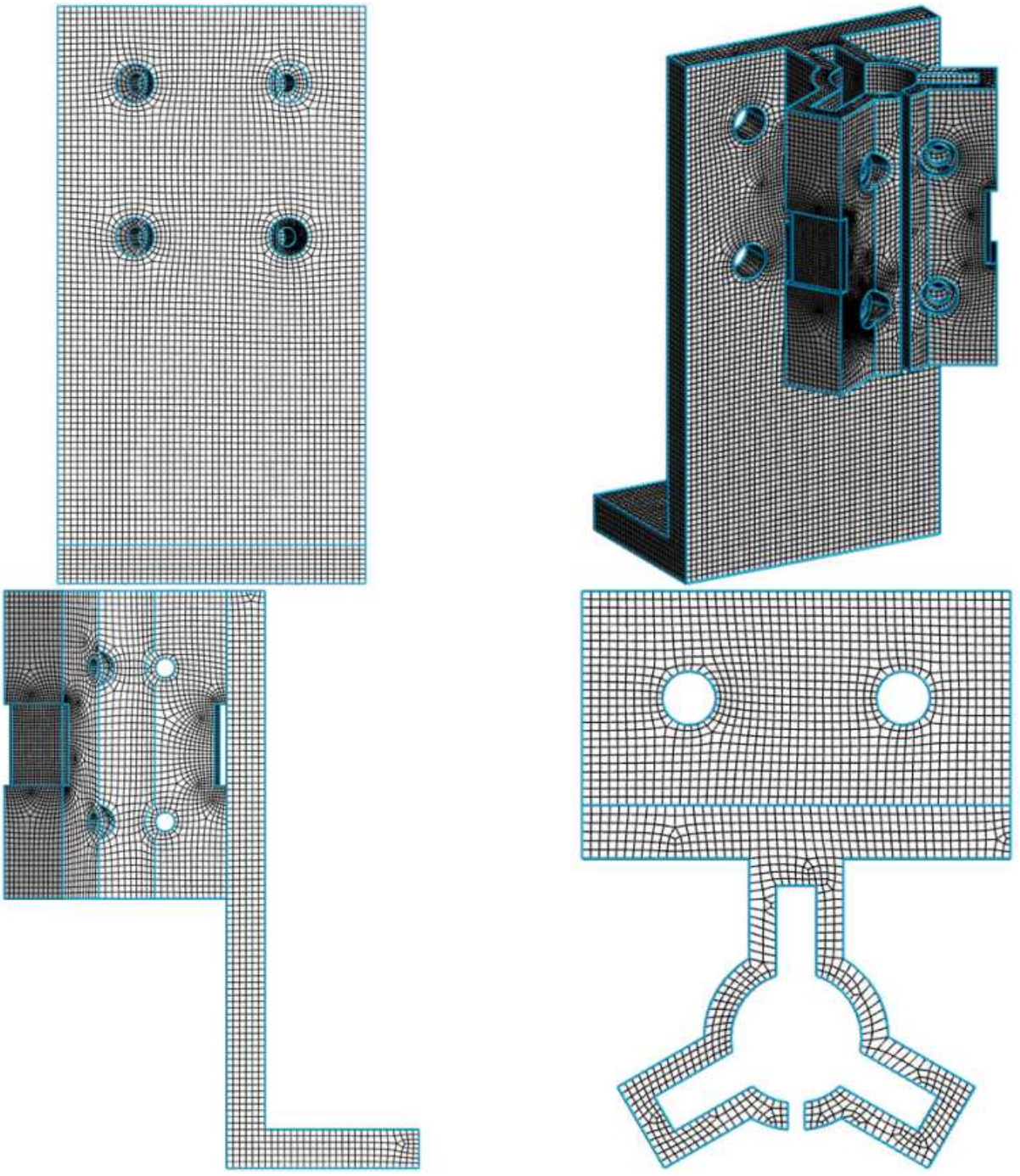


Model: 00001999 (from ABC dataset)
CAD: 184 corners, 272 curves, 89 faces
Cross field: 170 singularities detected
Timings: 20.5719 sec to generate the unstructured mesh, 17.1354 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	38754	43682	1513	193
Quasi-structured	39248	44176	564	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0143003	0.819351	2.11465	0.0979927	0.947606	0.98788
Quasi-structured	0.0195987	0.812507	2.06287	0.240864	0.967511	0.992161

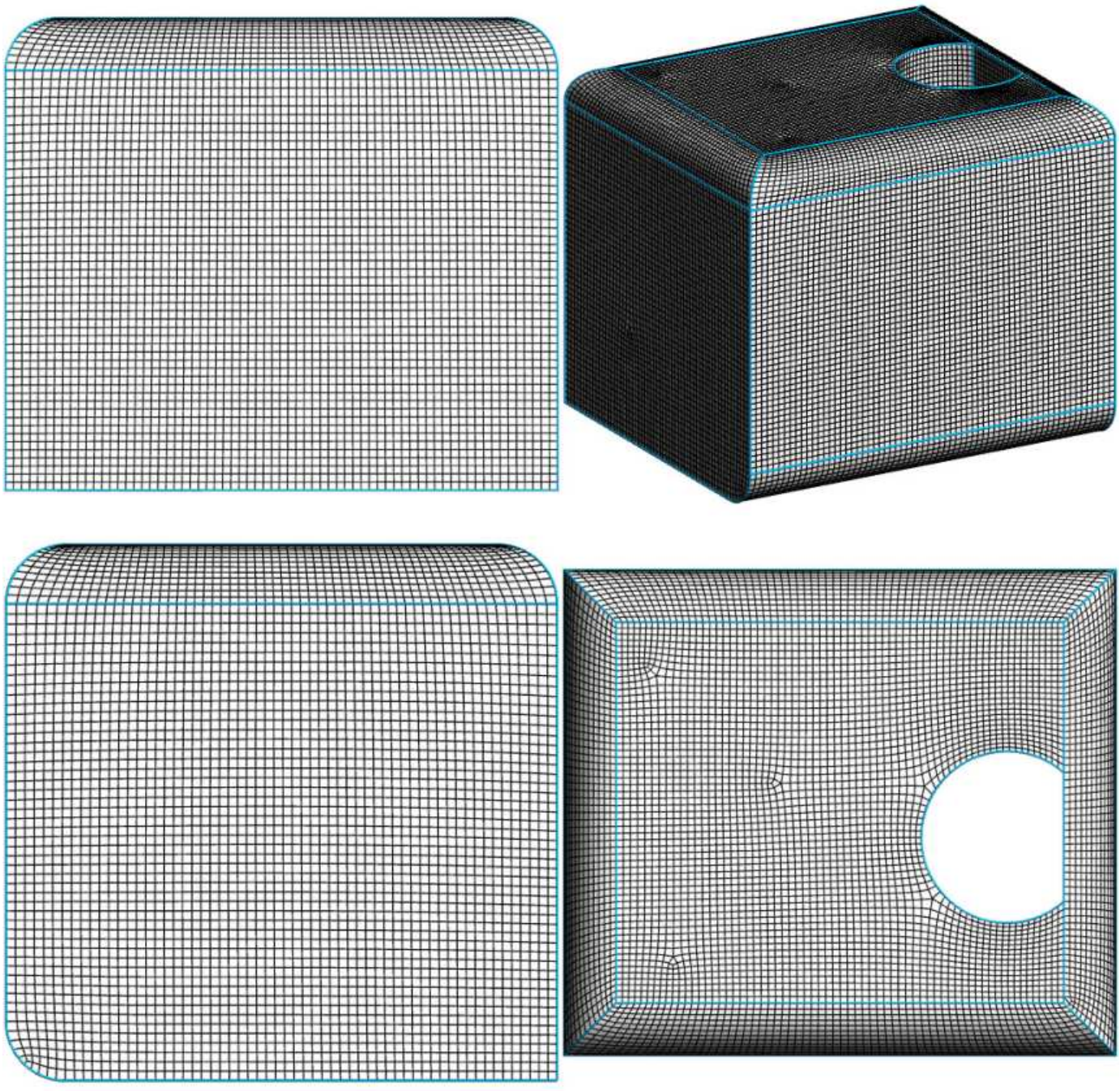


Model: 00002007 (from ABC dataset)
CAD: 18 corners, 30 curves, 13 faces
Cross field: 10 singularities detected
Timings: 13.2025 sec to generate the unstructured mesh, 1.89625 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27864	29220	126	2
Quasi-structured	28205	29561	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.25379	0.75016	1.20366	0.574271	0.983534	0.998231
Quasi-structured	0.30725	0.744687	1.64192	0.603733	0.990235	0.998585

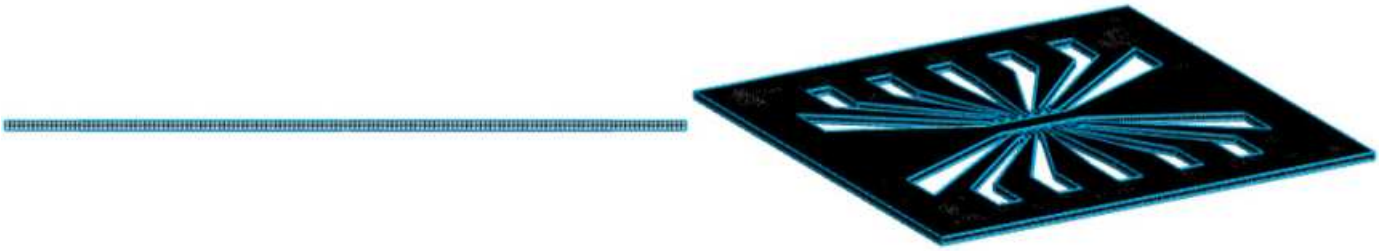


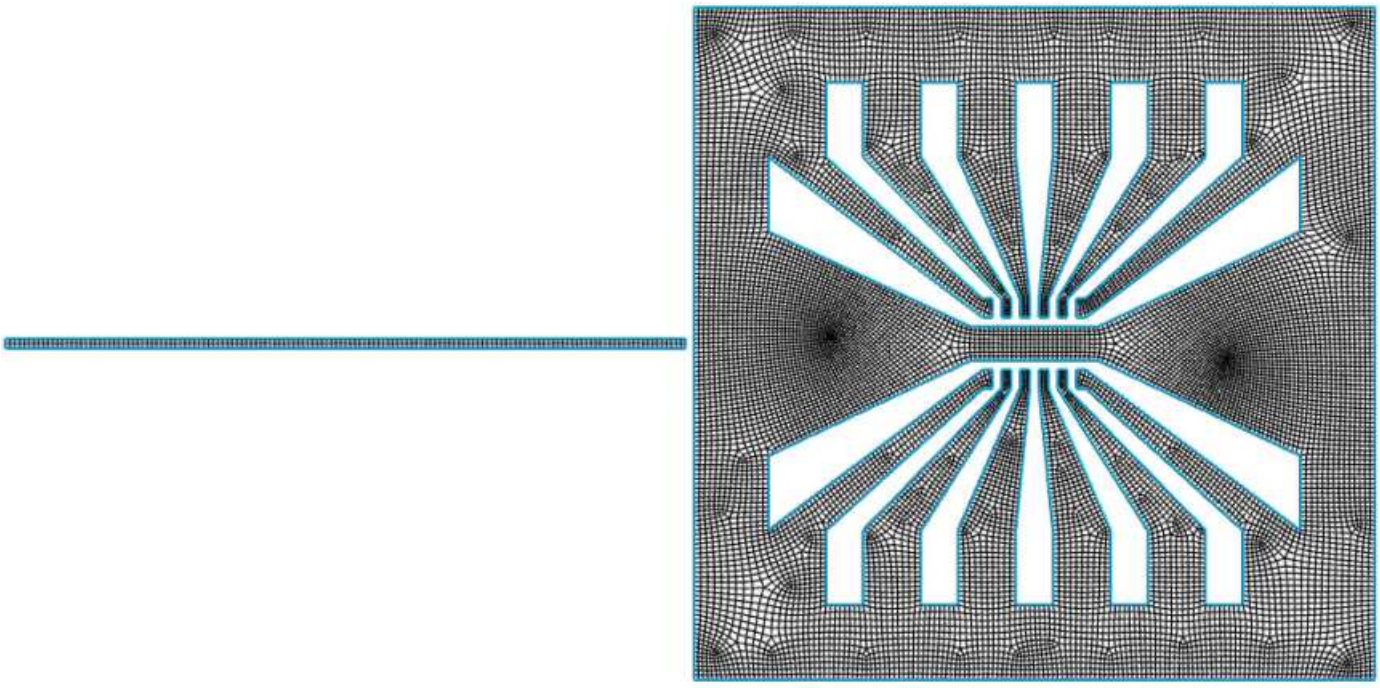
Model: 00002021 (from ABC dataset)
CAD: 208 corners, 312 curves, 106 faces
Cross field: 8 singularities detected
Timings: 12.9947 sec to generate the unstructured mesh, 22.0509 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31266	36660	916	51
Quasi-structured	34955	40349	360	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0322774	0.135138	0.376454	0.410266	0.951278	0.986657
Quasi-structured	0.0301819	0.127115	0.38703	0.573545	0.974865	0.985115



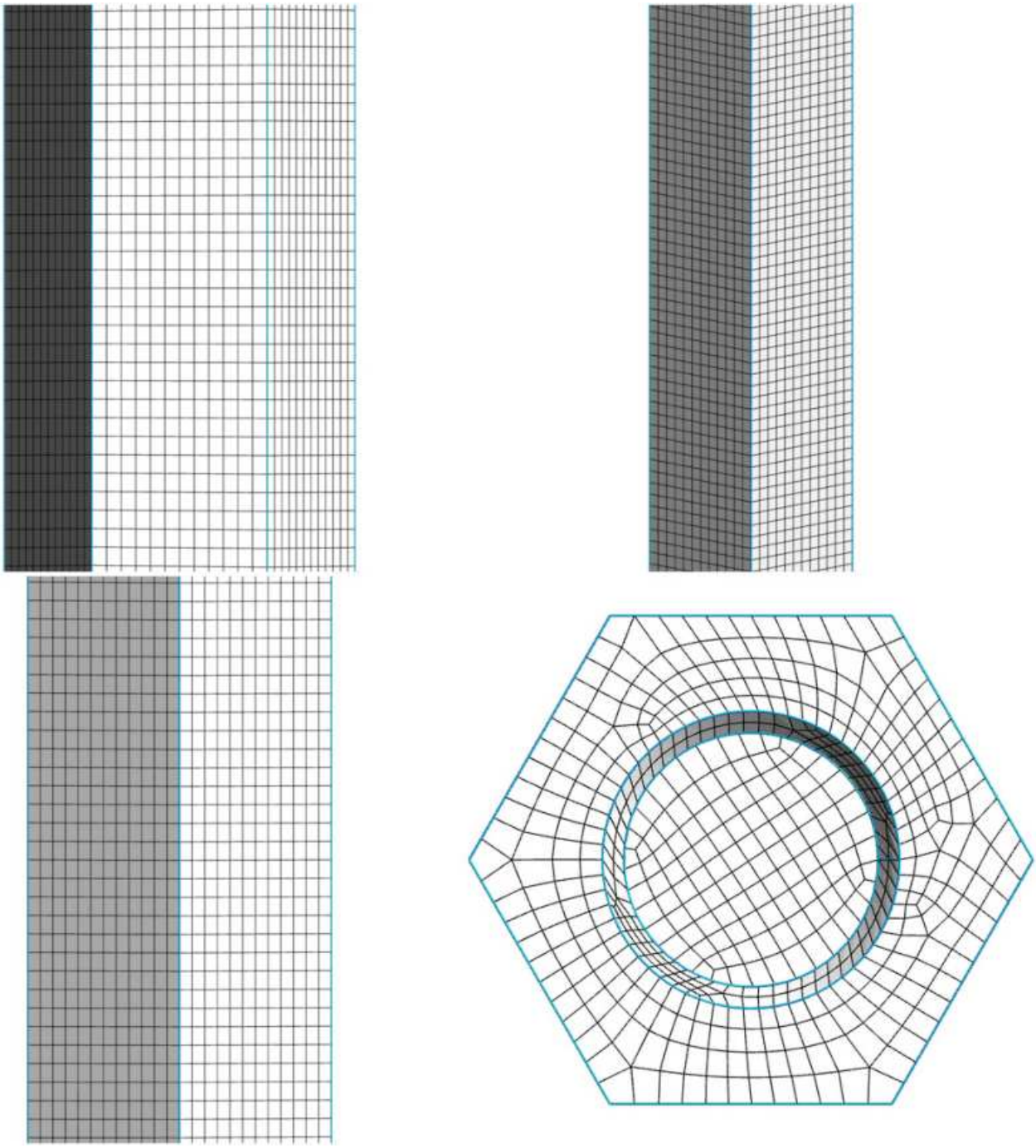


Model: 00002029 (from ABC dataset)
CAD: 18 corners, 28 curves, 14 faces
Cross field: 20 singularities detected
Timings: 6.0826 sec to generate the unstructured mesh, 2.54365 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11538	12596	157	76
Quasi-structured	11541	12599	62	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0586874	0.283101	0.40633	0.159301	0.967404	0.973407
Quasi-structured	0.0568342	0.282568	0.547111	0.361603	0.970386	0.97295

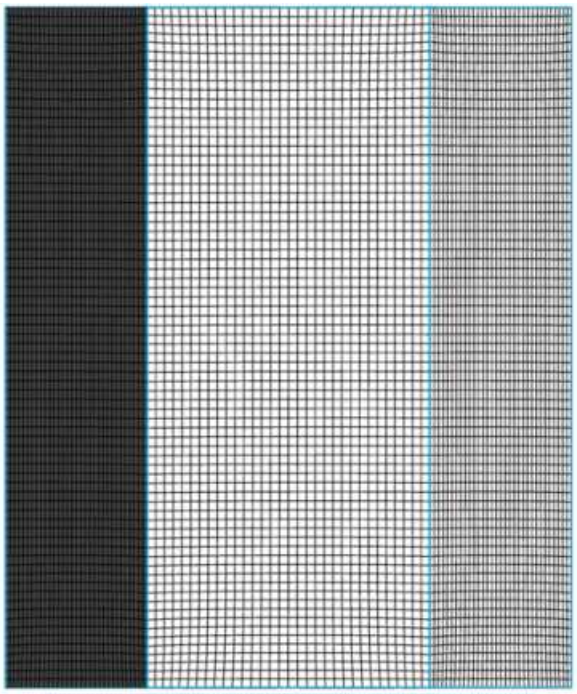


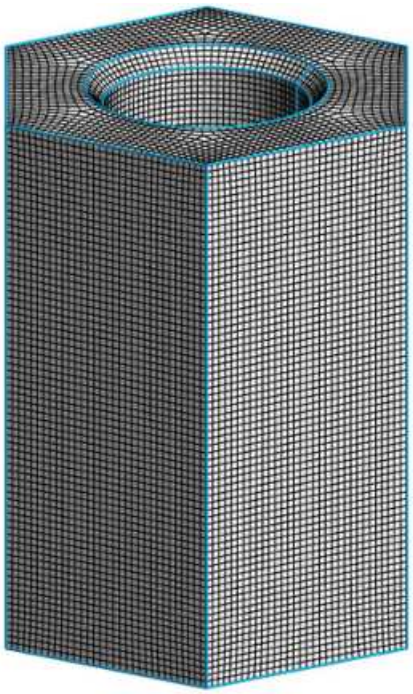
Model: 00002030 (from ABC dataset)
CAD: 15 corners, 23 curves, 10 faces
Cross field: 12 singularities detected
Timings: 16.9824 sec to generate the unstructured mesh, 2.54944 sec to make it quasi-structured
Mesh topology:

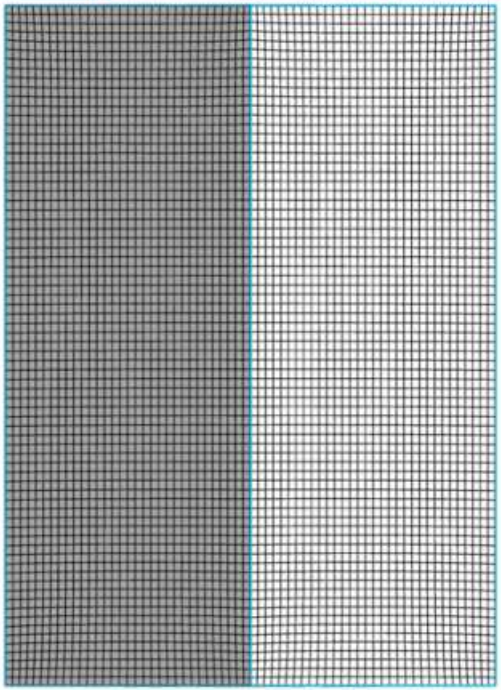
	# quads	# vertices	# irregular	# very irregular
Unstructured	24702	25824	134	80
Quasi-structured	24566	25688	24	0

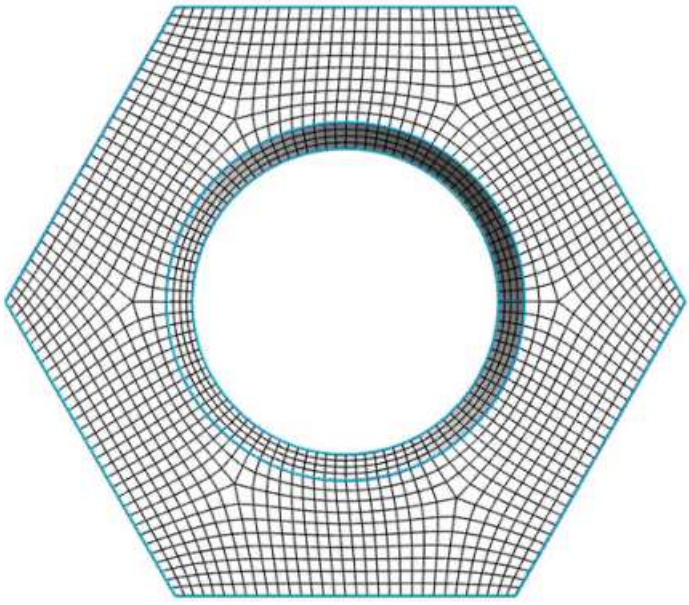
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0420791	0.105902	0.180521	0.549117	0.99219	0.99899
Quasi-structured	0.060477	0.106088	0.226033	0.825189	0.996654	0.998882







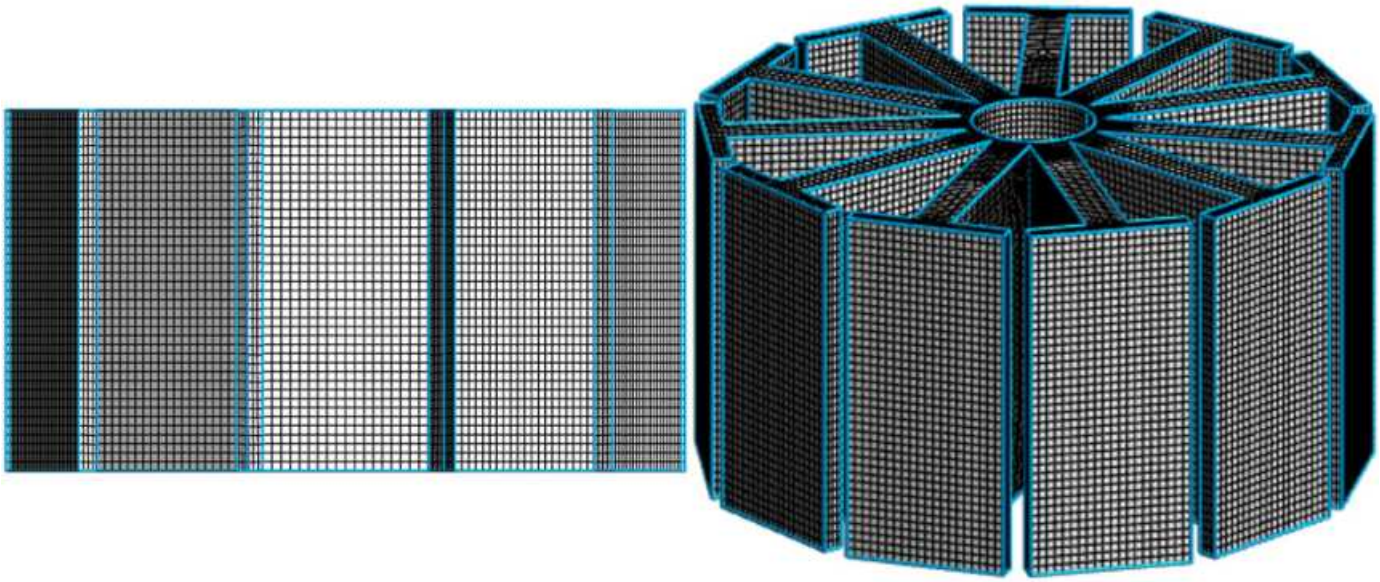


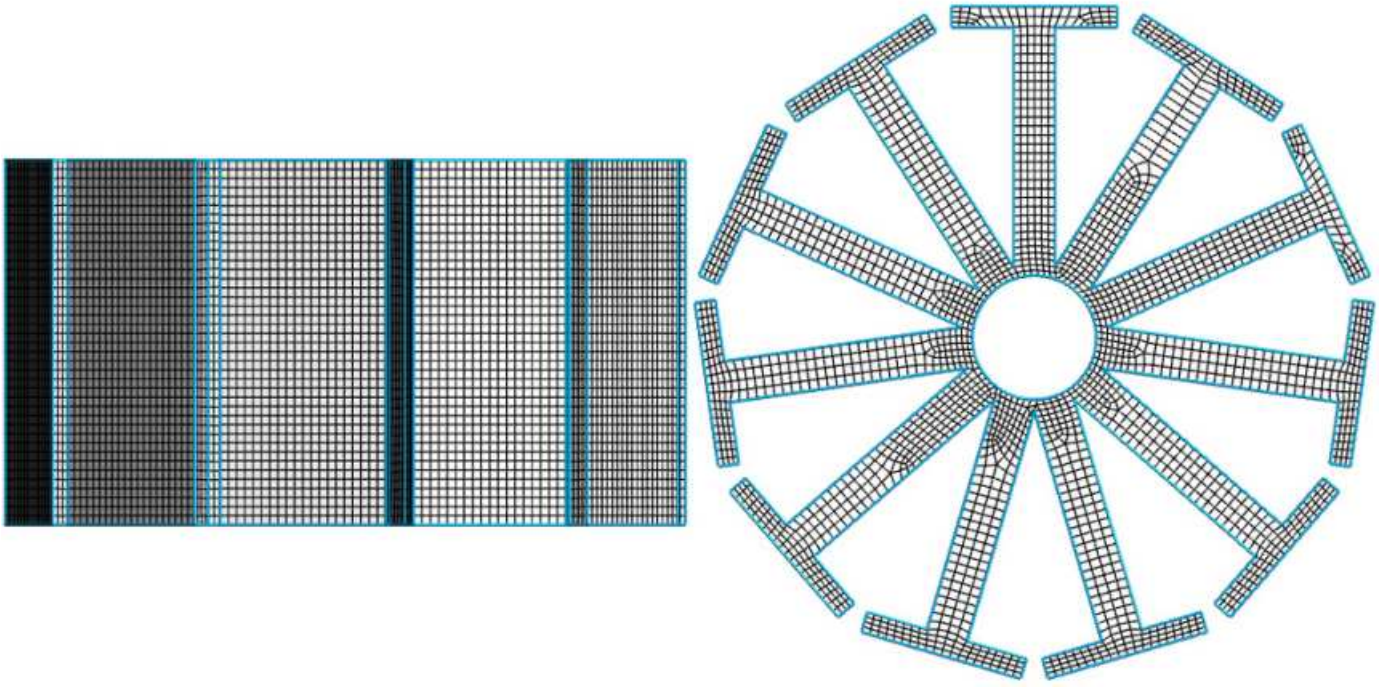
Model: 00002039 (from ABC dataset)
CAD: 157 corners, 235 curves, 80 faces
Cross field: 0 singularities detected
Timings: 27.438 sec to generate the unstructured mesh, 4.61544 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	50760	56229	228	60
Quasi-structured	51688	57157	66	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0494625	0.205133	0.28599	0.349047	0.976326	0.996418
Quasi-structured	0.0281166	0.20318	0.507631	0.315565	0.979909	0.994467



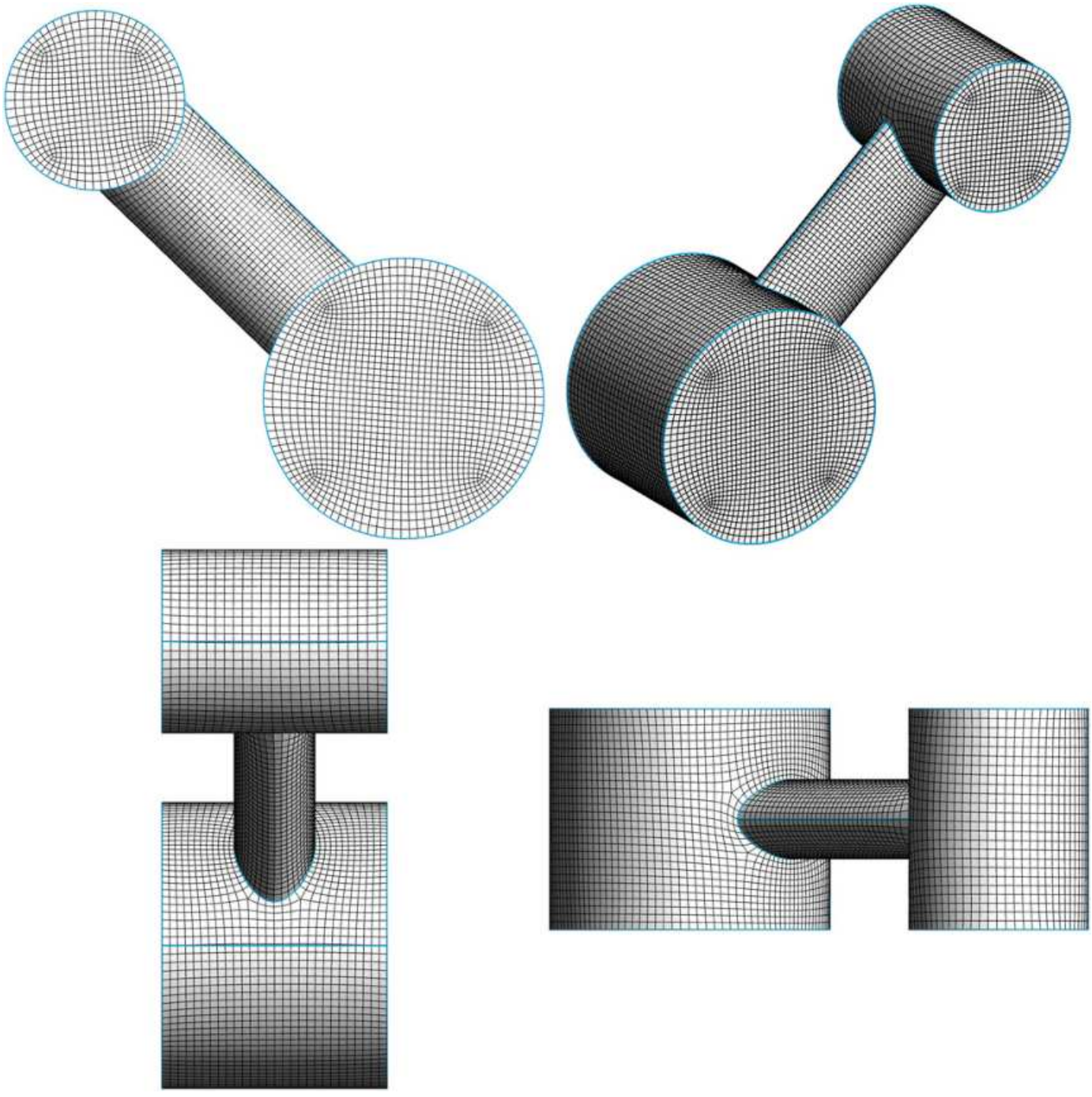


Model: 00002055 (from ABC dataset)
CAD: 6 corners, 9 curves, 7 faces
Cross field: 24 singularities detected
Timings: 11.3018 sec to generate the unstructured mesh, 1.32102 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10926	11402	142	95
Quasi-structured	10726	11202	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.202785	0.795115	1.74015	0.366037	0.971579	0.989604
Quasi-structured	0.286377	0.799243	1.63285	0.605654	0.994951	0.998044

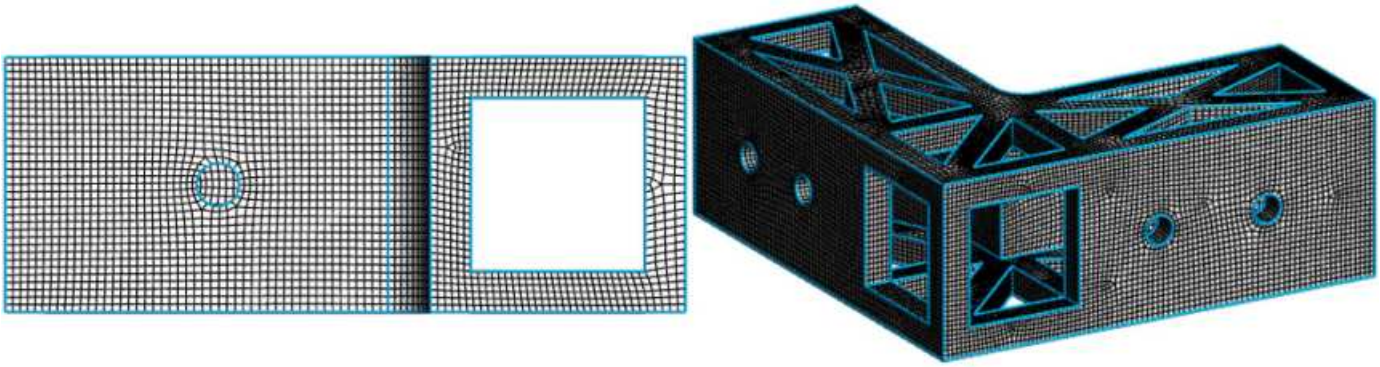


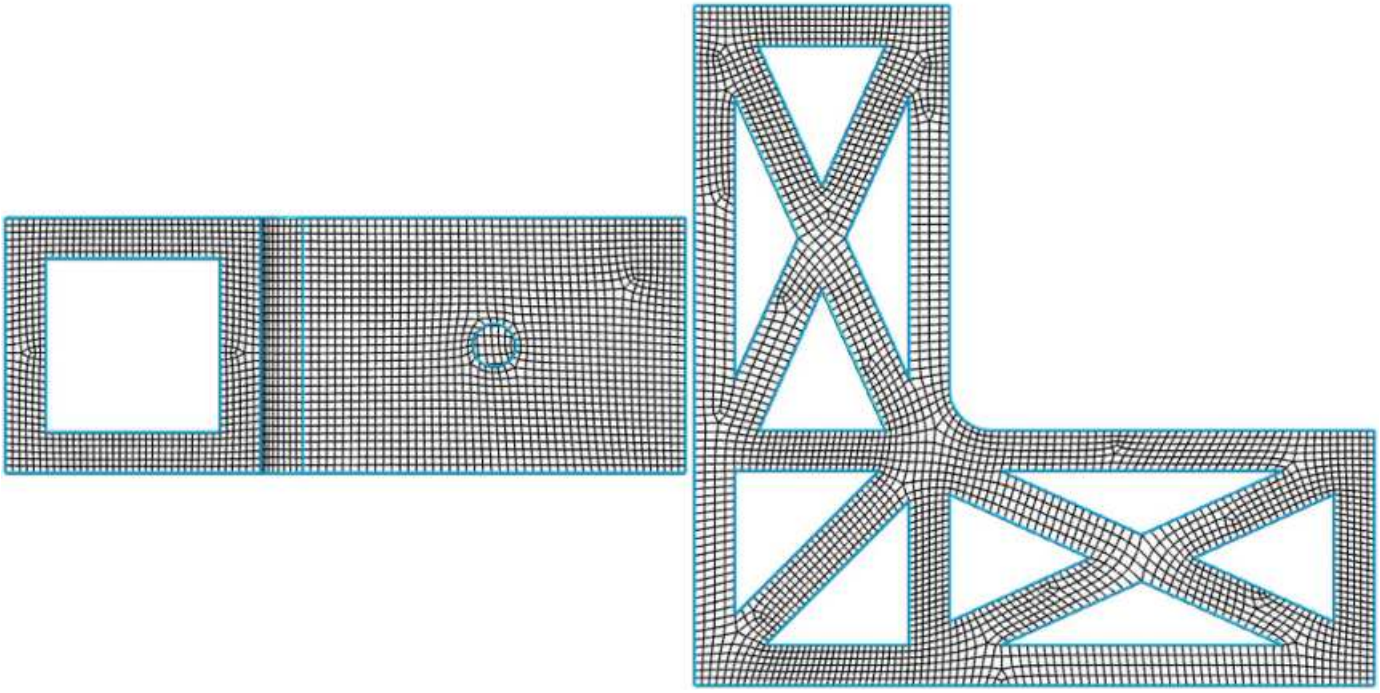
Model: 00002060 (from ABC dataset)
CAD: 180 corners, 269 curves, 77 faces
Cross field: 52 singularities detected
Timings: 21.2854 sec to generate the unstructured mesh, 28.5049 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34148	38951	913	60
Quasi-structured	34919	39722	258	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.196992	0.887033	1.71599	0.441209	0.959932	0.985062
Quasi-structured	0.248632	0.876921	2.47173	0.422283	0.976283	0.990342



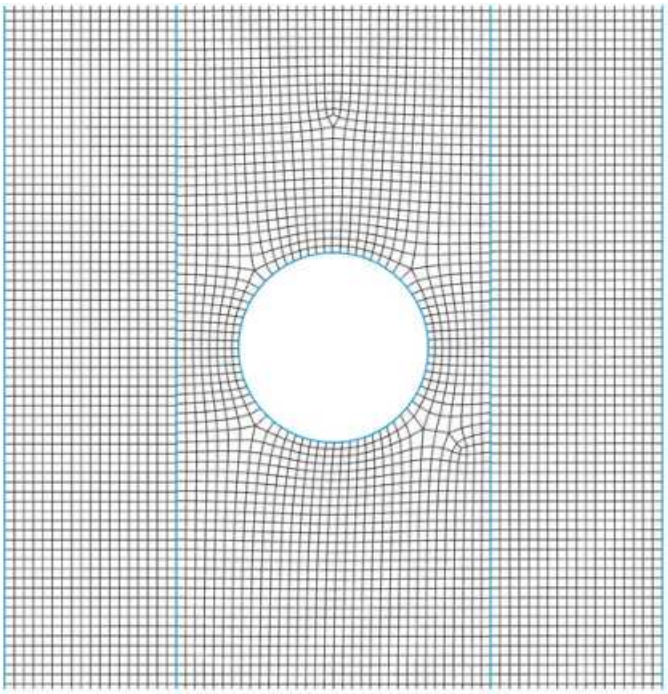


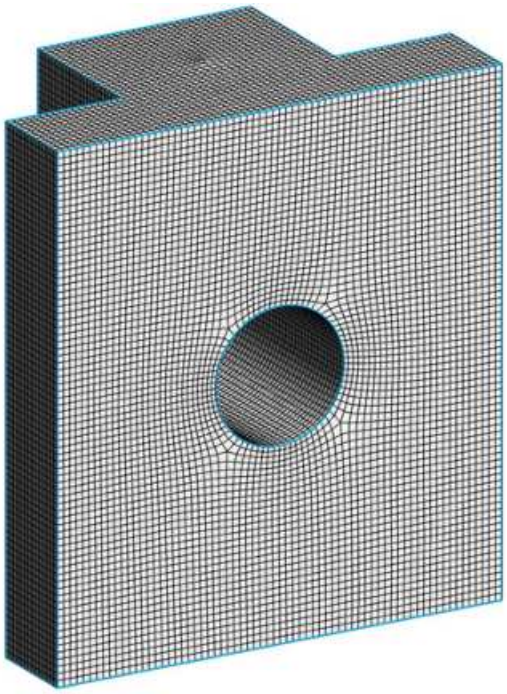
Model: 00002063 (from ABC dataset)
CAD: 19 corners, 28 curves, 11 faces
Cross field: 8 singularities detected
Timings: 10.8906 sec to generate the unstructured mesh, 2.04623 sec to make it quasi-structured
Mesh topology:

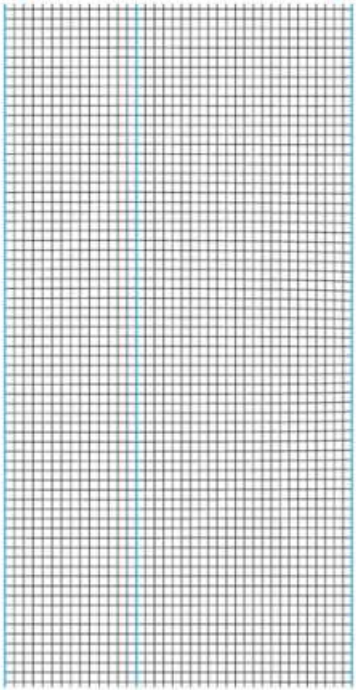
	# quads	# vertices	# irregular	# very irregular
Unstructured	22066	23254	104	44
Quasi-structured	22270	23458	16	0

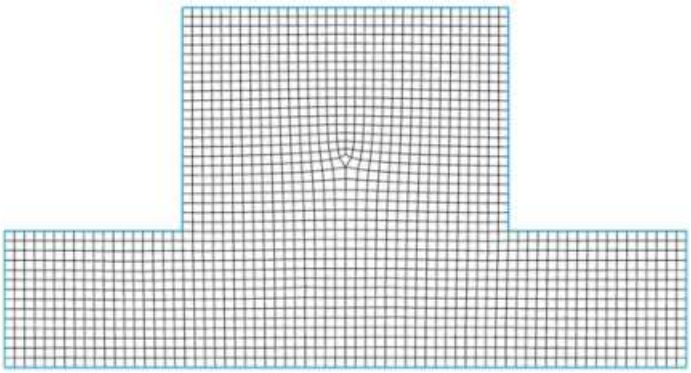
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.101678	0.25585	0.451384	0.559709	0.990499	0.999008
Quasi-structured	0.155396	0.254347	0.498217	0.744832	0.99799	0.999544







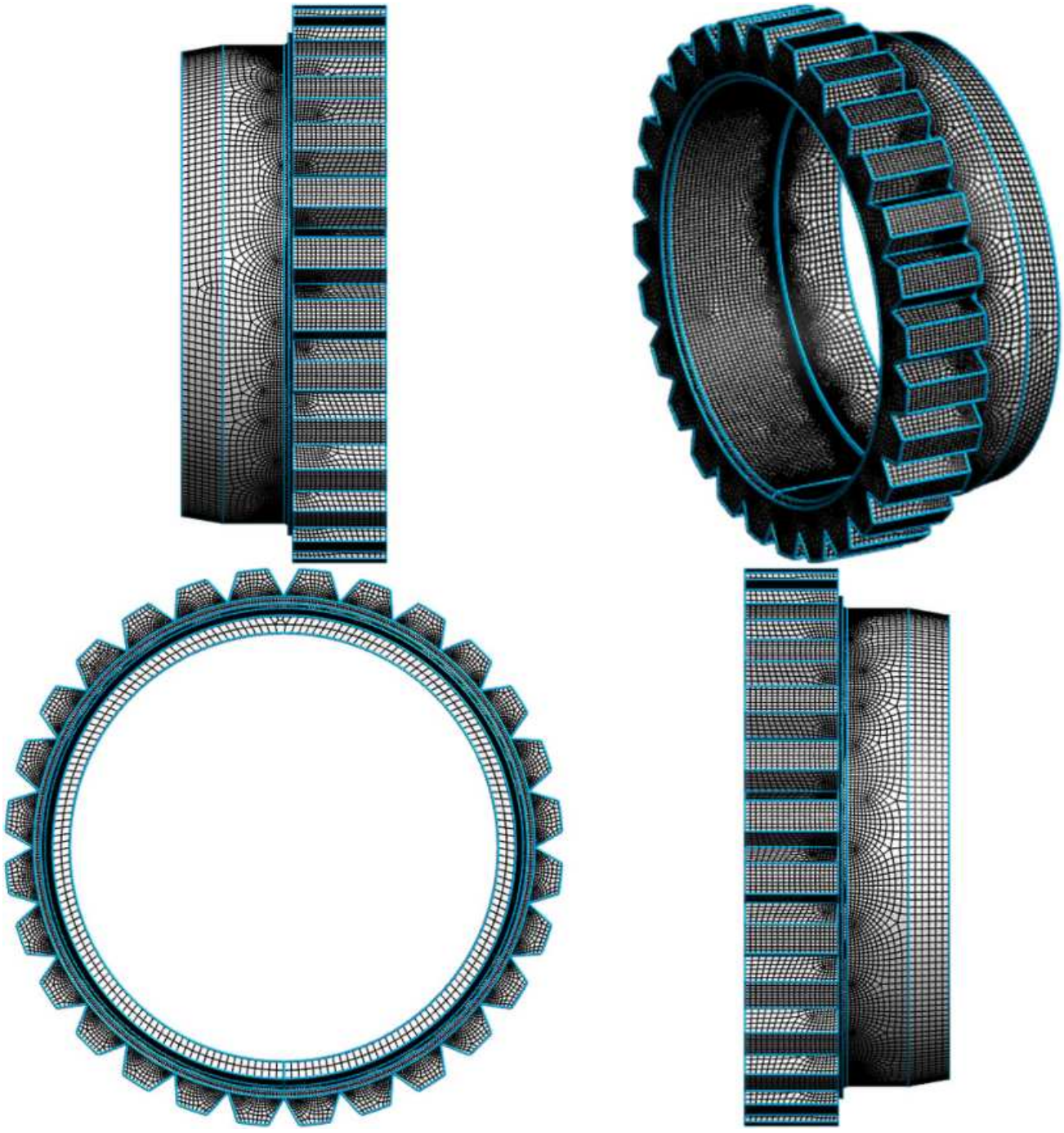


Model: 00002073 (from ABC dataset)
CAD: 178 corners, 298 curves, 123 faces
Cross field: 28 singularities detected
Timings: 14.0661 sec to generate the unstructured mesh, 227.415 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	47070	55154	2773	224
Quasi-structured	50119	58203	806	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0898084	0.681874	1.90685	0.133633	0.922108	0.962459
Quasi-structured	0.0492576	0.659709	2.66144	0.154447	0.941519	0.963849

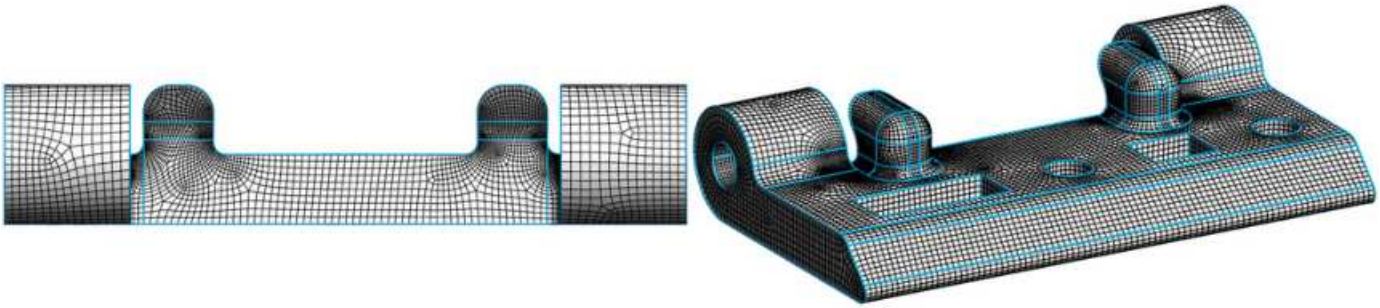


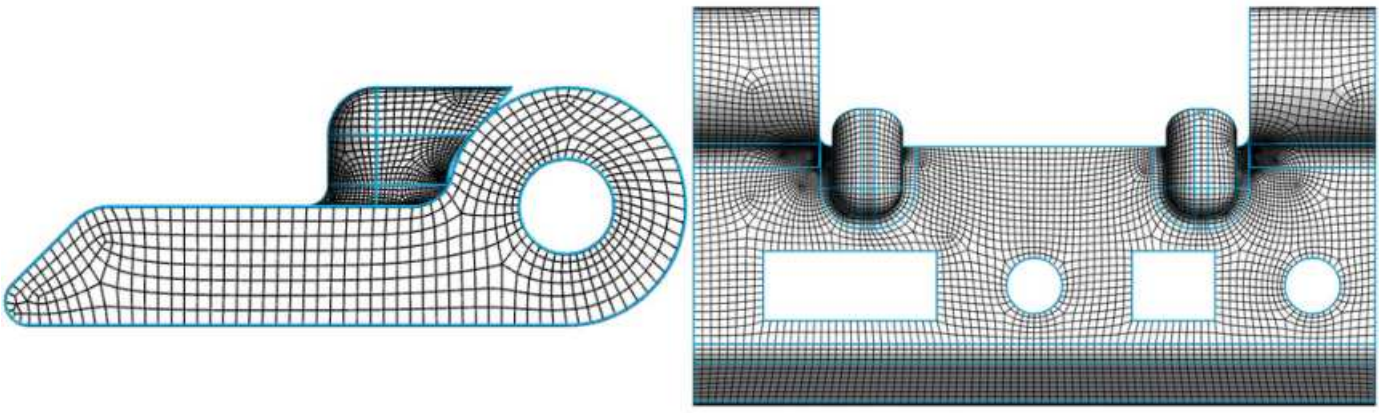
Model: 00002074 (from ABC dataset)
CAD: 102 corners, 168 curves, 64 faces
Cross field: 50 singularities detected
Timings: 12.1663 sec to generate the unstructured mesh, 11.5341 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23650	26554	1064	123
Quasi-structured	24068	26972	254	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00157701	0.356301	0.924753	0.00302494	0.939852	0.976977
Quasi-structured	0.00213233	0.351981	1.11159	0.029084	0.954181	0.981534



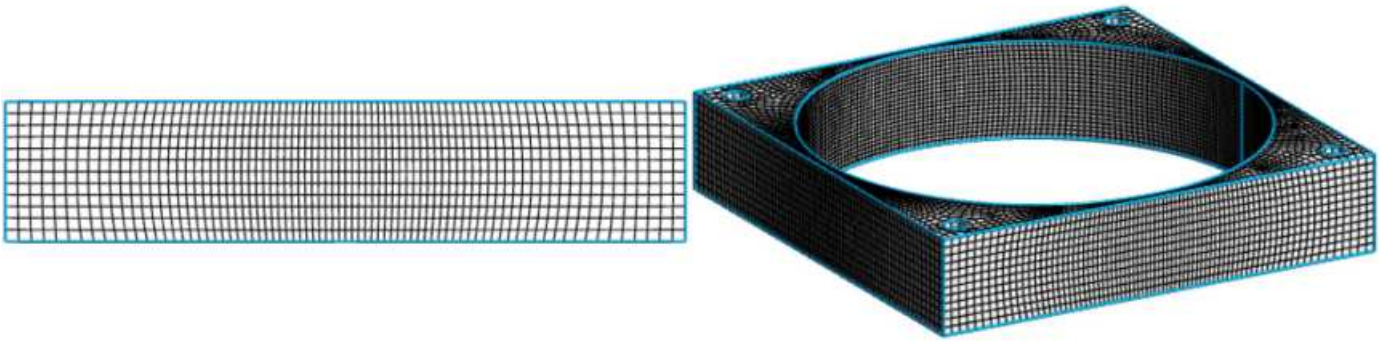


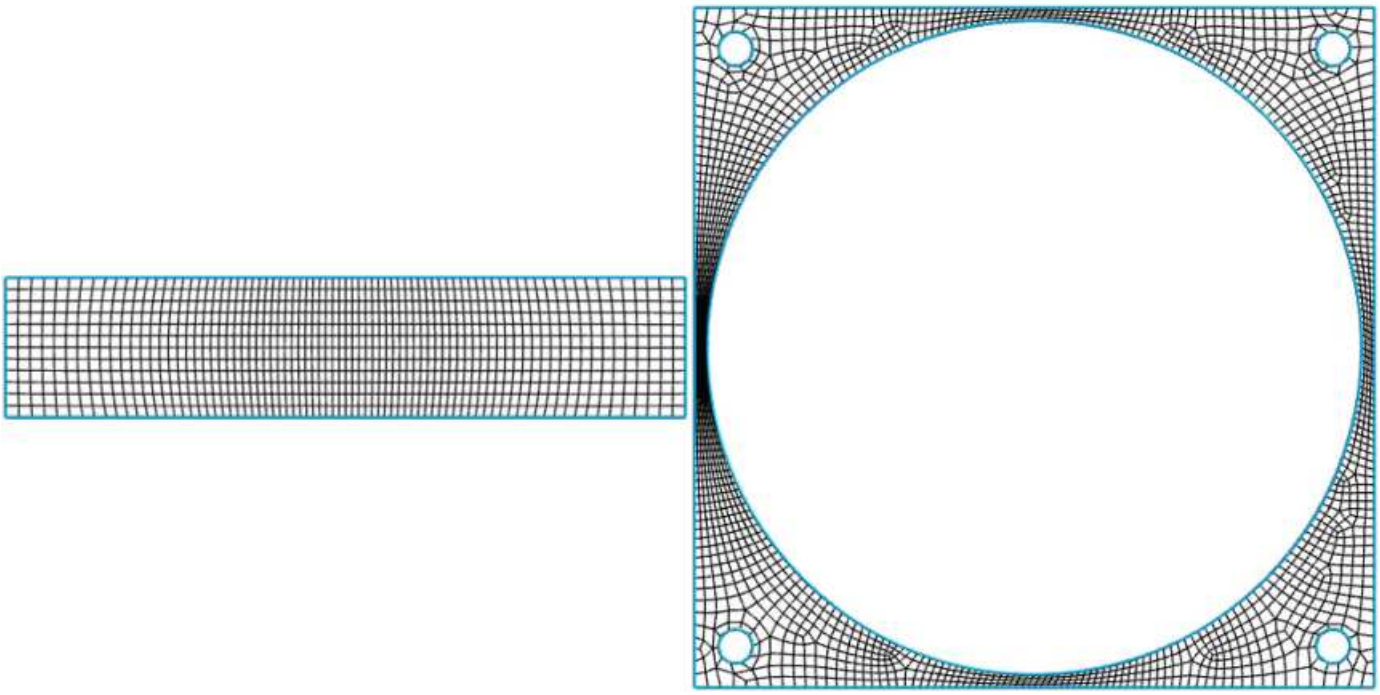
Model: 00002091 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 40 singularities detected
Timings: 8.93383 sec to generate the unstructured mesh, 4.39513 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12910	14222	334	77
Quasi-structured	14568	15880	124	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.351604	1.51161	3.56907	0.0292967	0.952318	0.993626
Quasi-structured	0.161708	1.412	4.20693	0.240936	0.925639	0.9737



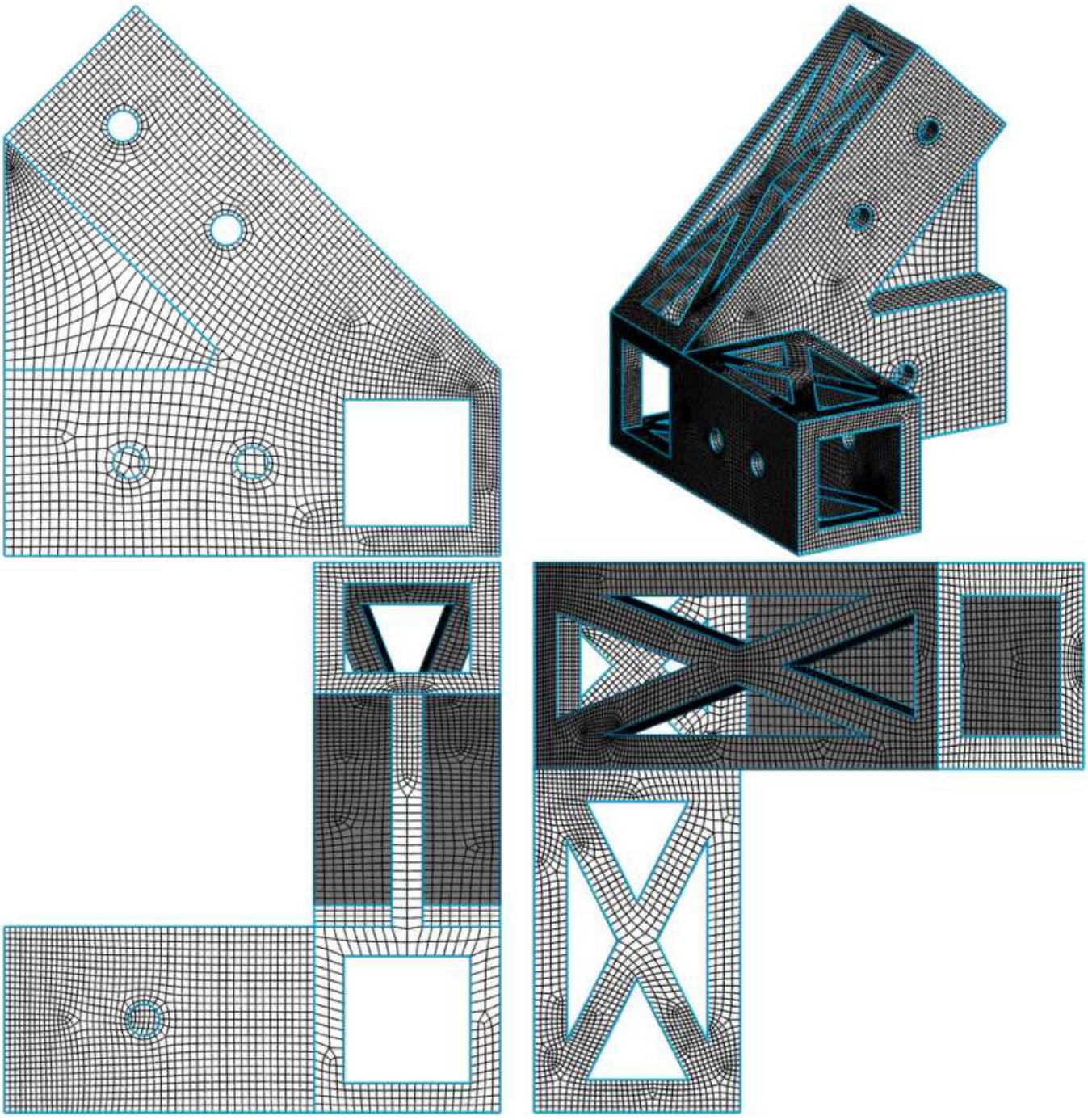


Model: 00002100 (from ABC dataset)
CAD: 219 corners, 322 curves, 94 faces
Cross field: 87 singularities detected
Timings: 26.6689 sec to generate the unstructured mesh, 39.2037 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	44646	50364	1972	112
Quasi-structured	44130	49848	551	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0148799	0.904199	2.66724	0.0028762	0.943953	0.980101
Quasi-structured	0.0124389	0.912138	5.50142	0.0028762	0.961865	0.984901

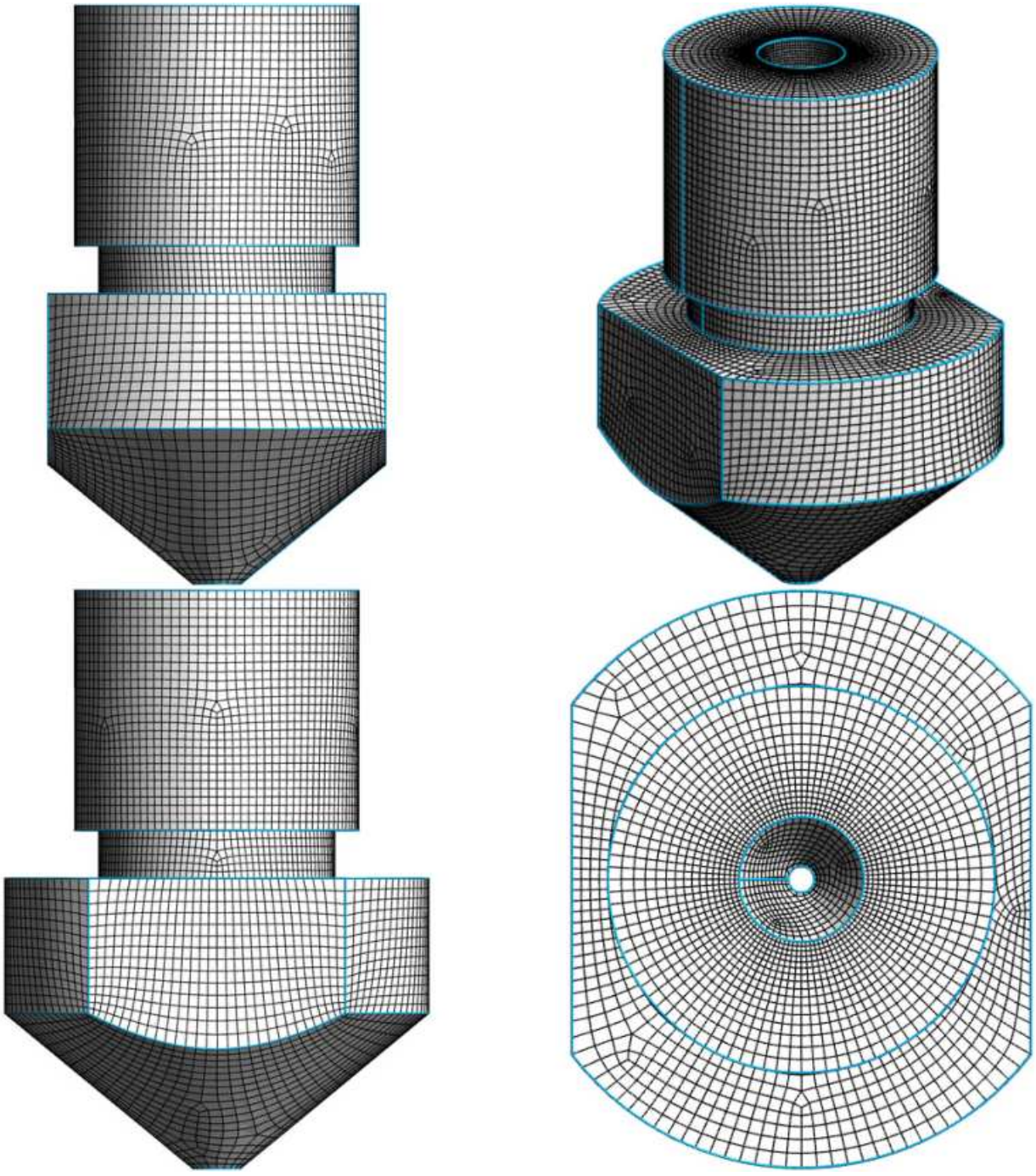


Model: 00002144 (from ABC dataset)
CAD: 18 corners, 28 curves, 14 faces
Cross field: 8 singularities detected
Timings: 9.04099 sec to generate the unstructured mesh, 4.21598 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17788	18724	210	184
Quasi-structured	17564	18500	86	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0325176	0.138912	0.425894	0.513168	0.974782	0.991611
Quasi-structured	0.0350026	0.139012	0.431409	0.625968	0.987218	0.99465

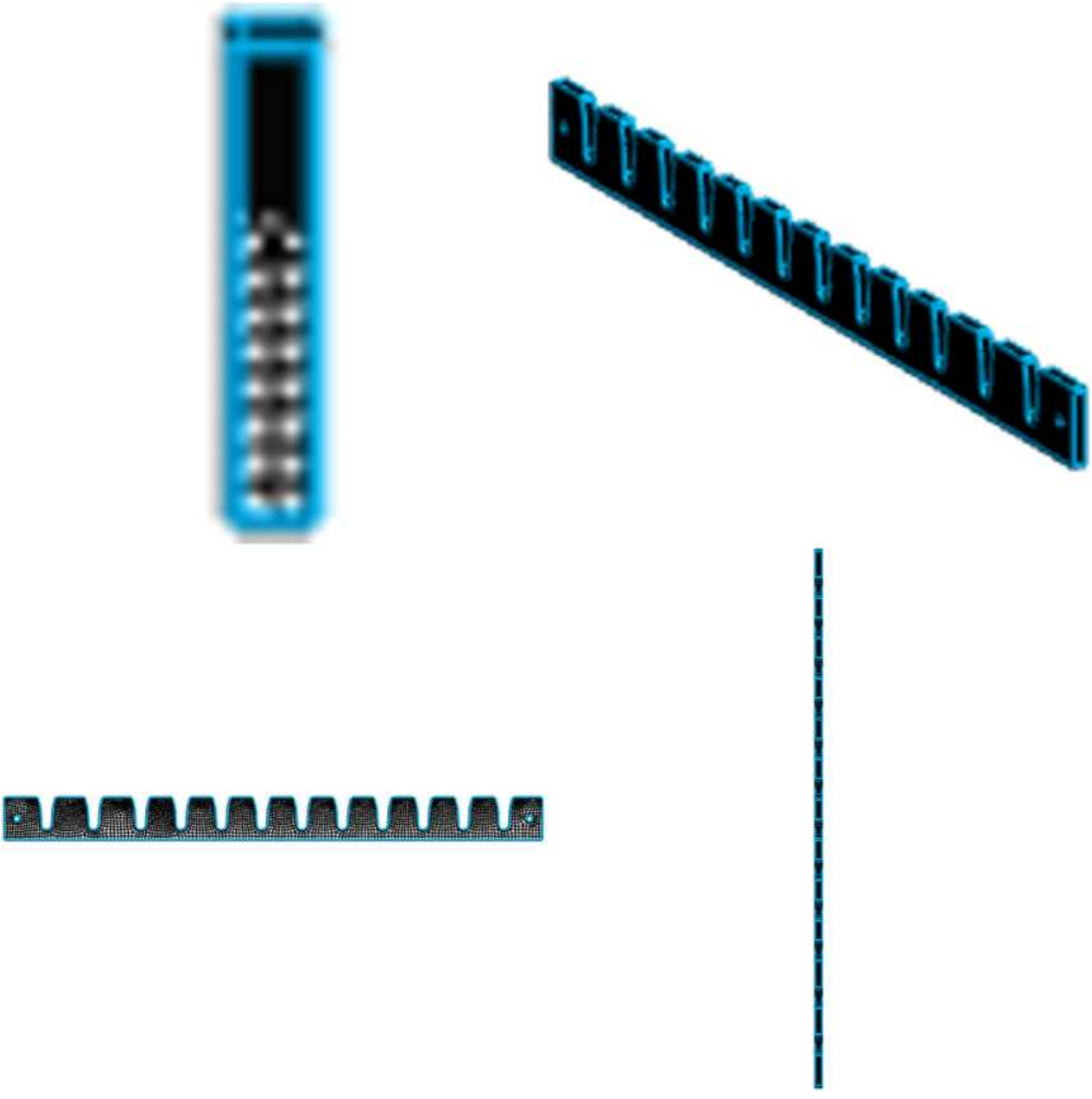


Model: 00002147 (from ABC dataset)
CAD: 162 corners, 242 curves, 82 faces
Cross field: 116 singularities detected
Timings: 11.8629 sec to generate the unstructured mesh, 5.98178 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11582	13962	539	25
Quasi-structured	12073	14453	333	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.242386	0.920883	2.51709	0.0259906	0.905215	0.942756
Quasi-structured	0.187094	0.901435	3.20223	0.149211	0.924334	0.956239

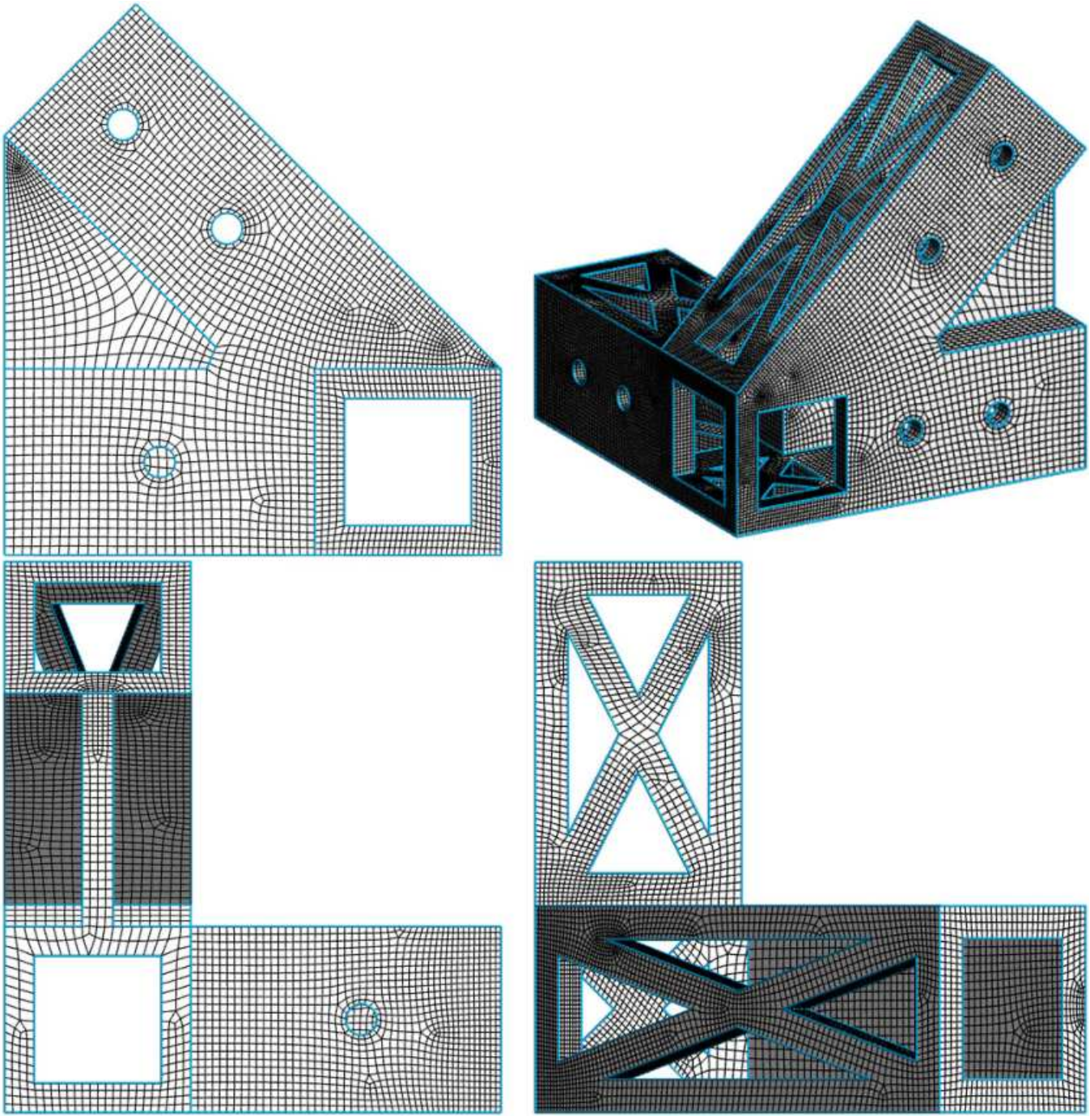


Model: 00002163 (from ABC dataset)
CAD: 219 corners, 322 curves, 94 faces
Cross field: 87 singularities detected
Timings: 21.1227 sec to generate the unstructured mesh, 37.8834 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	44624	50328	1942	120
Quasi-structured	43982	49686	519	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0176198	0.905543	2.5289	0.00287651	0.943914	0.979889
Quasi-structured	0.0129776	0.915928	6.34095	0.00287651	0.962529	0.98551

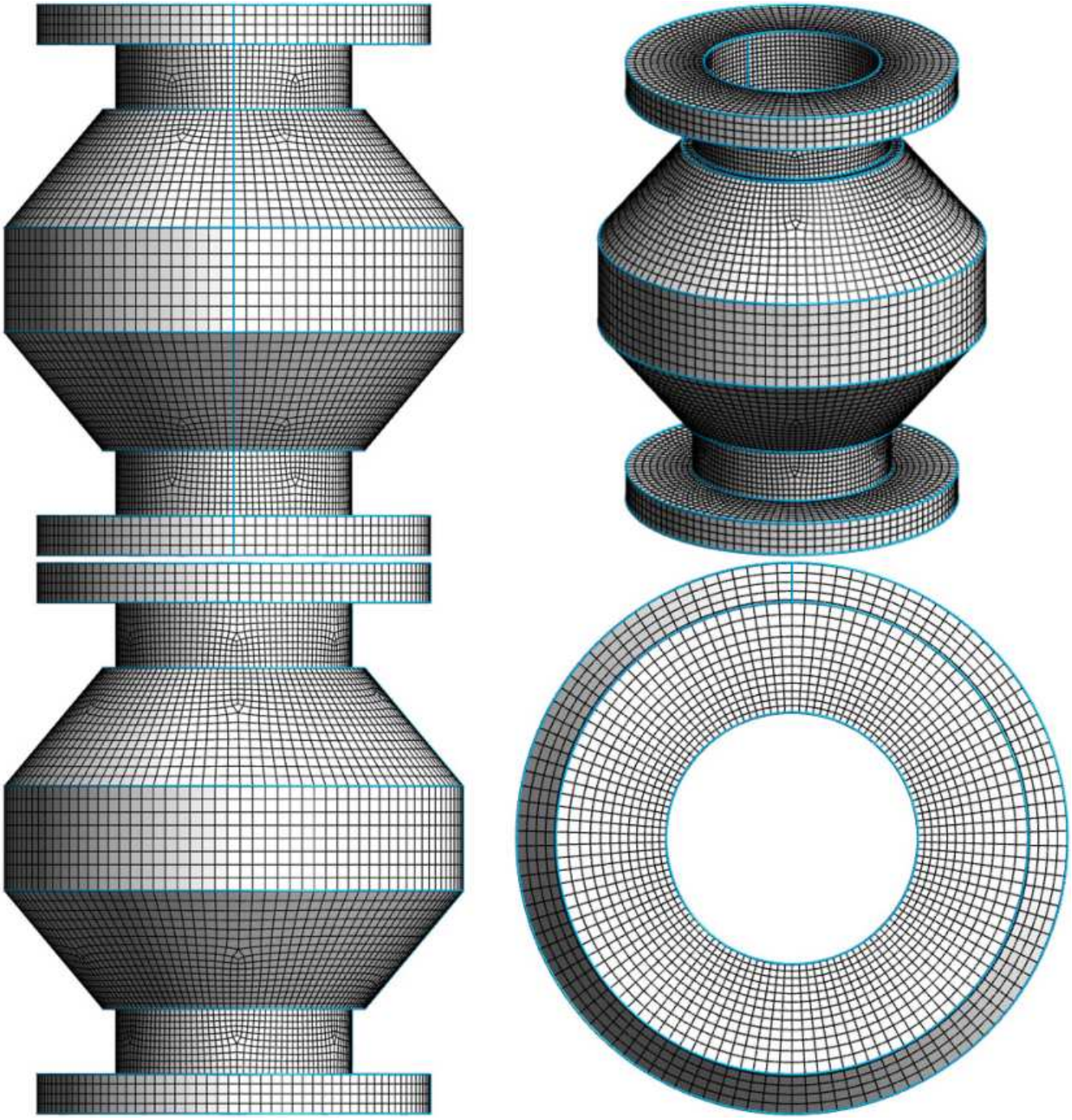


Model: 00002169 (from ABC dataset)
CAD: 14 corners, 22 curves, 14 faces
Cross field: 0 singularities detected
Timings: 11.932 sec to generate the unstructured mesh, 1.71604 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24188	25832	80	160
Quasi-structured	24072	25716	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0727561	0.279834	0.572064	0.535392	0.990399	0.997756
Quasi-structured	0.151613	0.280342	0.507581	0.832901	0.997063	0.998877

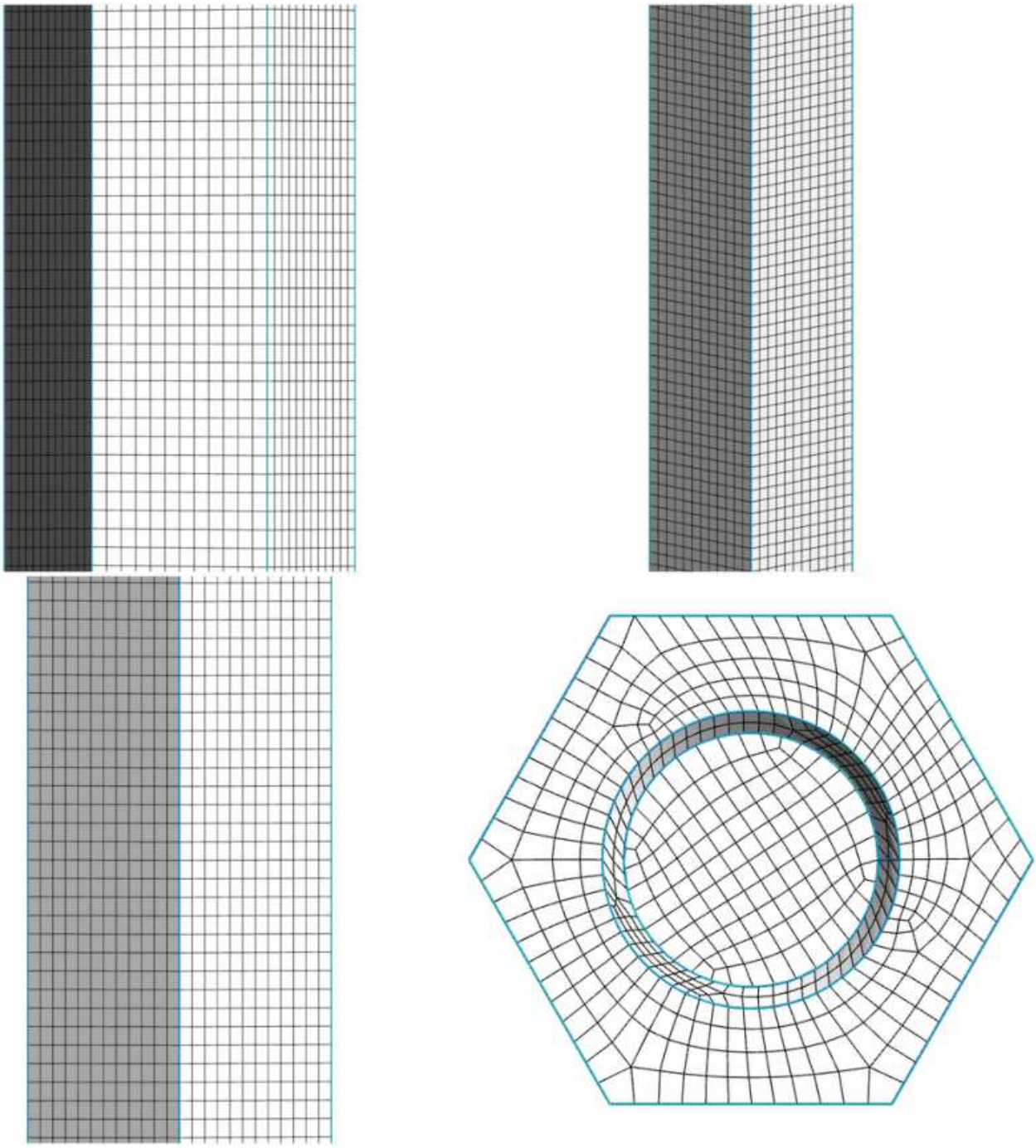


Model: 00002171 (from ABC dataset)
CAD: 18 corners, 28 curves, 14 faces
Cross field: 20 singularities detected
Timings: 5.89593 sec to generate the unstructured mesh, 2.47943 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11544	12602	147	77
Quasi-structured	11597	12655	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0586874	0.282952	0.40633	0.159301	0.968107	0.973741
Quasi-structured	0.0568342	0.281717	0.547161	0.361603	0.971132	0.972979

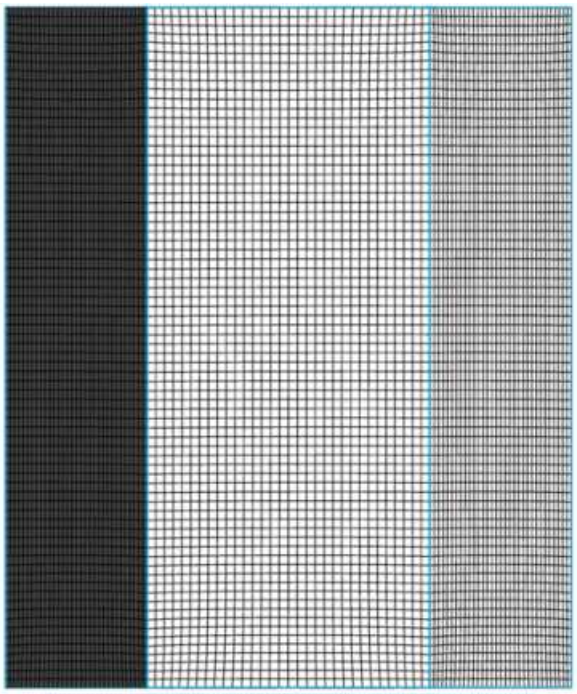


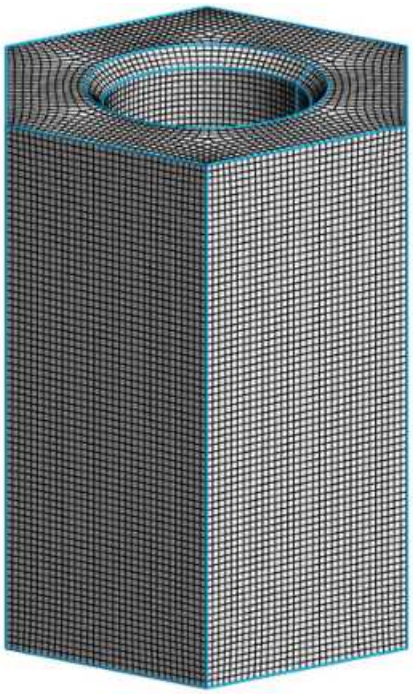
Model: 00002172 (from ABC dataset)
CAD: 15 corners, 23 curves, 10 faces
Cross field: 12 singularities detected
Timings: 14.046 sec to generate the unstructured mesh, 1.59884 sec to make it quasi-structured
Mesh topology:

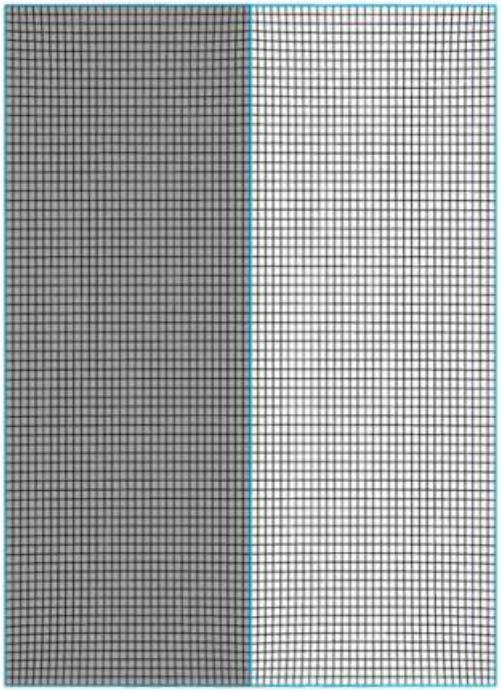
	# quads	# vertices	# irregular	# very irregular
Unstructured	24704	25826	122	80
Quasi-structured	24646	25768	26	0

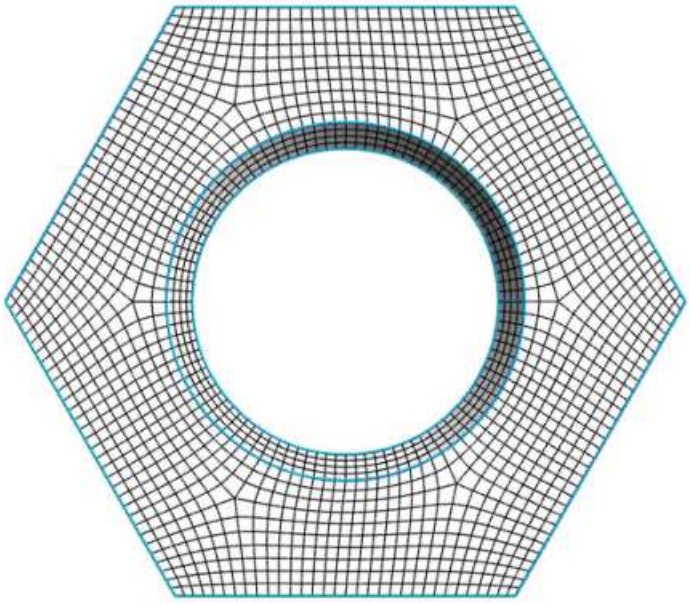
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0359751	0.105891	0.197546	0.461037	0.992038	0.99904
Quasi-structured	0.0603214	0.105952	0.230207	0.75615	0.995866	0.998851







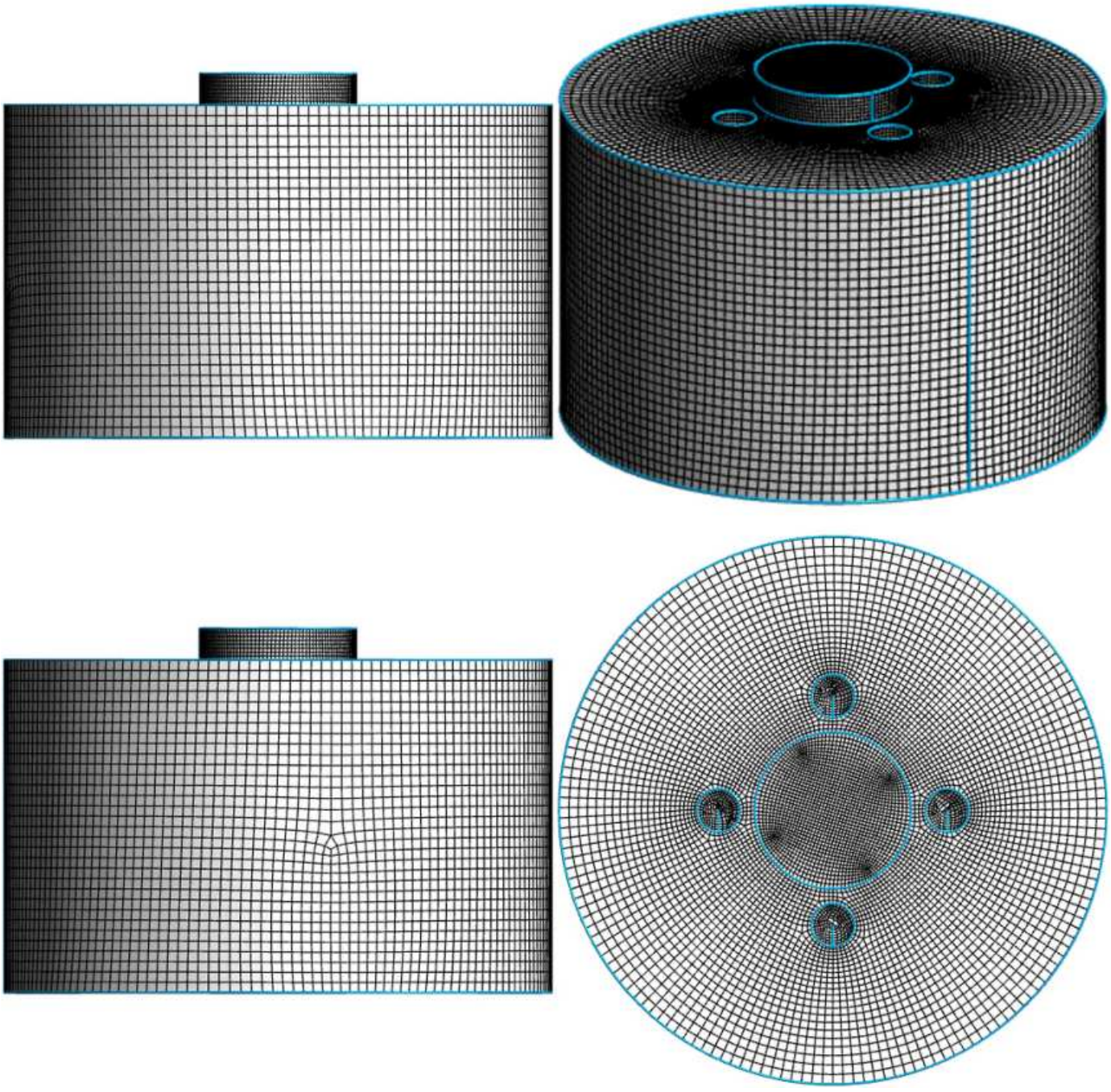


Model: 00002186 (from ABC dataset)
CAD: 19 corners, 31 curves, 16 faces
Cross field: 43 singularities detected
Timings: 11.3142 sec to generate the unstructured mesh, 1.54377 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20604	21526	274	206
Quasi-structured	20813	21735	89	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0583579	0.347656	0.917636	0.31048	0.978171	0.995423
Quasi-structured	0.038396	0.345193	0.692533	0.135112	0.990883	0.998568

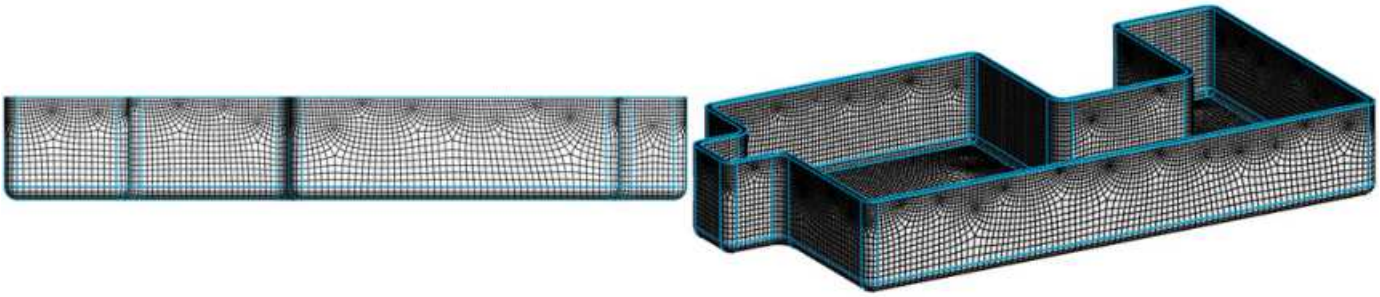


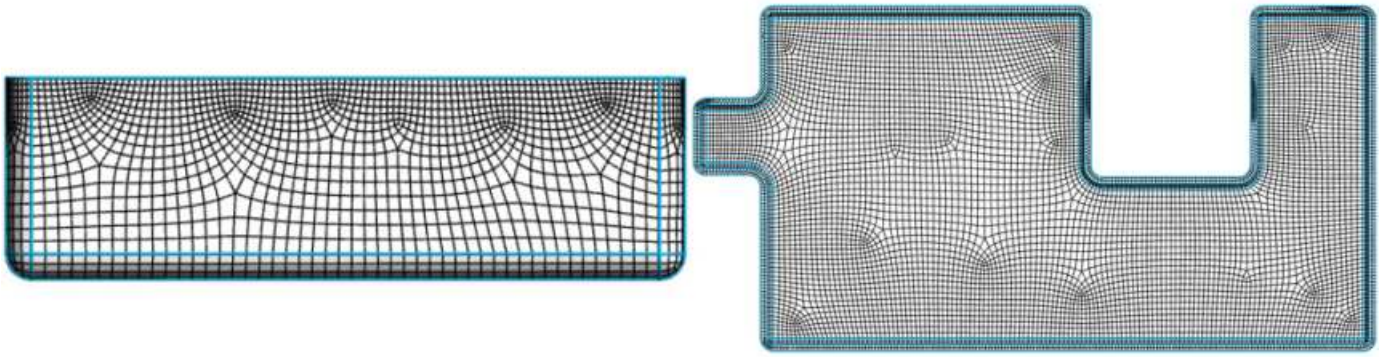
Model: 00002190 (from ABC dataset)
CAD: 128 corners, 240 curves, 99 faces
Cross field: 24 singularities detected
Timings: 17.5927 sec to generate the unstructured mesh, 35.781 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34664	39176	1045	64
Quasi-structured	36491	41003	270	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.279692	1.89469	4.26035	0.261198	0.941818	0.973906
Quasi-structured	0.148445	1.83592	5.02996	0.139182	0.962279	0.980687



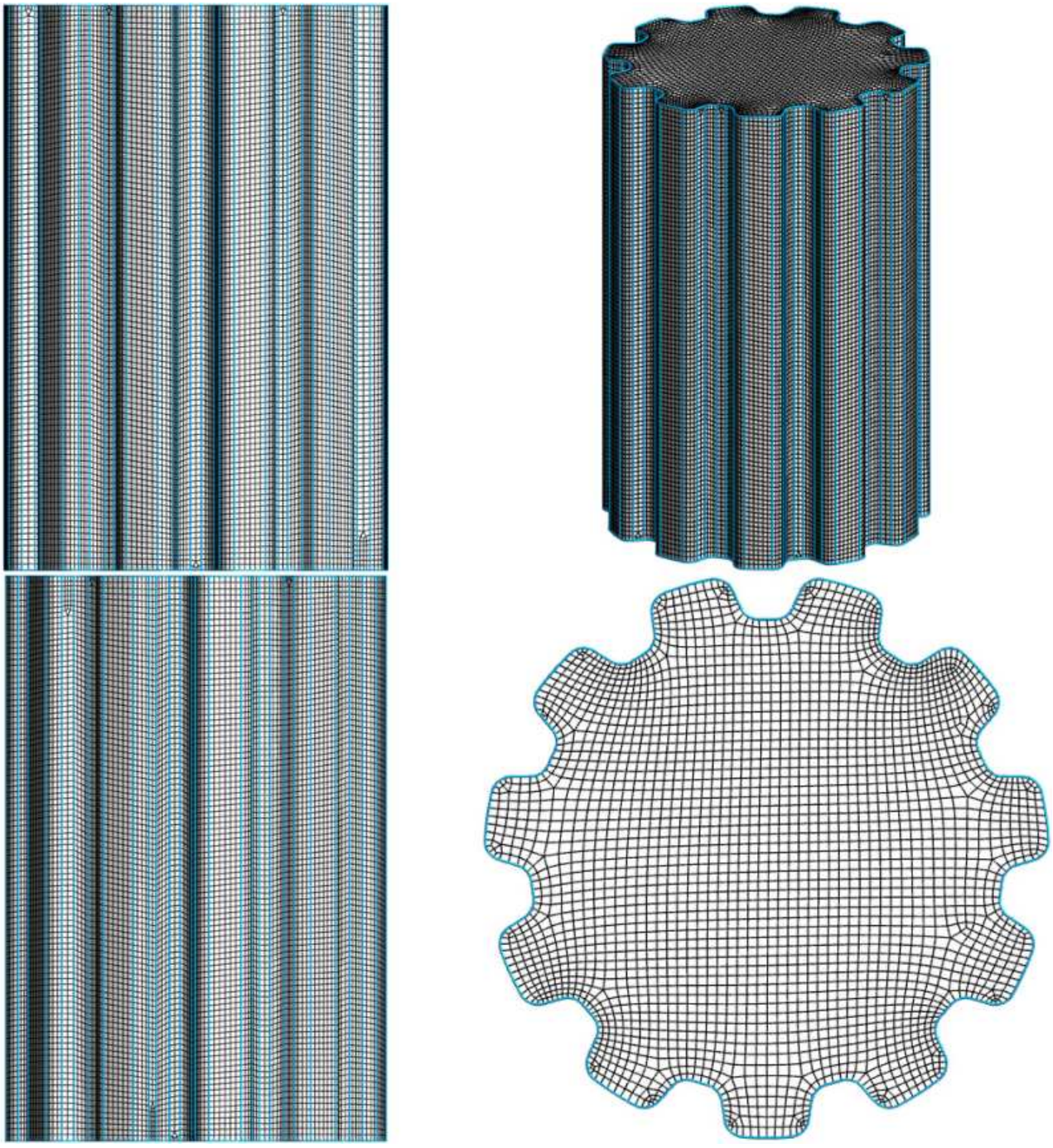


Model: 00002201 (from ABC dataset)
CAD: 176 corners, 264 curves, 90 faces
Cross field: 80 singularities detected
Timings: 31.1711 sec to generate the unstructured mesh, 5.30728 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37978	47390	339	8
Quasi-structured	38169	47581	186	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0649443	0.238776	0.478512	0.160633	0.938903	0.963359
Quasi-structured	0.0812769	0.237666	0.495697	0.61939	0.944724	0.966012

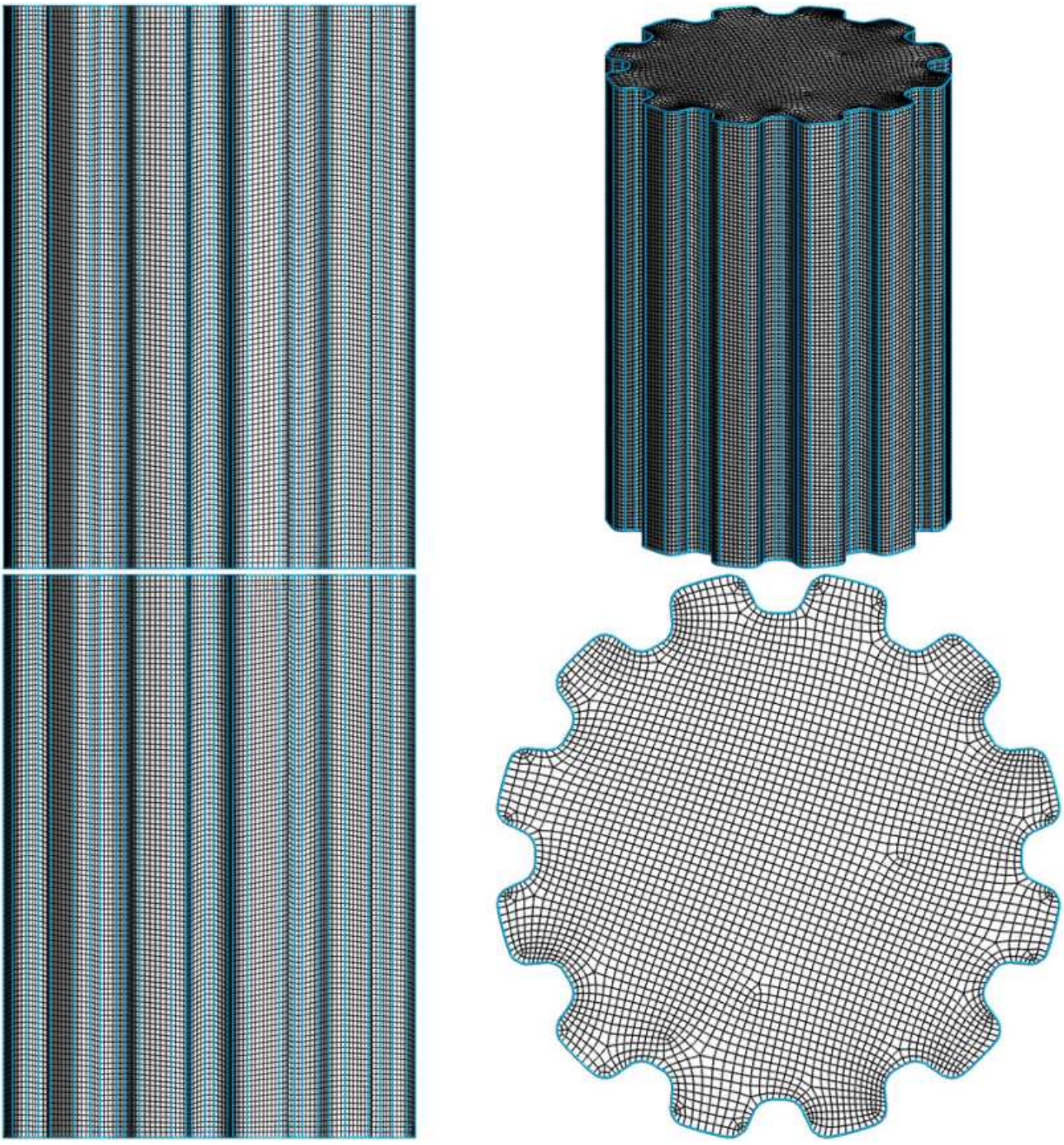


Model: 00002202 (from ABC dataset)
CAD: 192 corners, 288 curves, 98 faces
Cross field: 88 singularities detected
Timings: 27.443 sec to generate the unstructured mesh, 4.53776 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	47760	58806	392	21
Quasi-structured	48103	59149	166	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0809465	0.224346	0.482557	0.152047	0.942339	0.972304
Quasi-structured	0.0764474	0.222968	0.494453	0.671096	0.9506	0.976834

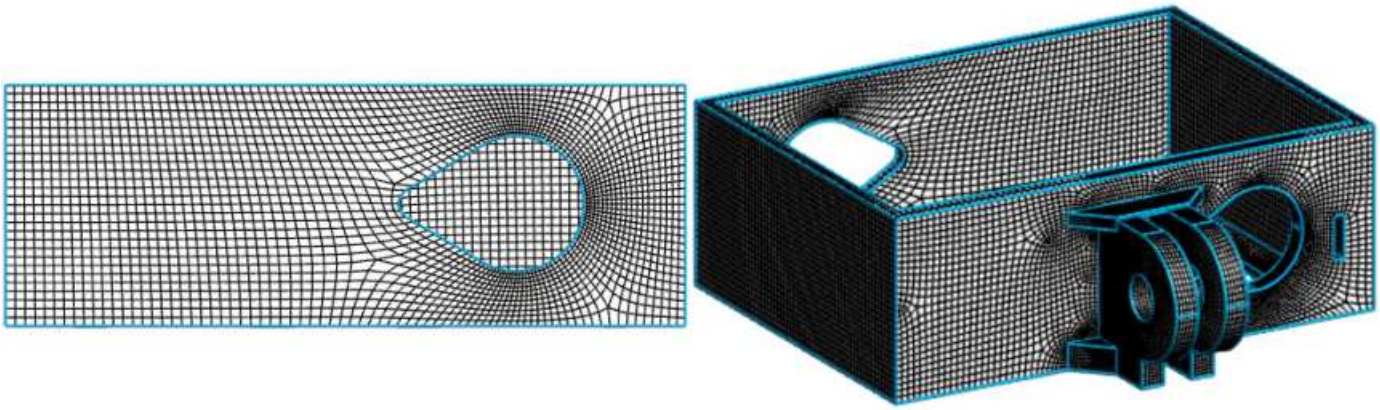


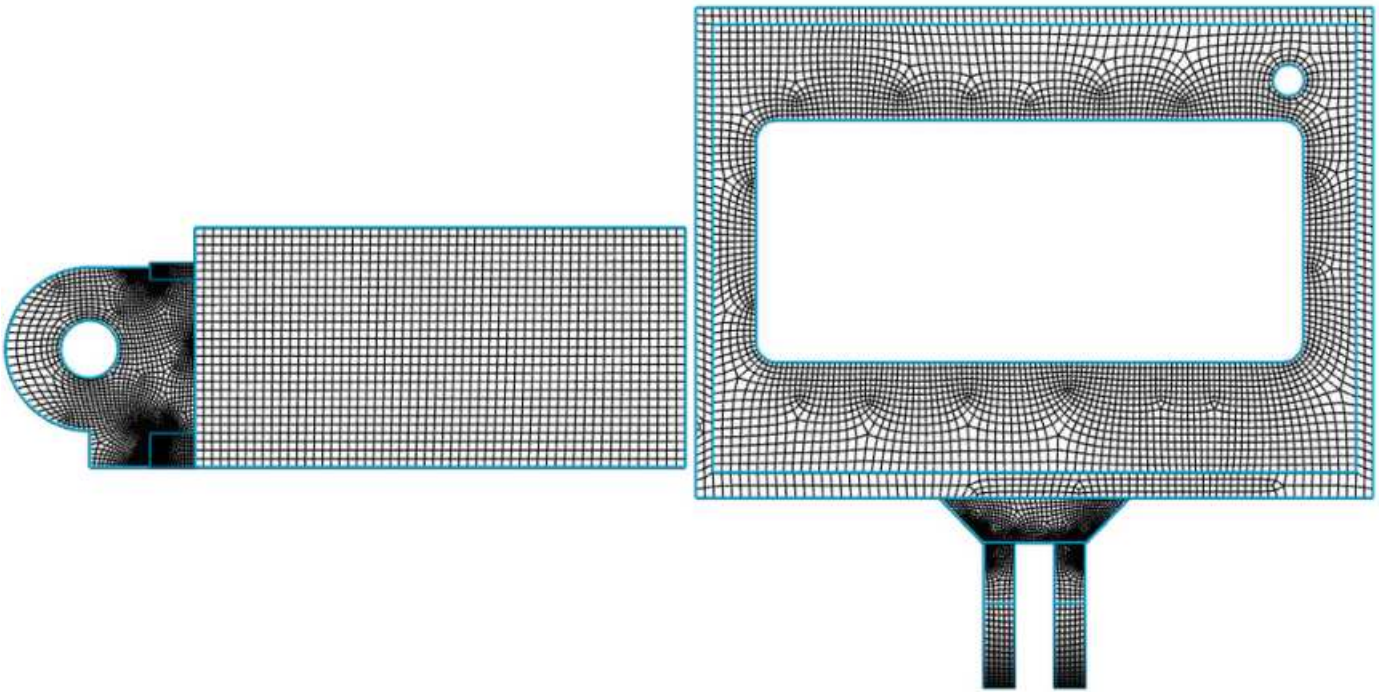
Model: 00002209 (from ABC dataset)
CAD: 142 corners, 213 curves, 74 faces
Cross field: 40 singularities detected
Timings: 20.8339 sec to generate the unstructured mesh, 36.9574 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	46480	51138	2099	110
Quasi-structured	46834	51492	380	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0149814	0.47657	1.43601	0.168099	0.944189	0.982991
Quasi-structured	0.0161107	0.478705	2.3779	0.285177	0.959886	0.983753



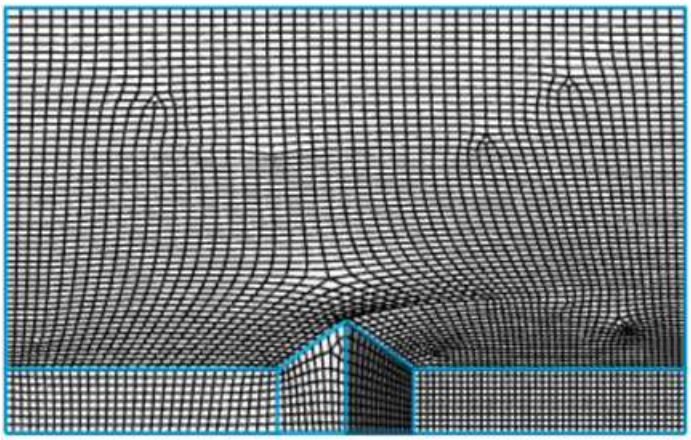


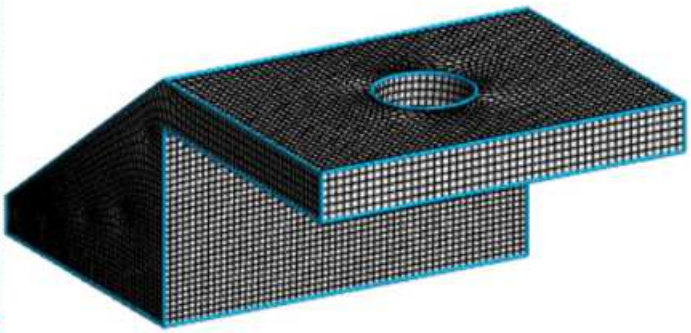
Model: 00002211 (from ABC dataset)
CAD: 23 corners, 34 curves, 13 faces
Cross field: 11 singularities detected
Timings: 11.1346 sec to generate the unstructured mesh, 2.91907 sec to make it quasi-structured
Mesh topology:

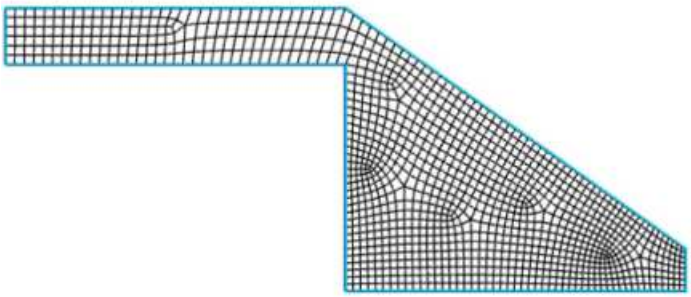
	# quads	# vertices	# irregular	# very irregular
Unstructured	16190	17220	228	10
Quasi-structured	15862	16892	53	0

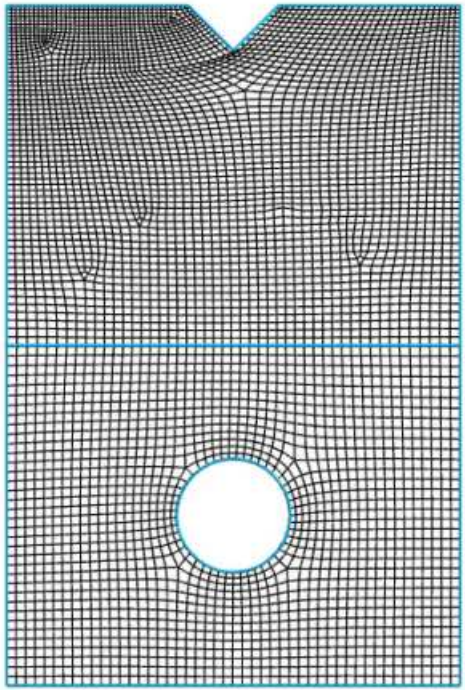
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.107842	0.420114	0.930541	0.540548	0.980955	0.995701
Quasi-structured	0.100274	0.425661	1.22204	0.367751	0.980725	0.994214









Model: 00002212 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 3.24461 sec to generate the unstructured mesh, 609.792 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31814	38116	1653	74
Quasi-structured	31838	38140	1396	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0919037	1.24025	3.70319	0.0761069	0.92617	0.982979
Quasi-structured	0.0743529	1.24258	4.65854	0.211478	0.928115	0.965171

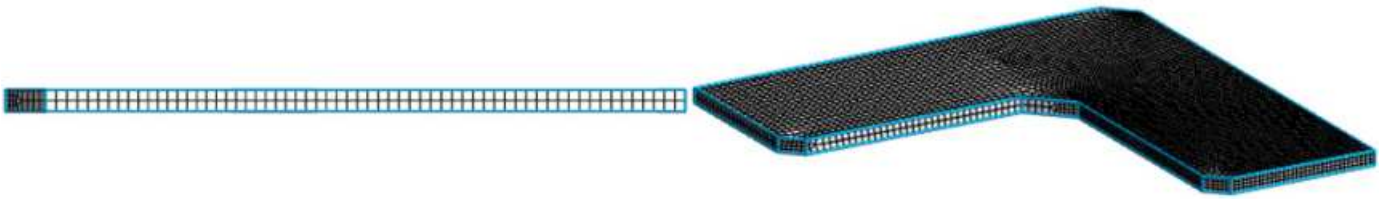


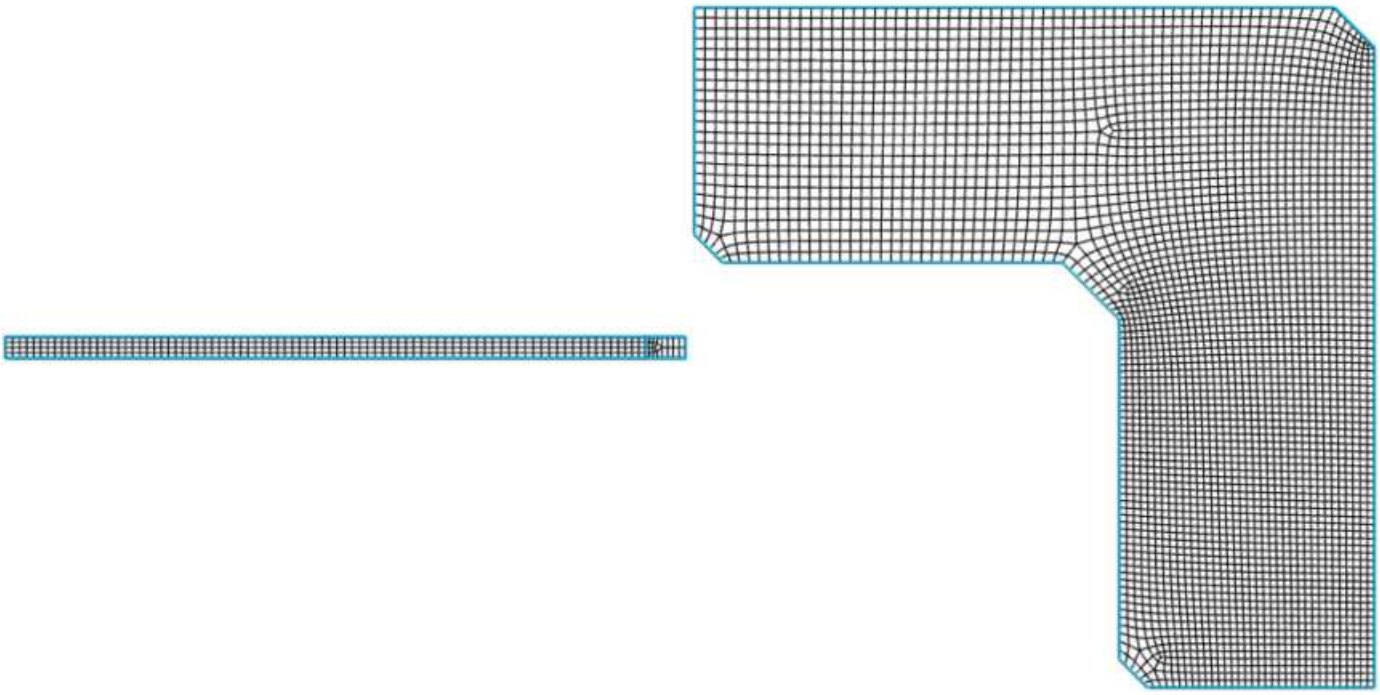
Model: 00002222 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 8 singularities detected
Timings: 7.56471 sec to generate the unstructured mesh, 1.17556 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8806	9484	75	1
Quasi-structured	8845	9523	29	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	4.44849	14.8297	28.4568	0.497599	0.981379	0.998787
Quasi-structured	5.80744	14.7775	30.4773	0.64223	0.991425	0.998805



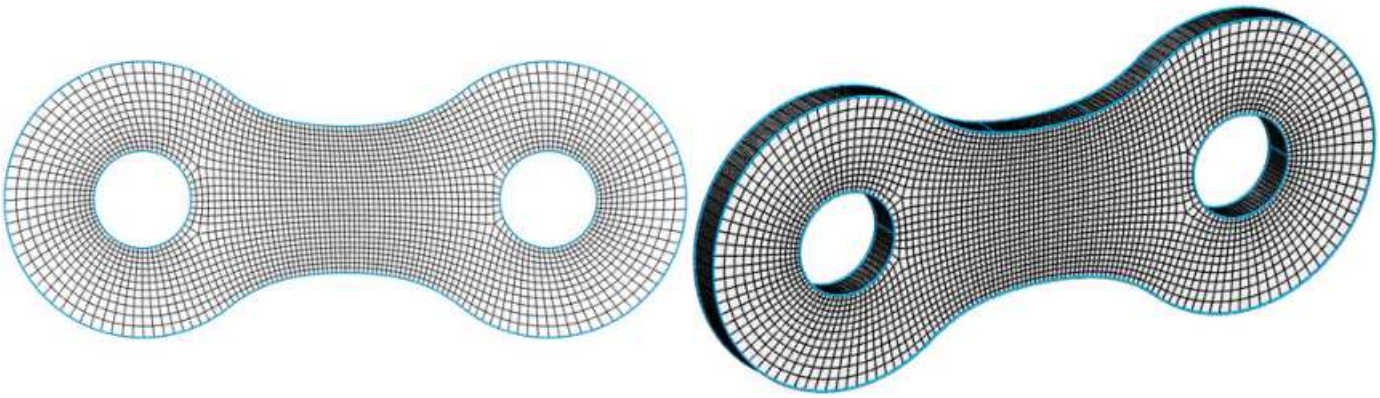


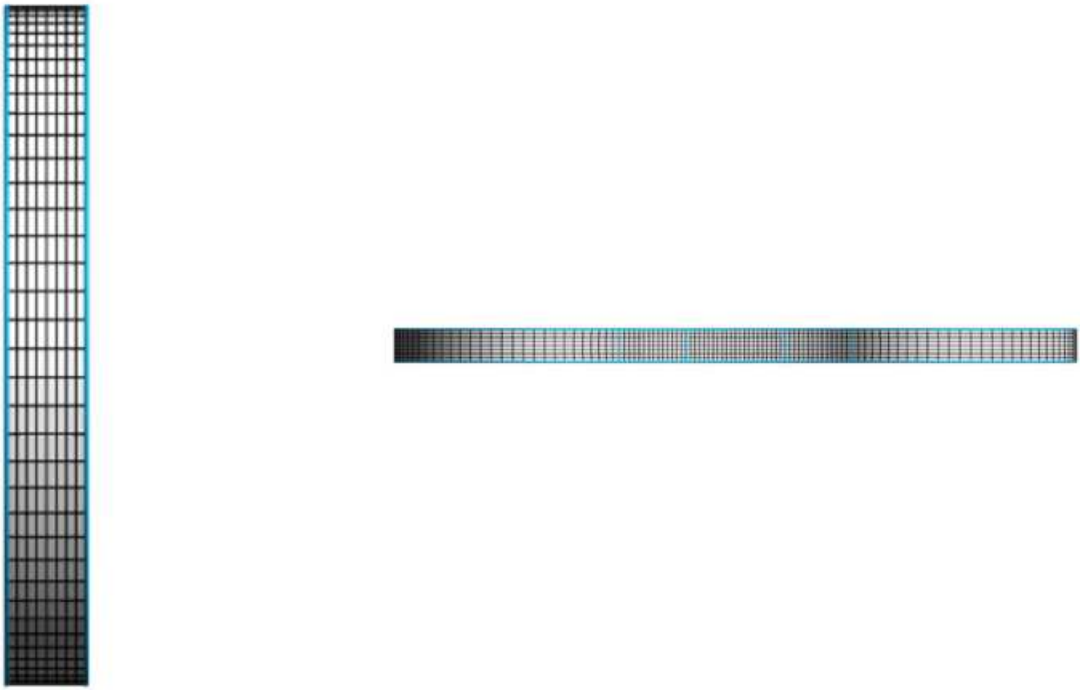
Model: 00002224 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 8 singularities detected
Timings: 6.63077 sec to generate the unstructured mesh, 0.860016 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8294	9052	58	17
Quasi-structured	8388	9146	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0546769	0.191555	0.37524	0.562603	0.944981	0.98899
Quasi-structured	0.124754	0.19064	0.390483	0.619132	0.950083	0.989709



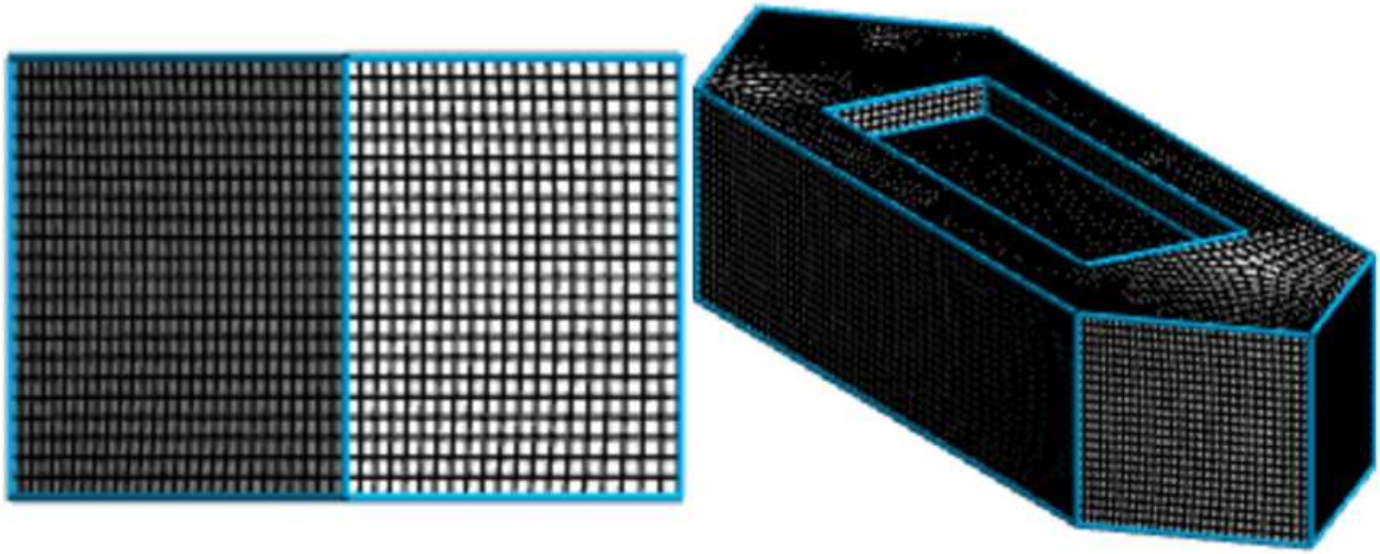


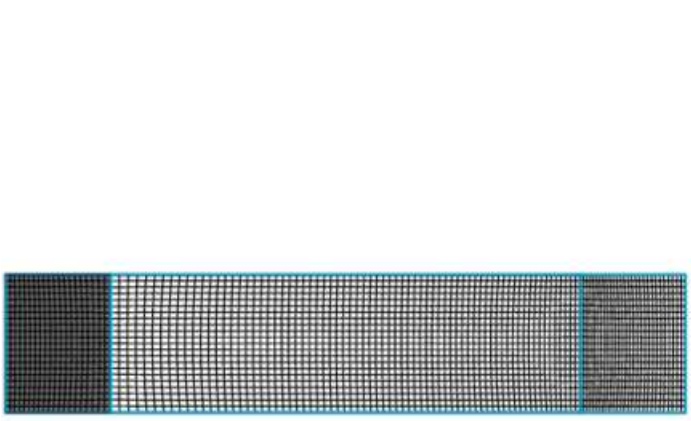
Model: 00002241 (from ABC dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 2 singularities detected
Timings: 7.91258 sec to generate the unstructured mesh, 0.834691 sec to make it quasi-structured
Mesh topology:

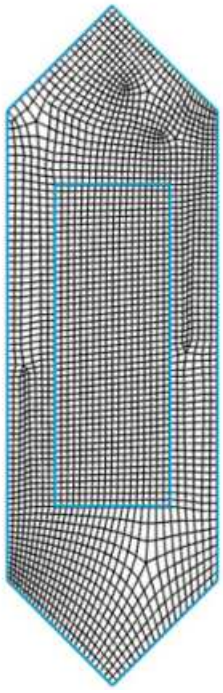
	# quads	# vertices	# irregular	# very irregular
Unstructured	11602	12514	79	1
Quasi-structured	11050	11962	14	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.162388	0.704127	1.50317	0.453992	0.982545	0.995575
Quasi-structured	0.255771	0.724205	2.38511	0.570662	0.973135	0.984869





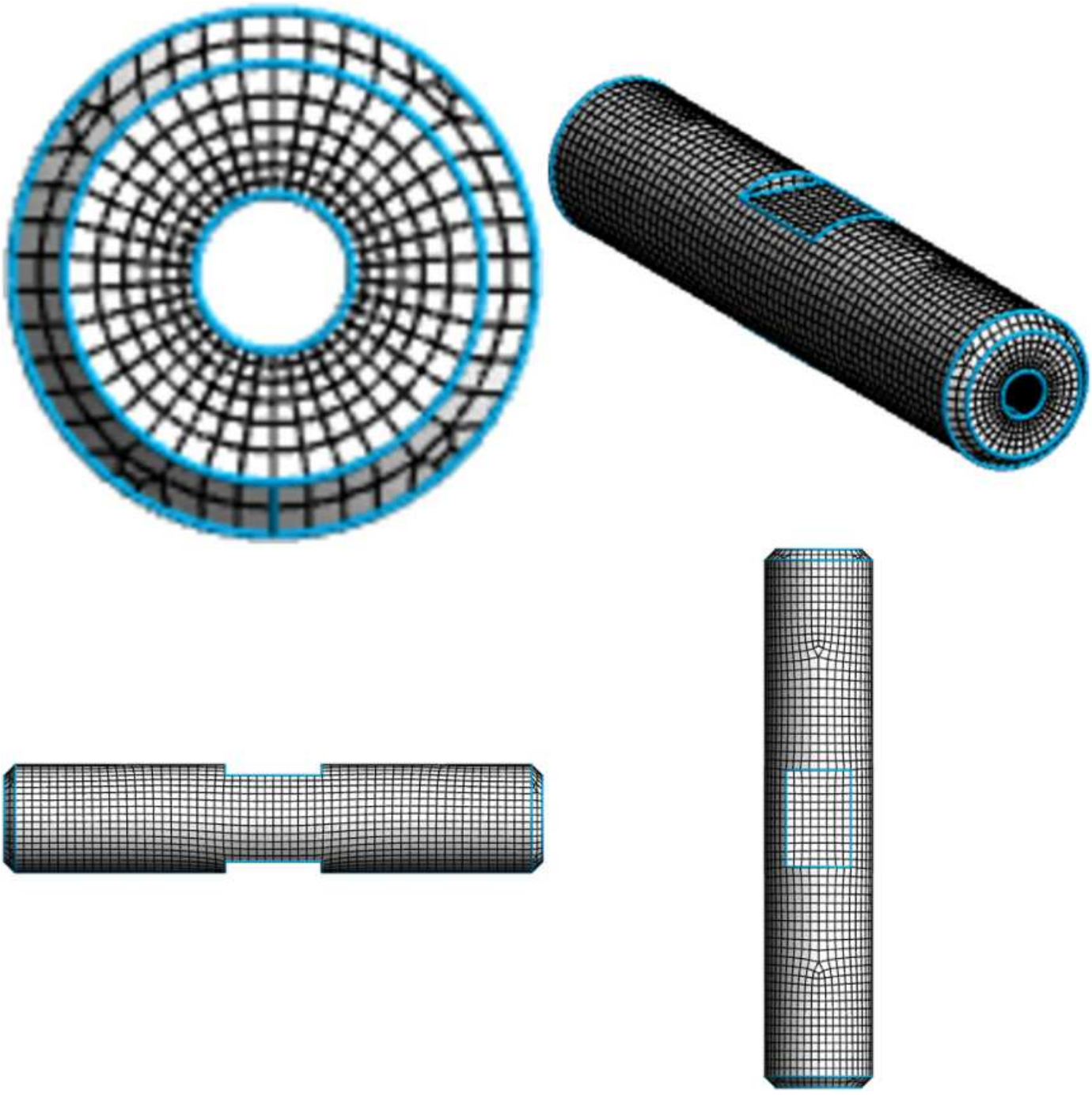


Model: 00002243 (from ABC dataset)
CAD: 16 corners, 25 curves, 12 faces
Cross field: 0 singularities detected
Timings: 11.0553 sec to generate the unstructured mesh, 0.629267 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10944	11316	56	253
Quasi-structured	11044	11416	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.10771	1.92401	6.04488	0.521991	0.988904	0.999999
Quasi-structured	0.996876	1.92483	5.48452	0.538072	0.99338	0.999971

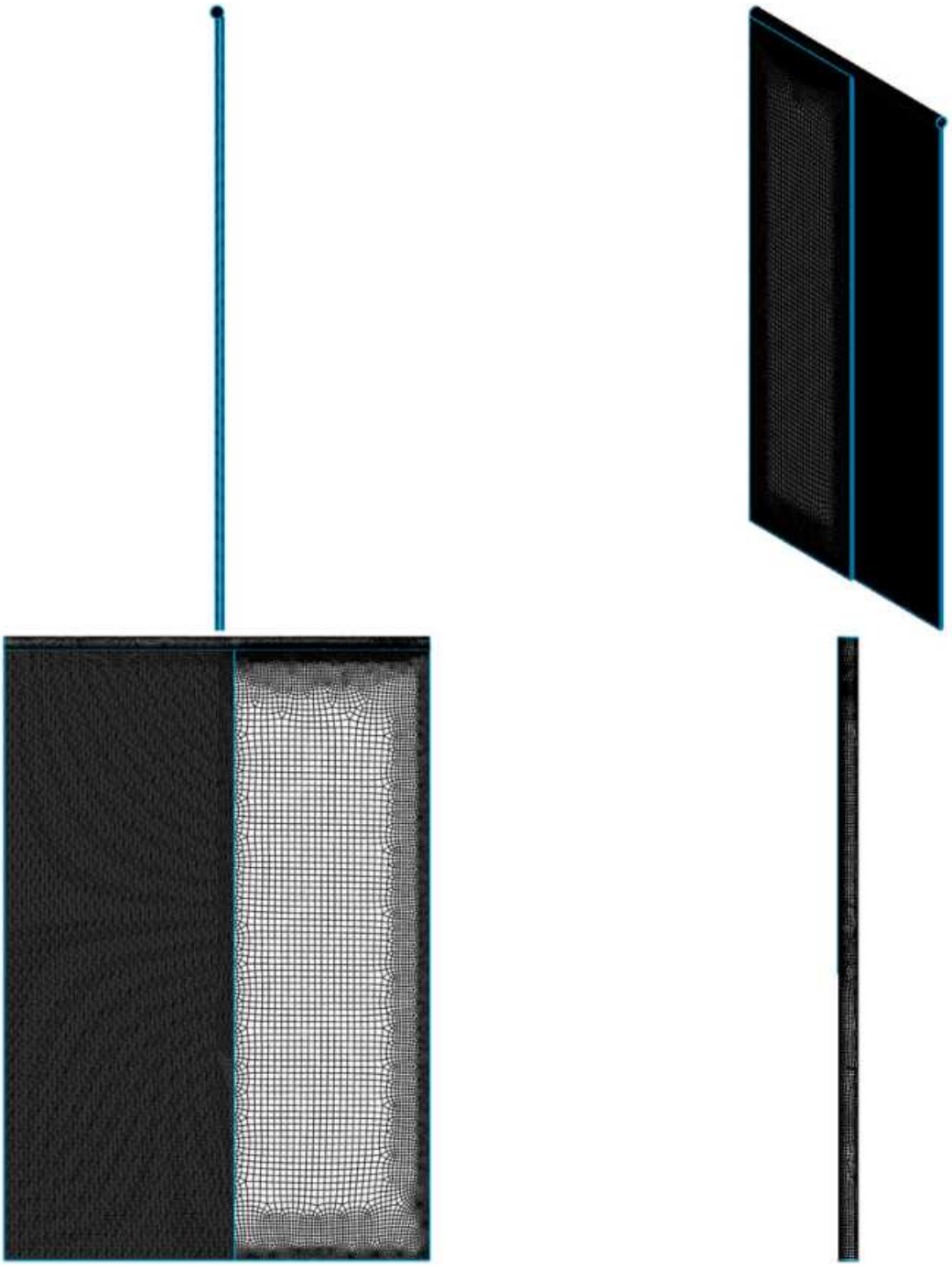


Model: 00002246 (from ABC dataset)
CAD: 19 corners, 29 curves, 12 faces
Cross field: 8 singularities detected
Timings: 17.2047 sec to generate the unstructured mesh, 535.461 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	167174	172417	2058	489
Quasi-structured	168240	173483	1651	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.621537	5.03422	29.8439	0.306736	0.972208	0.998416
Quasi-structured	0.267111	4.97623	29.1039	0.152497	0.983207	0.998428

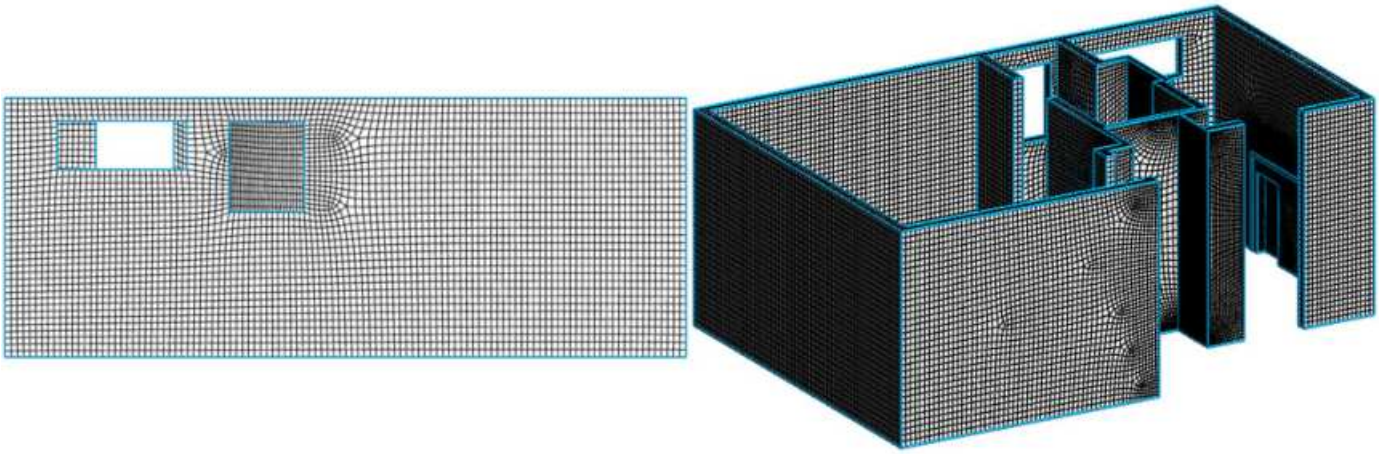


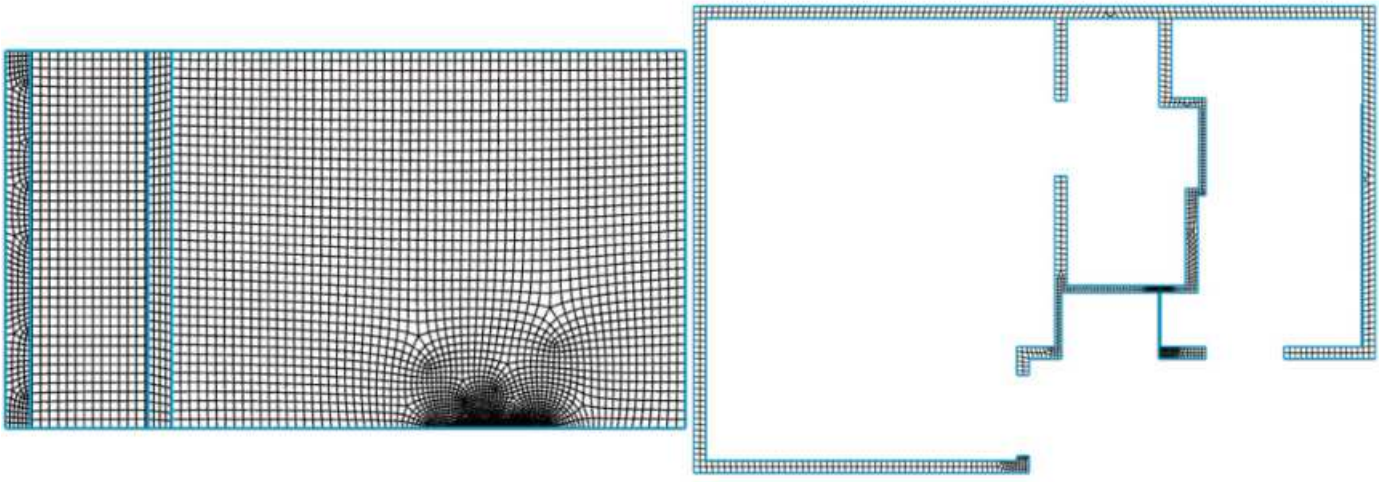
Model: 00002248 (from ABC dataset)
CAD: 192 corners, 288 curves, 106 faces
Cross field: 0 singularities detected
Timings: 20.5953 sec to generate the unstructured mesh, 192.169 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	80096	88800	2330	138
Quasi-structured	81234	89938	804	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.00955	34.852	106.205	0.214743	0.900167	0.970186
Quasi-structured	1.86378	34.7439	123.684	0.214744	0.9197	0.981713



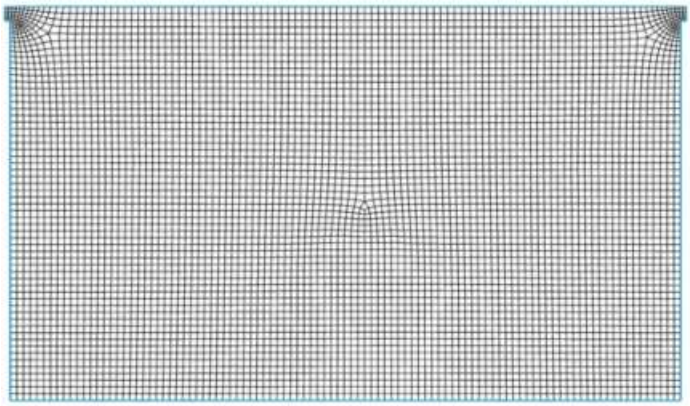


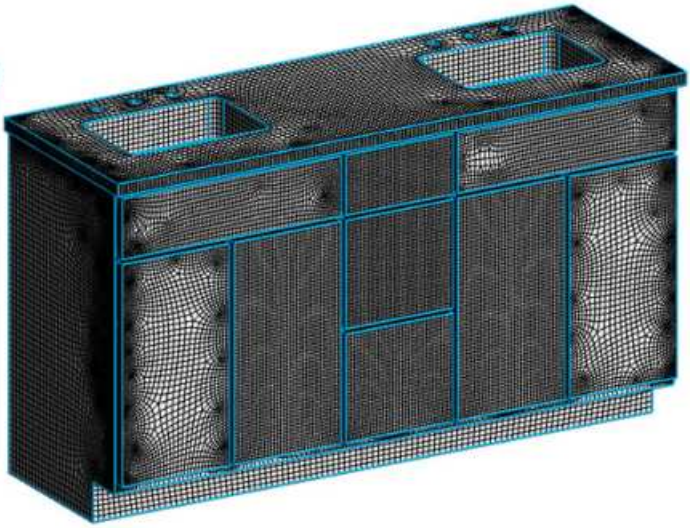
Model: 00002249 (from ABC dataset)
CAD: 144 corners, 236 curves, 97 faces
Cross field: 94 singularities detected
Timings: 17.3749 sec to generate the unstructured mesh, 83.4649 sec to make it quasi-structured
Mesh topology:

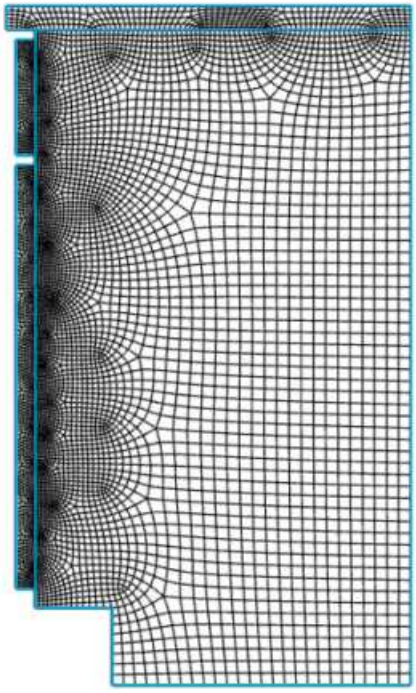
	# quads	# vertices	# irregular	# very irregular
Unstructured	61444	68698	1722	583
Quasi-structured	62814	70068	680	0

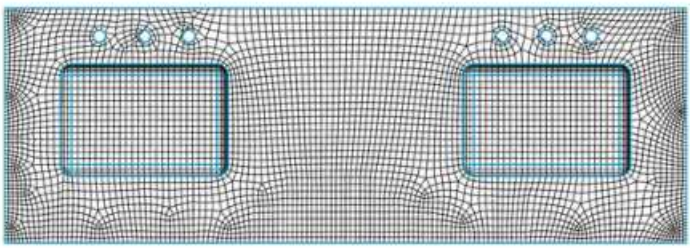
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.51132	9.4223	24.2657	0.0029397	0.958516	0.990497
Quasi-structured	0.699724	9.28521	32.6169	0.177892	0.963815	0.991571







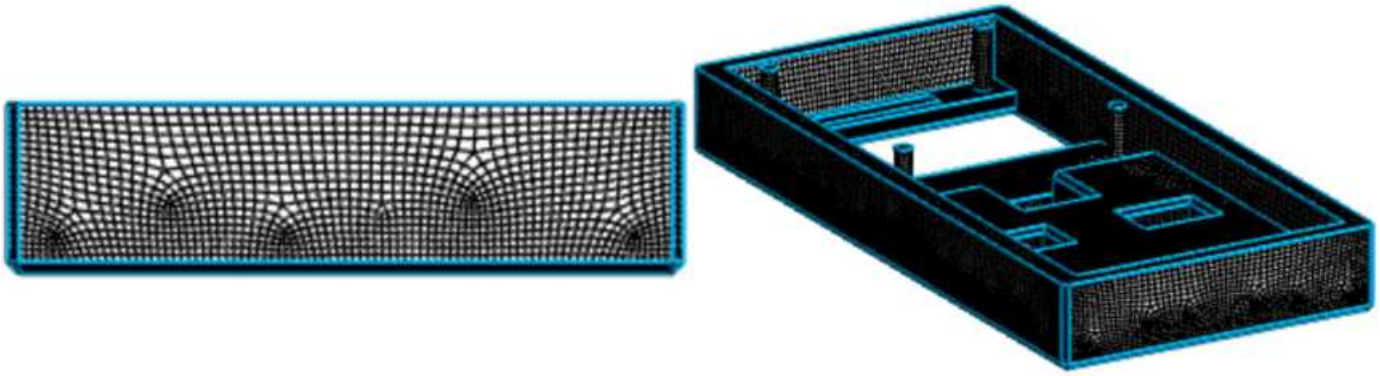


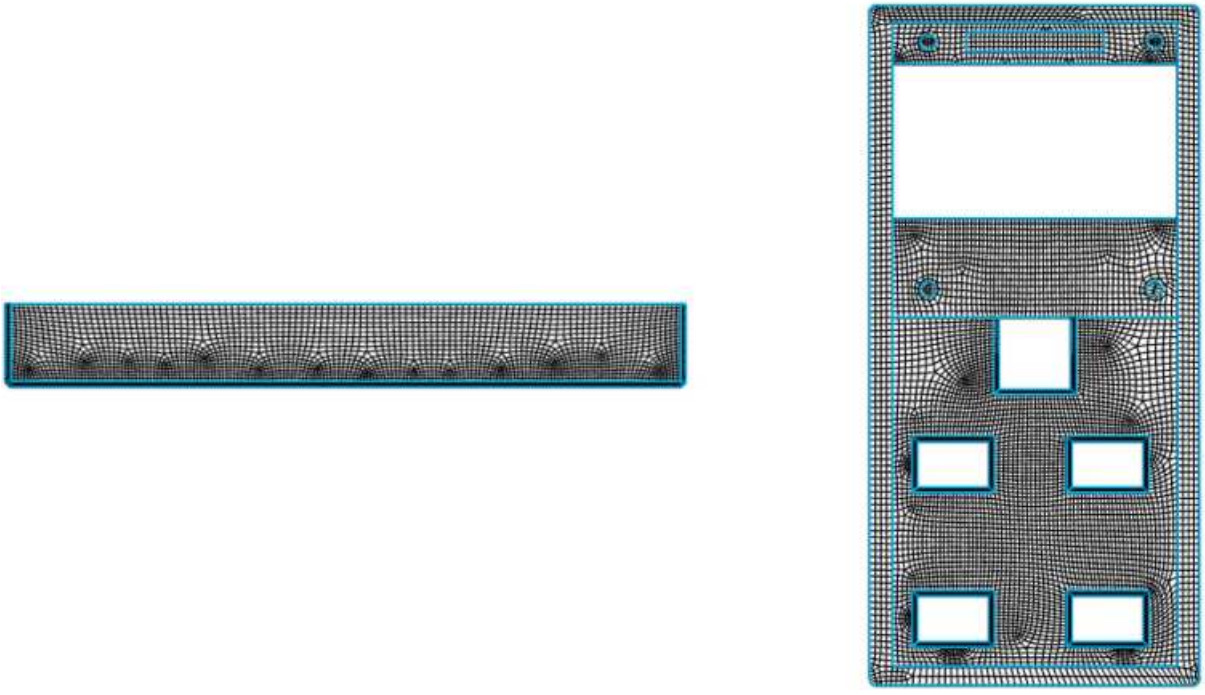
Model: 00002257 (from ABC dataset)
CAD: 142 corners, 238 curves, 102 faces
Cross field: 38 singularities detected
Timings: 14.3371 sec to generate the unstructured mesh, 45.5199 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	33954	39026	1045	103
Quasi-structured	35980	41052	338	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0822139	0.415008	0.981946	0.0416728	0.922675	0.970941
Quasi-structured	0.0895362	0.405605	1.12377	0.321121	0.936706	0.972576





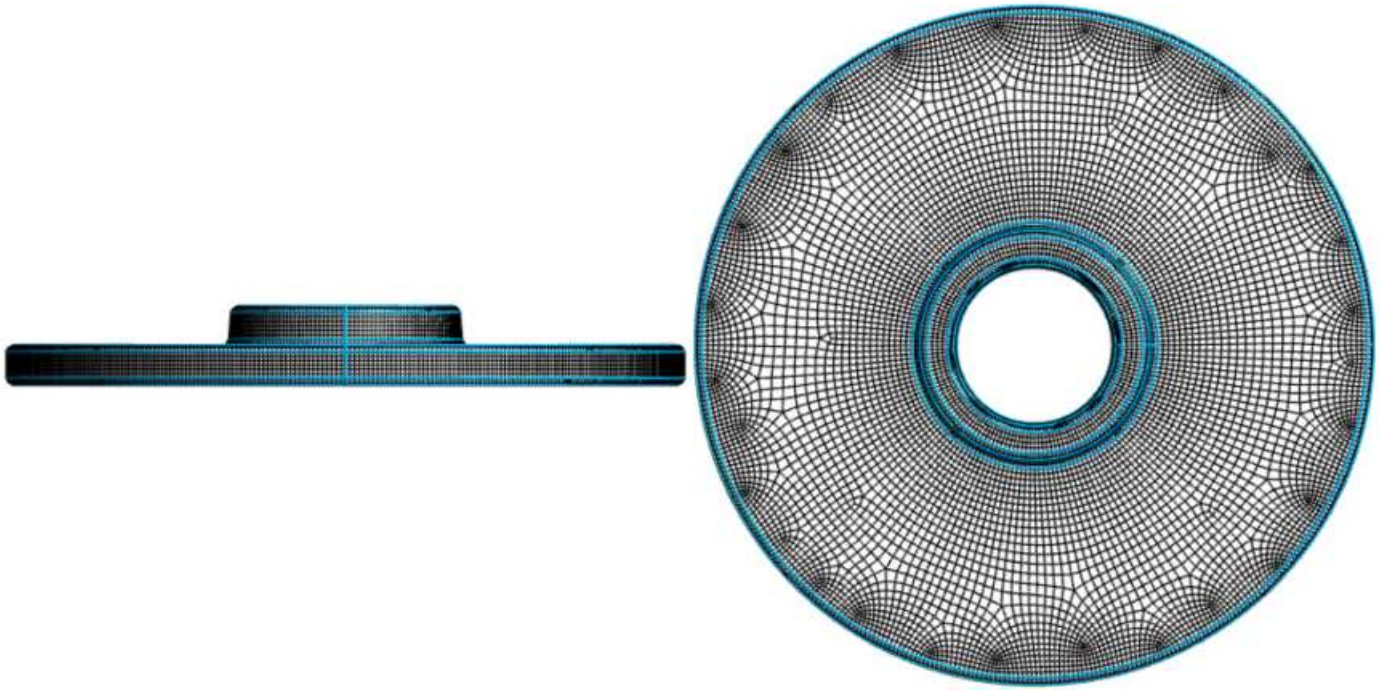
Model: 00002262 (from ABC dataset)
CAD: 14 corners, 23 curves, 12 faces
Cross field: 0 singularities detected
Timings: 6.28272 sec to generate the unstructured mesh, 46.836 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22698	25702	652	134
Quasi-structured	22634	25638	230	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.112187	0.440128	1.29214	0.482473	0.952982	0.985893
Quasi-structured	0.105177	0.436828	1.83741	0.423313	0.976475	0.988272



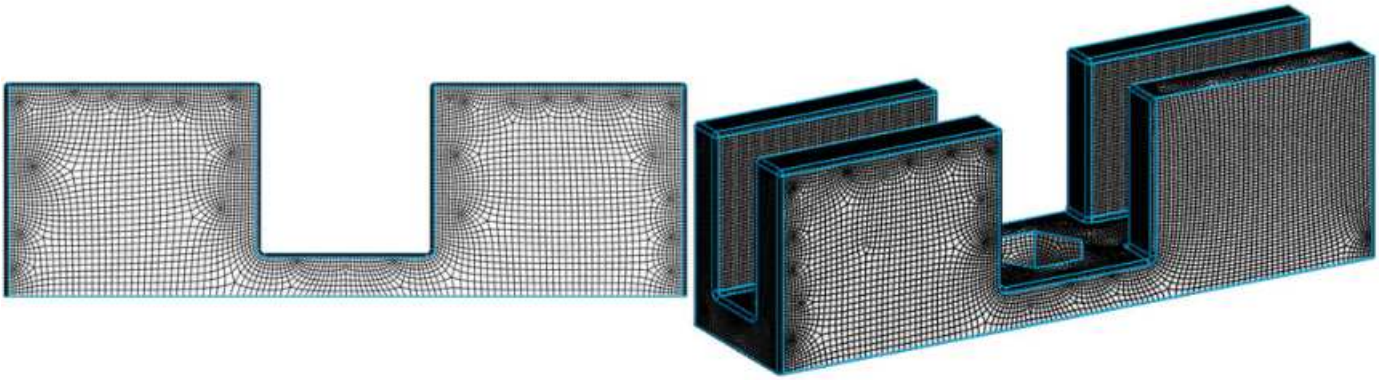


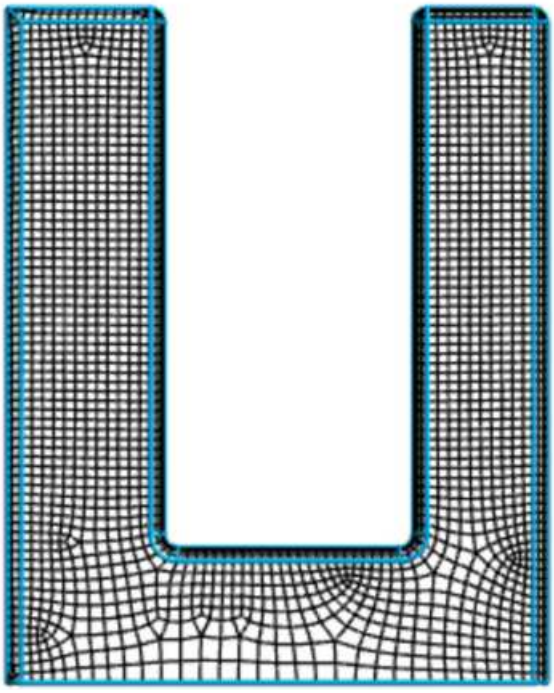
Model: 00002263 (from ABC dataset)
CAD: 120 corners, 231 curves, 99 faces
Cross field: 39 singularities detected
Timings: 16.7528 sec to generate the unstructured mesh, 25.2933 sec to make it quasi-structured
Mesh topology:

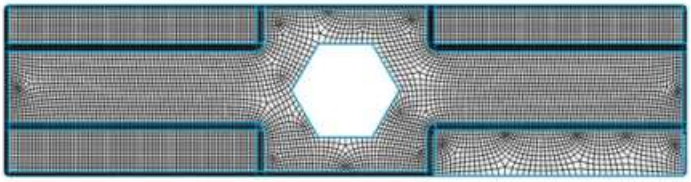
	# quads	# vertices	# irregular	# very irregular
Unstructured	55216	60753	987	70
Quasi-structured	56773	62310	320	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.11116	0.398043	1.12157	0.331536	0.955568	0.998927
Quasi-structured	0.119736	0.394754	1.67638	0.331536	0.961455	0.994928





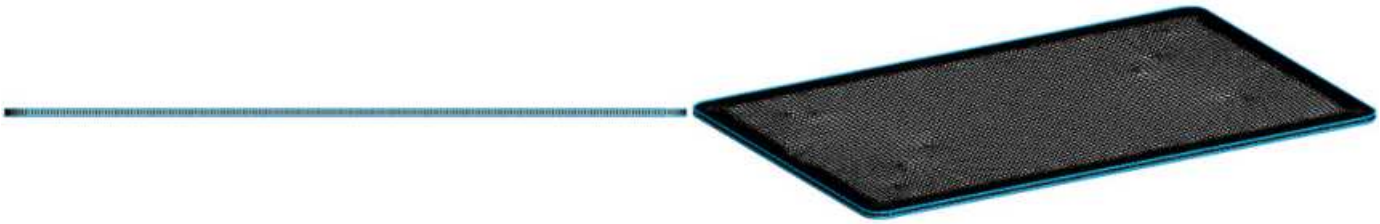


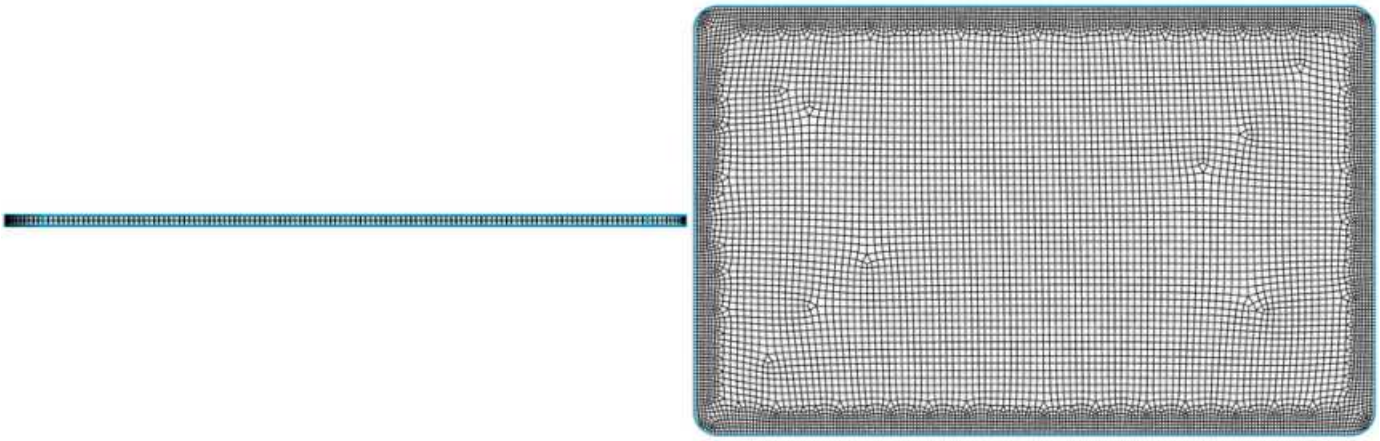
Model: 00002264 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 7.00602 sec to generate the unstructured mesh, 27.5223 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21332	22726	596	70
Quasi-structured	21337	22731	372	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.181403	0.638168	1.27878	0.130527	0.956925	0.990254
Quasi-structured	0.165429	0.632666	1.45461	0.71288	0.984034	0.995241



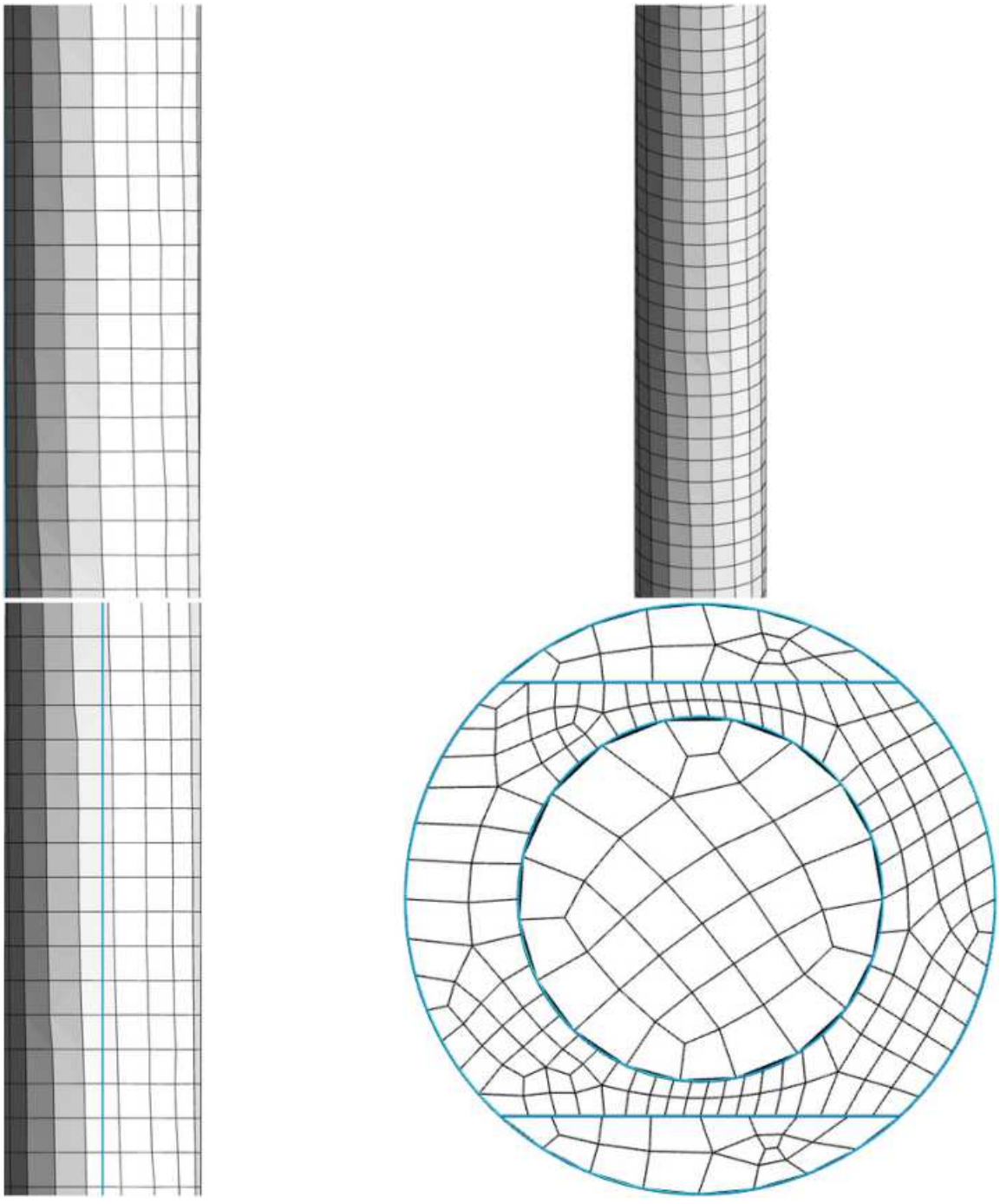


Model: 00002275 (from ABC dataset)
CAD: 14 corners, 21 curves, 11 faces
Cross field: 12 singularities detected
Timings: 2.15224 sec to generate the unstructured mesh, 4.01393 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6204	6698	299	171
Quasi-structured	6375	6869	92	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.150625	0.834619	1.79605	0.110637	0.945729	0.985619
Quasi-structured	0.126366	0.823352	2.60614	0.563288	0.973473	0.988377

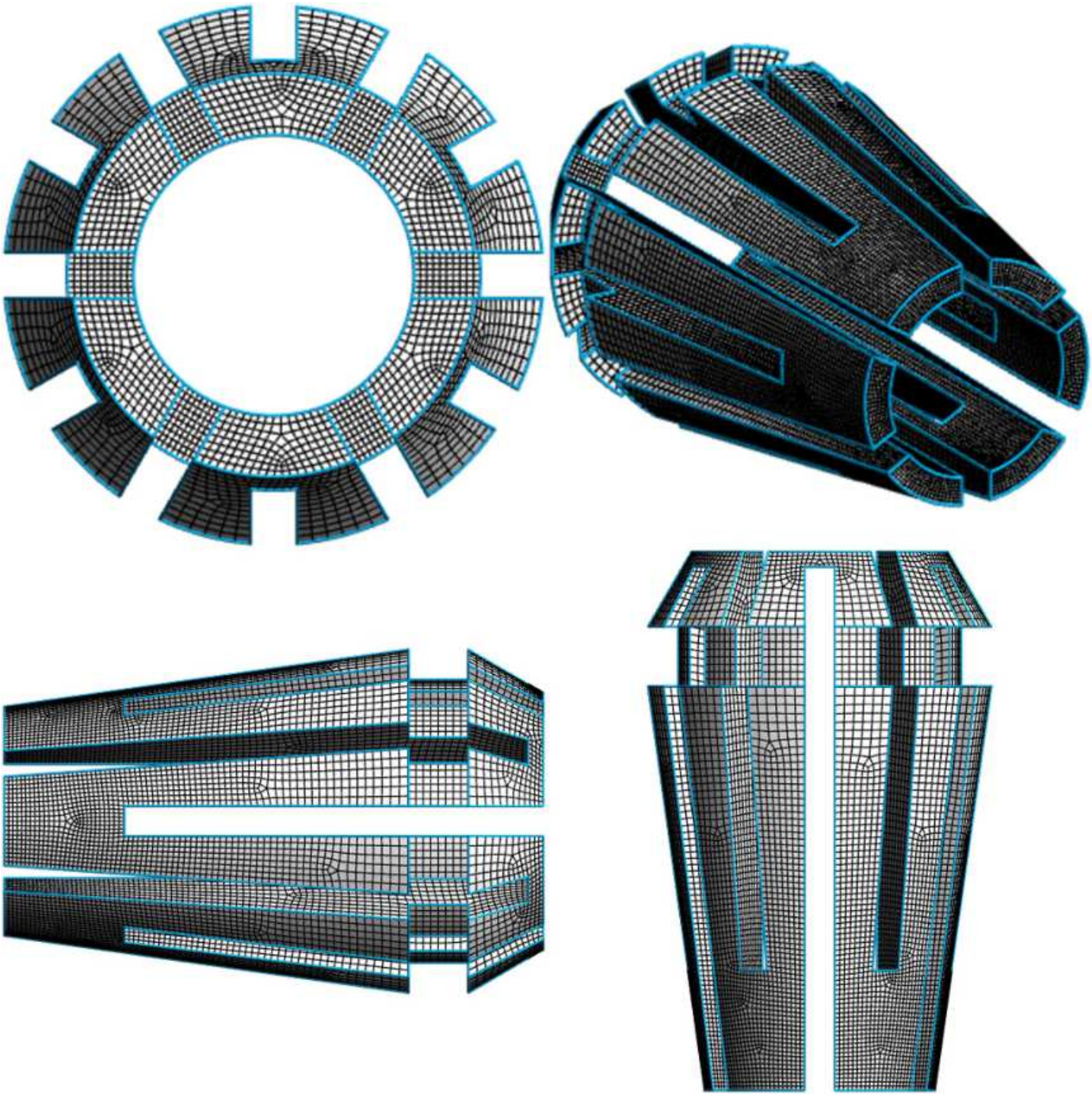


Model: 00002277 (from ABC dataset)
CAD: 193 corners, 290 curves, 97 faces
Cross field: 0 singularities detected
Timings: 18.5444 sec to generate the unstructured mesh, 3.837 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32106	37374	625	7
Quasi-structured	33959	39227	162	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0471877	0.200057	0.408989	0.370334	0.96225	0.988561
Quasi-structured	0.0503239	0.194994	0.388591	0.644008	0.97238	0.990364

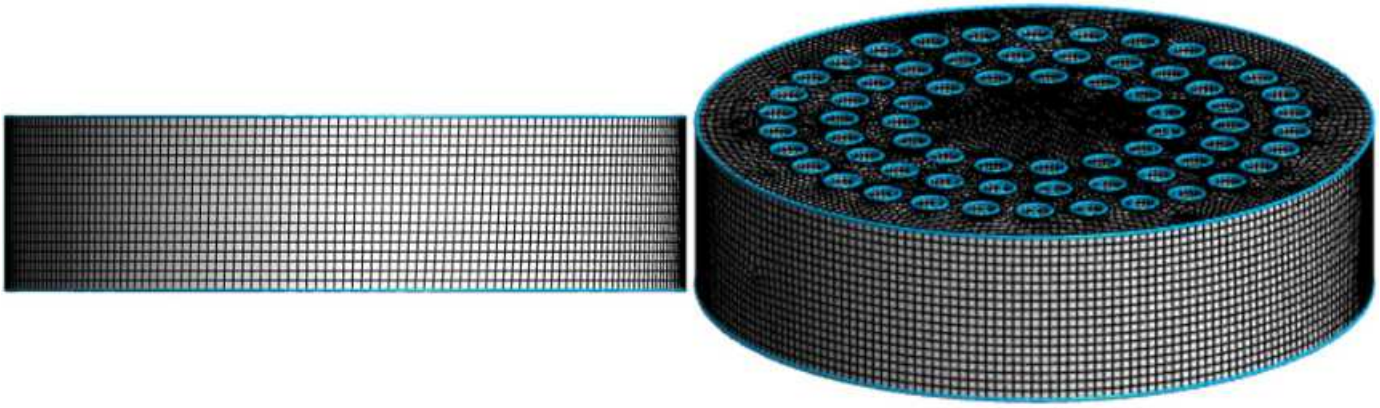


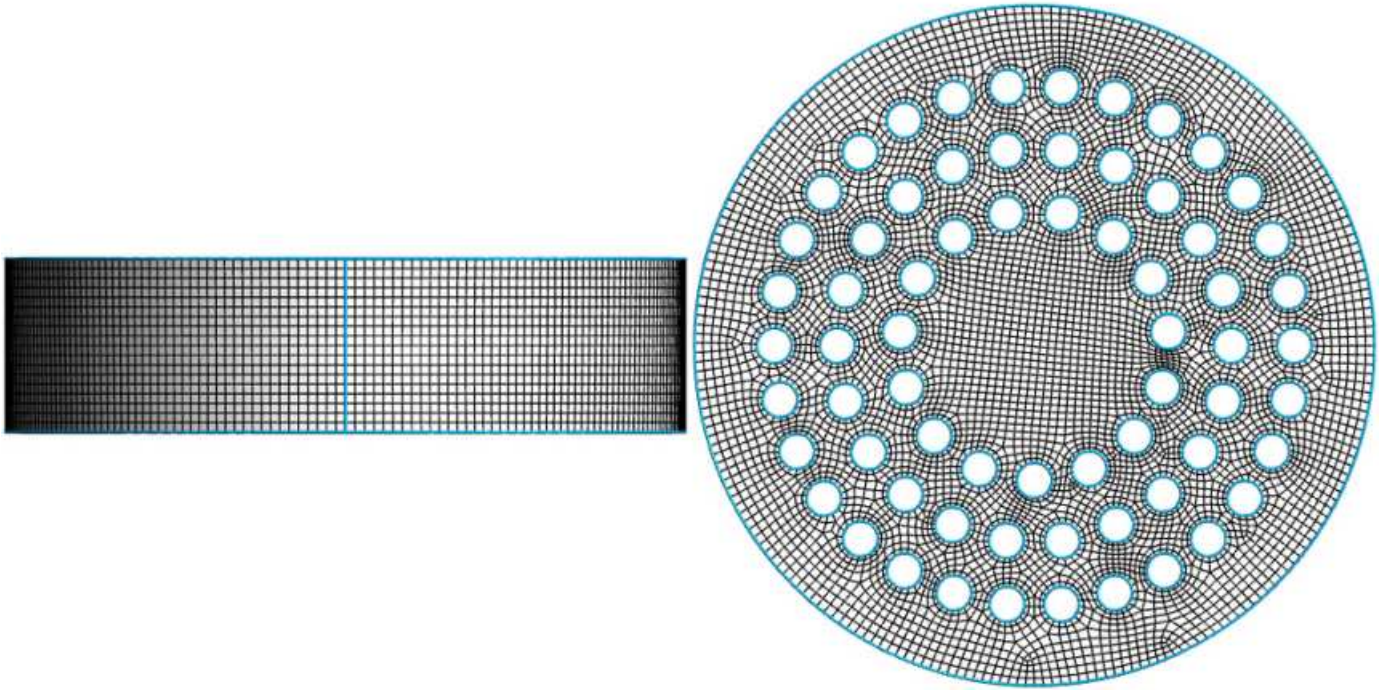
Model: 00002286 (from ABC dataset)
CAD: 136 corners, 204 curves, 70 faces
Cross field: 528 singularities detected
Timings: 35.2195 sec to generate the unstructured mesh, 7.77242 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	58144	61212	1308	2195
Quasi-structured	59063	62131	684	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0283317	0.112031	0.252216	0.191433	0.967663	0.997186
Quasi-structured	0.0428766	0.110745	0.316037	0.480092	0.984446	0.998419



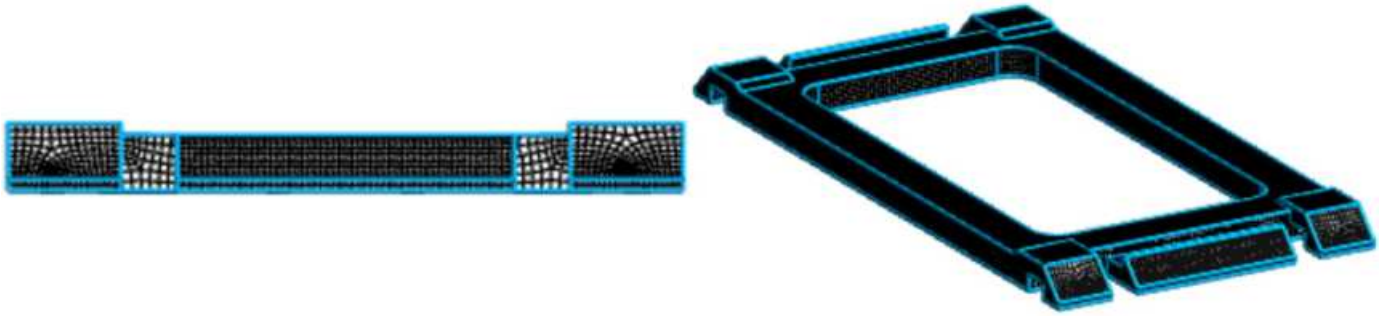


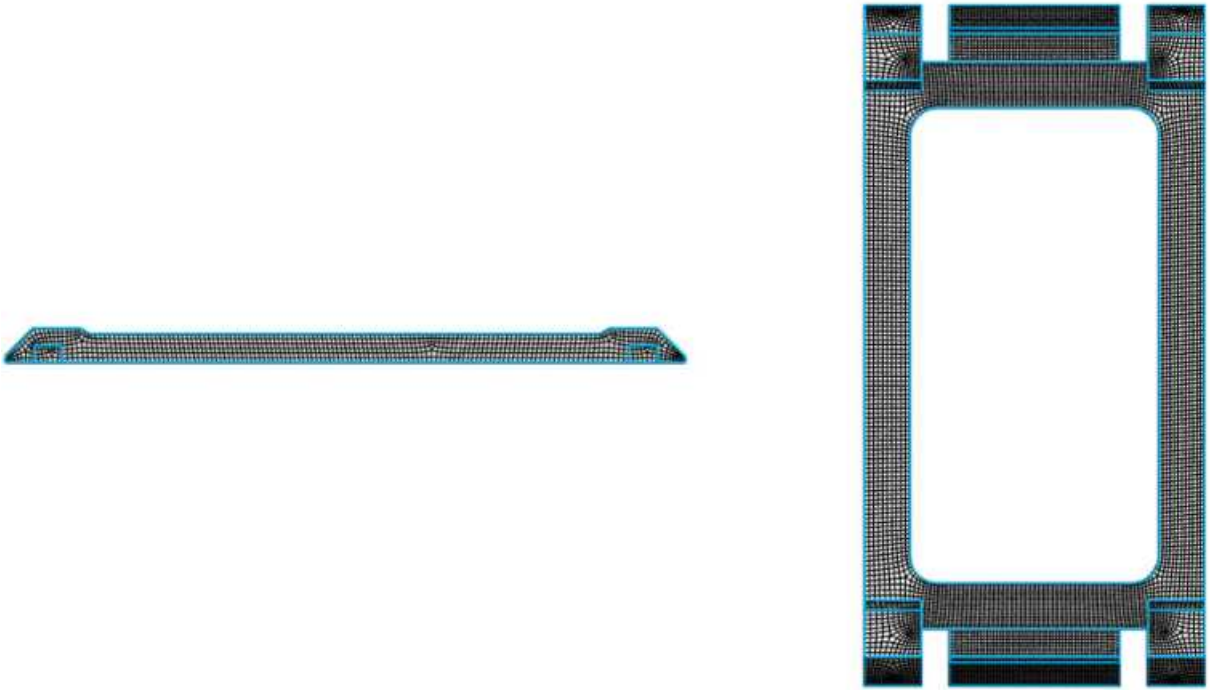
Model: 00002287 (from ABC dataset)
CAD: 164 corners, 246 curves, 108 faces
Cross field: 216 singularities detected
Timings: 15.1426 sec to generate the unstructured mesh, 7.73699 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20760	24474	783	98
Quasi-structured	21874	25588	453	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.166329	0.706519	1.50079	0.0668514	0.952637	0.985398
Quasi-structured	0.120986	0.686365	1.88587	0.224594	0.958338	0.985049



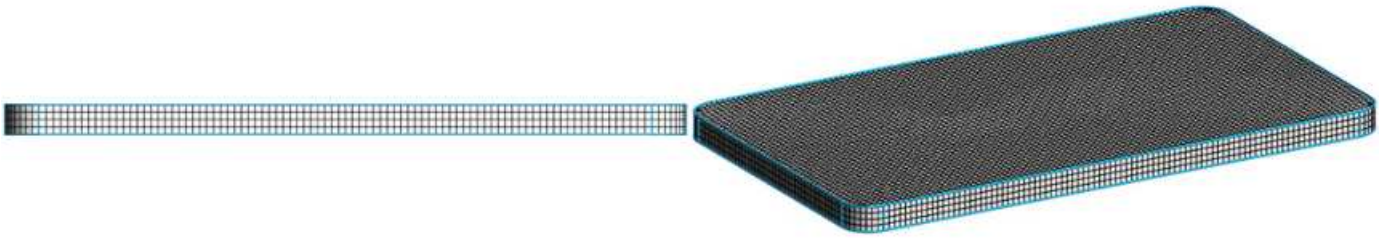


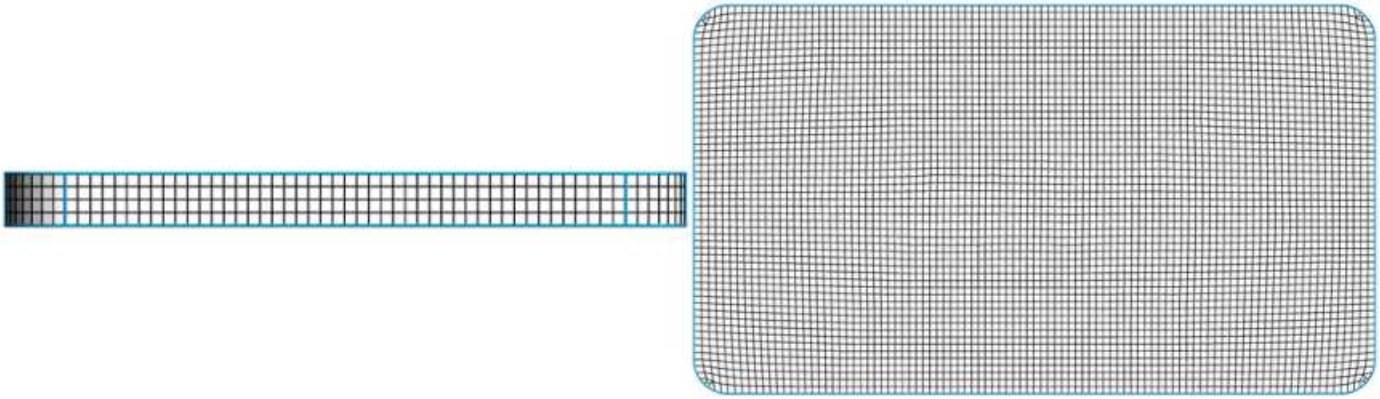
Model: 00002290 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 9.23014 sec to generate the unstructured mesh, 1.48333 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11568	12210	8	0
Quasi-structured	11584	12226	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.91778	2.09717	3.02997	0.19243	0.99402	0.9998
Quasi-structured	0.878893	2.09416	2.70985	0.684392	0.996826	0.999169



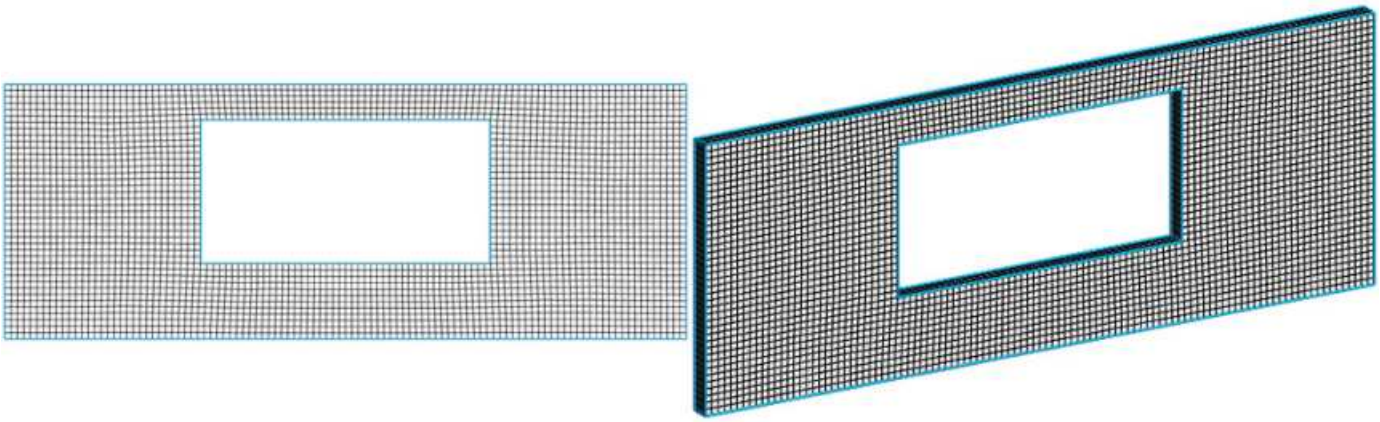


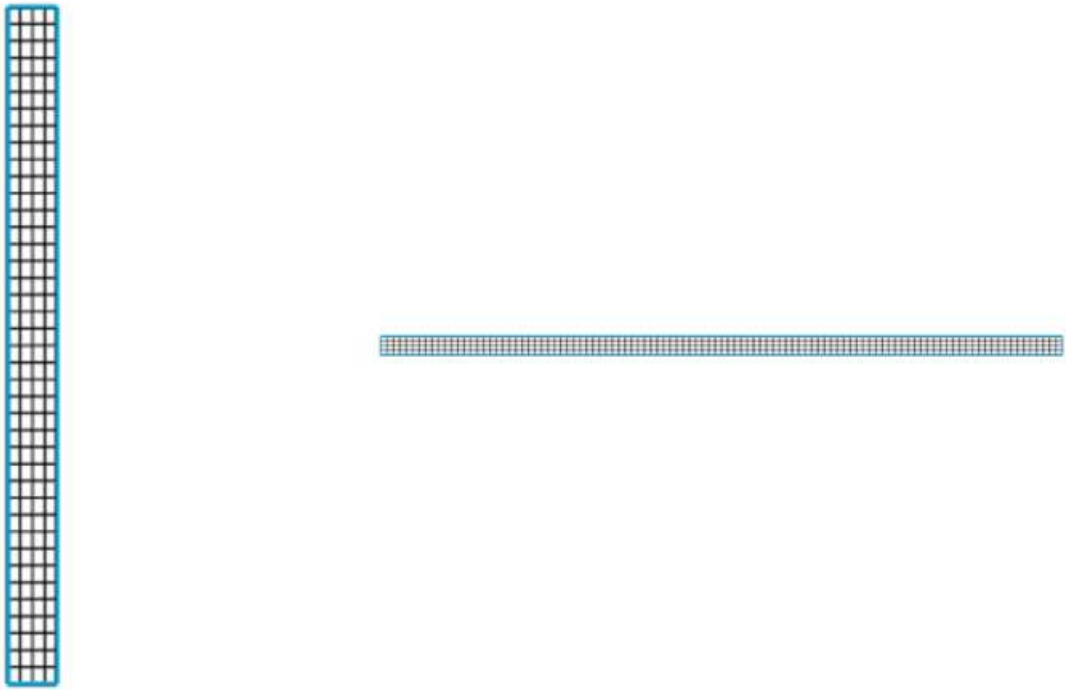
Model: 00002297 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 3.93201 sec to generate the unstructured mesh, 0.357417 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8168	9064	0	0
Quasi-structured	8168	9064	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	44.45	59.5084	73.759	0.926878	0.986143	0.999538
Quasi-structured	44.45	59.4824	68.4307	0.945376	0.988929	0.999243



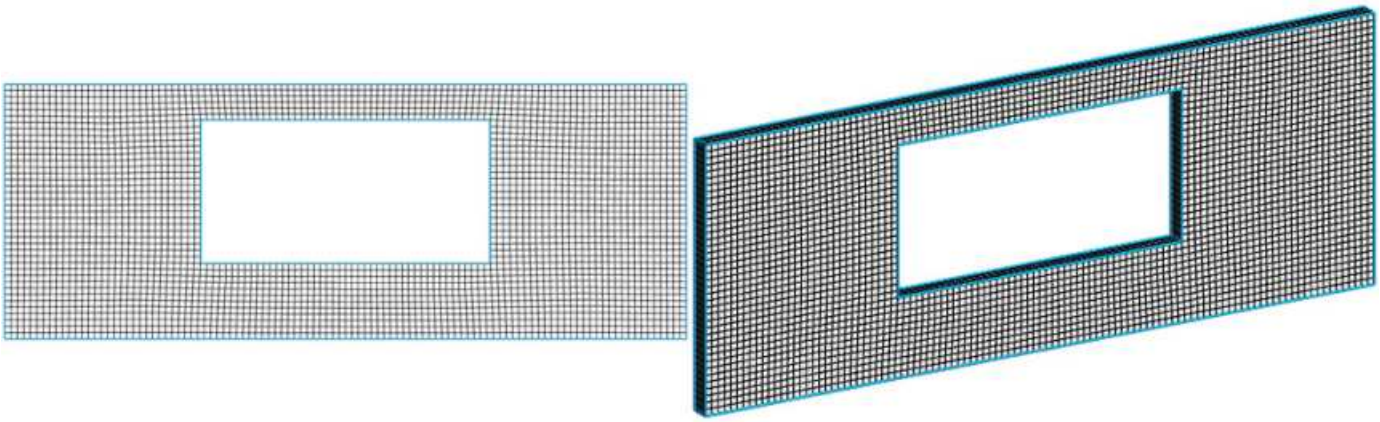


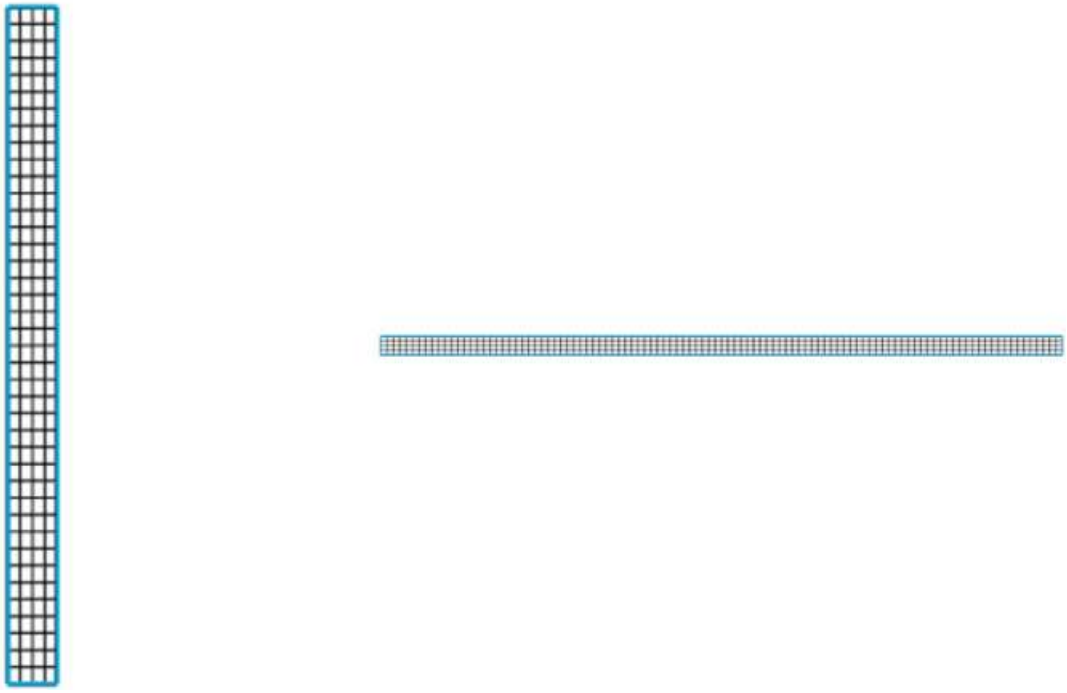
Model: 00002298 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 4.84939 sec to generate the unstructured mesh, 0.54971 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8168	9064	0	0
Quasi-structured	8168	9064	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	44.45	59.5092	73.7592	0.926331	0.986067	0.999454
Quasi-structured	44.45	59.4827	68.5274	0.945376	0.988902	0.999243



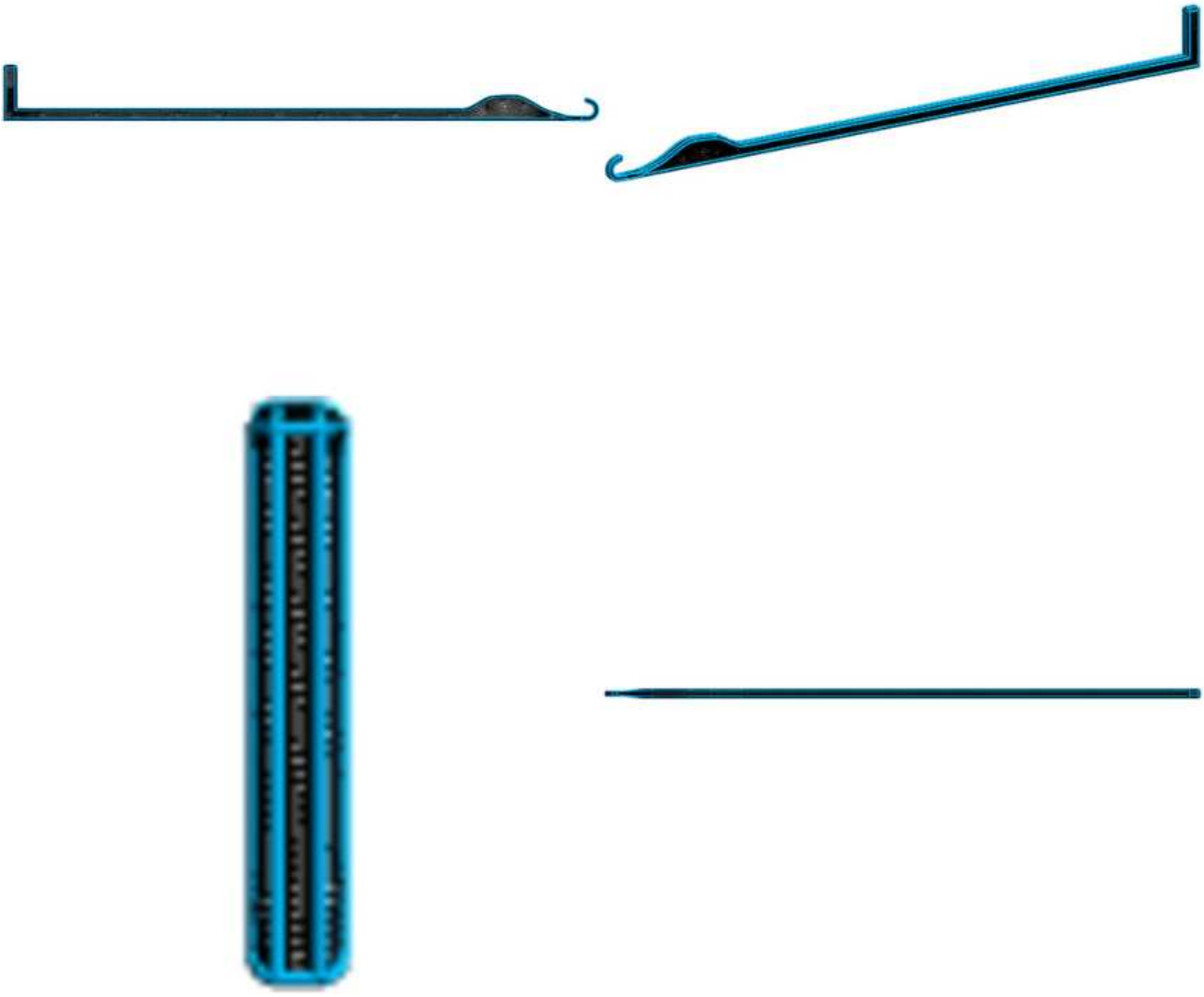


Model: 00002301 (from ABC dataset)
CAD: 90 corners, 152 curves, 60 faces
Cross field: 30 singularities detected
Timings: 4.9379 sec to generate the unstructured mesh, 53.4409 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23334	29062	1197	53
Quasi-structured	25580	31308	358	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00261306	0.266239	0.669648	0.00985899	0.90965	0.945472
Quasi-structured	0.0014606	0.257537	0.966623	0.00985899	0.895731	0.922997

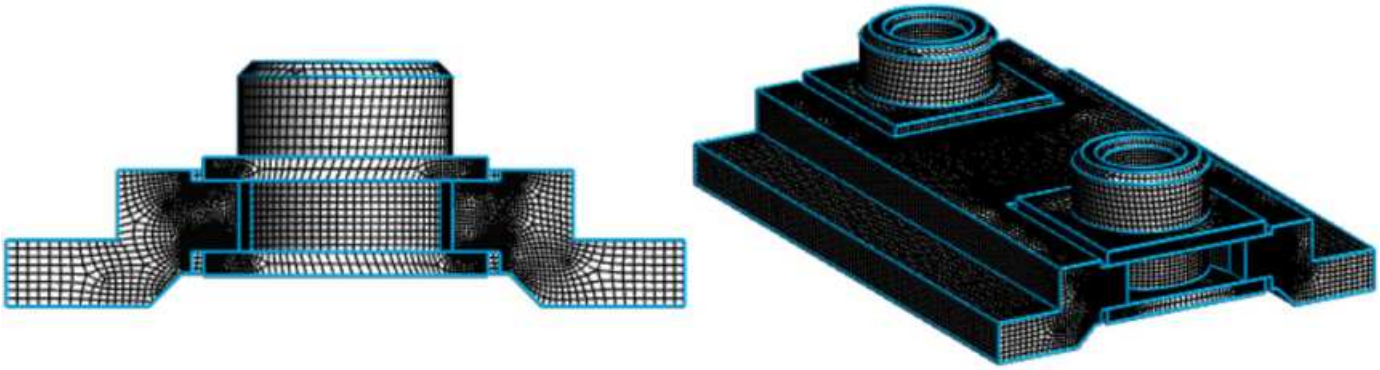


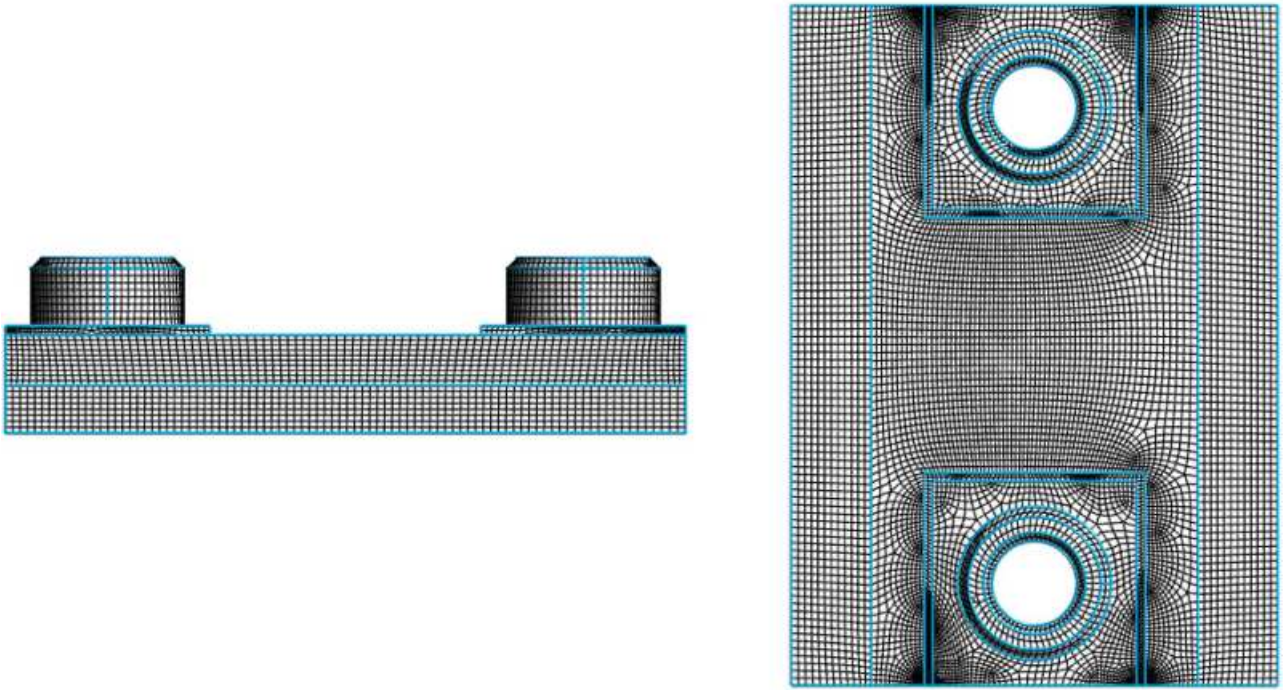
Model: 00002306 (from ABC dataset)
CAD: 130 corners, 204 curves, 78 faces
Cross field: 29 singularities detected
Timings: 16.3167 sec to generate the unstructured mesh, 93.2023 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	45608	52266	2532	160
Quasi-structured	47955	54613	895	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	8.67552e-05	0.130846	0.360586	4.50399e-05	0.928857	0.974591
Quasi-structured	8.67552e-05	0.129679	0.418578	4.50399e-05	0.914756	0.963558



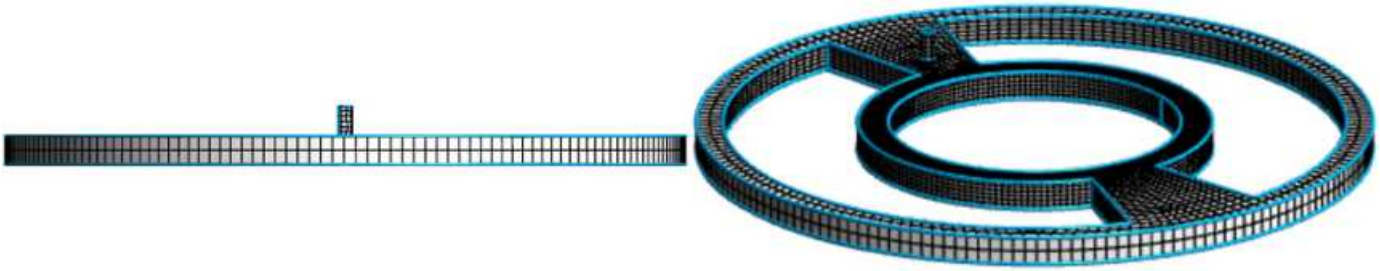


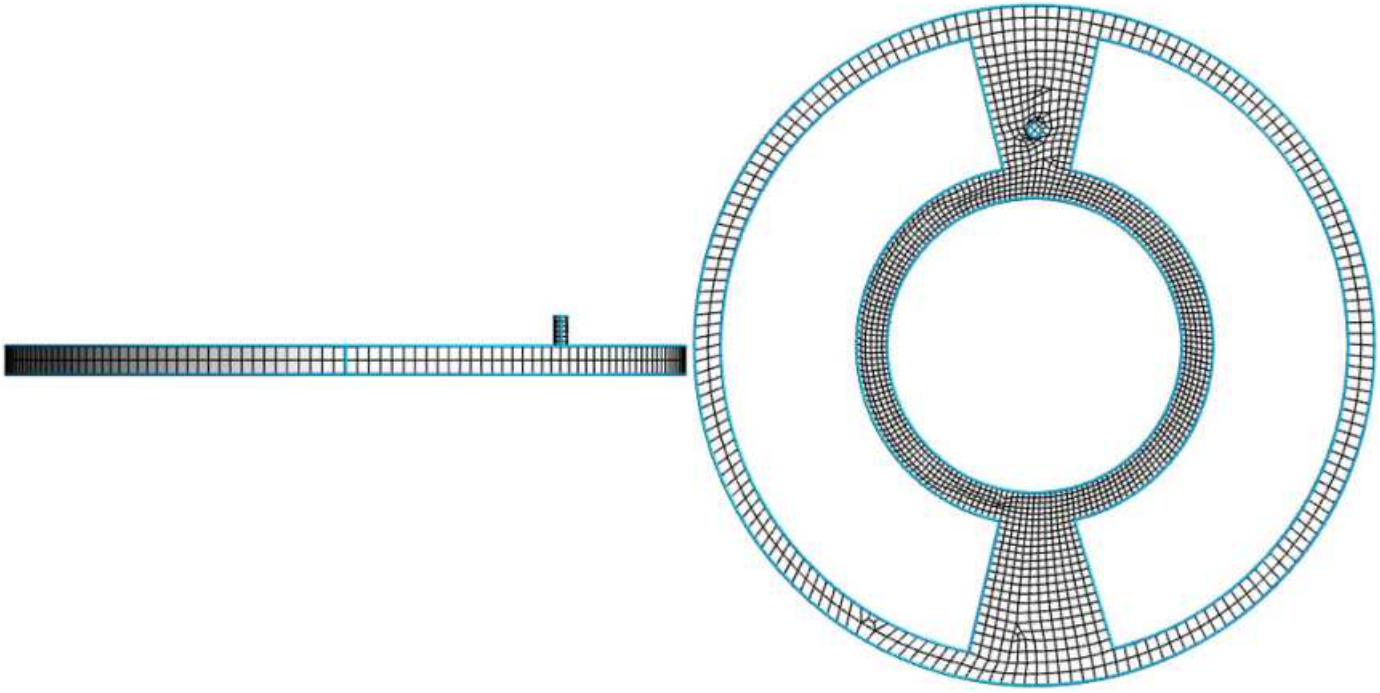
Model: 00002317 (from ABC dataset)
CAD: 22 corners, 33 curves, 14 faces
Cross field: 8 singularities detected
Timings: 3.1821 sec to generate the unstructured mesh, 0.510188 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6972	8492	79	17
Quasi-structured	7248	8768	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.240427	0.827824	1.62151	0.278657	0.917576	0.952494
Quasi-structured	0.121326	0.807014	1.85971	0.218041	0.933481	0.977607



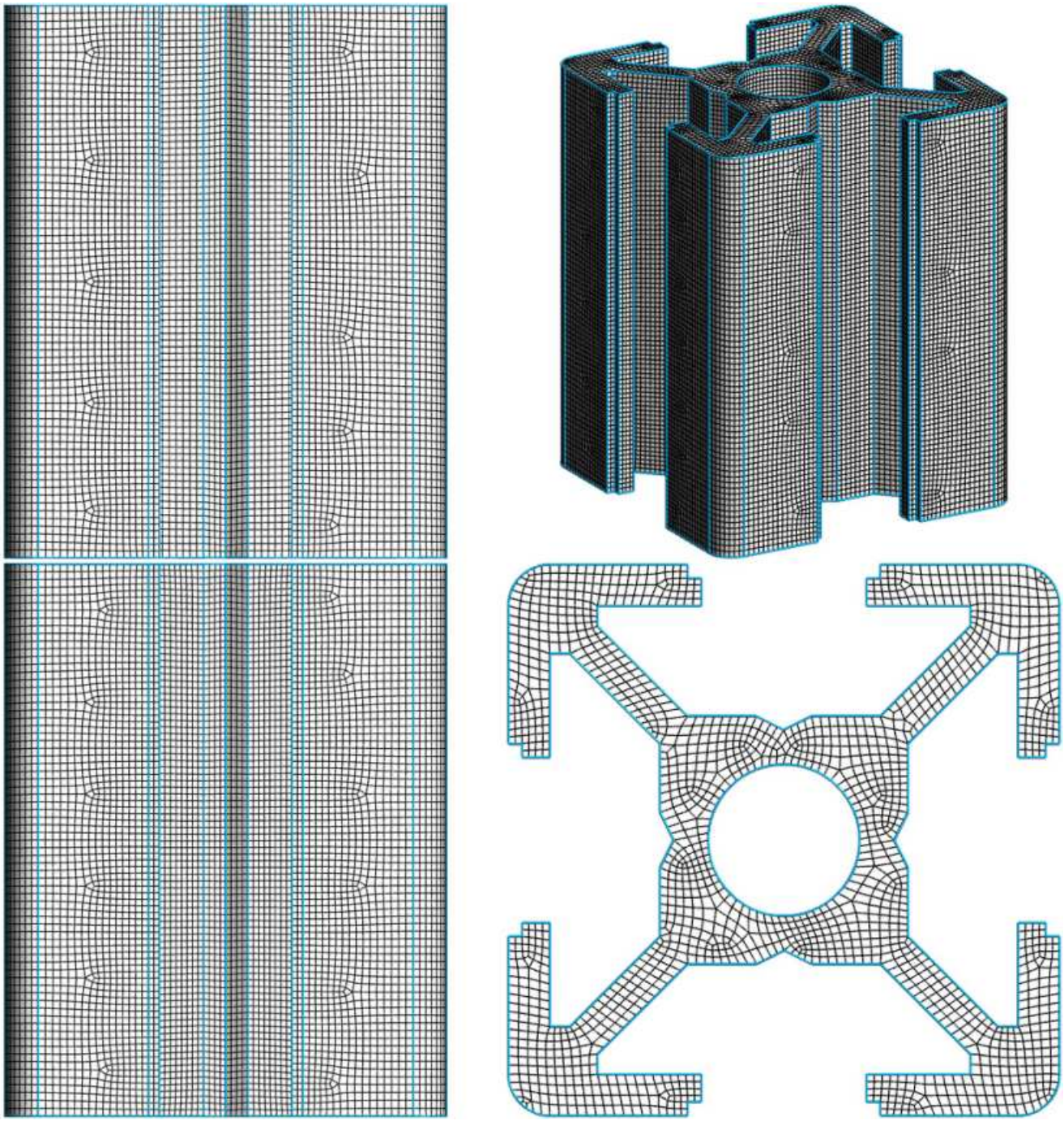


Model: 00002320 (from ABC dataset)
CAD: 154 corners, 231 curves, 79 faces
Cross field: 38 singularities detected
Timings: 37.5027 sec to generate the unstructured mesh, 7.56353 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	54528	62038	337	100
Quasi-structured	54431	61941	218	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.096951	0.30072	0.556333	0.18821	0.983967	0.994509
Quasi-structured	0.102675	0.300792	0.760514	0.579671	0.98961	0.996738

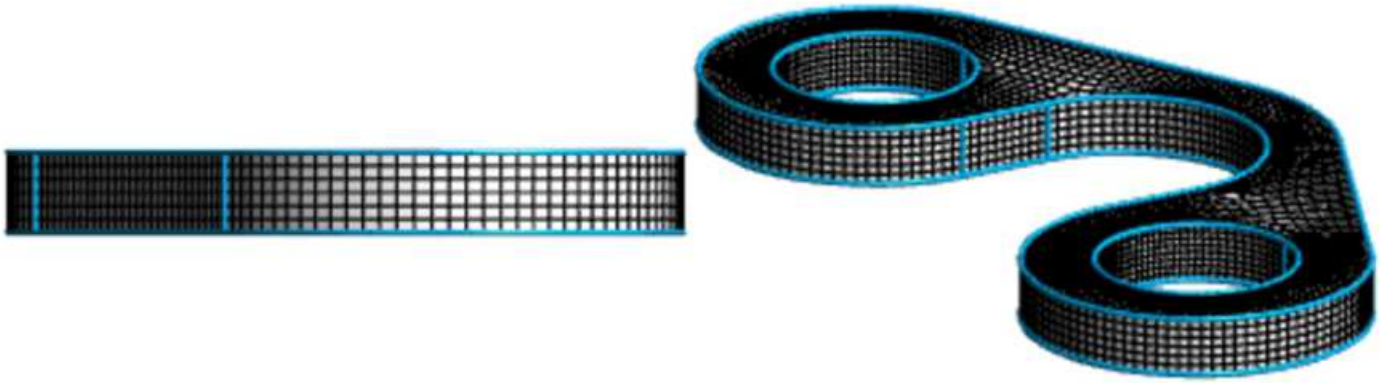


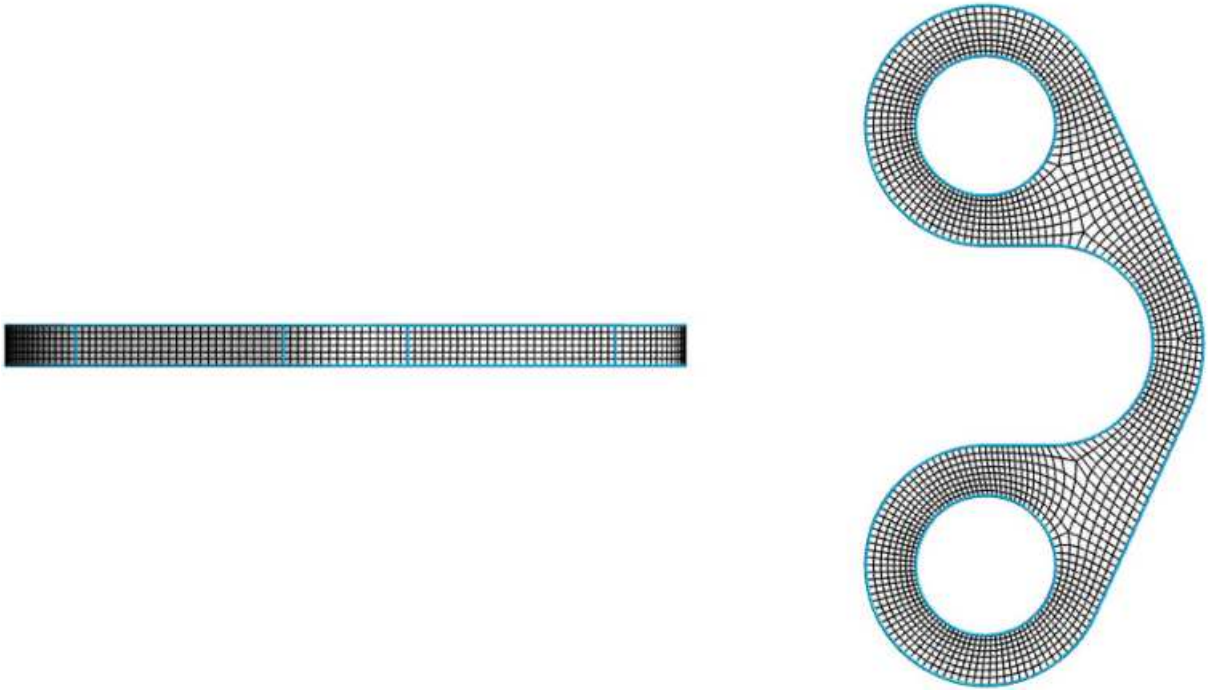
Model: 00002338 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 8 singularities detected
Timings: 3.43789 sec to generate the unstructured mesh, 0.812064 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6700	7642	88	14
Quasi-structured	6630	7572	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0866334	0.260944	0.597523	0.513391	0.976794	0.989408
Quasi-structured	0.171785	0.26255	0.886571	0.433869	0.978176	0.989522



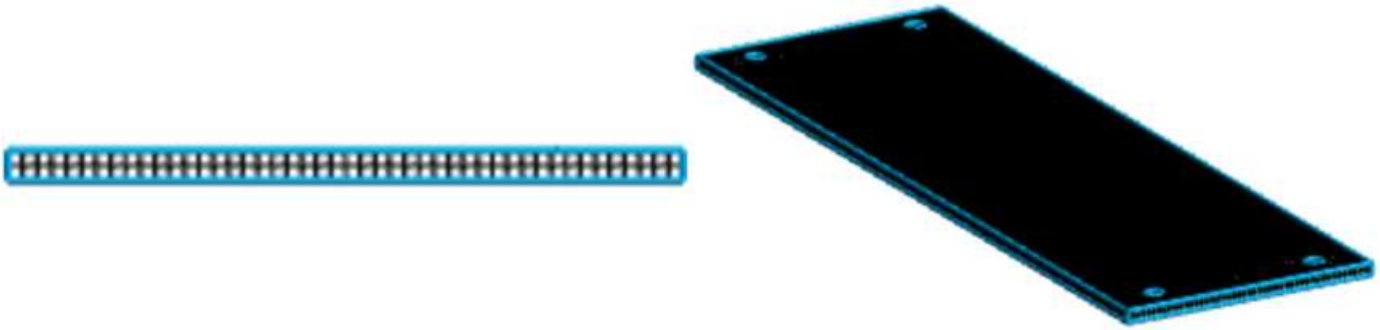


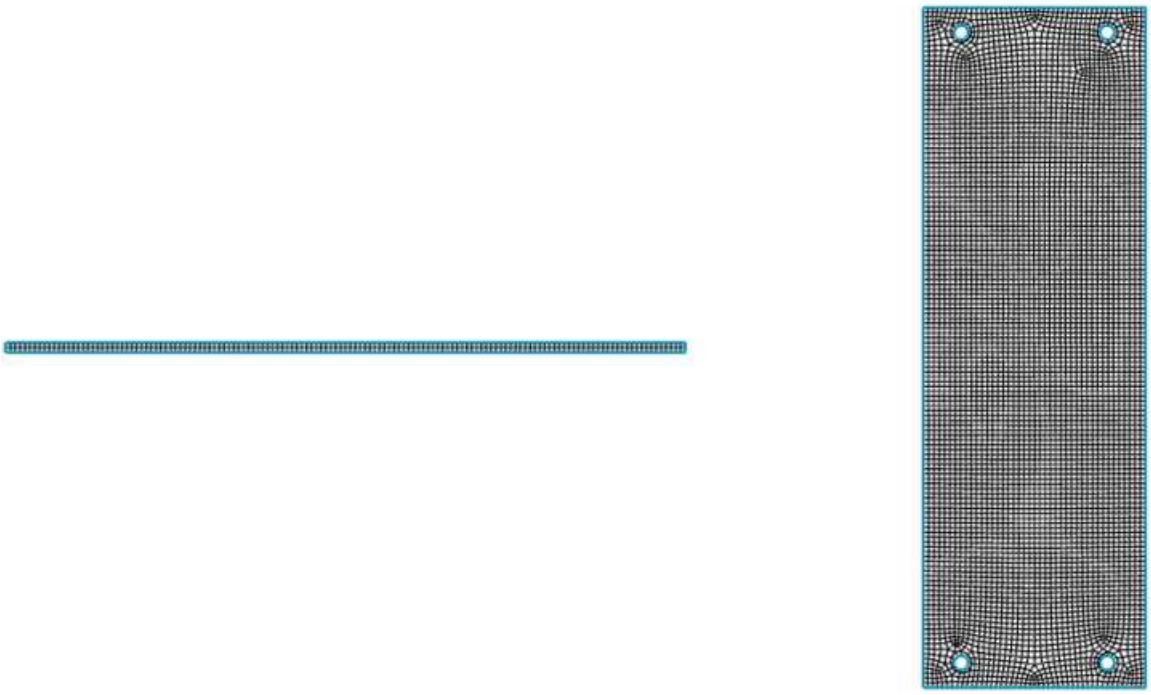
Model: 00002346 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 32 singularities detected
Timings: 9.15728 sec to generate the unstructured mesh, 8.22453 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12498	13344	160	30
Quasi-structured	12491	13337	84	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.327546	1.04424	1.63674	0.520529	0.977544	0.992766
Quasi-structured	0.242171	1.04142	1.76641	0.658196	0.990904	0.996304



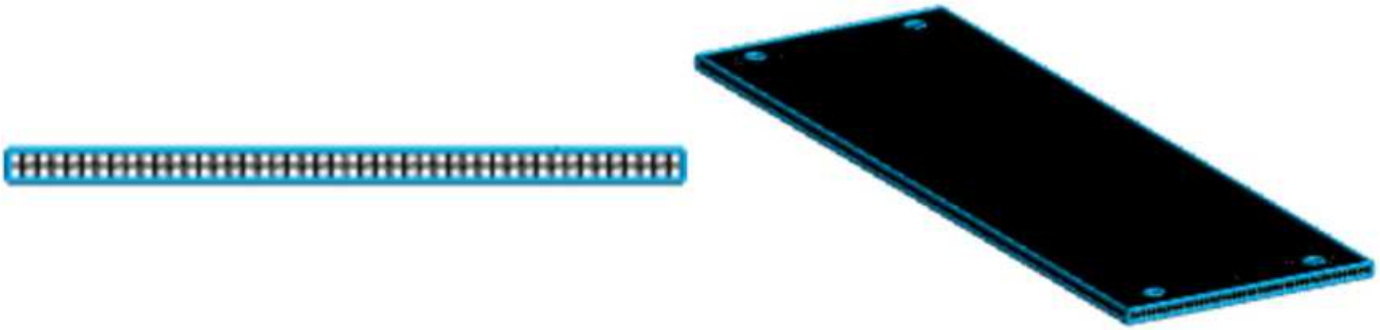


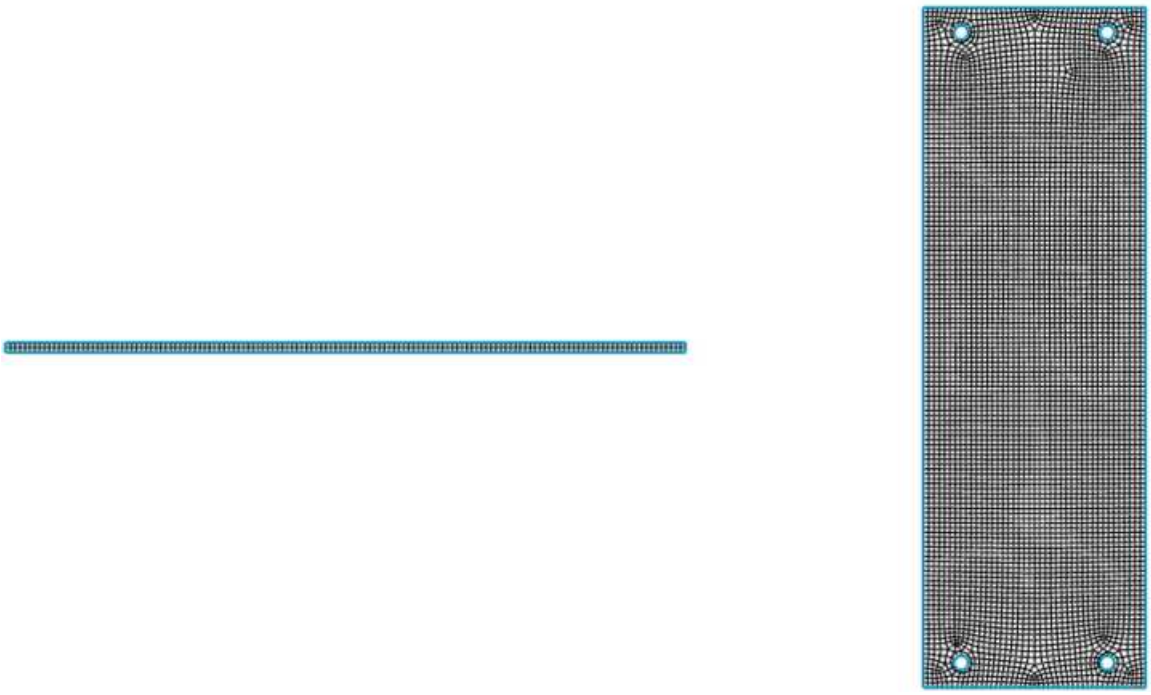
Model: 00002347 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 32 singularities detected
Timings: 8.92637 sec to generate the unstructured mesh, 6.30416 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12500	13346	156	30
Quasi-structured	12491	13337	86	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.327546	1.04416	1.67186	0.520529	0.97797	0.992764
Quasi-structured	0.242167	1.04153	1.72777	0.653422	0.990927	0.996277



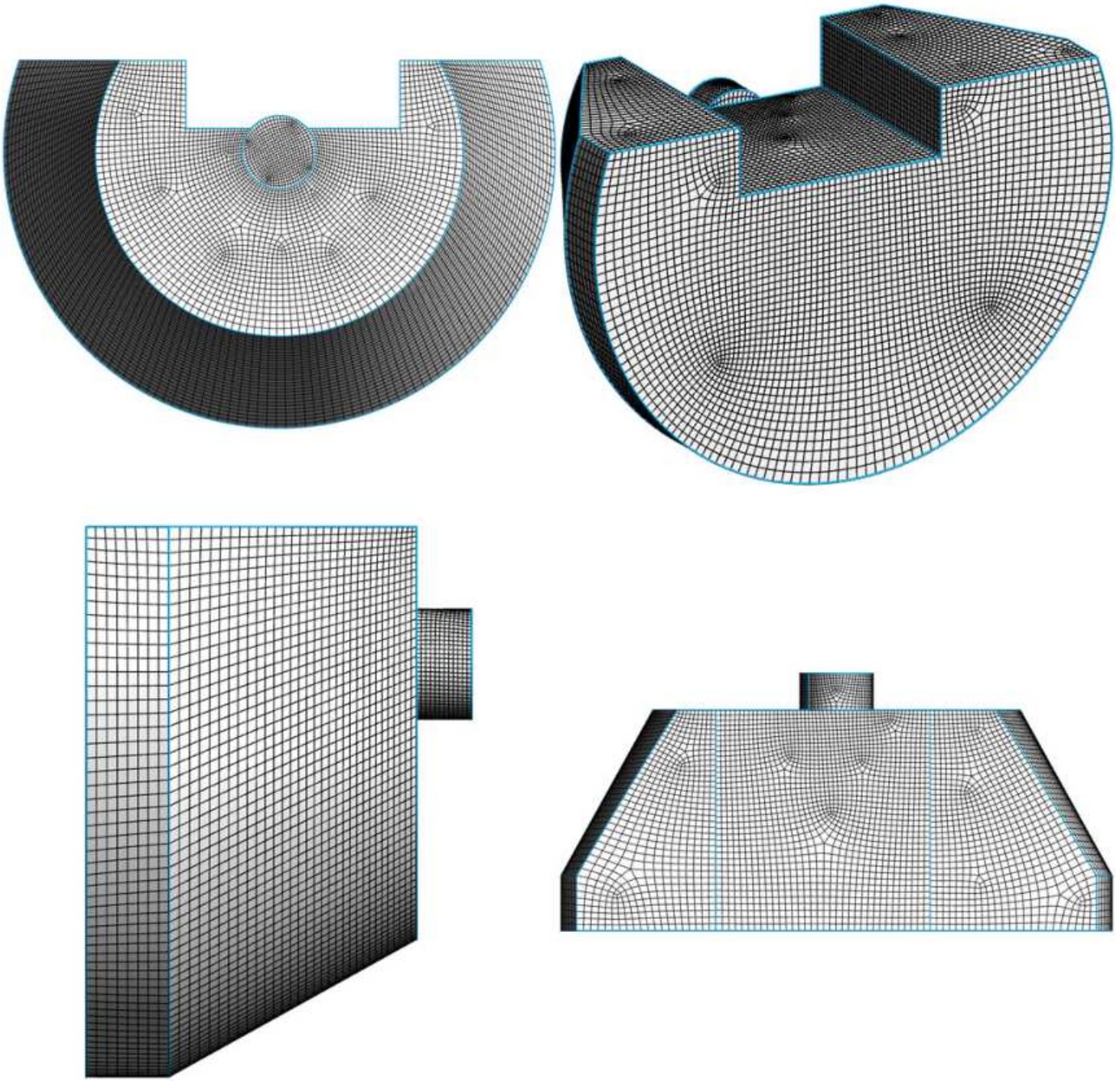


Model: 00002358 (from ABC dataset)
CAD: 18 corners, 28 curves, 12 faces
Cross field: 6 singularities detected
Timings: 10.7083 sec to generate the unstructured mesh, 3.2412 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15242	16179	183	20
Quasi-structured	15334	16271	52	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0596294	0.330682	0.648406	0.483911	0.960179	0.983134
Quasi-structured	0.0700142	0.328953	0.742133	0.6732	0.973862	0.99355

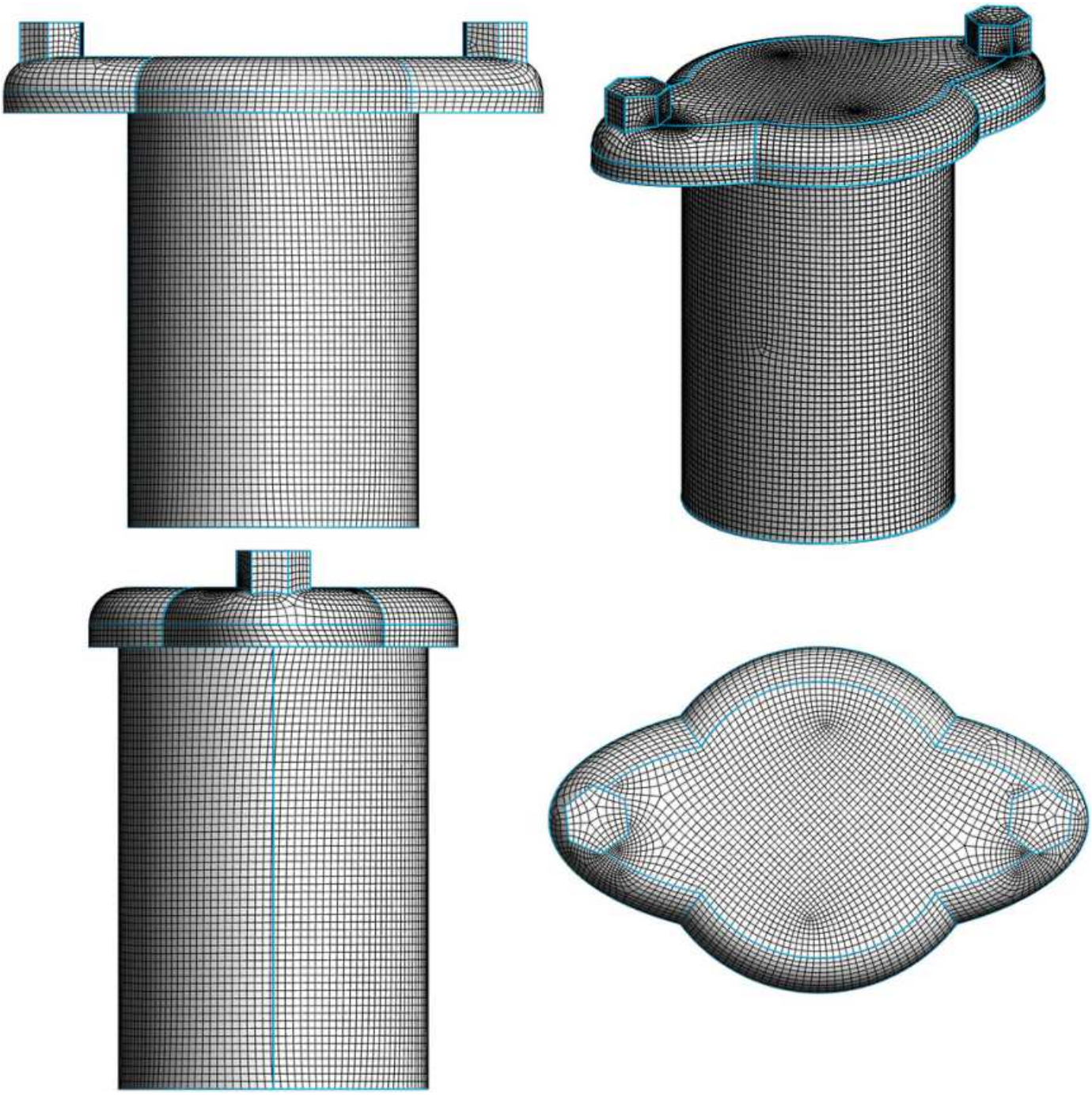


Model: 00002360 (from ABC dataset)
CAD: 42 corners, 65 curves, 26 faces
Cross field: 20 singularities detected
Timings: 8.17784 sec to generate the unstructured mesh, 1.82764 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14932	16028	372	75
Quasi-structured	15419	16515	72	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0162511	0.0980877	0.237949	0.129313	0.959874	0.989759
Quasi-structured	0.0180809	0.0960455	0.319575	0.537021	0.976067	0.997449



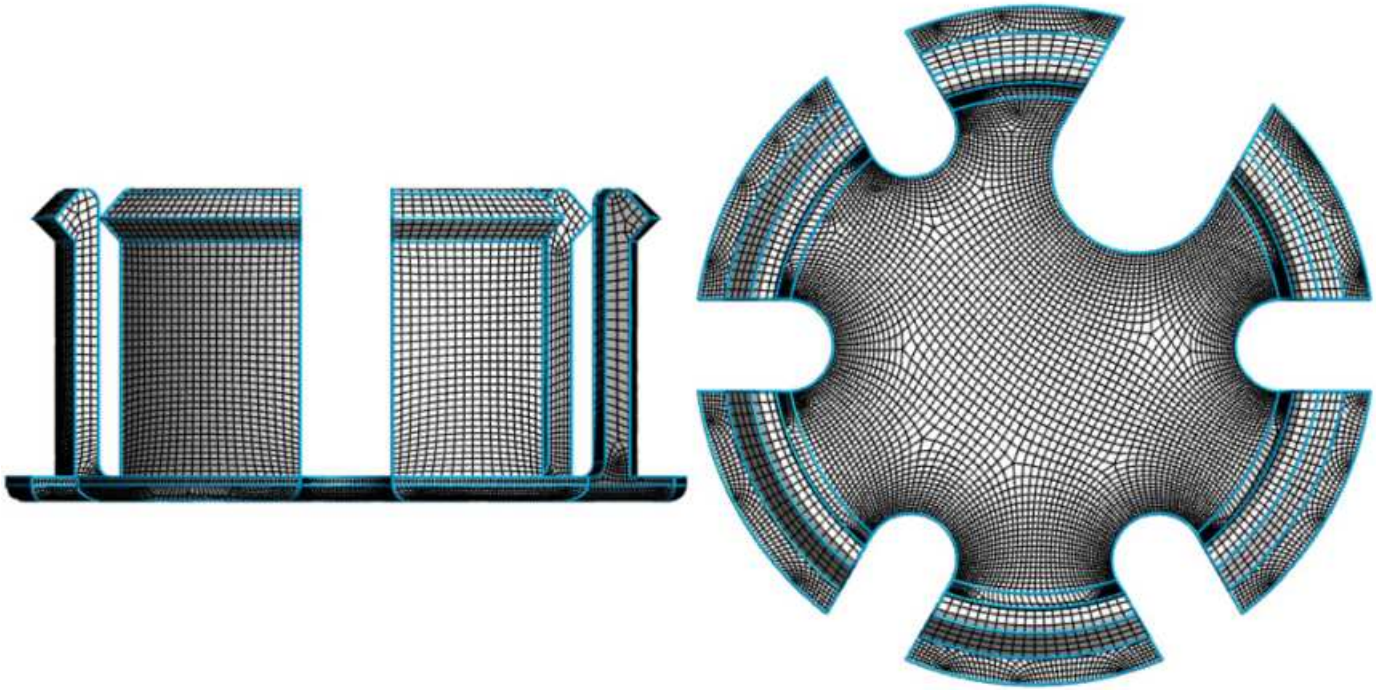
Model: 00002372 (from ABC dataset)
CAD: 156 corners, 246 curves, 92 faces
Cross field: 76 singularities detected
Timings: 11.2197 sec to generate the unstructured mesh, 7.37636 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32000	36870	1623	63
Quasi-structured	36386	41256	340	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0198665	0.530185	1.99799	0.103325	0.925751	0.970984
Quasi-structured	0.0495137	0.494779	2.15211	0.222713	0.922759	0.951162



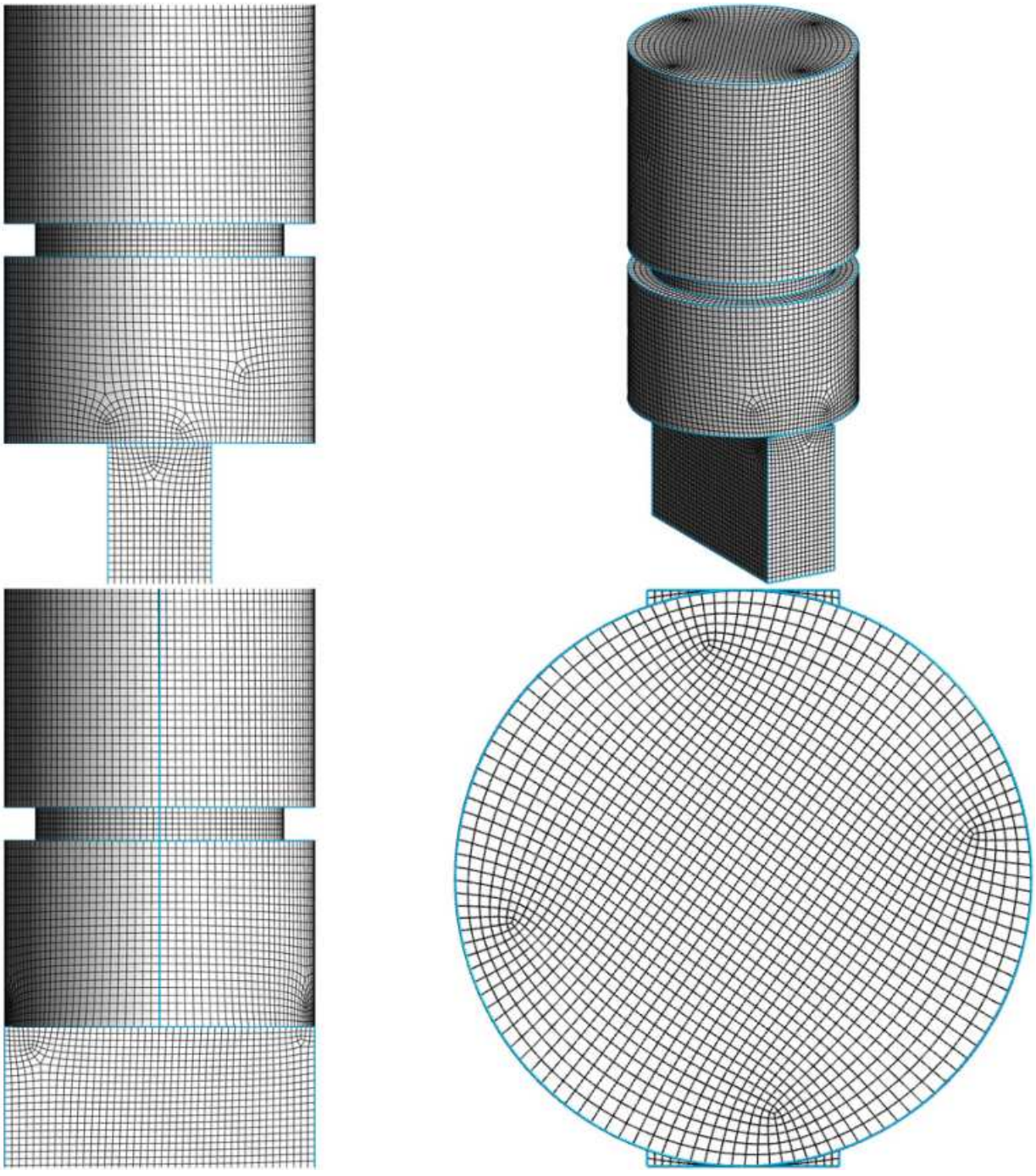


Model: 00002381 (from ABC dataset)
CAD: 20 corners, 33 curves, 17 faces
Cross field: 12 singularities detected
Timings: 8.04639 sec to generate the unstructured mesh, 1.99056 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16100	17252	218	63
Quasi-structured	16456	17608	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00486934	0.141024	0.242856	0.0402444	0.979027	0.996336
Quasi-structured	0.00690609	0.139072	0.23031	0.0402444	0.991118	0.998137

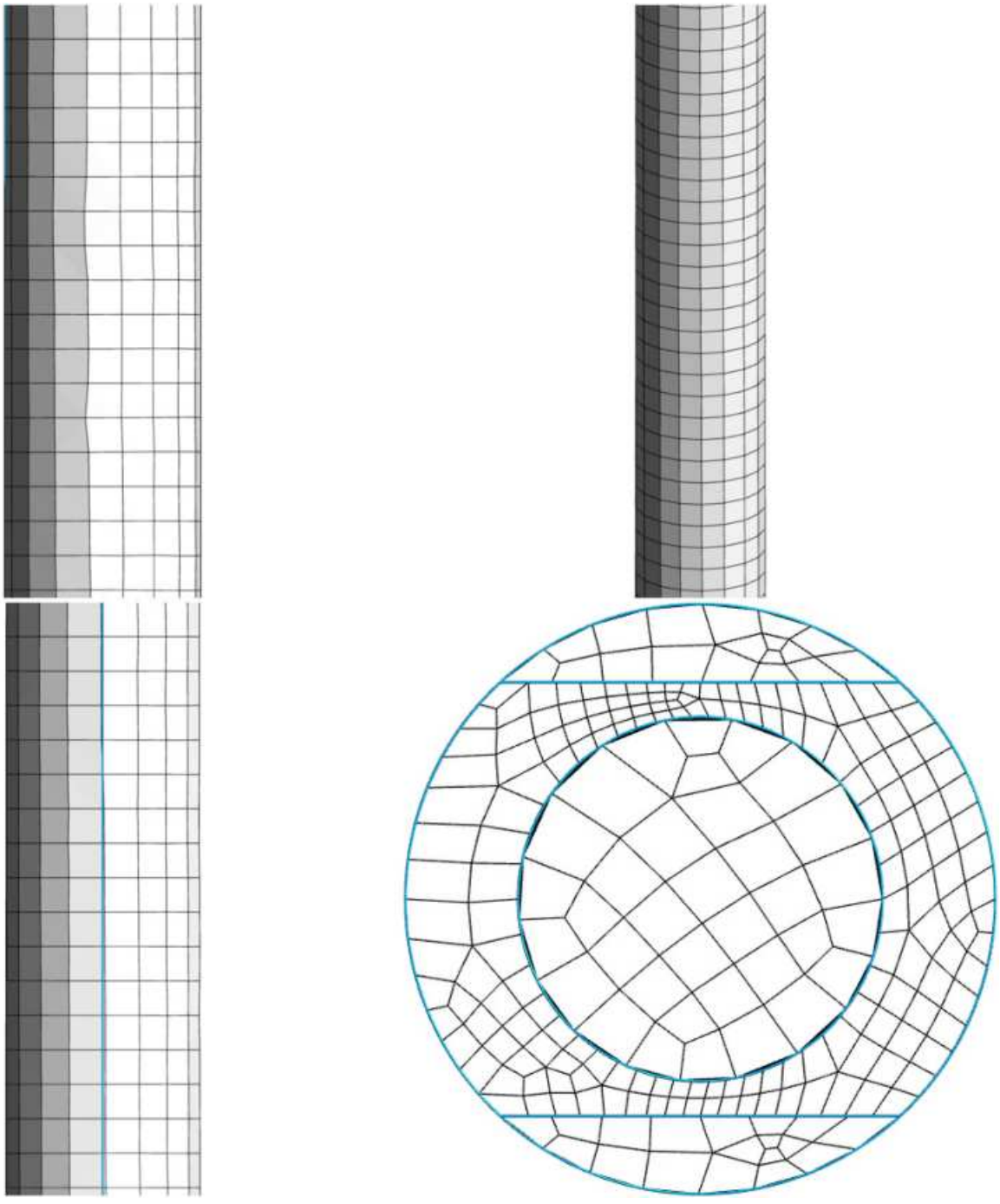


Model: 00002403 (from ABC dataset)
CAD: 14 corners, 21 curves, 11 faces
Cross field: 12 singularities detected
Timings: 2.19112 sec to generate the unstructured mesh, 3.26666 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6226	6720	302	172
Quasi-structured	6459	6953	84	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.150625	0.833285	1.79605	0.110637	0.94488	0.985861
Quasi-structured	0.11826	0.815326	2.60424	0.563288	0.971228	0.987085

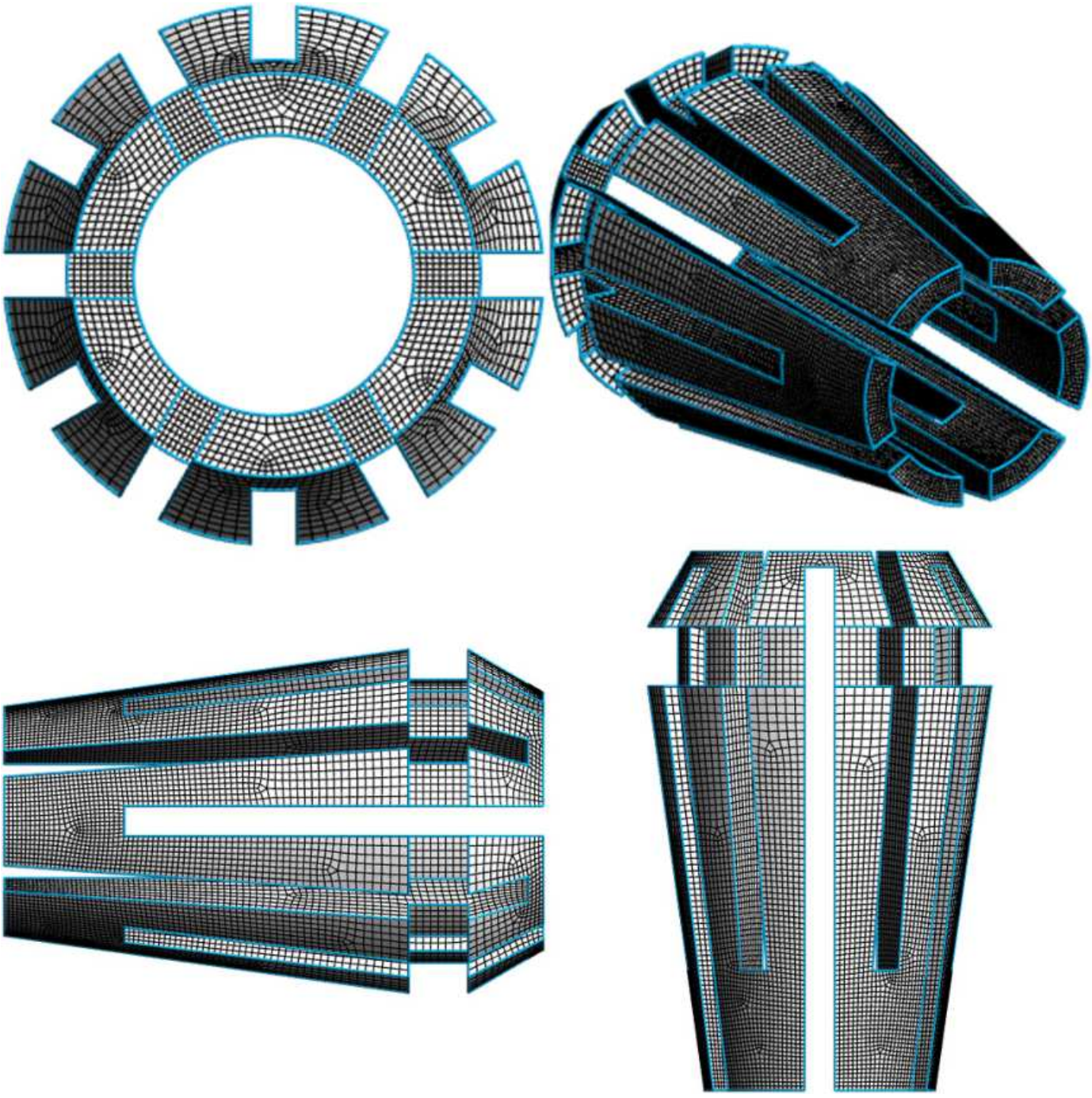


Model: 00002405 (from ABC dataset)
CAD: 193 corners, 290 curves, 97 faces
Cross field: 0 singularities detected
Timings: 20.5808 sec to generate the unstructured mesh, 4.03342 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31994	37262	599	4
Quasi-structured	33947	39215	162	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0471877	0.200459	0.408989	0.370334	0.96288	0.989207
Quasi-structured	0.0503229	0.195042	0.388591	0.644008	0.972331	0.990374

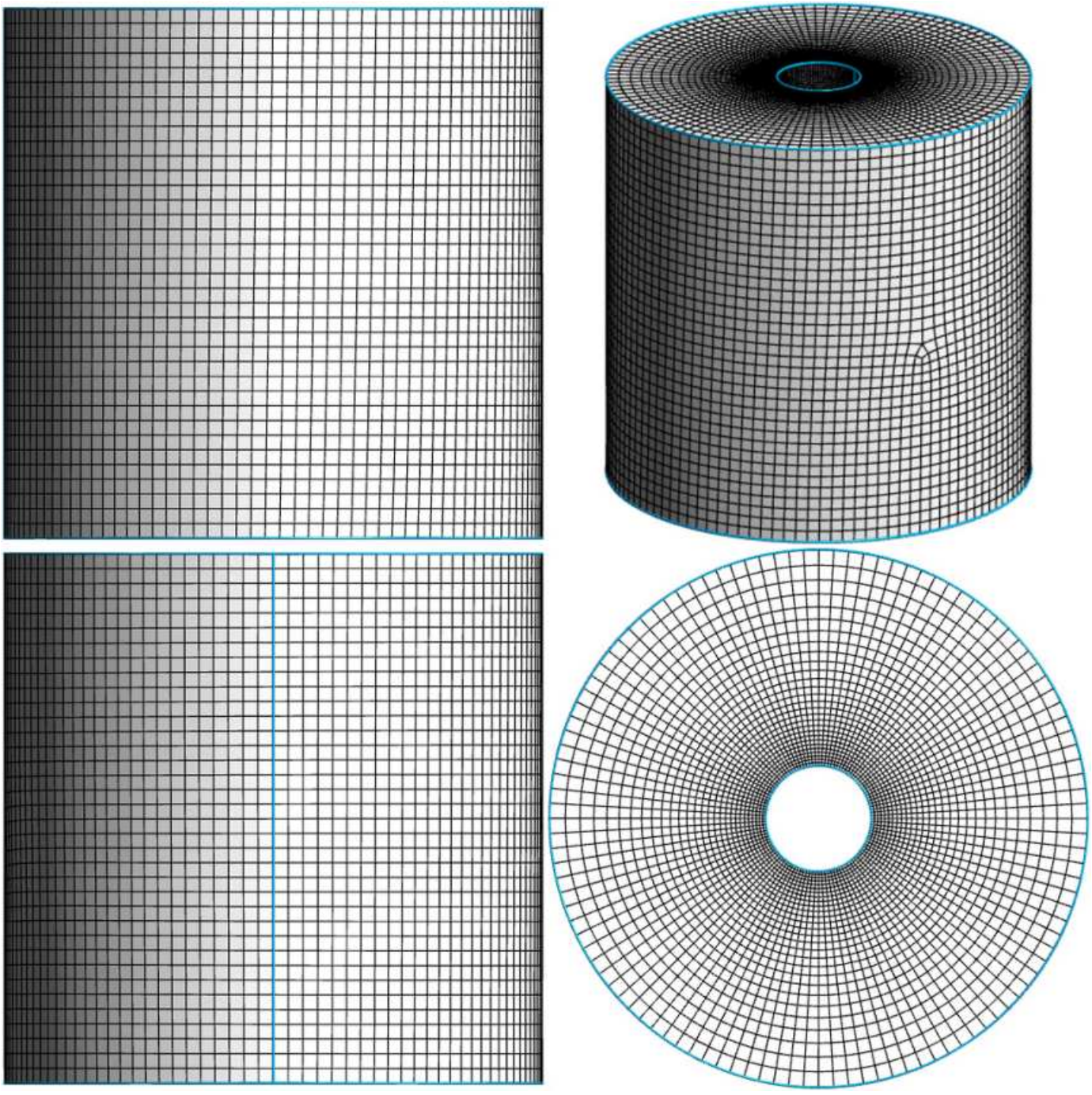


Model: 00002406 (from ABC dataset)
CAD: 14 corners, 21 curves, 14 faces
Cross field: 32 singularities detected
Timings: 15.7809 sec to generate the unstructured mesh, 2.02149 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26034	26806	99	323
Quasi-structured	26102	26874	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.125821	0.65068	2.27823	0.181014	0.99053	0.999559
Quasi-structured	0.167957	0.6507	1.82564	0.583795	0.996473	0.999578

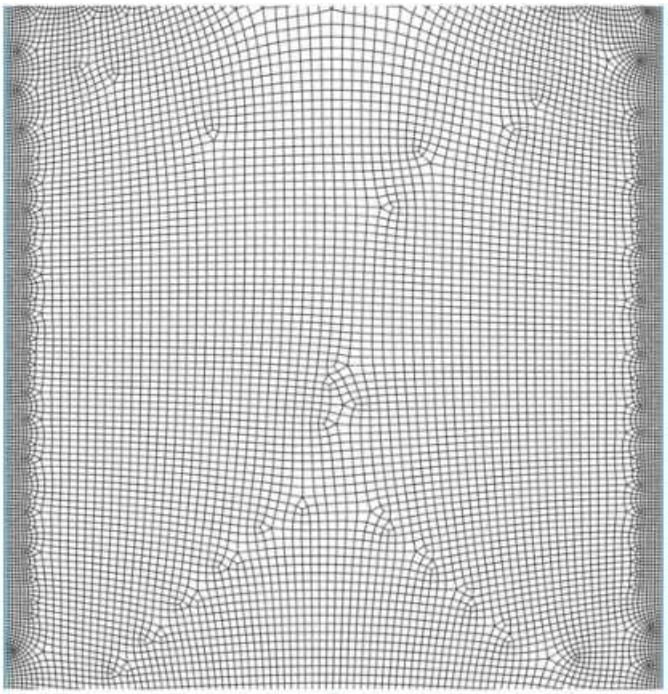


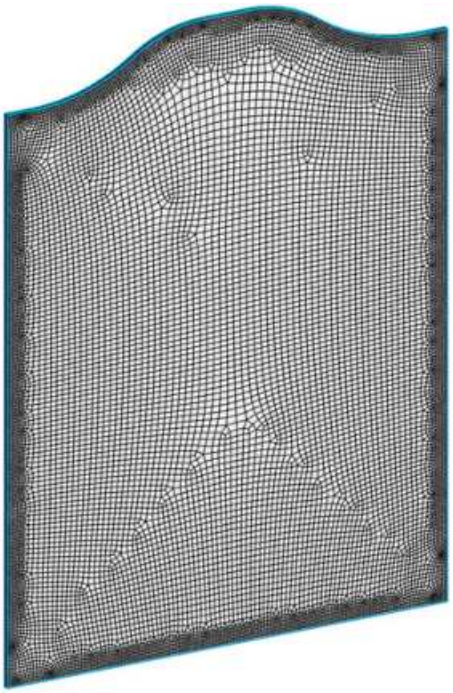
Model: 00002412 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 0 singularities detected
Timings: 7.75887 sec to generate the unstructured mesh, 263.235 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29630	31454	868	96
Quasi-structured	29602	31426	678	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.14629	4.39339	11.2073	0.409482	0.94029	0.956719
Quasi-structured	1.02761	4.34581	11.6467	0.714191	0.974873	0.98499



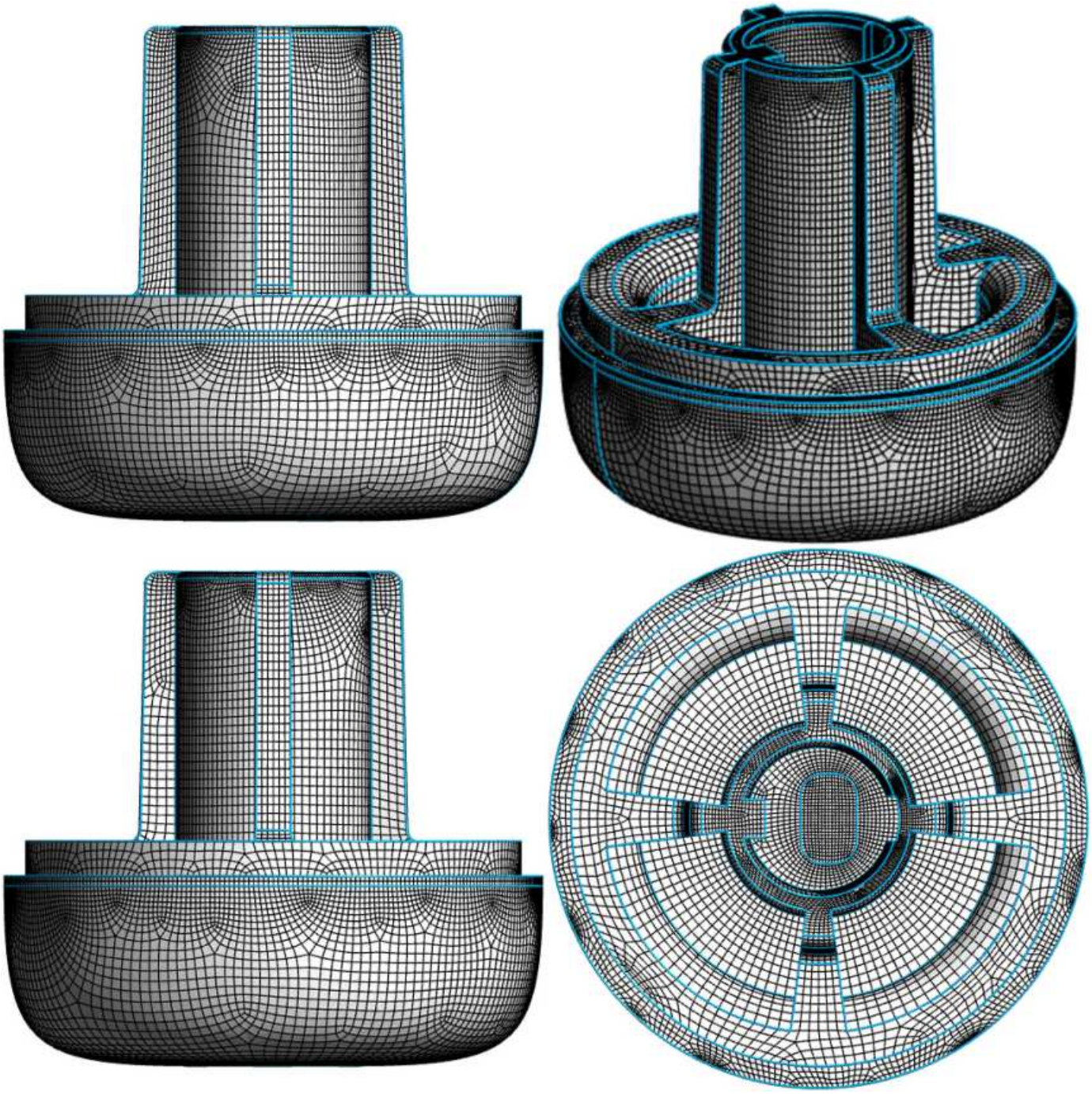


Model: 00002423 (from ABC dataset)
CAD: 121 corners, 182 curves, 67 faces
Cross field: 52 singularities detected
Timings: 34.5629 sec to generate the unstructured mesh, 118.173 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37186	42196	1117	73
Quasi-structured	40776	45786	380	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0241908	0.275306	0.843354	0.00521971	0.958395	0.991263
Quasi-structured	0.0164757	0.263945	0.932169	0.118539	0.947143	0.990106

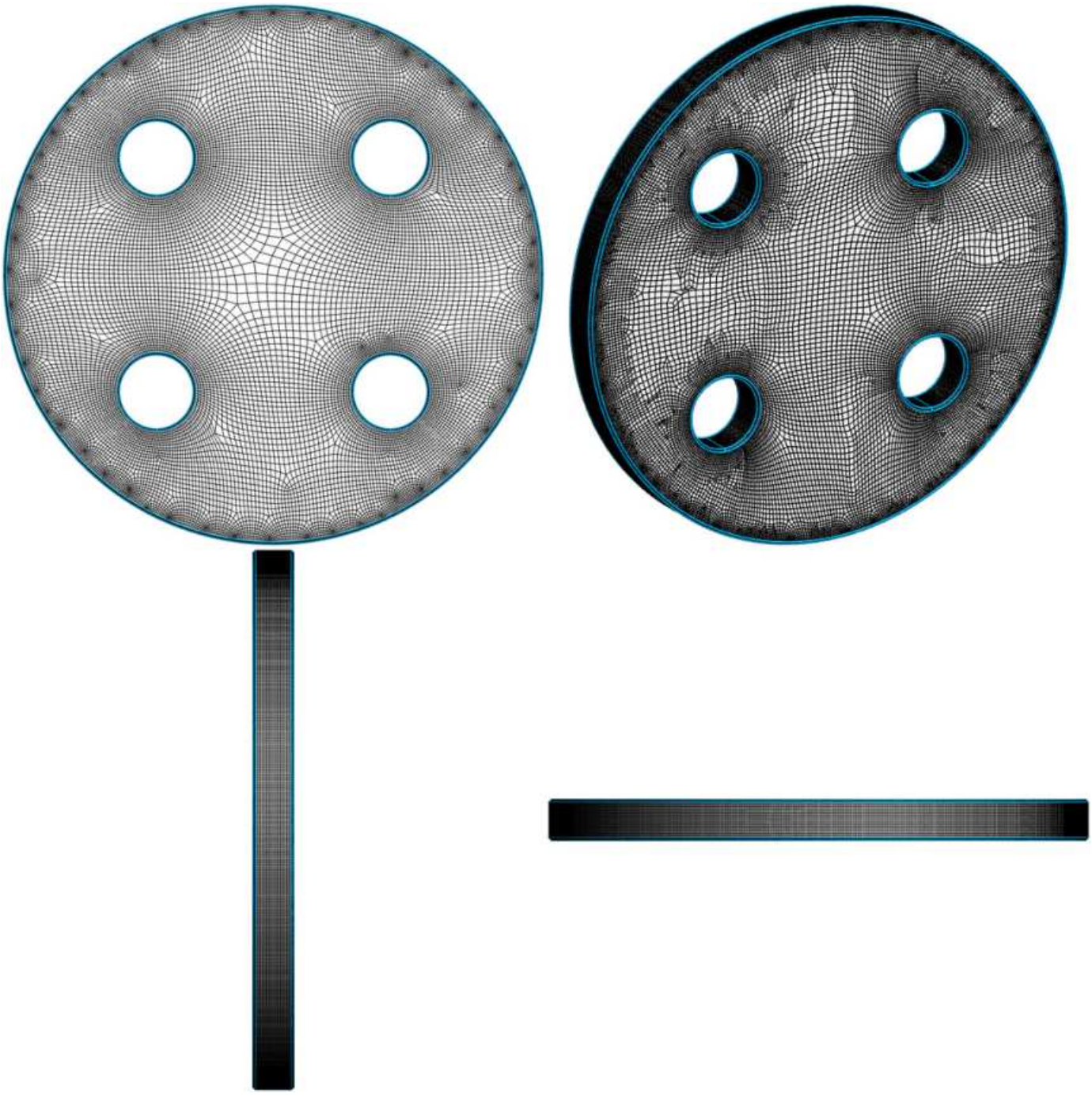


Model: 00002424 (from ABC dataset)
CAD: 20 corners, 35 curves, 17 faces
Cross field: 24 singularities detected
Timings: 10.5693 sec to generate the unstructured mesh, 107.569 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	65240	71130	2986	400
Quasi-structured	66174	72064	626	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.164888	0.515619	2.20989	0.401625	0.93324	0.976864
Quasi-structured	0.101215	0.51612	3.00044	0.324334	0.956072	0.975093

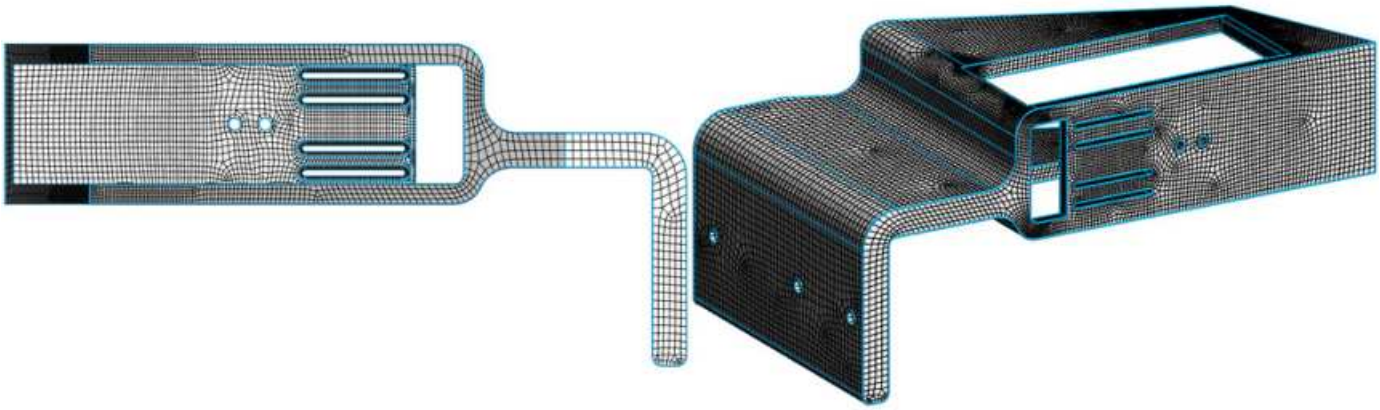


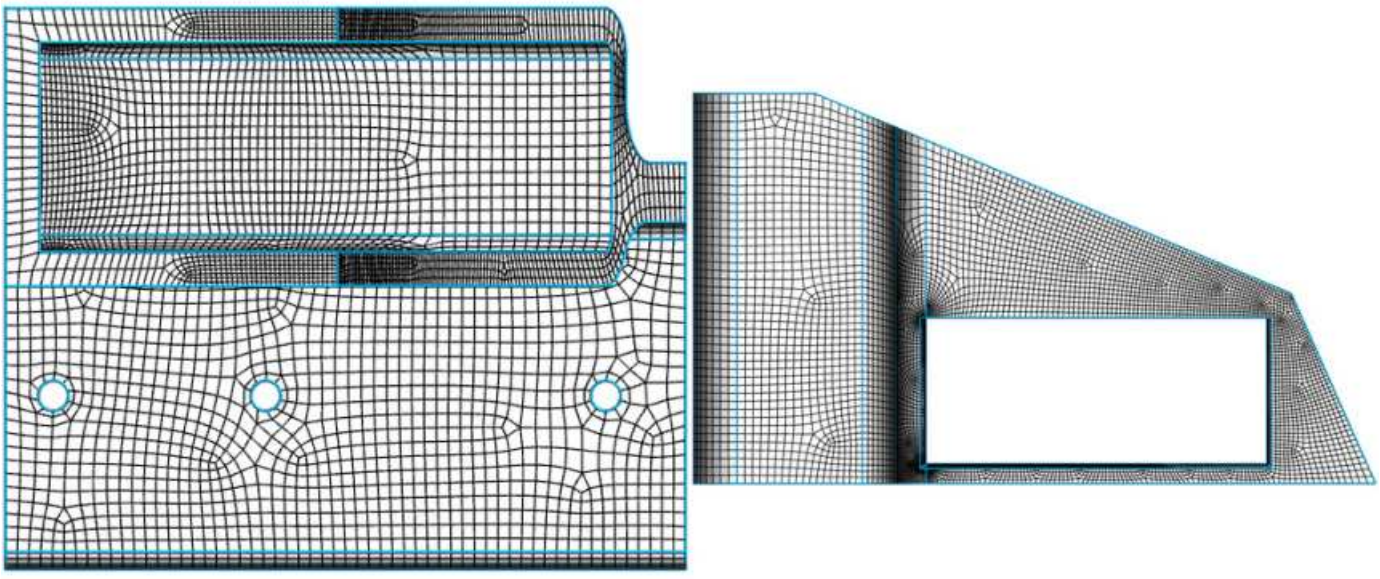
Model: 00002444 (from ABC dataset)
CAD: 151 corners, 241 curves, 83 faces
Cross field: 96 singularities detected
Timings: 13.8 sec to generate the unstructured mesh, 32.3295 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37380	42717	1578	87
Quasi-structured	41647	46984	501	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00324827	1.12568	3.68482	-0.910796	0.932943	0.976222
Quasi-structured	0.00324827	1.06703	4.58425	0.0937753	0.92189	0.959914





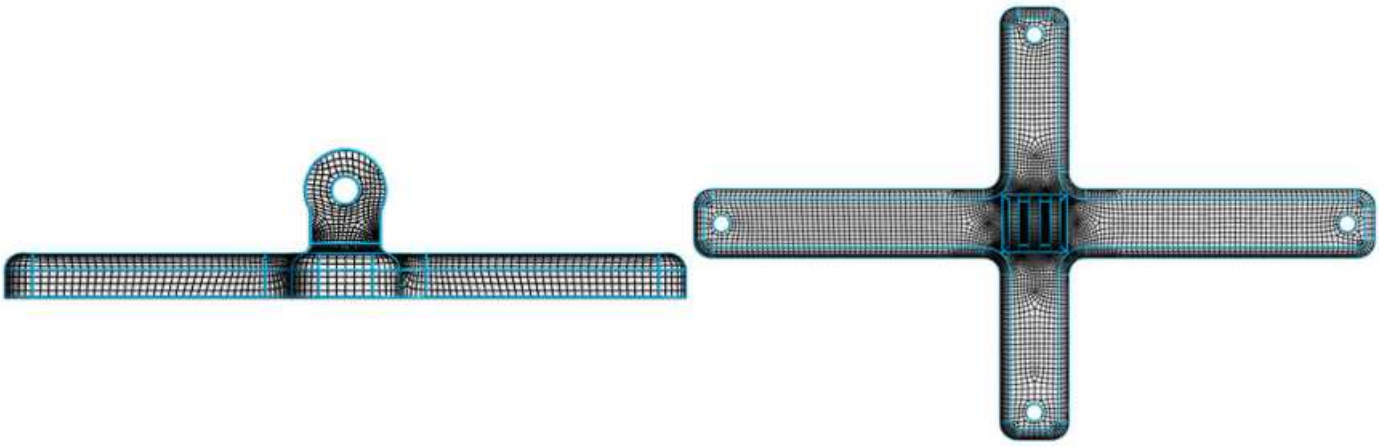
Model: 00002474 (from ABC dataset)
CAD: 129 corners, 206 curves, 80 faces
Cross field: 68 singularities detected
Timings: 6.65829 sec to generate the unstructured mesh, 9.2626 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19716	22874	986	91
Quasi-structured	20409	23567	318	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0675052	0.85251	2.52673	0.135037	0.897816	0.952677
Quasi-structured	0.0671716	0.8351	2.50925	0.278391	0.917398	0.965558



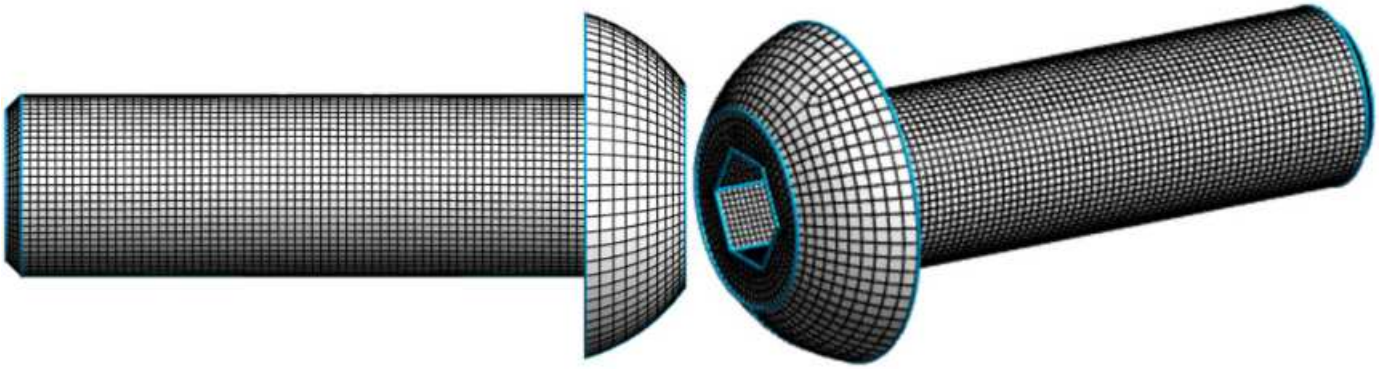


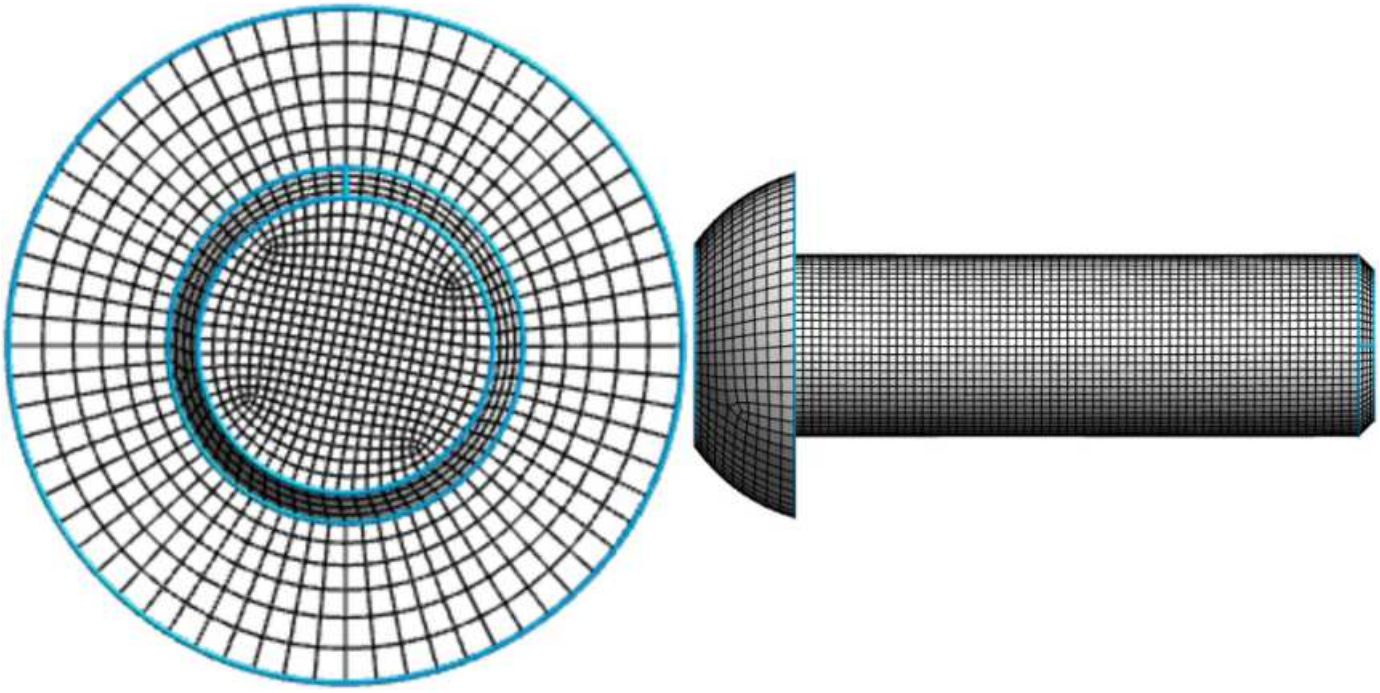
Model: 00002496 (from ABC dataset)
CAD: 18 corners, 27 curves, 13 faces
Cross field: 12 singularities detected
Timings: 4.1815 sec to generate the unstructured mesh, 0.55397 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7730	8290	52	78
Quasi-structured	7816	8376	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0630947	0.236296	0.557309	0.506147	0.981245	0.99827
Quasi-structured	0.0814023	0.234741	0.482569	0.68571	0.991847	0.999604



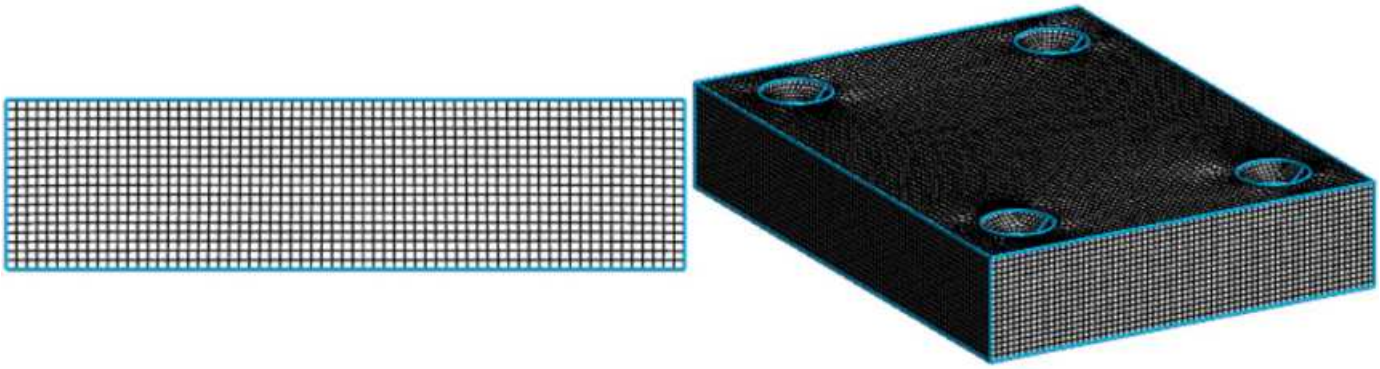


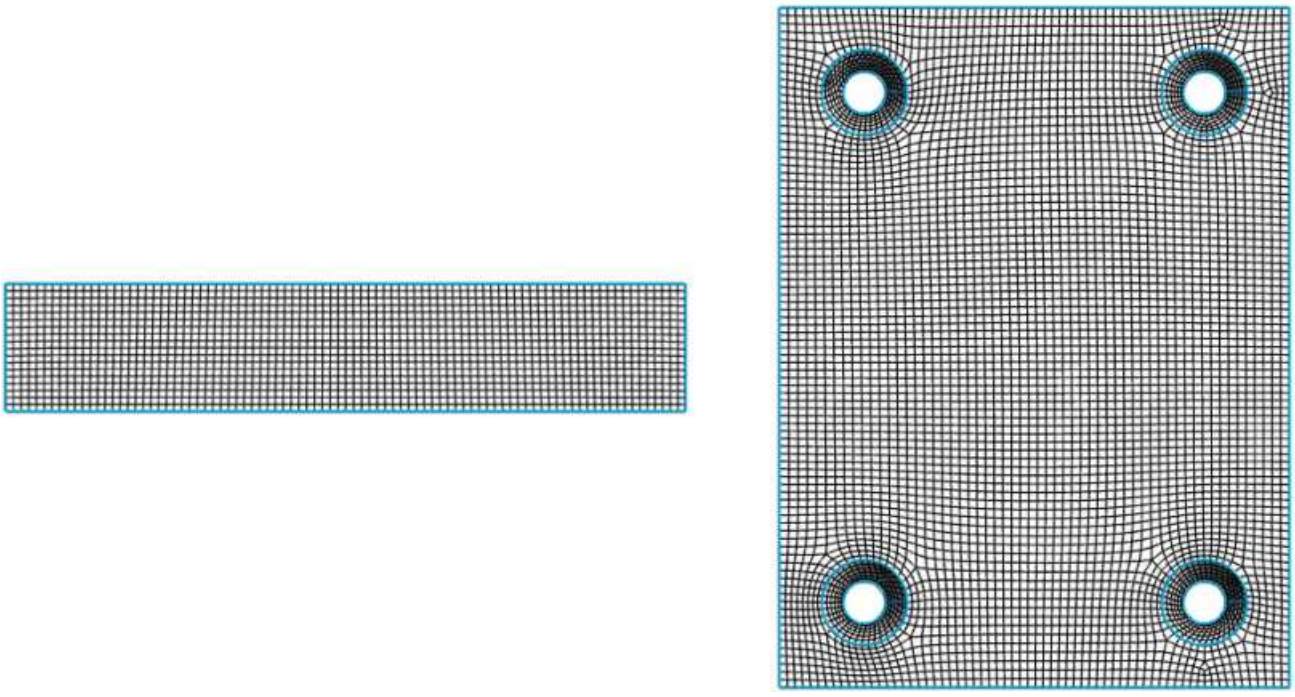
Model: 00002510 (from ABC dataset)
CAD: 20 corners, 32 curves, 14 faces
Cross field: 32 singularities detected
Timings: 16.0076 sec to generate the unstructured mesh, 2.98742 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20562	21648	194	125
Quasi-structured	20254	21340	68	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.272108	1.05196	2.0006	0.520531	0.983365	0.996245
Quasi-structured	0.306509	1.05809	2.33774	0.616396	0.988973	0.996249



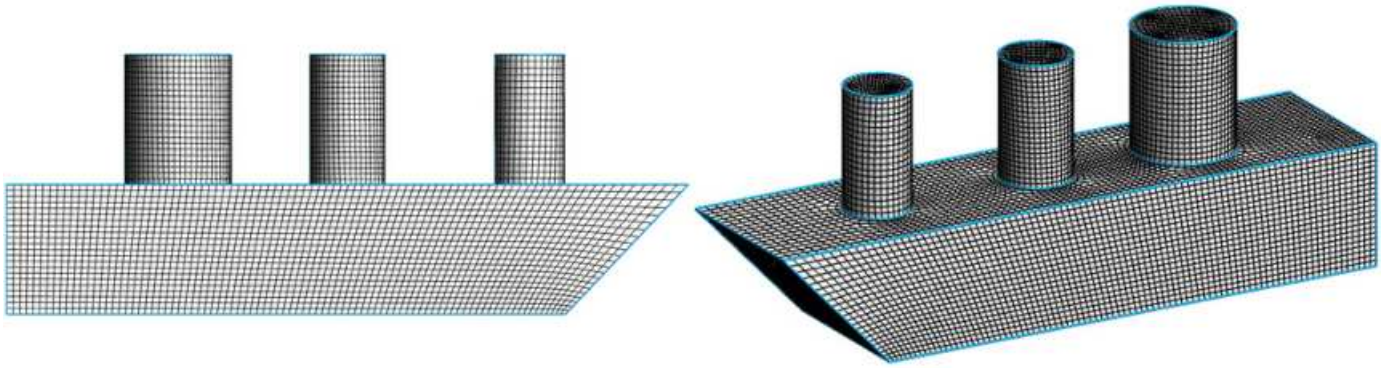


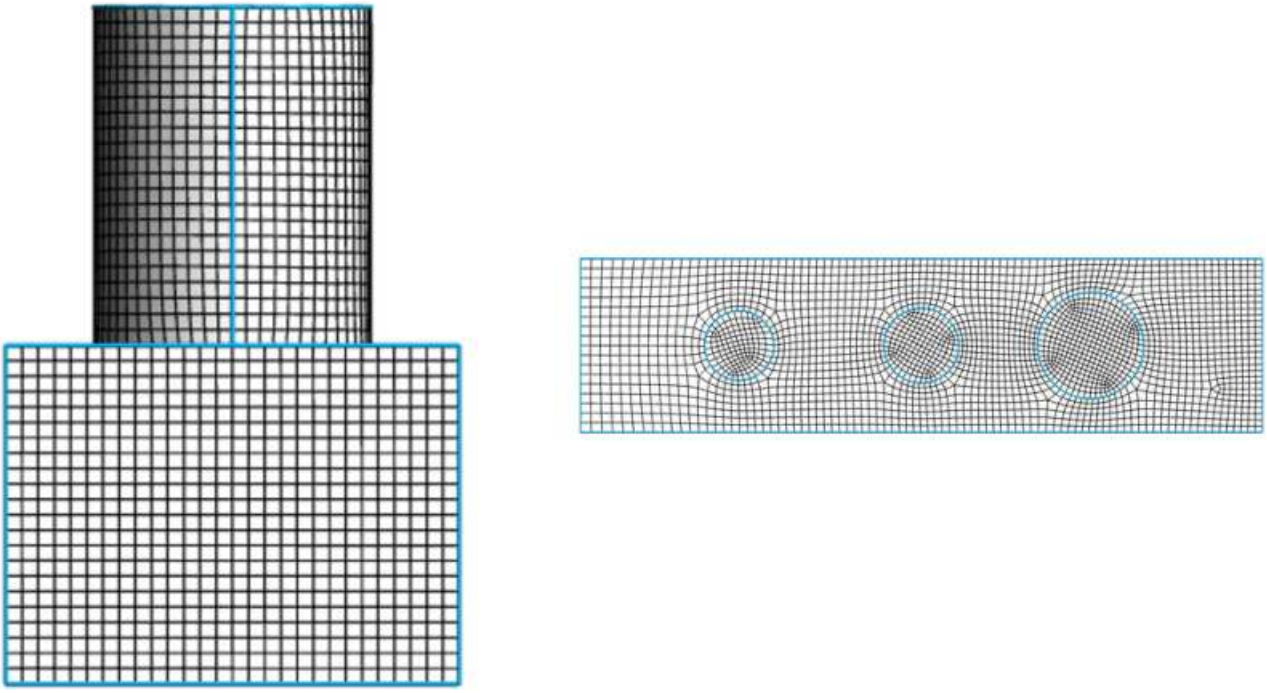
Model: 00002512 (from ABC dataset)
CAD: 14 corners, 21 curves, 12 faces
Cross field: 24 singularities detected
Timings: 7.33306 sec to generate the unstructured mesh, 0.809152 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12968	13784	113	69
Quasi-structured	12984	13800	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.370262	1.25616	2.36701	0.517546	0.966928	0.987556
Quasi-structured	0.461945	1.2539	2.95873	0.722263	0.978493	0.995265



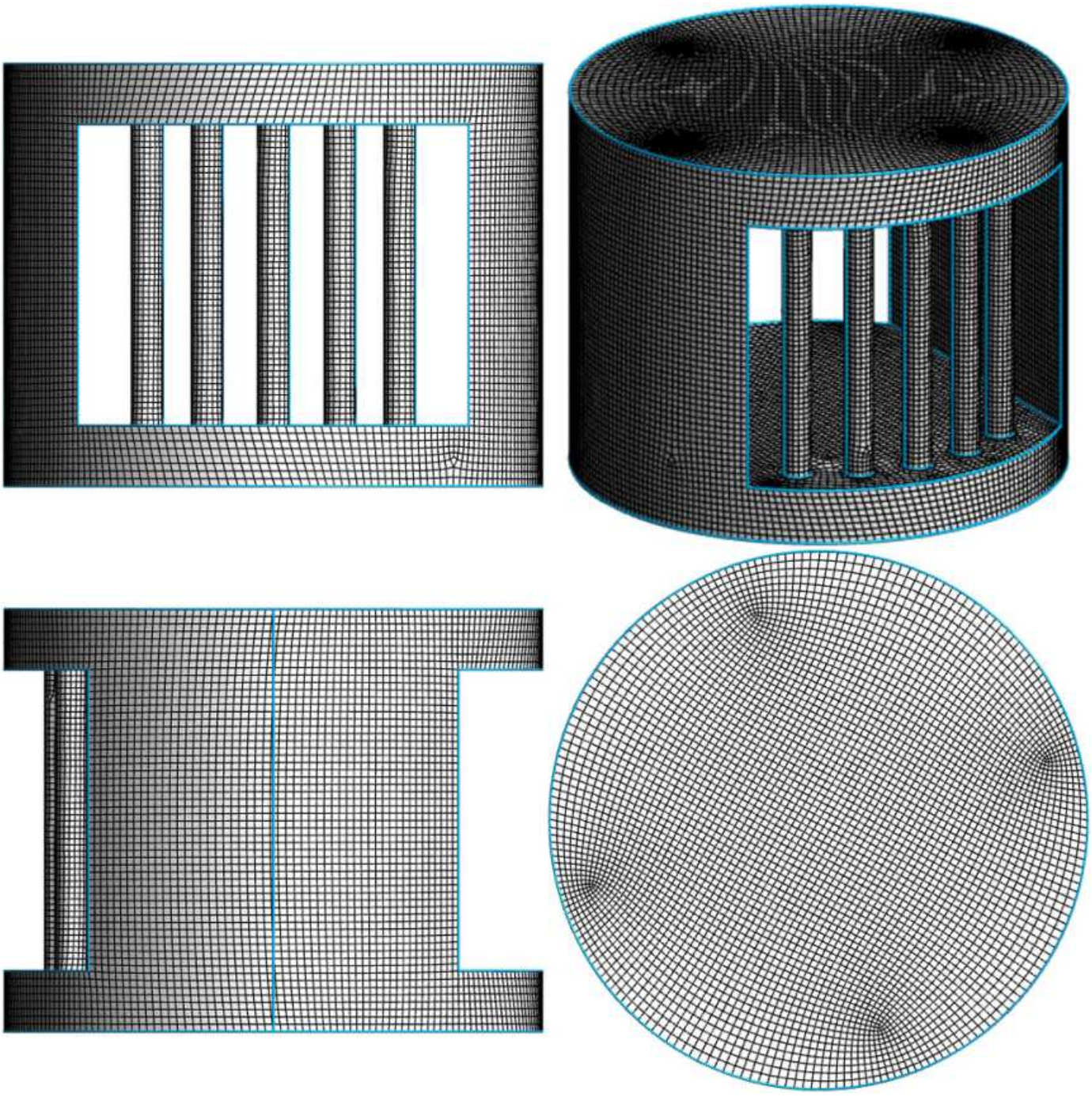


Model: 00002513 (from ABC dataset)
CAD: 25 corners, 35 curves, 12 faces
Cross field: 56 singularities detected
Timings: 21.583 sec to generate the unstructured mesh, 4.88982 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32188	33356	358	309
Quasi-structured	32039	33207	82	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.548091	1.71791	3.59985	0.293727	0.980175	0.996483
Quasi-structured	0.537831	1.71733	3.52048	0.61131	0.991859	0.997298

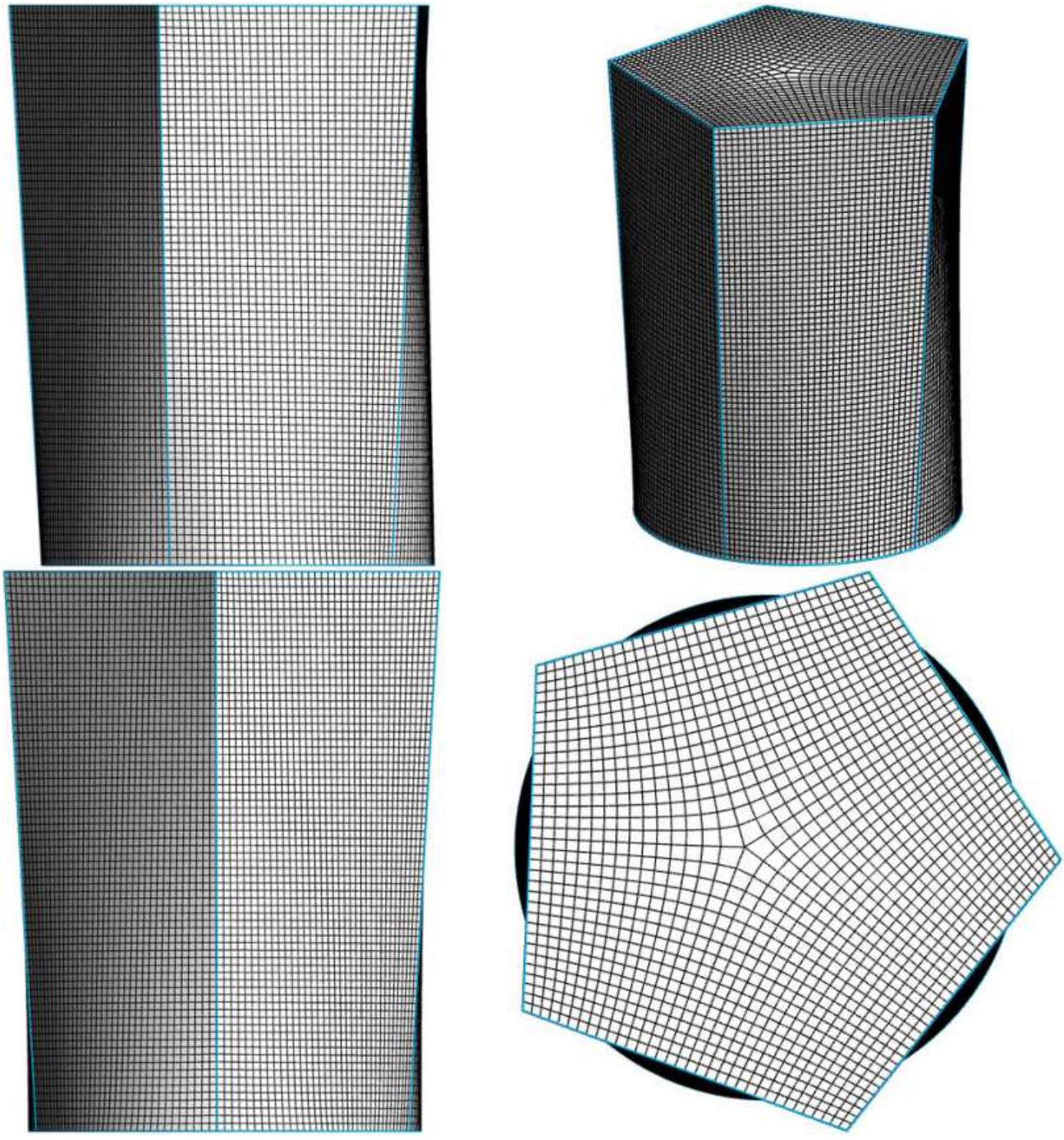


Model: 00002524 (from ABC dataset)
CAD: 10 corners, 15 curves, 7 faces
Cross field: 5 singularities detected
Timings: 10.8586 sec to generate the unstructured mesh, 1.07427 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17718	18443	79	0
Quasi-structured	17632	18357	5	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.287352	0.998024	2.18714	0.554478	0.990634	0.997011
Quasi-structured	0.302624	0.997752	2.54745	0.852687	0.996886	0.998177

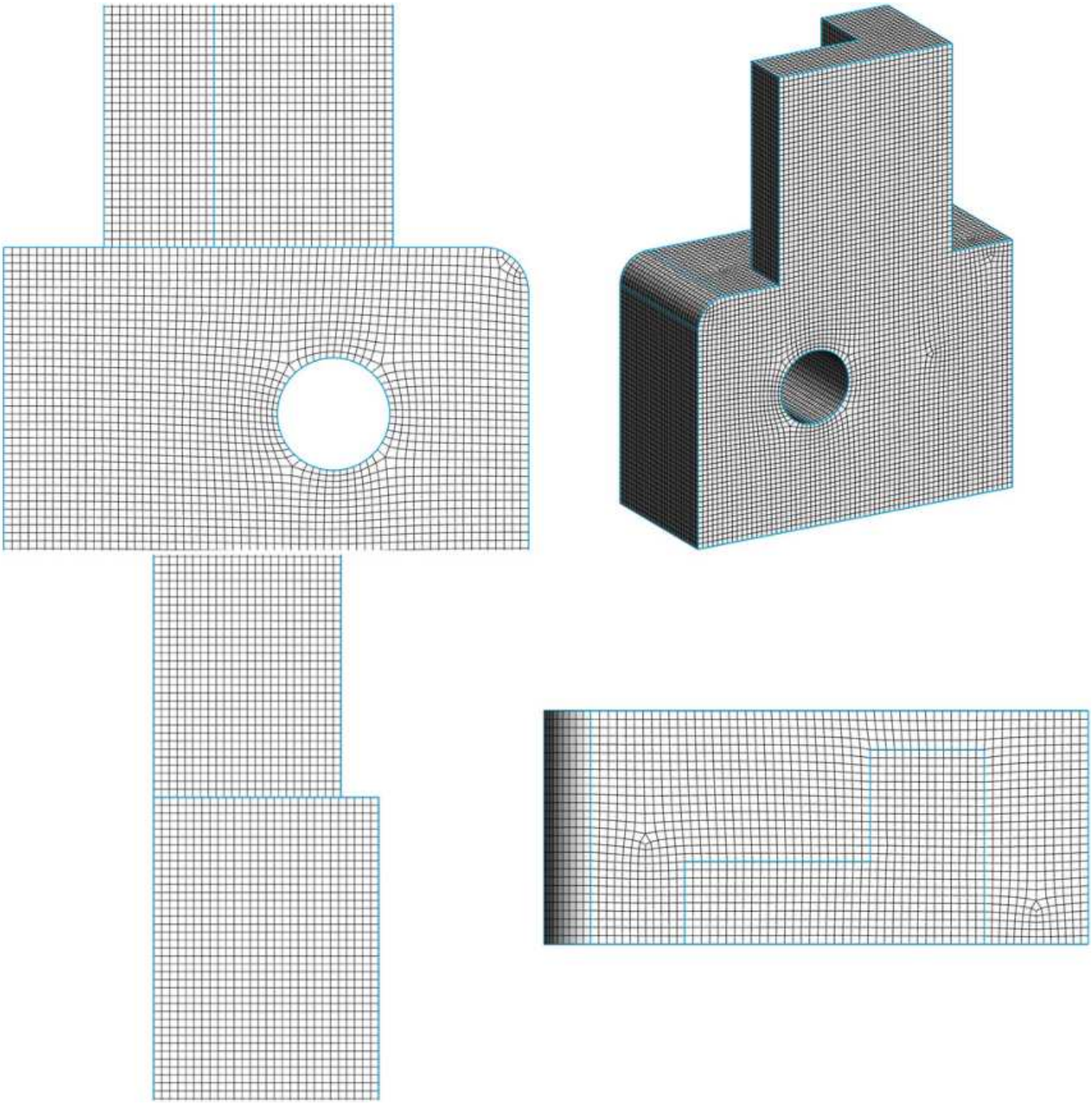


Model: 00002532 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 10 singularities detected
Timings: 12.9407 sec to generate the unstructured mesh, 1.30849 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18440	19547	82	34
Quasi-structured	18660	19767	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.823764	2.69601	4.31444	0.547575	0.990832	0.999626
Quasi-structured	1.21811	2.67642	4.44642	0.801514	0.997618	0.999655

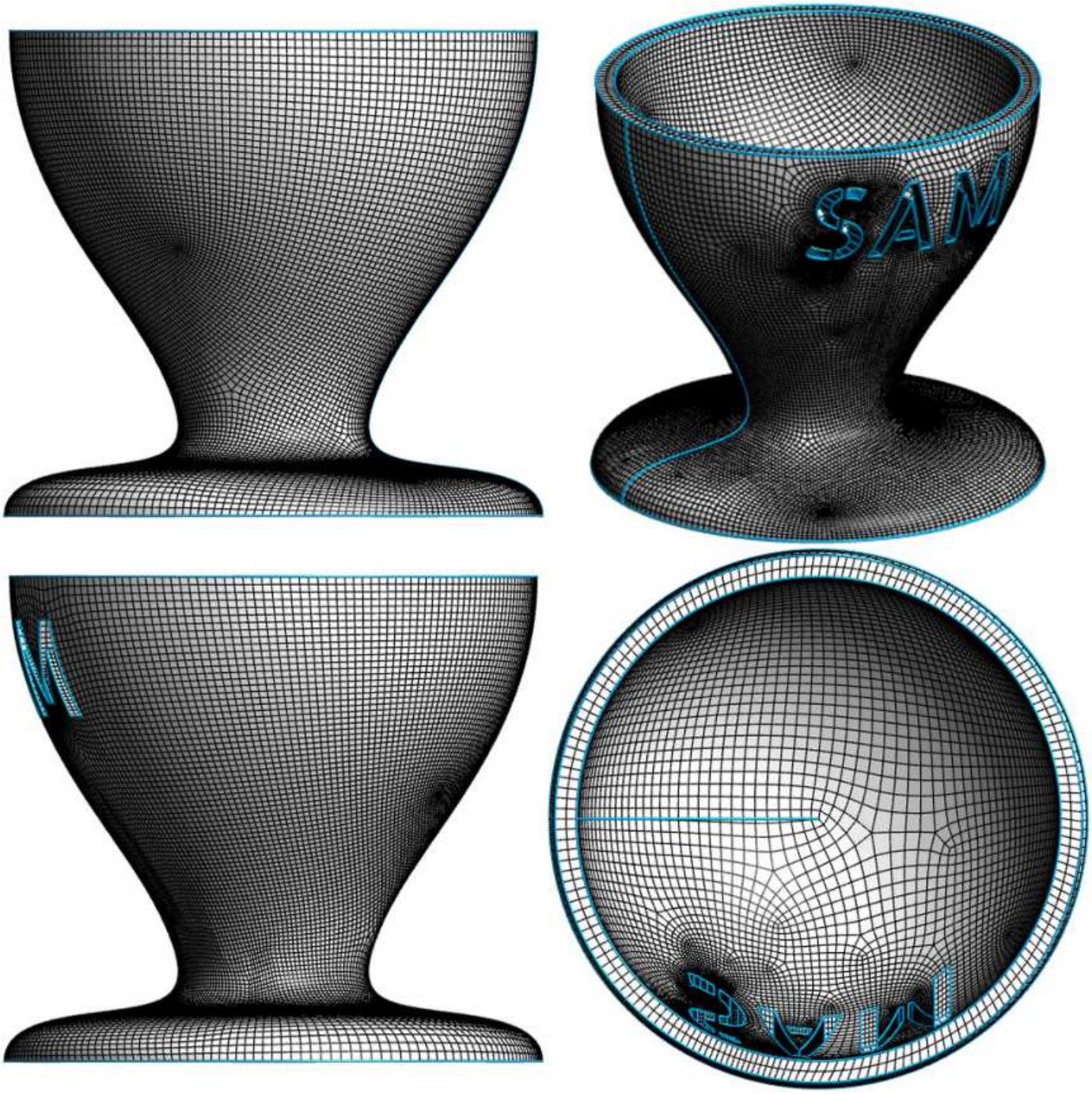


Model: 00002562 (from ABC dataset)
CAD: 158 corners, 237 curves, 81 faces
Cross field: 36 singularities detected
Timings: 84.04 sec to generate the unstructured mesh, 29.887 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	45528	48783	1470	204
Quasi-structured	46520	49775	323	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00759124	0.446093	2.45381	0.174874	0.935801	0.974696
Quasi-structured	0.0105925	0.440213	2.24291	0.13944	0.941454	0.978738

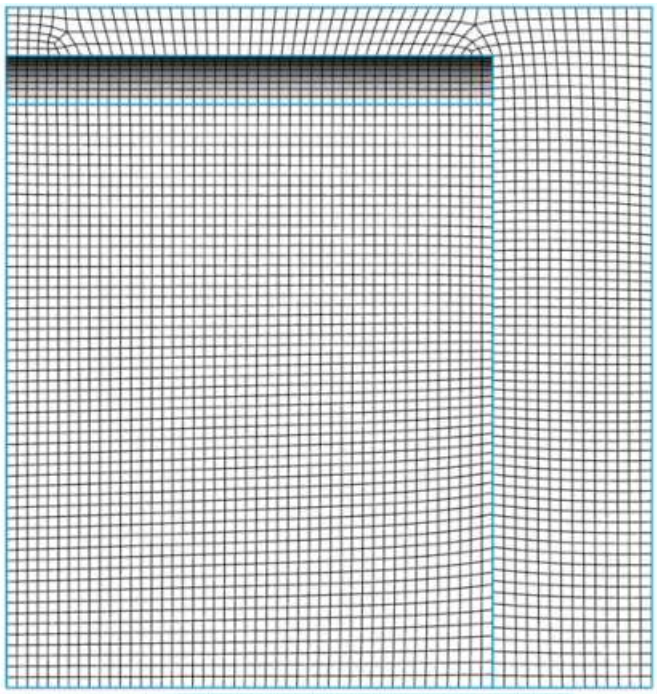


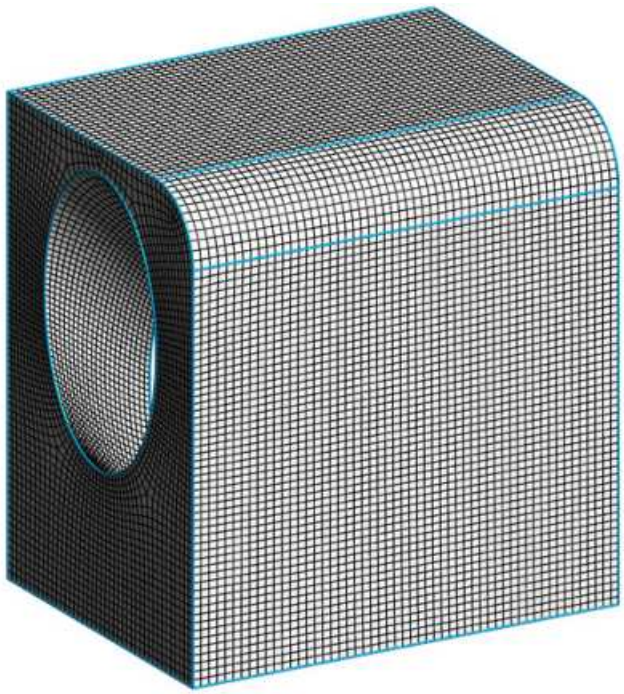
Model: 00002567 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 10 singularities detected
Timings: 8.29455 sec to generate the unstructured mesh, 1.6254 sec to make it quasi-structured
Mesh topology:

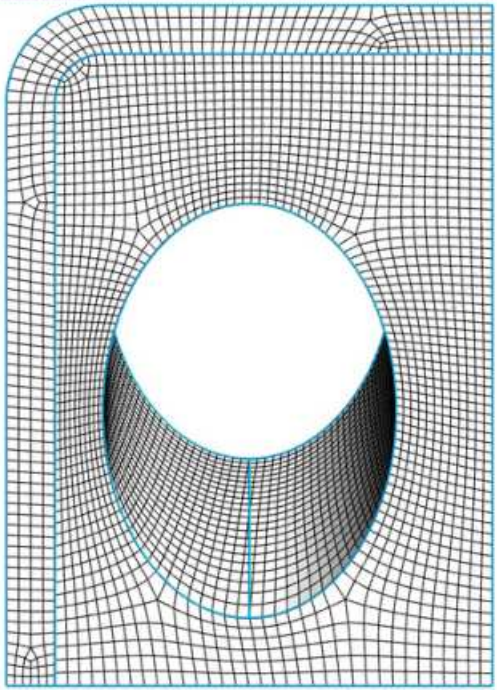
	# quads	# vertices	# irregular	# very irregular
Unstructured	18596	19875	182	24
Quasi-structured	18956	20235	30	0

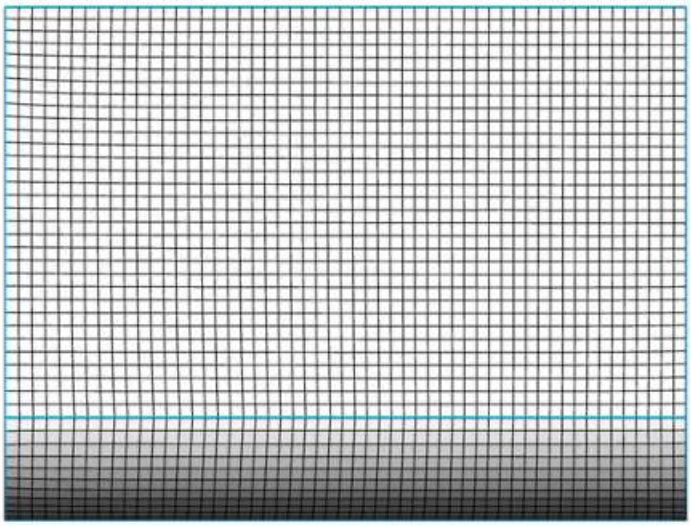
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.239352	1.09945	2.15398	0.401503	0.984377	0.997168
Quasi-structured	0.44357	1.08994	2.47619	0.70446	0.979388	0.995278









Model: 00002571 (from ABC dataset)
CAD: 148 corners, 242 curves, 83 faces
Cross field: 22 singularities detected
Timings: 7.81621 sec to generate the unstructured mesh, 18.2215 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20682	25124	1518	50
Quasi-structured	23392	27834	367	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0249951	0.673193	2.39146	0.113442	0.91732	0.964142
Quasi-structured	0.0246225	0.637099	3.14502	0.113442	0.898939	0.943042

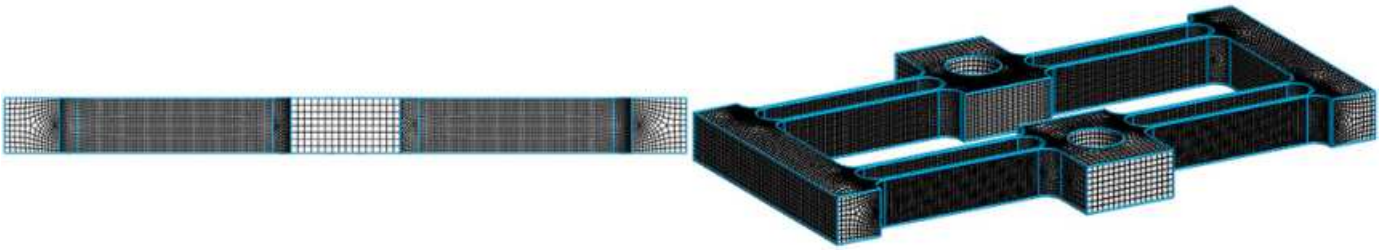


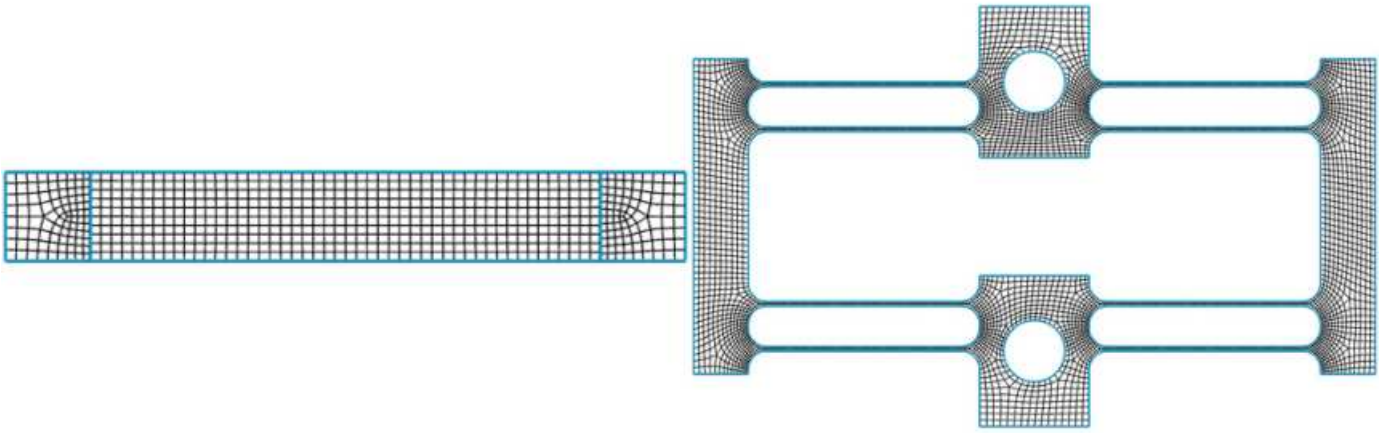
Model: 00002587 (from ABC dataset)
CAD: 166 corners, 248 curves, 84 faces
Cross field: 80 singularities detected
Timings: 9.4272 sec to generate the unstructured mesh, 5.49877 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	46816	52752	941	71
Quasi-structured	47880	53816	144	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.104932	0.335866	1.12392	0.360017	0.953659	0.982686
Quasi-structured	0.0916986	0.332505	1.19669	0.64263	0.965506	0.962734





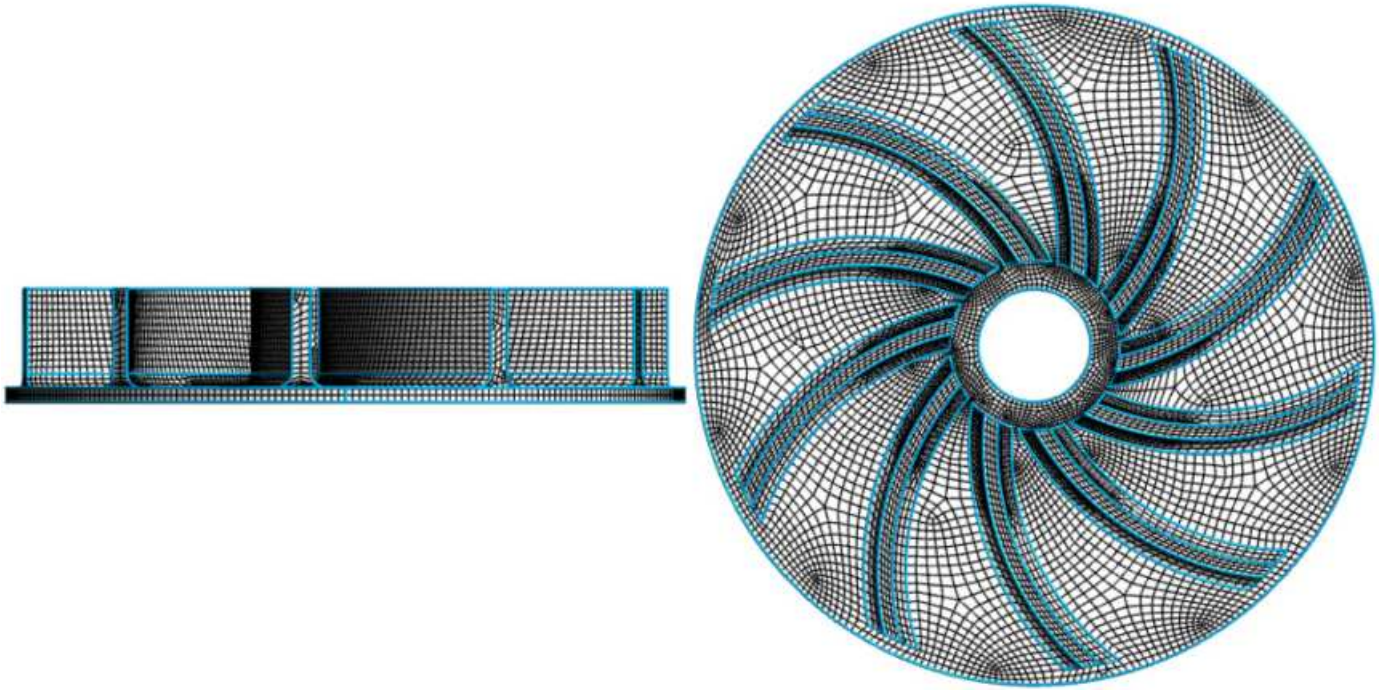
Model: 00002617 (from ABC dataset)
CAD: 124 corners, 186 curves, 74 faces
Cross field: 70 singularities detected
Timings: 18.6398 sec to generate the unstructured mesh, 25.5287 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26586	30738	1098	76
Quasi-structured	29058	33210	394	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.070572	3.07913	9.66282	0.00848957	0.904359	0.95923
Quasi-structured	0.0340601	2.97581	10.4328	0.0519886	0.897219	0.956889



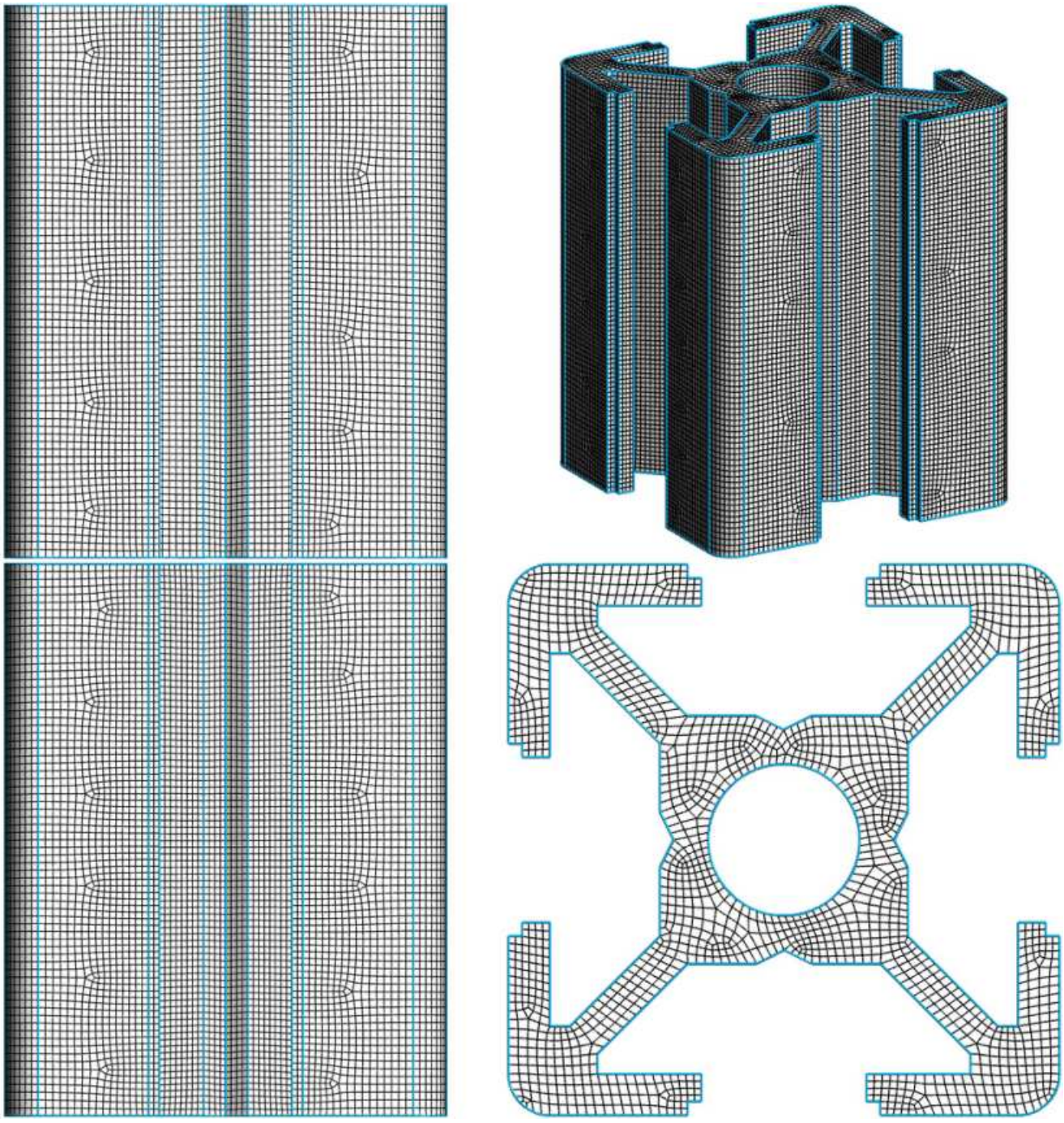


Model: 00002634 (from ABC dataset)
CAD: 154 corners, 231 curves, 79 faces
Cross field: 38 singularities detected
Timings: 26.0896 sec to generate the unstructured mesh, 4.64174 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	54540	62050	337	100
Quasi-structured	54443	61953	218	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.096951	0.300684	0.556333	0.18821	0.983974	0.9945
Quasi-structured	0.102675	0.30076	0.760516	0.579671	0.989611	0.996711

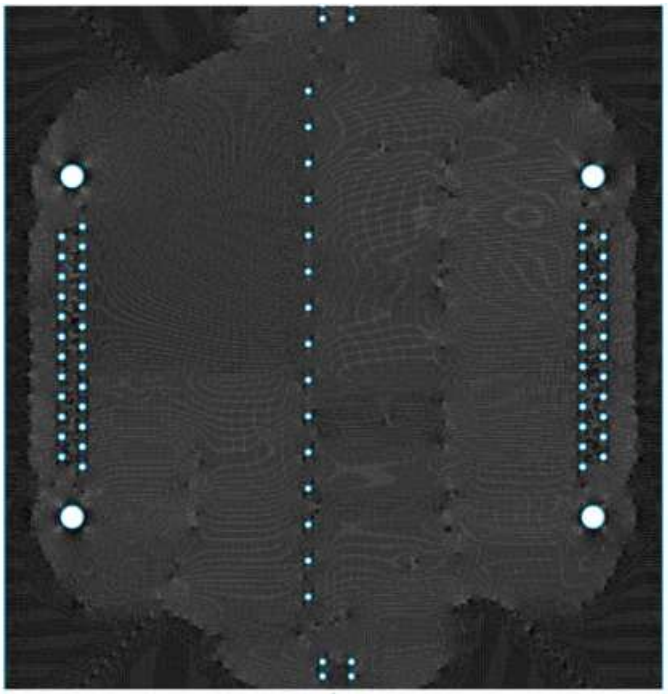


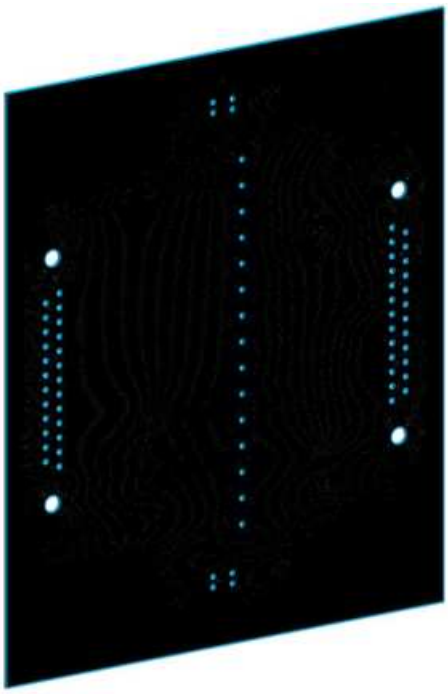
Model: 00002670 (from ABC dataset)
CAD: 162 corners, 243 curves, 83 faces
Cross field: 616 singularities detected
Timings: 725.589 sec to generate the unstructured mesh, 289.955 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	500356	508744	4624	188
Quasi-structured	503847	512235	4105	3

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0538566	0.204502	0.387312	0.409592	0.96616	0.959852
Quasi-structured	0.0639634	0.202889	0.447627	0.521472	0.982119	0.993



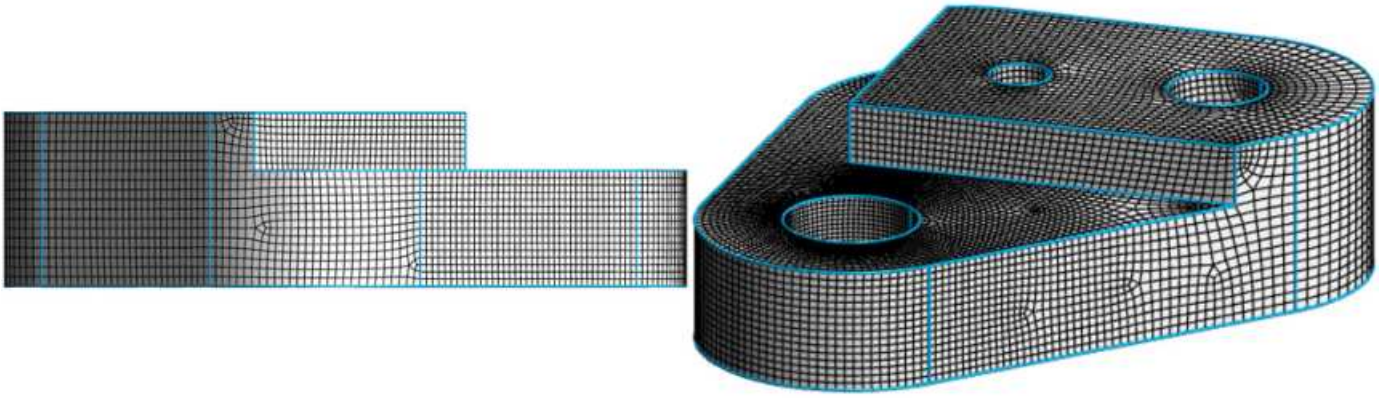


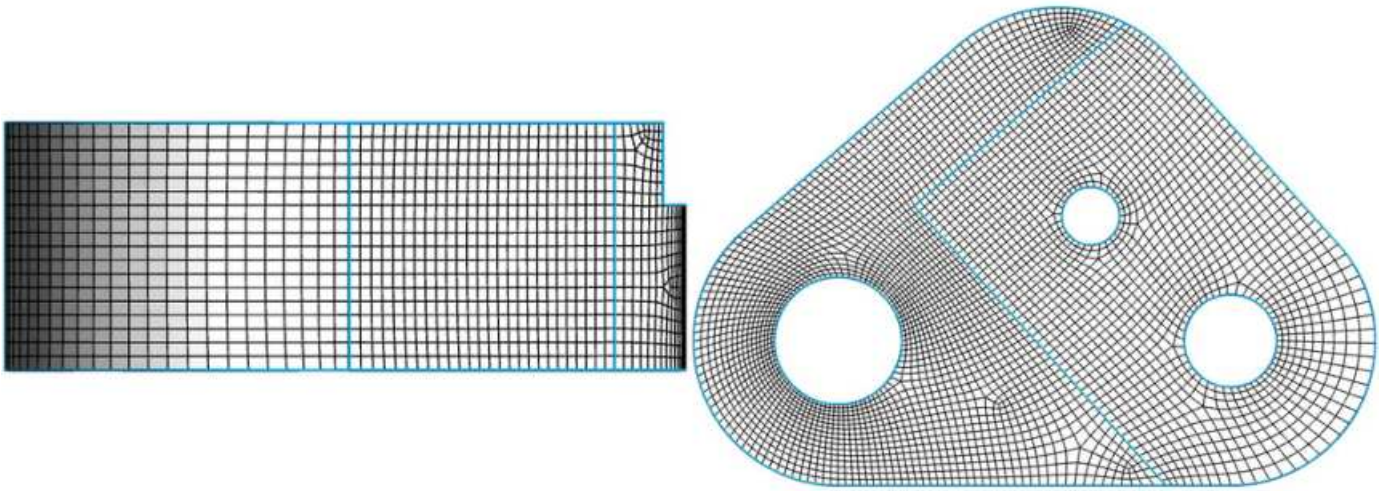
Model: 00002682 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 20 singularities detected
Timings: 12.046 sec to generate the unstructured mesh, 2.98833 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15252	16285	242	84
Quasi-structured	15620	16653	50	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.141762	0.631081	1.54333	0.442061	0.97569	0.993109
Quasi-structured	0.233362	0.621917	1.73672	0.518073	0.984238	0.995908



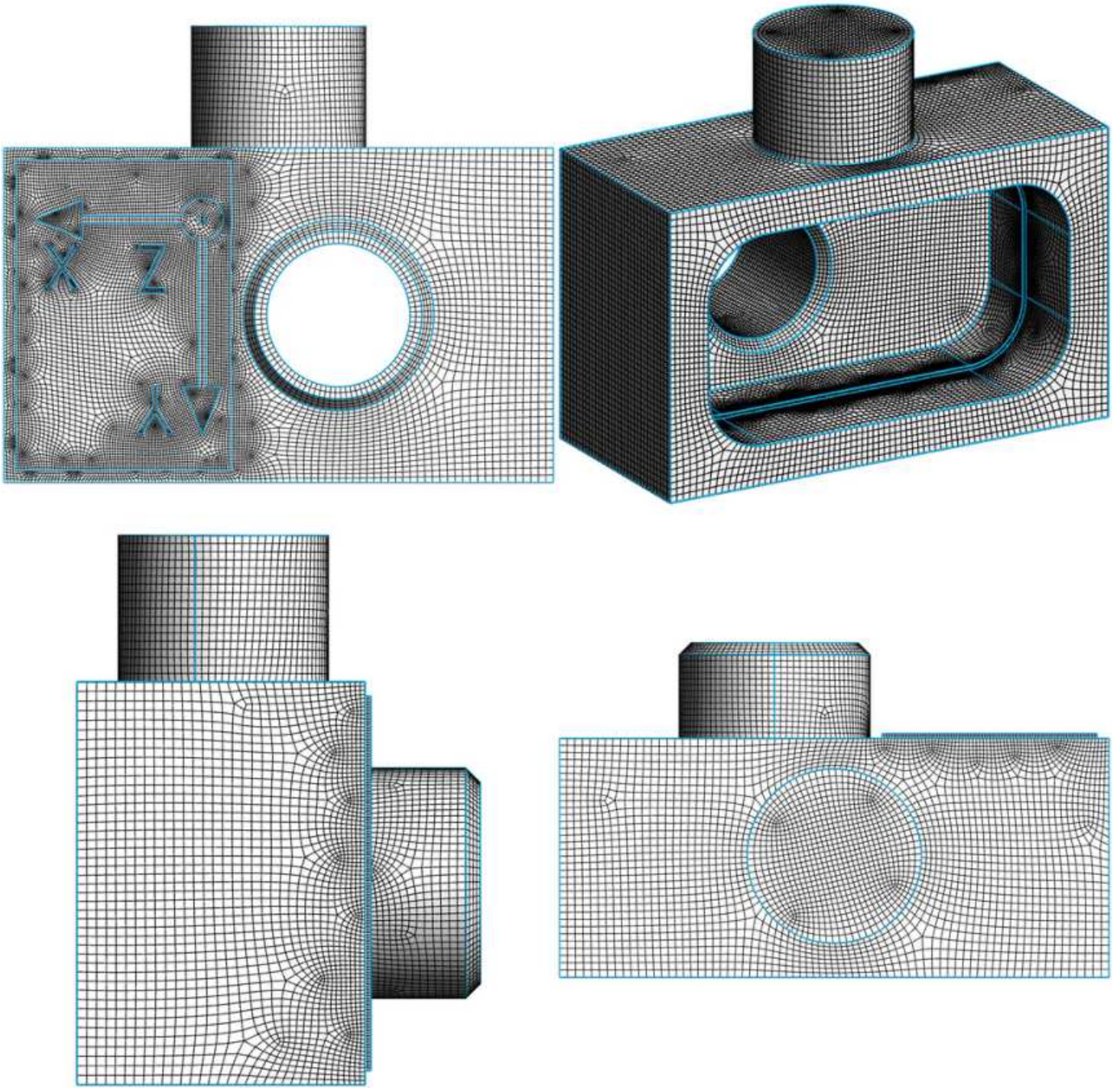


Model: 00002689 (from ABC dataset)
CAD: 145 corners, 218 curves, 85 faces
Cross field: 45 singularities detected
Timings: 16.345 sec to generate the unstructured mesh, 93.4801 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	47714	53433	1820	165
Quasi-structured	49814	55533	465	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0233751	0.19091	0.590391	0.349347	0.95352	0.989535
Quasi-structured	0.0274479	0.185469	0.631749	0.307955	0.971533	0.990015

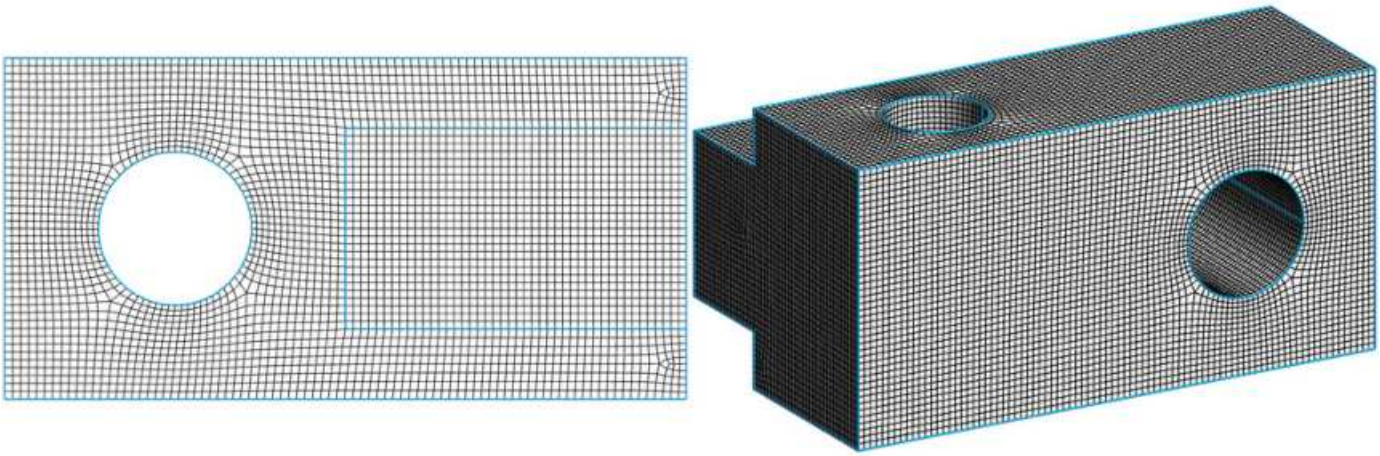


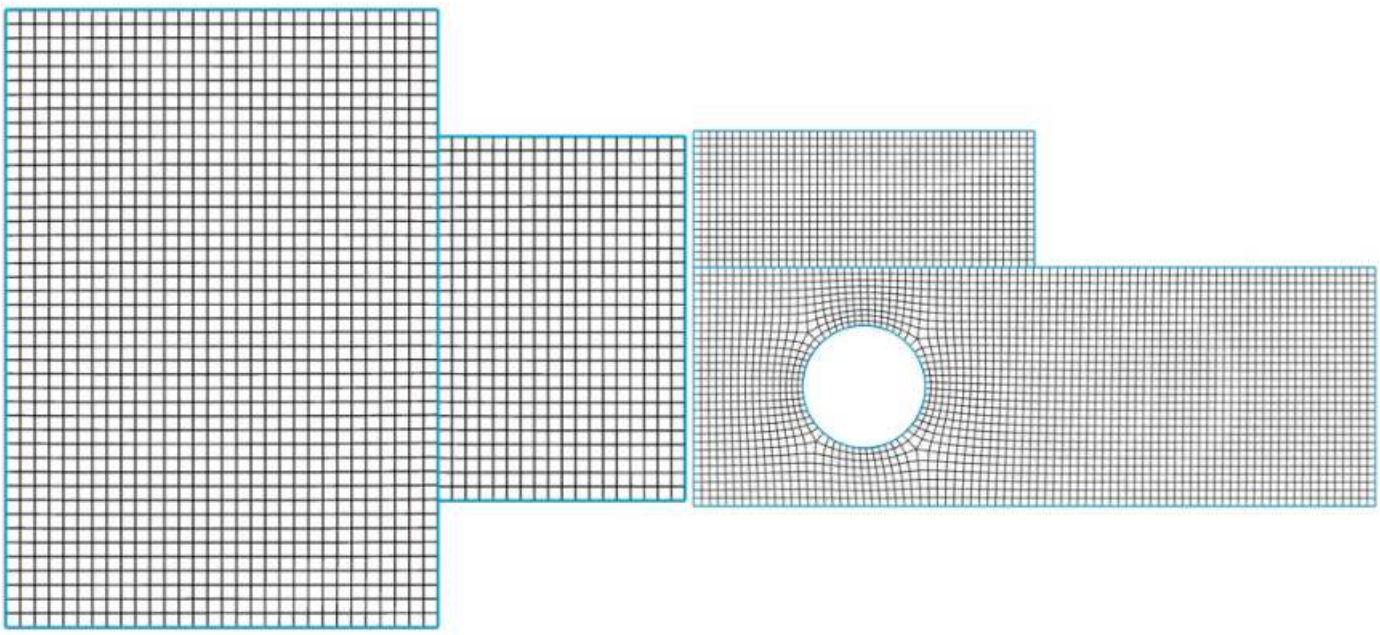
Model: 00002694 (from ABC dataset)
CAD: 21 corners, 31 curves, 12 faces
Cross field: 16 singularities detected
Timings: 20.3027 sec to generate the unstructured mesh, 3.10308 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22122	23324	148	89
Quasi-structured	22356	23558	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0757216	0.223331	0.408027	0.44838	0.990258	0.999556
Quasi-structured	0.119938	0.221888	0.398137	0.829445	0.997446	0.999649



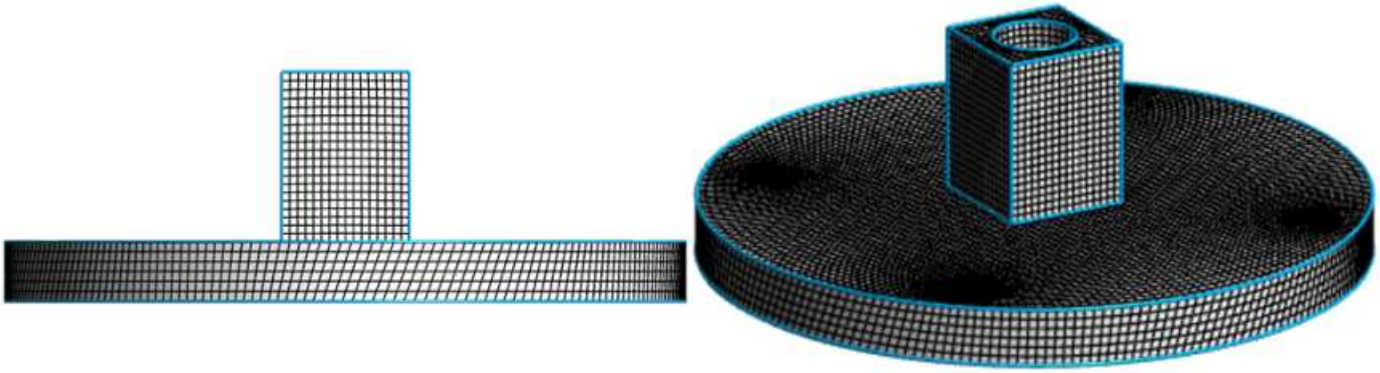


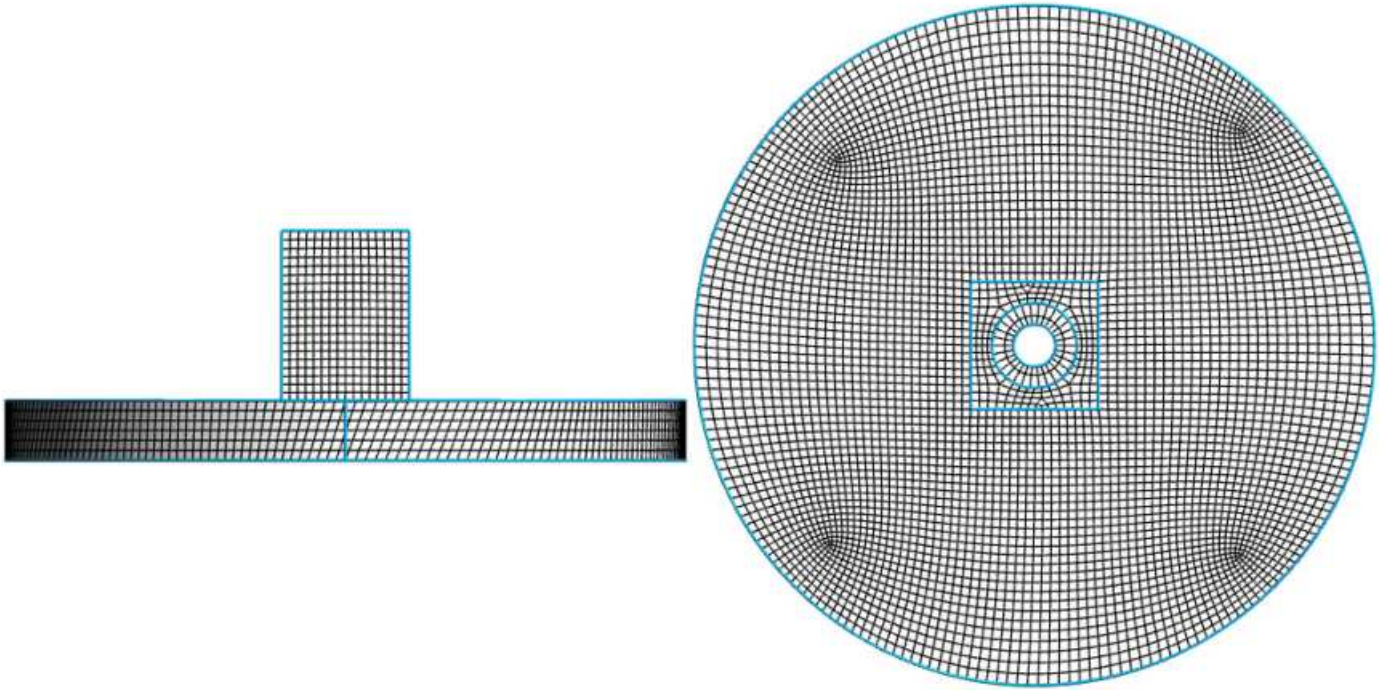
Model: 00002698 (from ABC dataset)
CAD: 14 corners, 21 curves, 11 faces
Cross field: 16 singularities detected
Timings: 11.061 sec to generate the unstructured mesh, 1.35013 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14460	15234	160	38
Quasi-structured	14342	15116	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.251877	0.96833	1.55186	0.527851	0.982242	0.994668
Quasi-structured	0.315097	0.969671	1.47401	0.724869	0.990291	0.996287



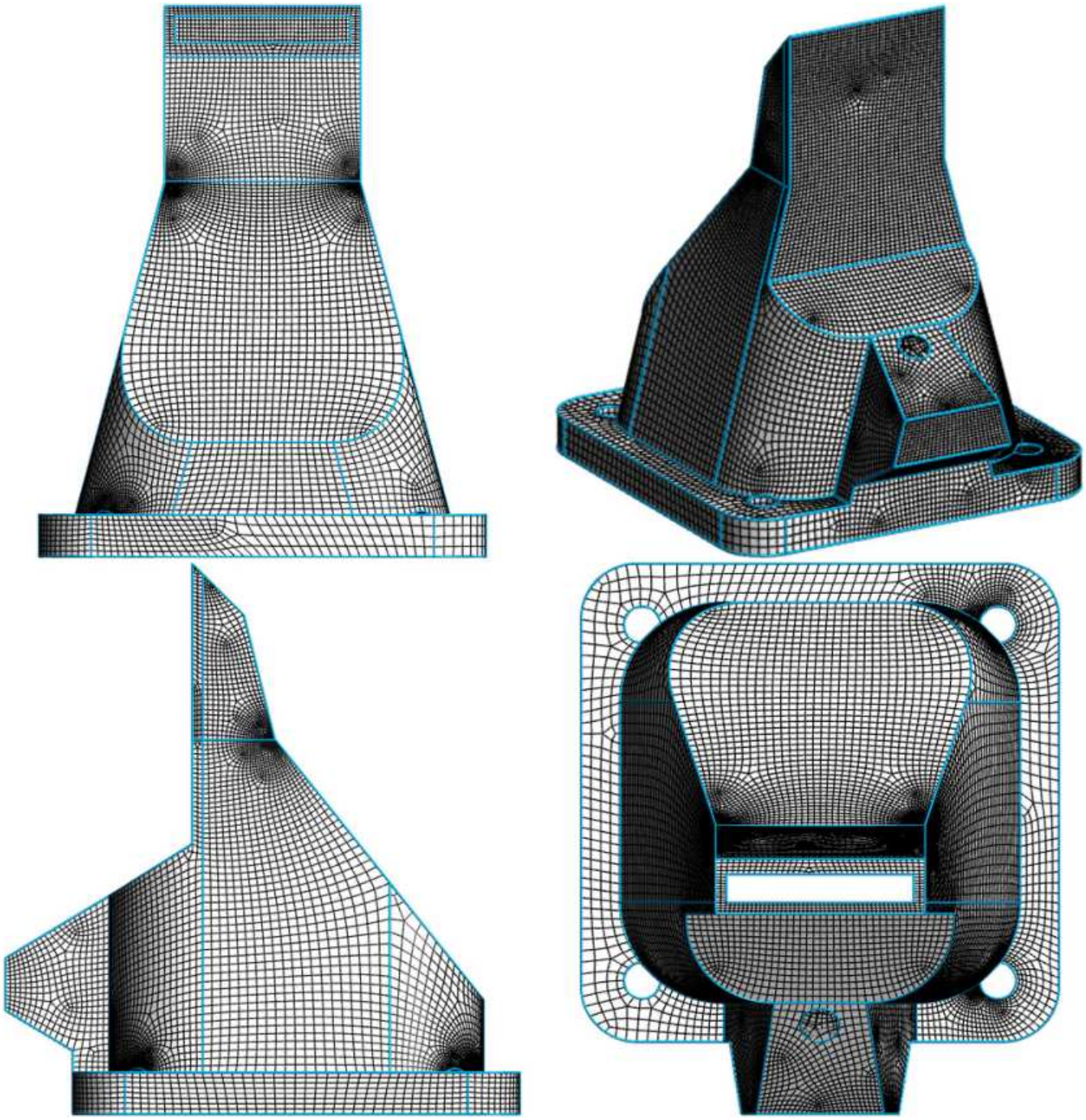


Model: 00002705 (from ABC dataset)
CAD: 147 corners, 230 curves, 82 faces
Cross field: 45 singularities detected
Timings: 16.7096 sec to generate the unstructured mesh, 10.176 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34330	38112	1603	109
Quasi-structured	35327	39109	412	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0186892	0.523603	1.91837	0.0224147	0.941078	0.977623
Quasi-structured	0.00866523	0.520735	1.87783	0.0670508	0.959773	0.983353

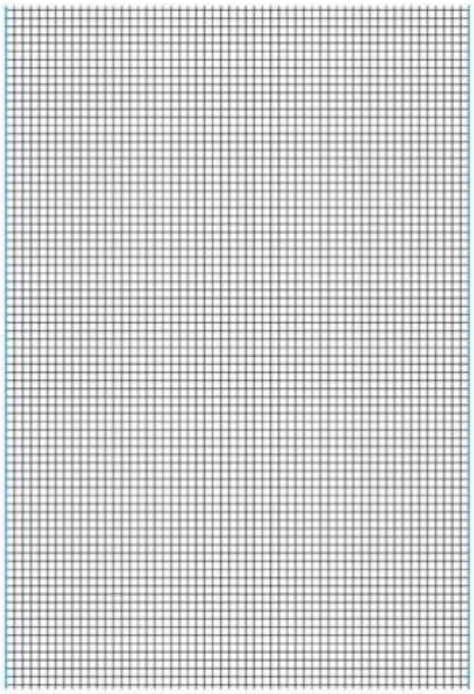
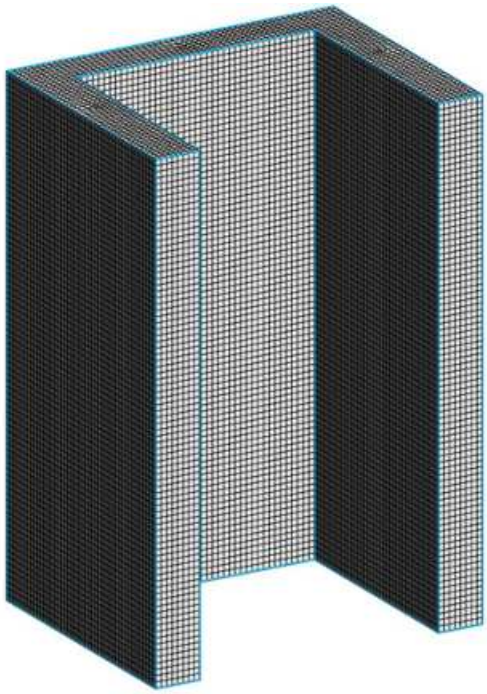
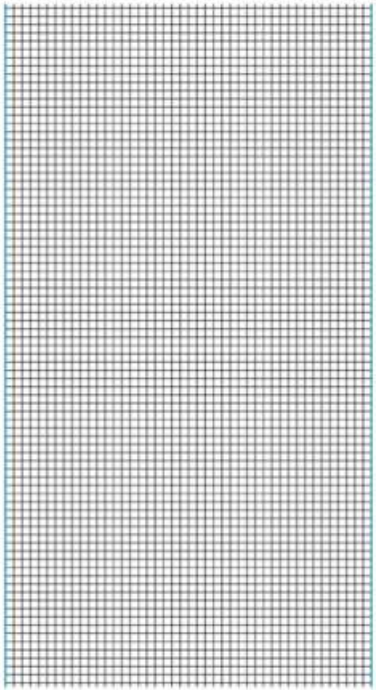
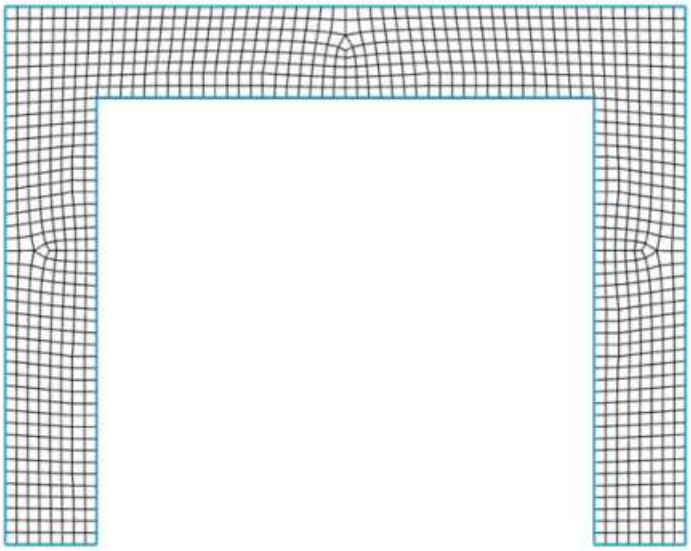


Model: 00002718 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 11.7578 sec to generate the unstructured mesh, 1.14749 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25458	26696	12	0
Quasi-structured	25458	26696	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.149867	0.300481	0.331725	0.843909	0.997931	0.999796
Quasi-structured	0.174386	0.300348	0.393455	0.825152	0.99918	0.999796

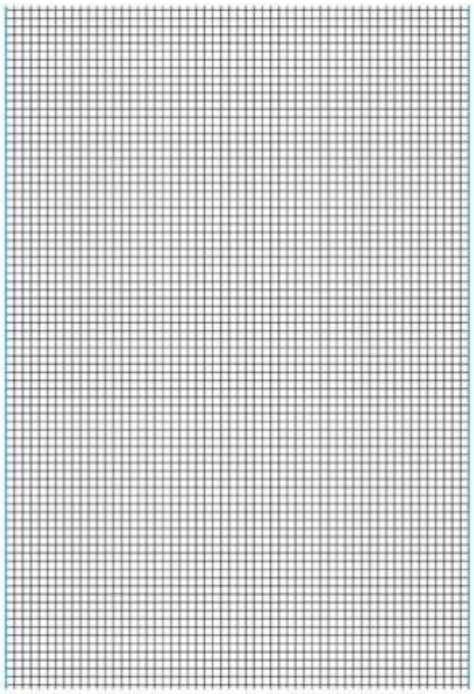





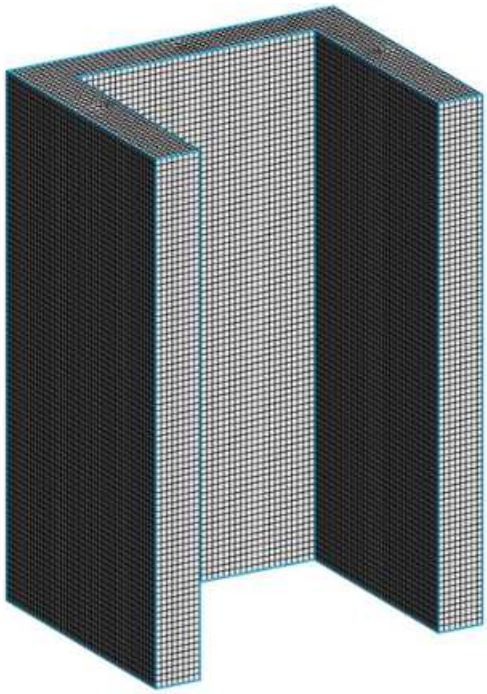
Model: 00002719 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 15.8724 sec to generate the unstructured mesh, 1.77805 sec to make it quasi-structured
Mesh topology:

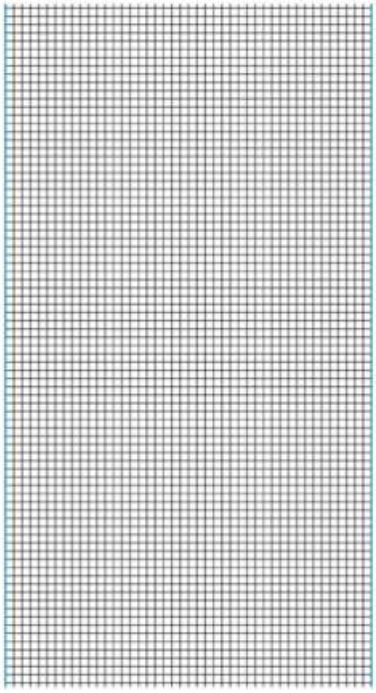
	# quads	# vertices	# irregular	# very irregular
Unstructured	25458	26696	12	0
Quasi-structured	25458	26696	12	0

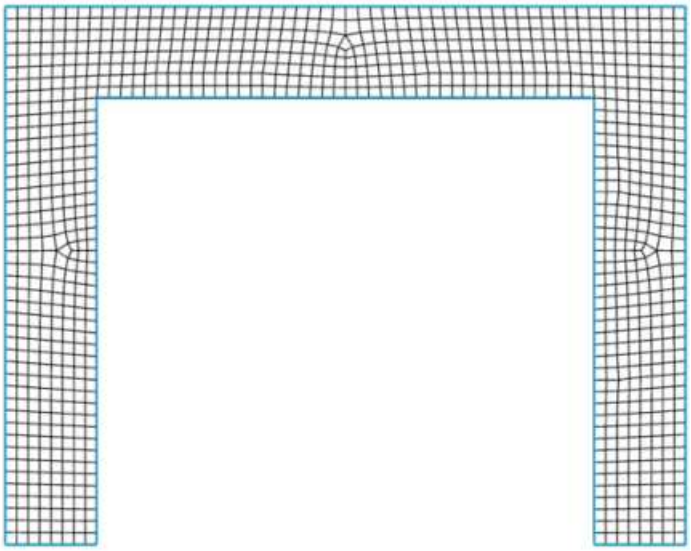
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.147276	0.30048	0.326827	0.827878	0.997923	0.999796
Quasi-structured	0.174388	0.30035	0.393457	0.825516	0.999168	0.999796







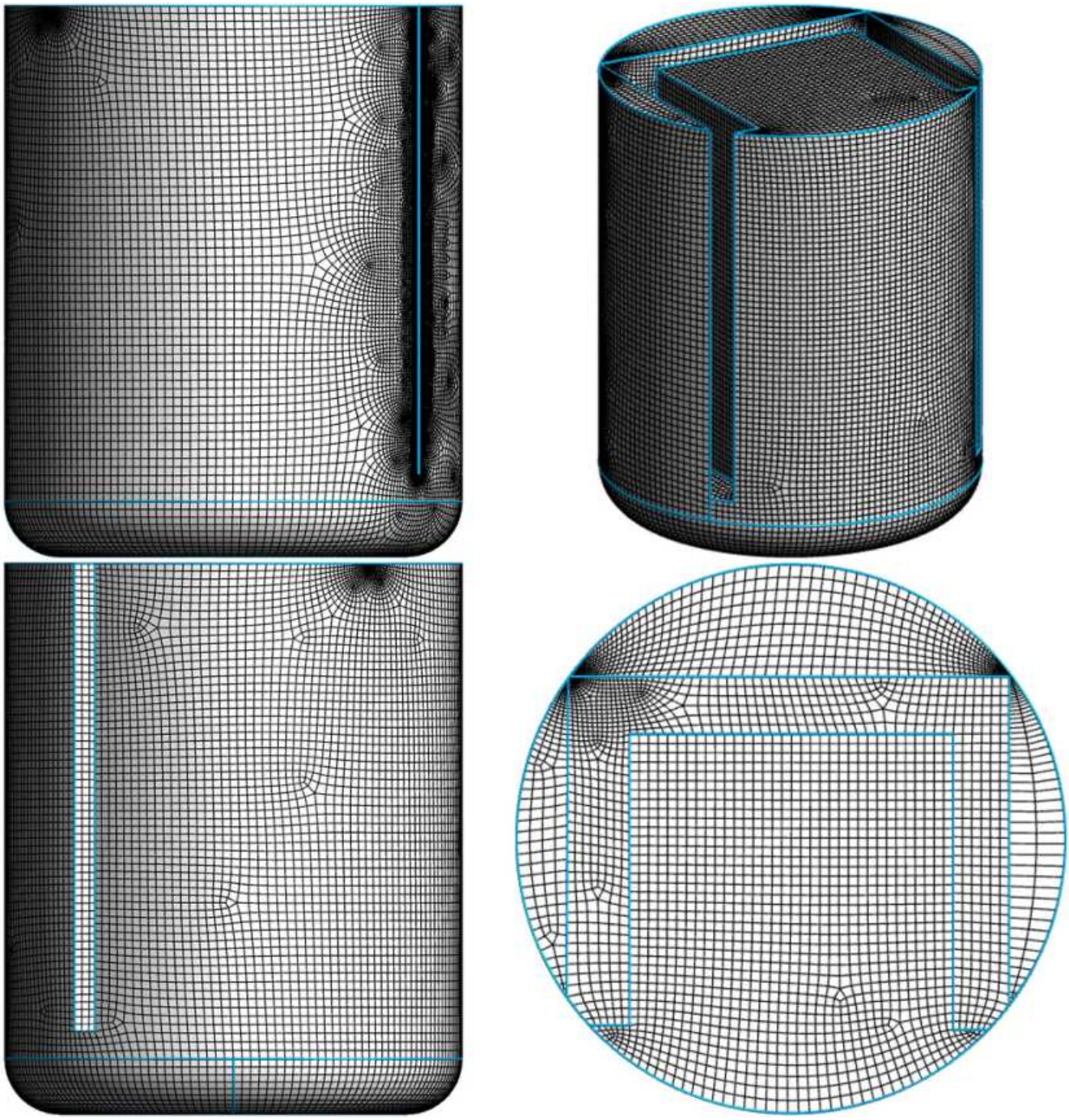


Model: 00002721 (from ABC dataset)
CAD: 25 corners, 38 curves, 15 faces
Cross field: 8 singularities detected
Timings: 17.8891 sec to generate the unstructured mesh, 303.268 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	55784	58403	1838	152
Quasi-structured	57065	59684	845	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.018612	0.228403	0.657648	0.364787	0.95301	0.989755
Quasi-structured	0.0187052	0.223251	1.10752	0.554426	0.984012	0.995073

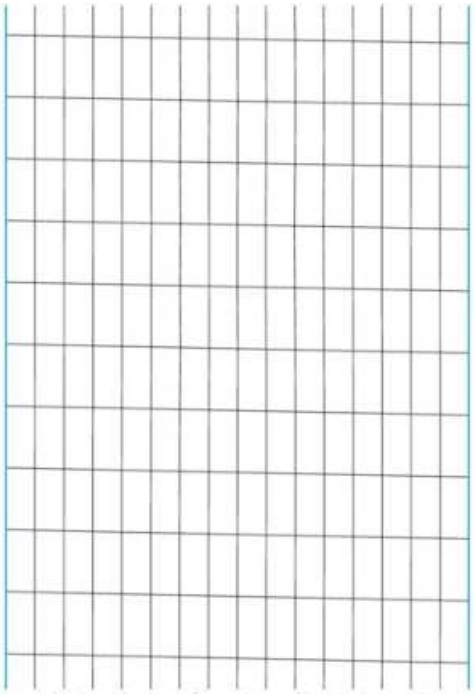


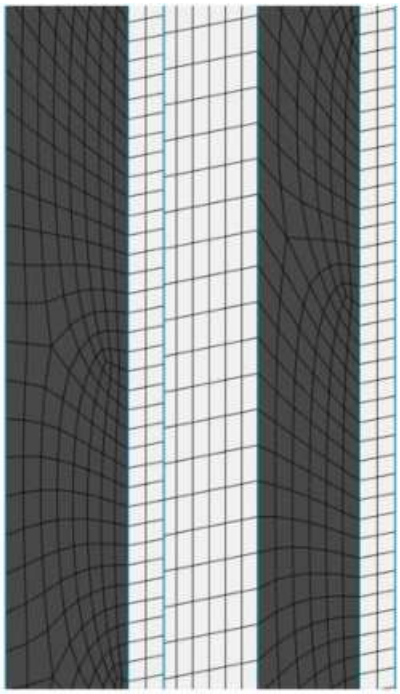
Model: 00002724 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 2.81447 sec to generate the unstructured mesh, 44.3324 sec to make it quasi-structured
Mesh topology:

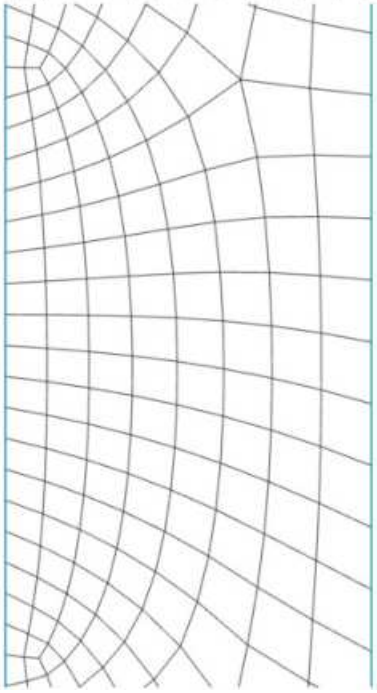
	# quads	# vertices	# irregular	# very irregular
Unstructured	11788	13598	561	29
Quasi-structured	11667	13477	118	0

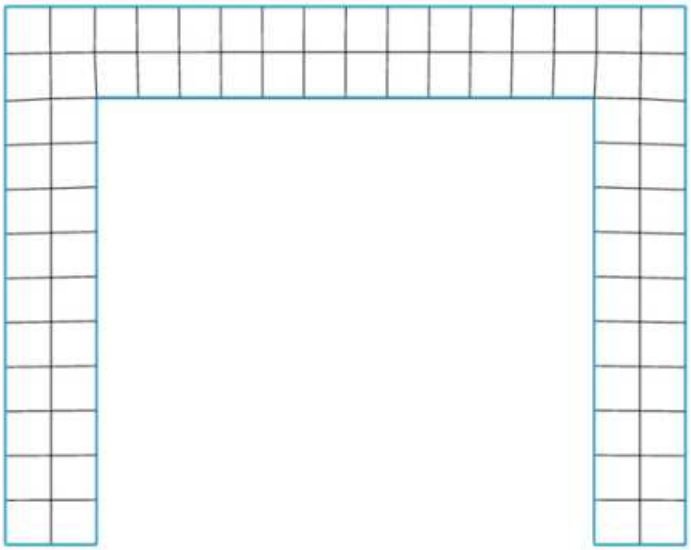
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.400534	1.48116	2.92686	0.407792	0.882408	0.927608
Quasi-structured	0.384531	1.50543	4.00416	0.507466	0.87894	0.893017







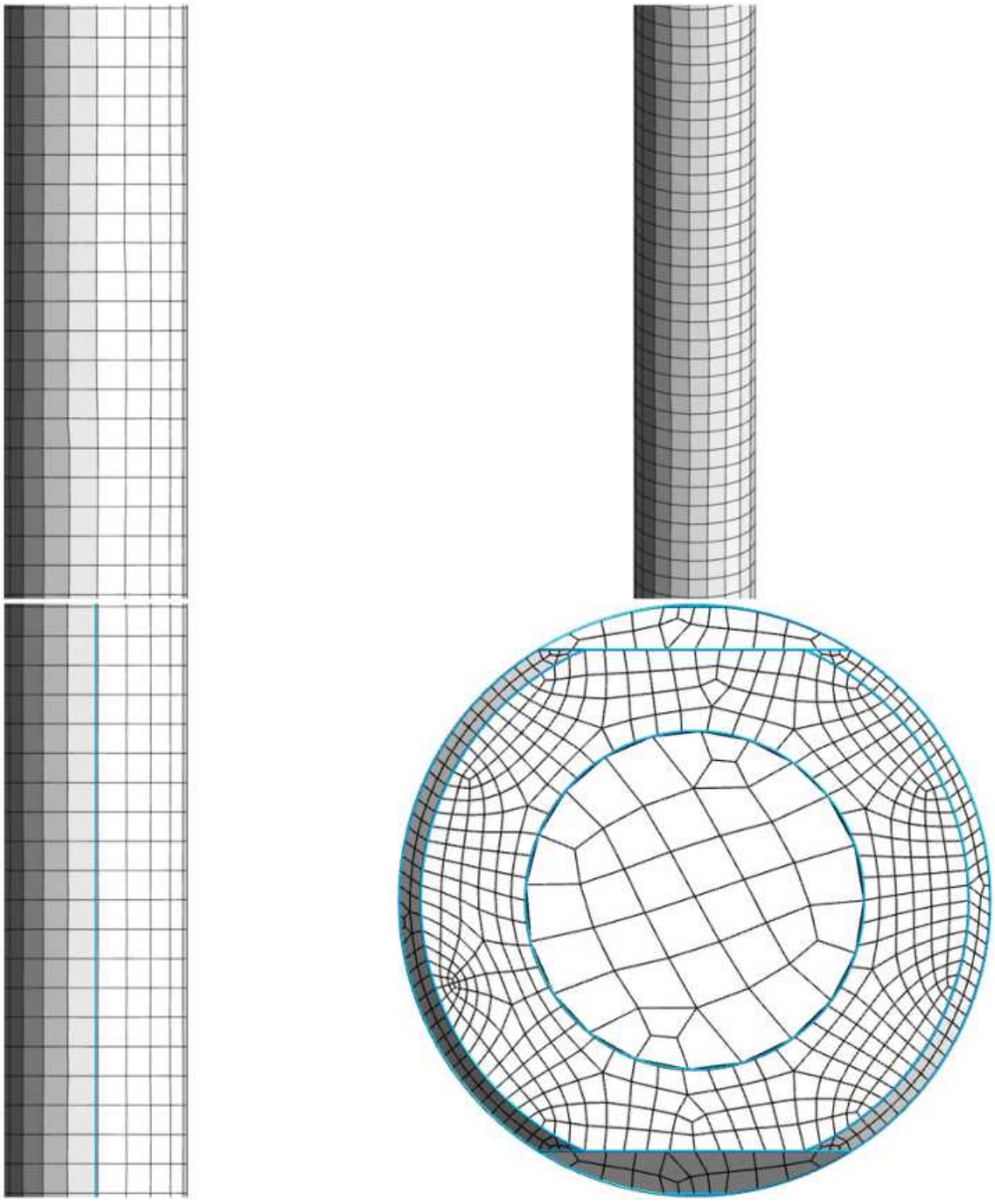


Model: 00002735 (from ABC dataset)
CAD: 22 corners, 33 curves, 15 faces
Cross field: 12 singularities detected
Timings: 1.8583 sec to generate the unstructured mesh, 2.55487 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6214	6770	290	173
Quasi-structured	6240	6796	112	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.01905	0.88128	1.76862	0.0625824	0.9471	0.987693
Quasi-structured	0.0190197	0.872409	3.36422	0.0782903	0.968357	0.989573

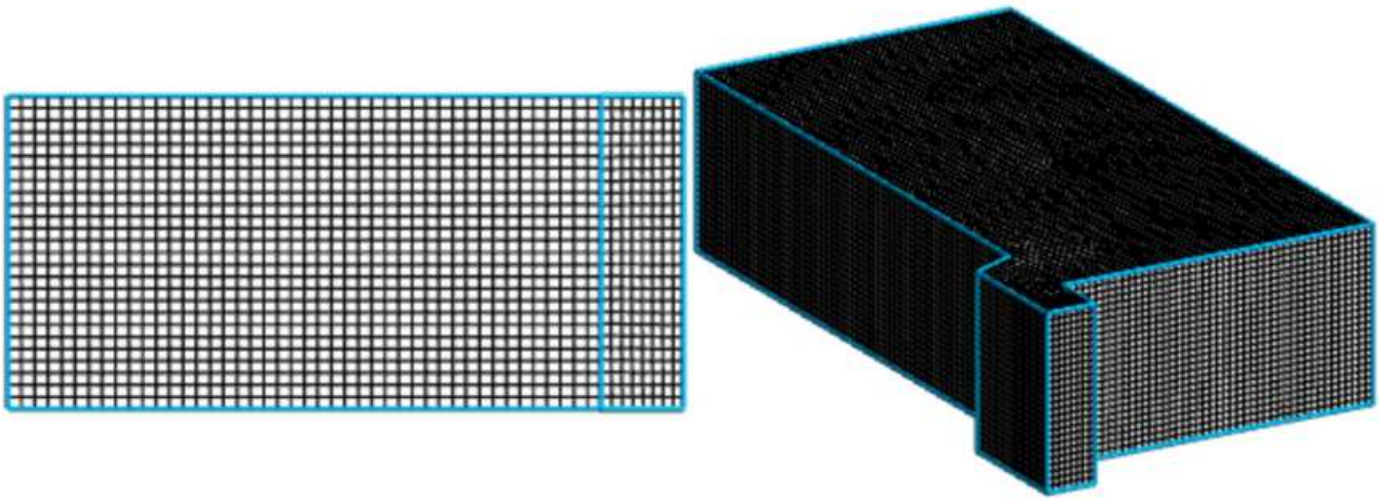


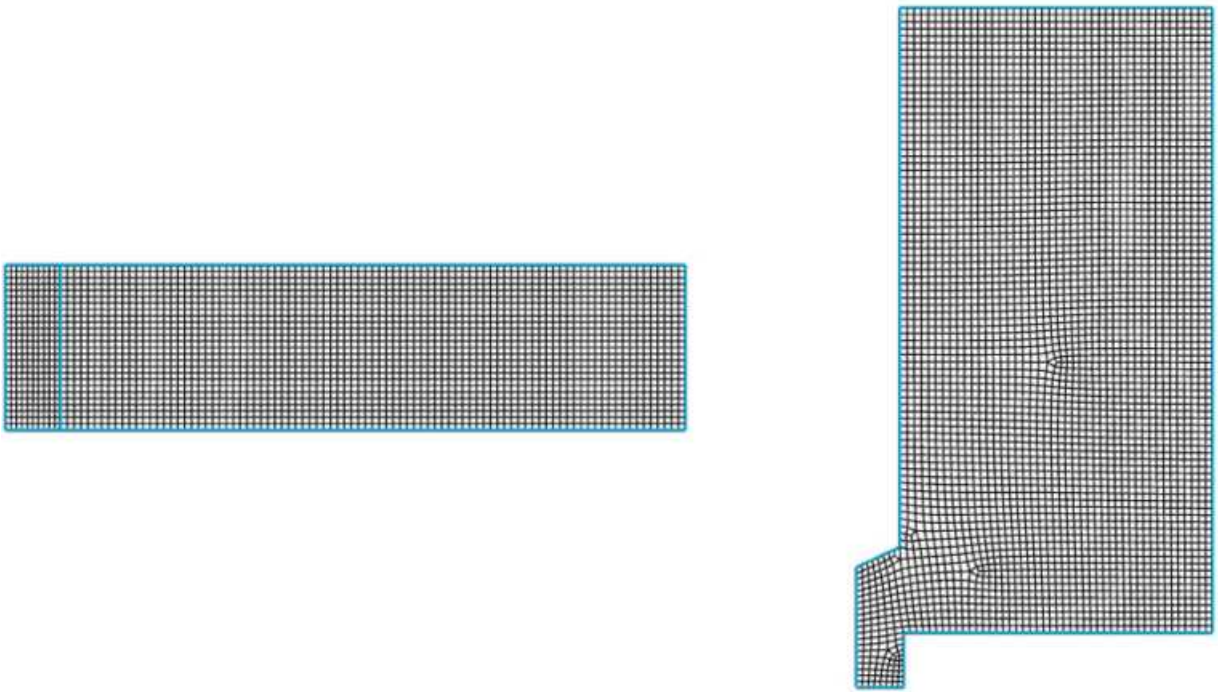
Model: 00002745 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 10.0113 sec to generate the unstructured mesh, 2.4834 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16074	16896	47	0
Quasi-structured	16035	16857	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.301436	0.782668	1.27503	0.588443	0.99383	0.998208
Quasi-structured	0.424069	0.783064	1.43575	0.697388	0.996736	0.998423



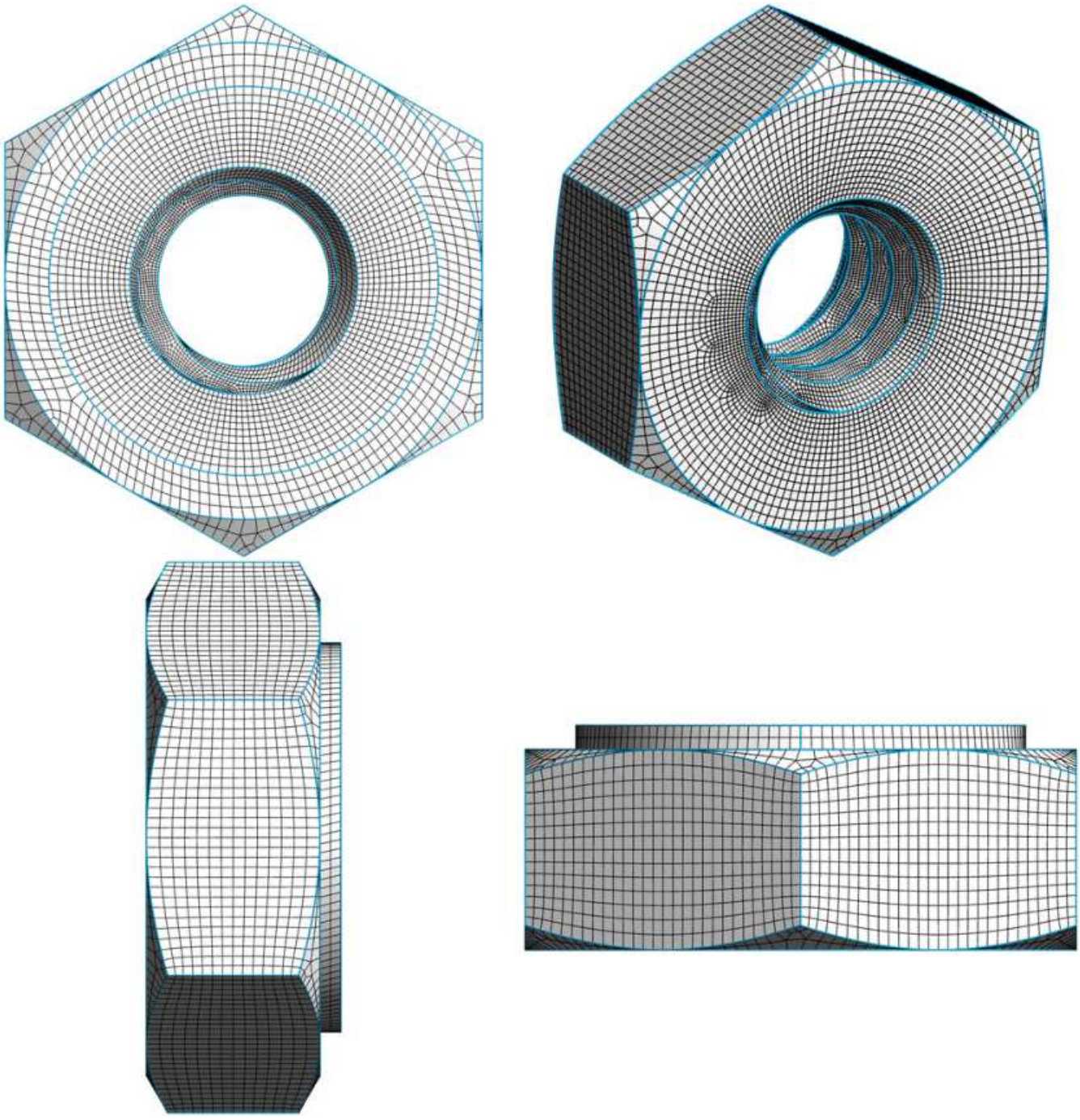


Model: 00002758 (from ABC dataset)
CAD: 56 corners, 85 curves, 32 faces
Cross field: 47 singularities detected
Timings: 25.8561 sec to generate the unstructured mesh, 194.293 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28720	33823	849	17
Quasi-structured	28753	33856	375	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00226647	0.0846696	0.335969	0.0158098	0.937758	0.989458
Quasi-structured	0.00194487	0.0841237	0.350111	0.0234009	0.939879	0.97882

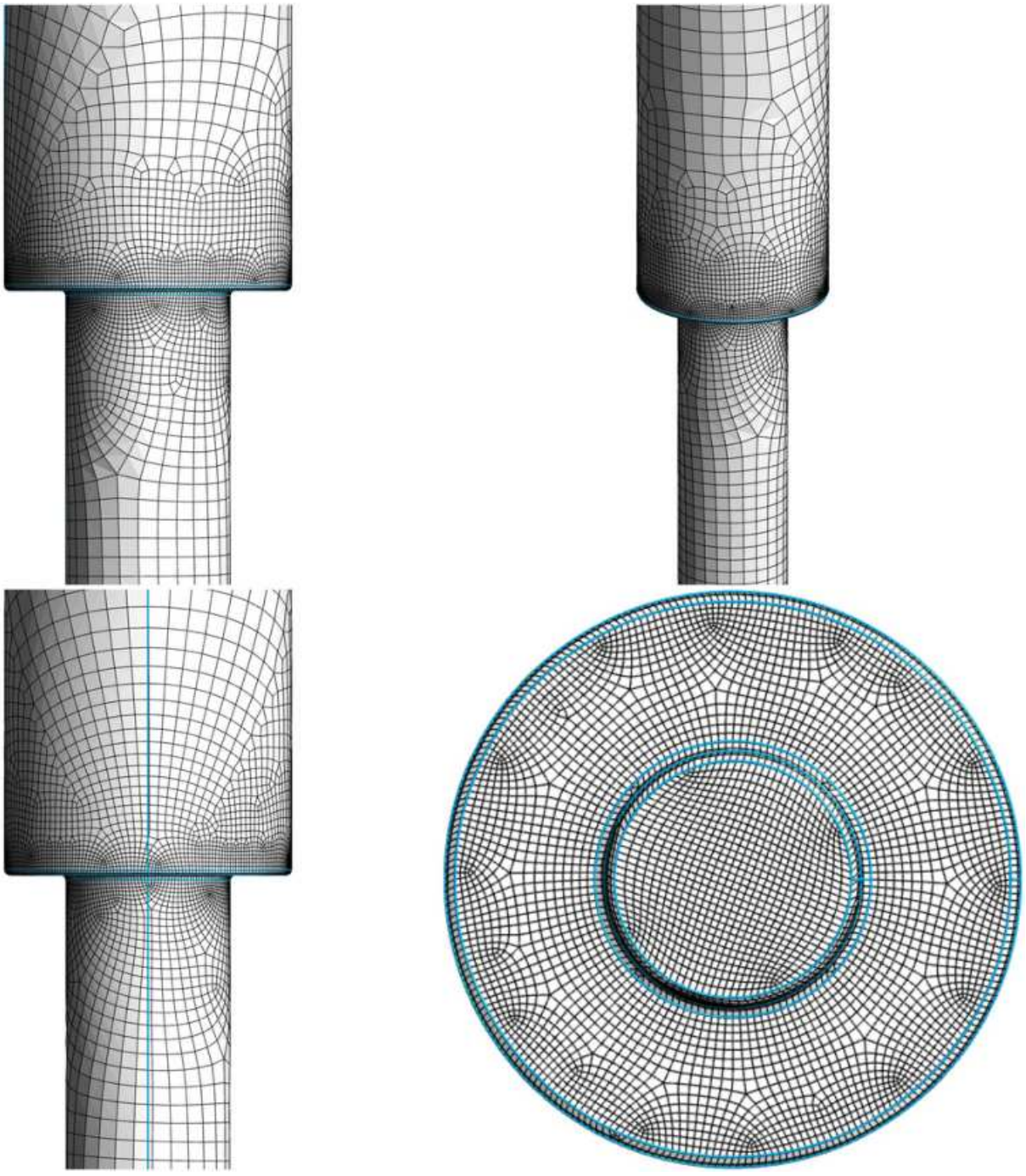


Model: 00002799 (from ABC dataset)
CAD: 17 corners, 29 curves, 17 faces
Cross field: 8 singularities detected
Timings: 5.91089 sec to generate the unstructured mesh, 127.136 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25700	28242	1331	327
Quasi-structured	27404	29946	512	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0953851	0.522096	2.88244	0.413684	0.934498	0.977977
Quasi-structured	0.0596639	0.501002	3.27732	0.350014	0.941782	0.979099

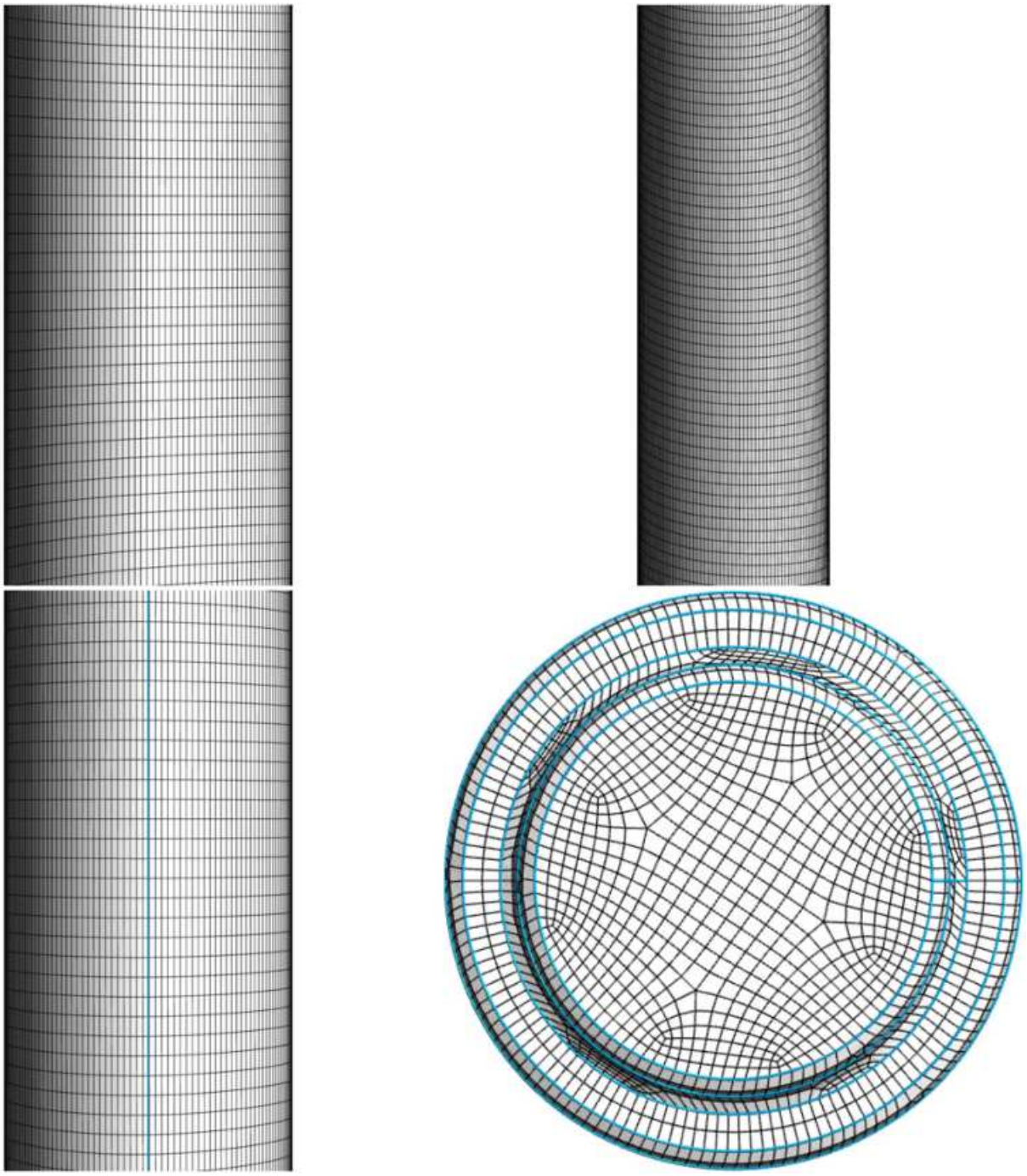


Model: 00002800 (from ABC dataset)
CAD: 12 corners, 21 curves, 13 faces
Cross field: 8 singularities detected
Timings: 3.41551 sec to generate the unstructured mesh, 4.23227 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12842	14364	516	181
Quasi-structured	22092	23614	124	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0929893	0.482906	1.52344	0.270626	0.941775	0.984901
Quasi-structured	0.0508491	0.45889	0.874007	0.279622	0.708777	0.611388

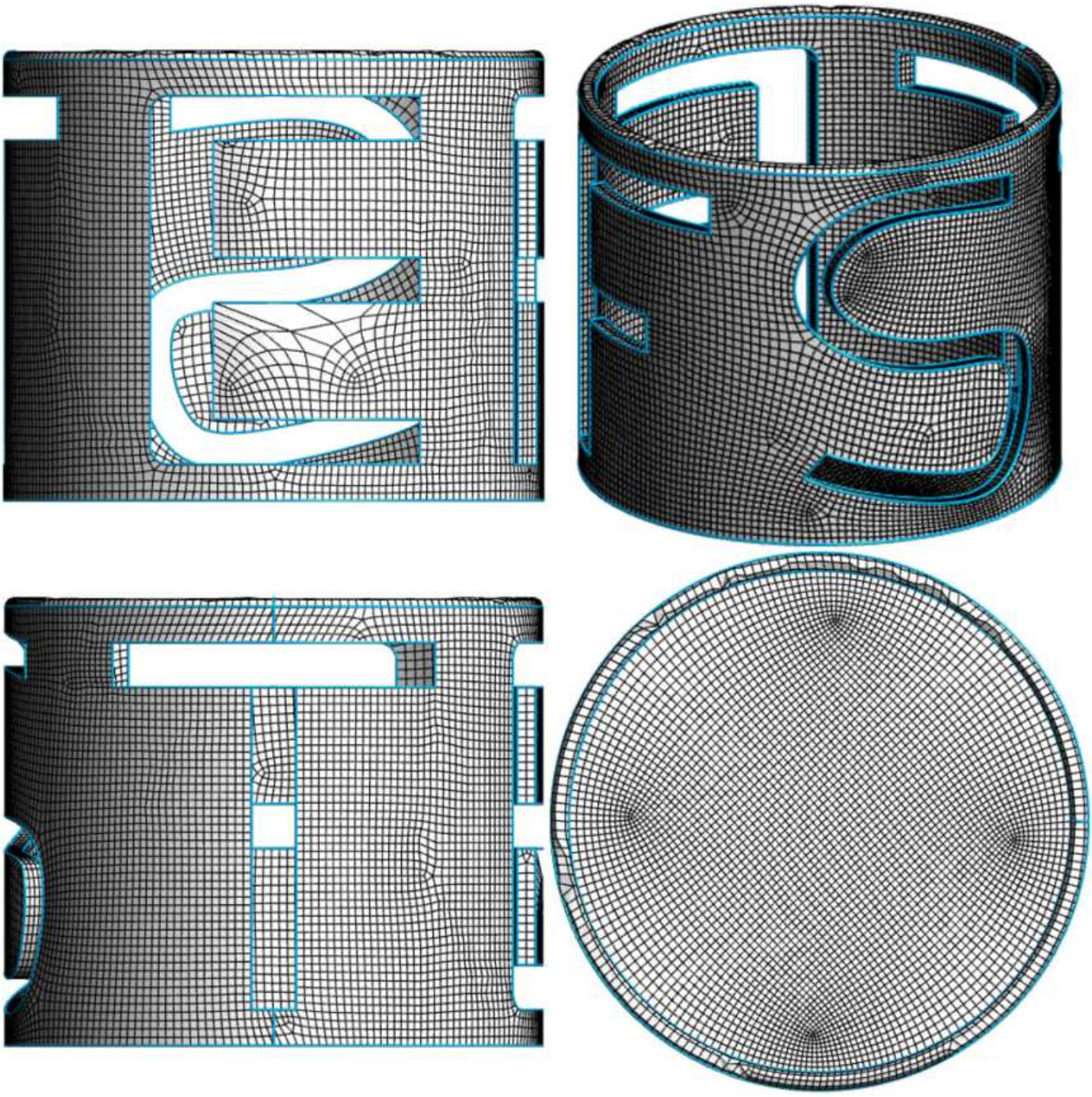


Model: 00002804 (from ABC dataset)
CAD: 82 corners, 124 curves, 42 faces
Cross field: 30 singularities detected
Timings: 29.5957 sec to generate the unstructured mesh, 12.6175 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27922	30675	453	35
Quasi-structured	28630	31383	142	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0189982	0.867643	9.10095	0.0204856	0.952572	0.988865
Quasi-structured	0.0190252	0.851628	9.24879	0.0205692	0.966381	0.994545

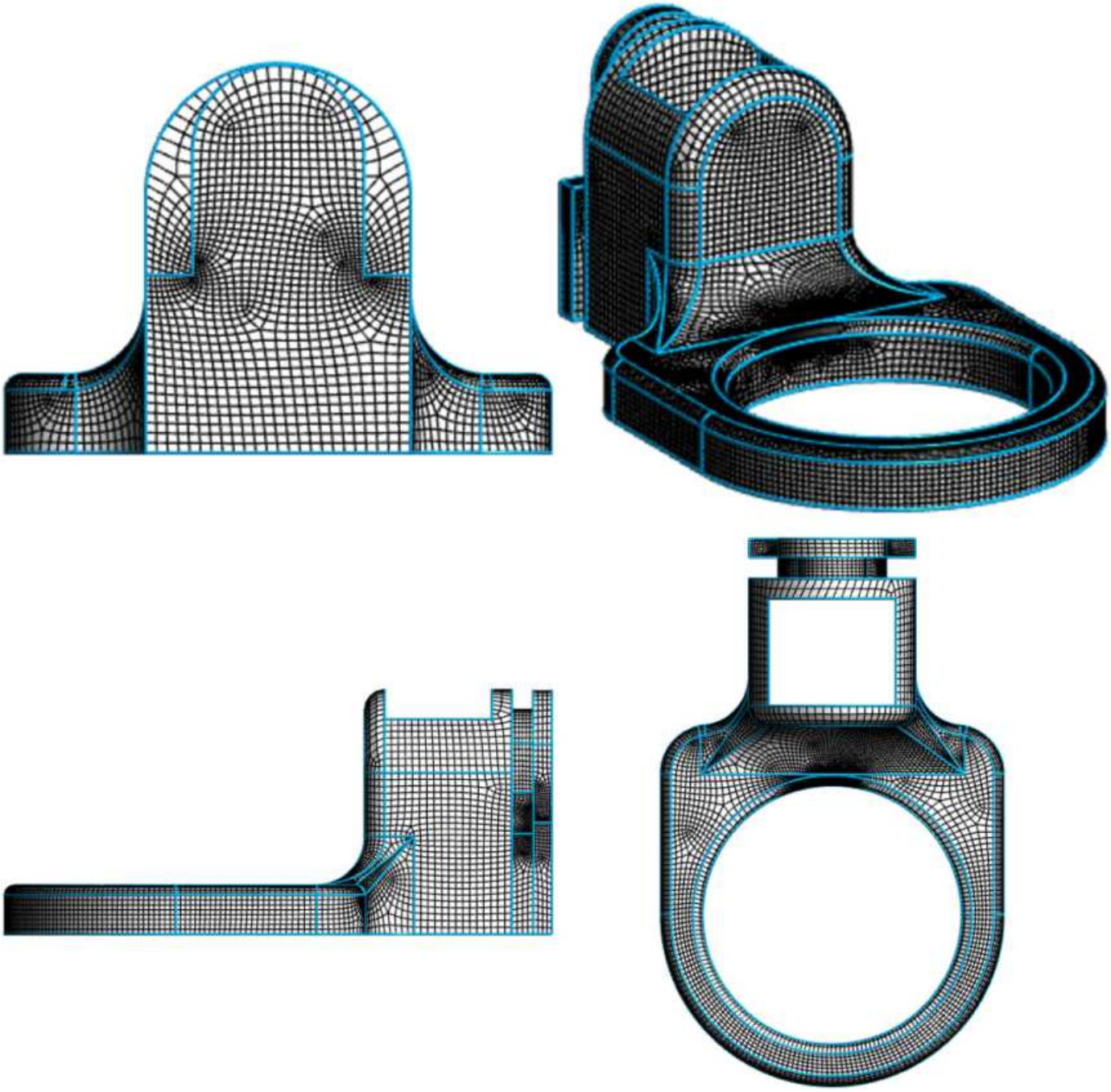


Model: 00002805 (from ABC dataset)
CAD: 83 corners, 139 curves, 53 faces
Cross field: 34 singularities detected
Timings: 7.79594 sec to generate the unstructured mesh, 6.69276 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19996	23022	865	53
Quasi-structured	21025	24051	216	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0193978	0.473522	1.14071	0.0331494	0.927077	0.975667
Quasi-structured	0.0231628	0.46073	1.94069	0.156409	0.94322	0.97969

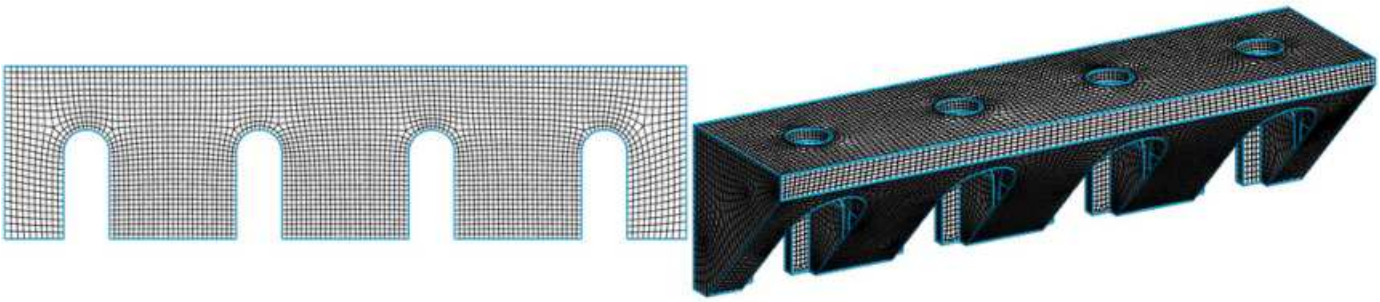


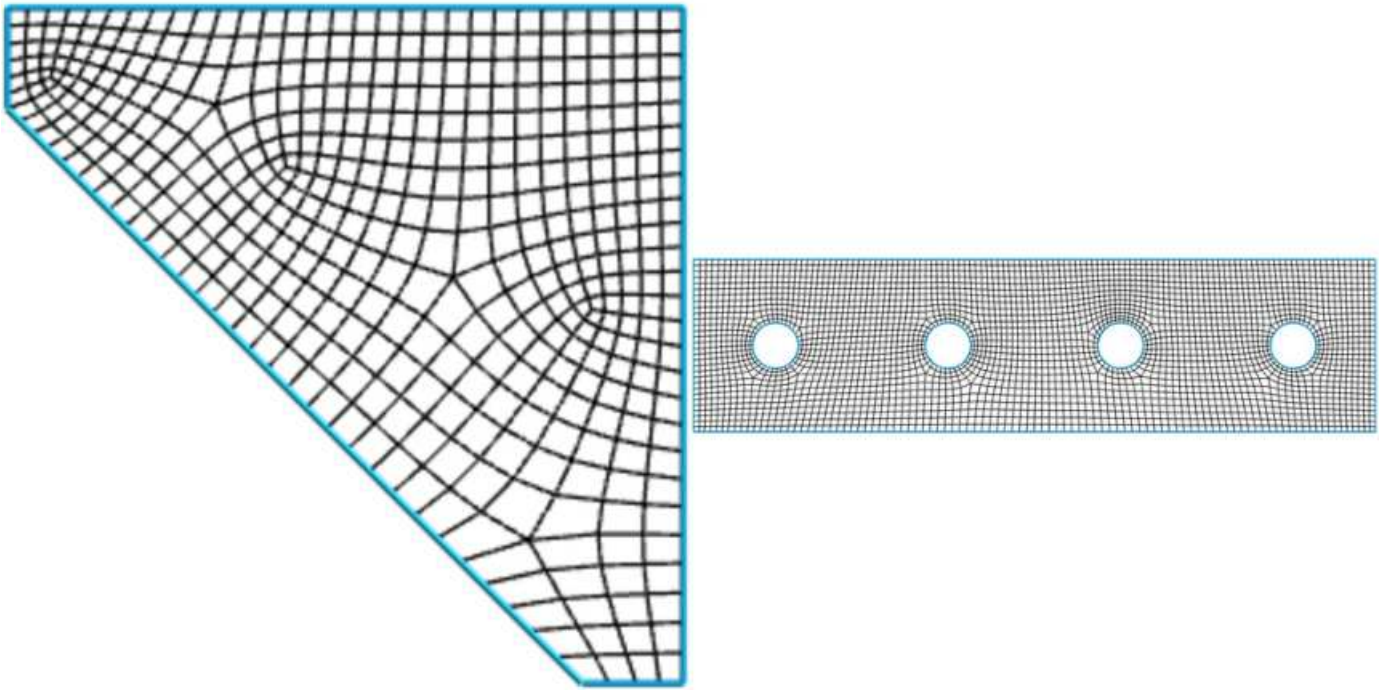
Model: 00002818 (from ABC dataset)
CAD: 122 corners, 183 curves, 63 faces
Cross field: 68 singularities detected
Timings: 15.7471 sec to generate the unstructured mesh, 5.16988 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16964	19591	684	65
Quasi-structured	17539	20166	200	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.128492	0.651544	1.43904	0.236618	0.940019	0.973795
Quasi-structured	0.129074	0.641811	2.19739	0.337562	0.947813	0.976572



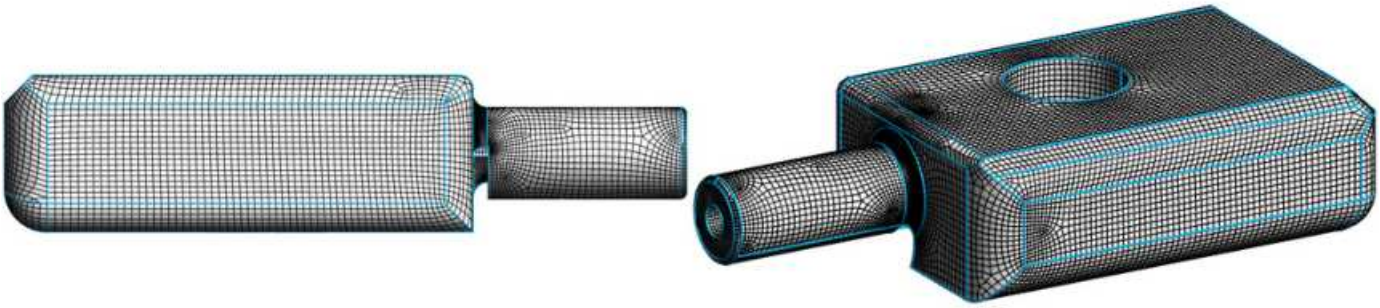


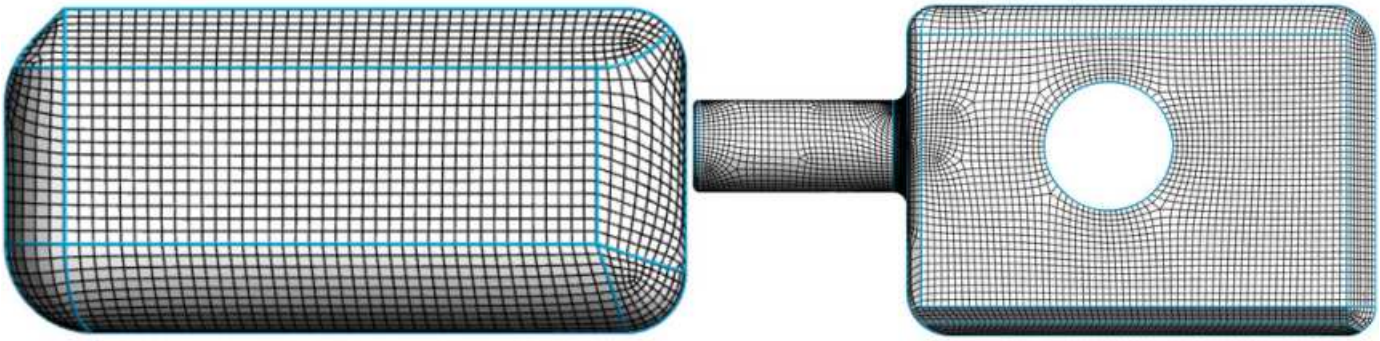
Model: 00002843 (from ABC dataset)
CAD: 67 corners, 112 curves, 40 faces
Cross field: 41 singularities detected
Timings: 13.0075 sec to generate the unstructured mesh, 5.73808 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26876	29552	743	173
Quasi-structured	26904	29580	142	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0391834	1.01477	2.41583	0.109692	0.942524	0.985226
Quasi-structured	0.0644869	1.01934	3.37929	0.162881	0.959262	0.988556



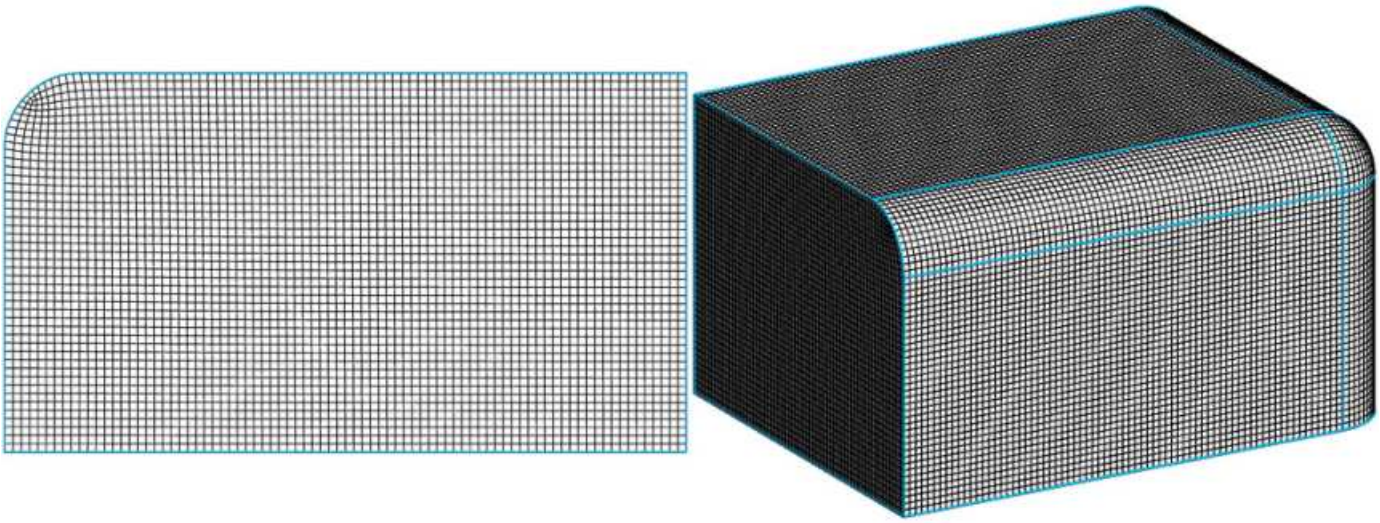


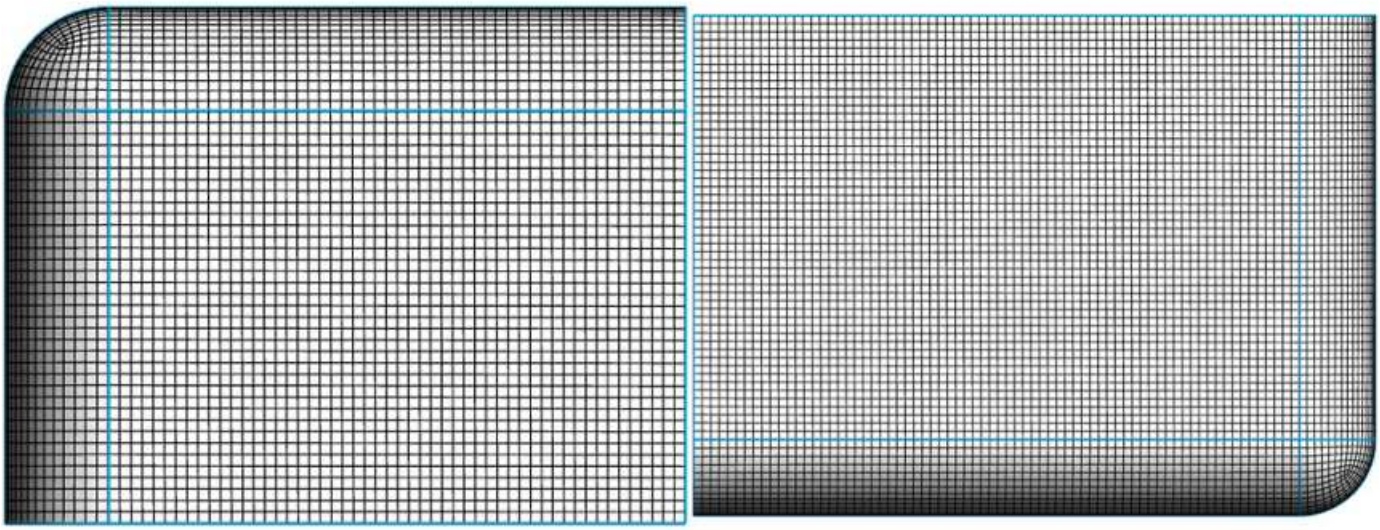
Model: 00002844 (from ABC dataset)
CAD: 13 corners, 22 curves, 10 faces
Cross field: 4 singularities detected
Timings: 12.4216 sec to generate the unstructured mesh, 1.39066 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22094	23020	76	1
Quasi-structured	22152	23078	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.229852	0.55637	0.914381	0.593387	0.995452	0.999759
Quasi-structured	0.238239	0.555258	0.721955	0.850095	0.999308	0.999885



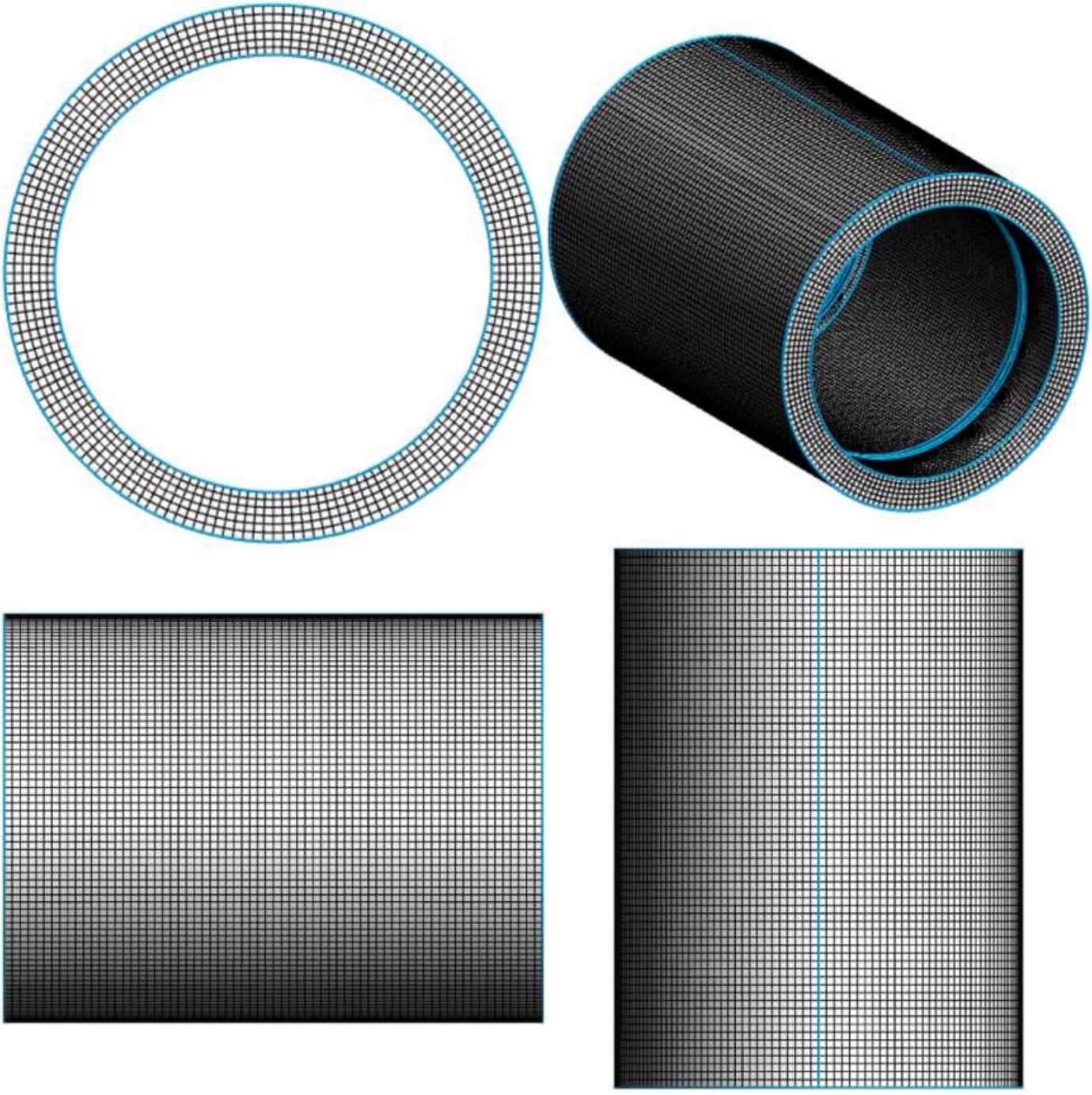


Model: 00002851 (from ABC dataset)
CAD: 16 corners, 26 curves, 16 faces
Cross field: 0 singularities detected
Timings: 17.1392 sec to generate the unstructured mesh, 15.0276 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	35644	39500	394	200
Quasi-structured	36671	40527	194	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.162307	0.774388	1.58092	0.42533	0.969316	0.997397
Quasi-structured	0.184563	0.760321	1.44283	0.301081	0.976056	0.991554

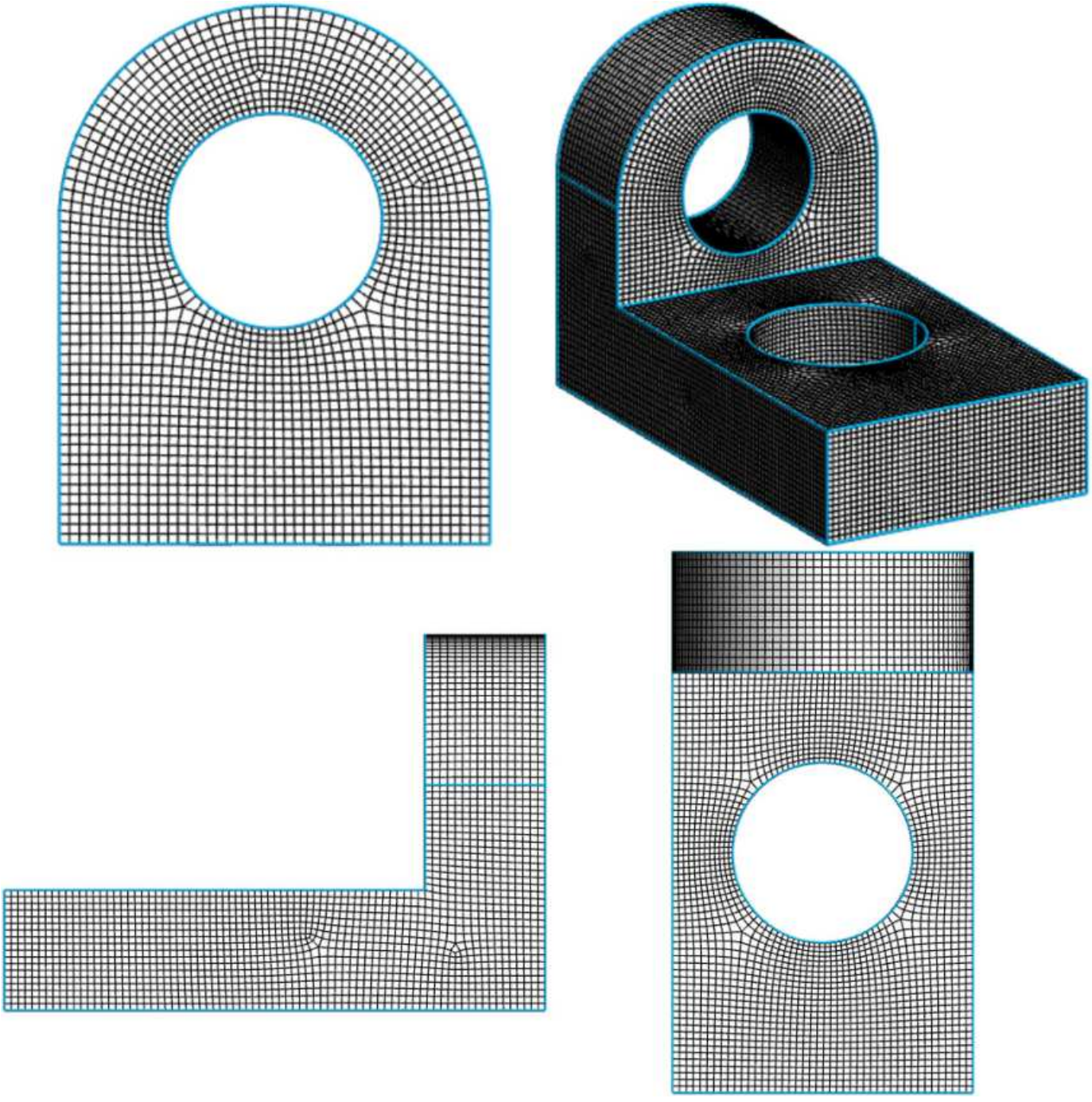


Model: 00002852 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 12 singularities detected
Timings: 8.36675 sec to generate the unstructured mesh, 1.46388 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17678	18810	176	49
Quasi-structured	18176	19308	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.137726	0.429005	0.882905	0.514166	0.985704	0.997189
Quasi-structured	0.22301	0.422203	0.87597	0.747939	0.994603	0.998059

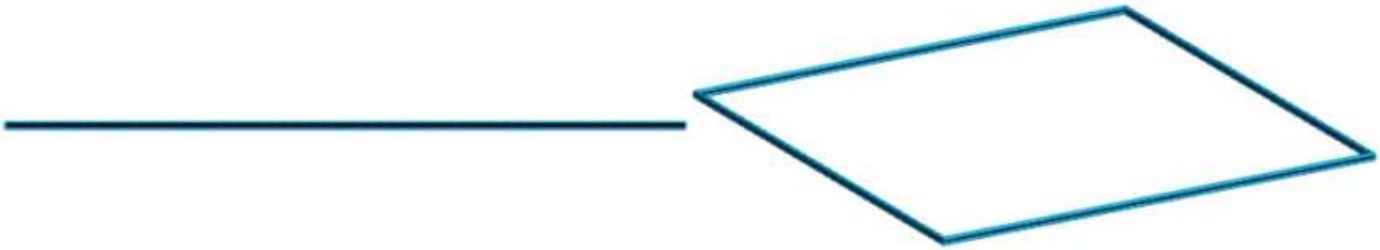


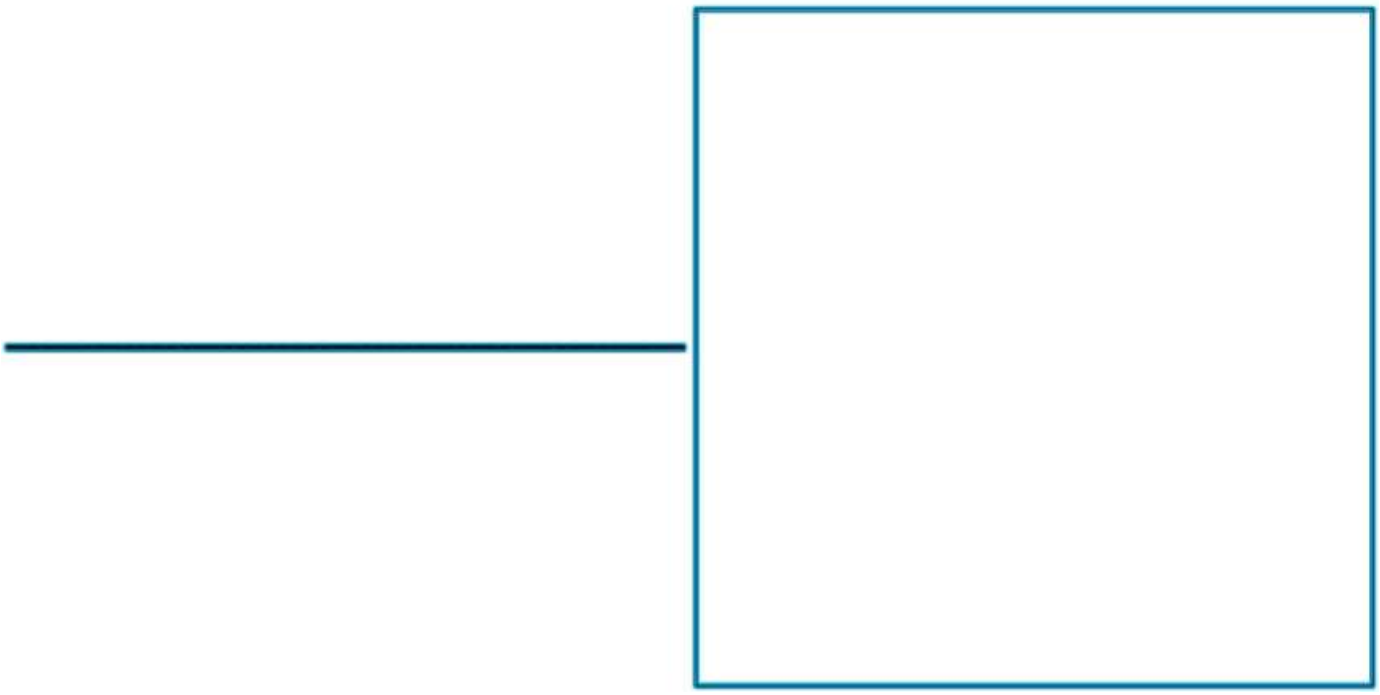
Model: 00002855 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 1.95733 sec to generate the unstructured mesh, 1.70443 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19104	25512	0	0
Quasi-structured	19104	25512	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.249515	0.250254	0.287585	0.955796	0.997892	0.999998
Quasi-structured	0.248433	0.250254	0.287585	0.966522	0.997892	0.999998



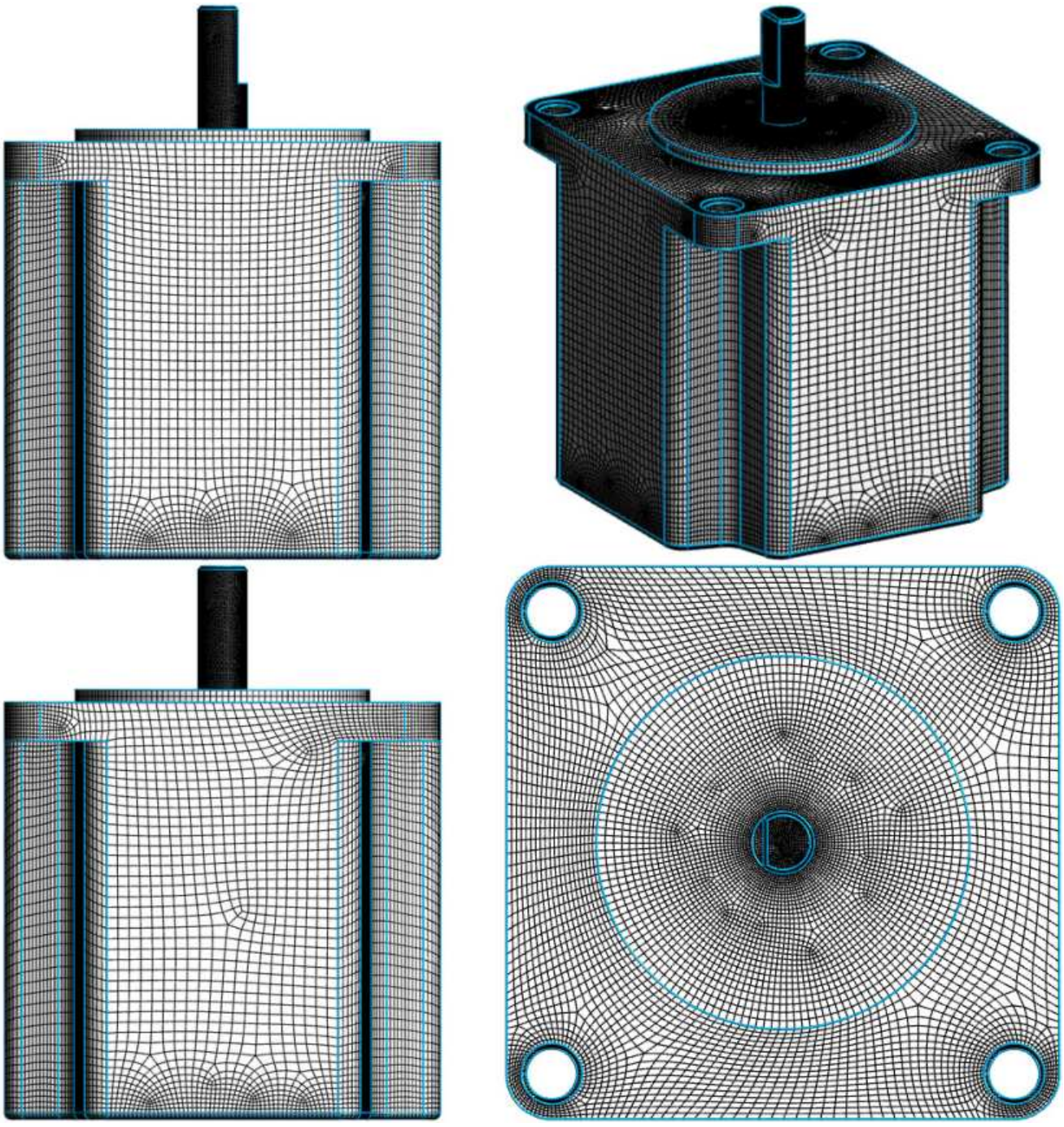


Model: 00002866 (from ABC dataset)
CAD: 121 corners, 197 curves, 81 faces
Cross field: 59 singularities detected
Timings: 20.1394 sec to generate the unstructured mesh, 21.3089 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	43734	48312	1342	143
Quasi-structured	45439	50017	428	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.064407	0.559636	2.26722	0.000339881	0.923593	0.977505
Quasi-structured	0.0550175	0.555124	2.37623	0.109876	0.931908	0.984305

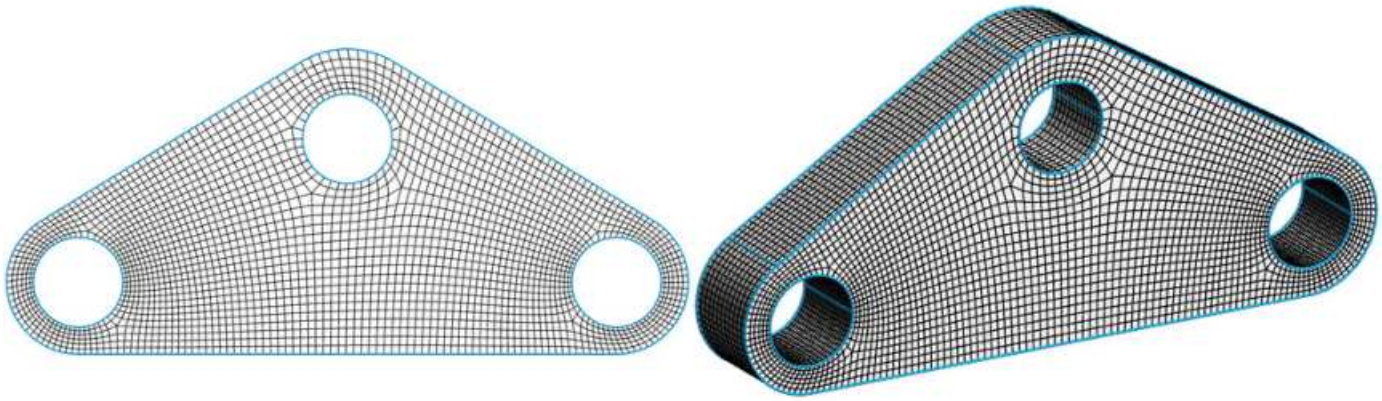


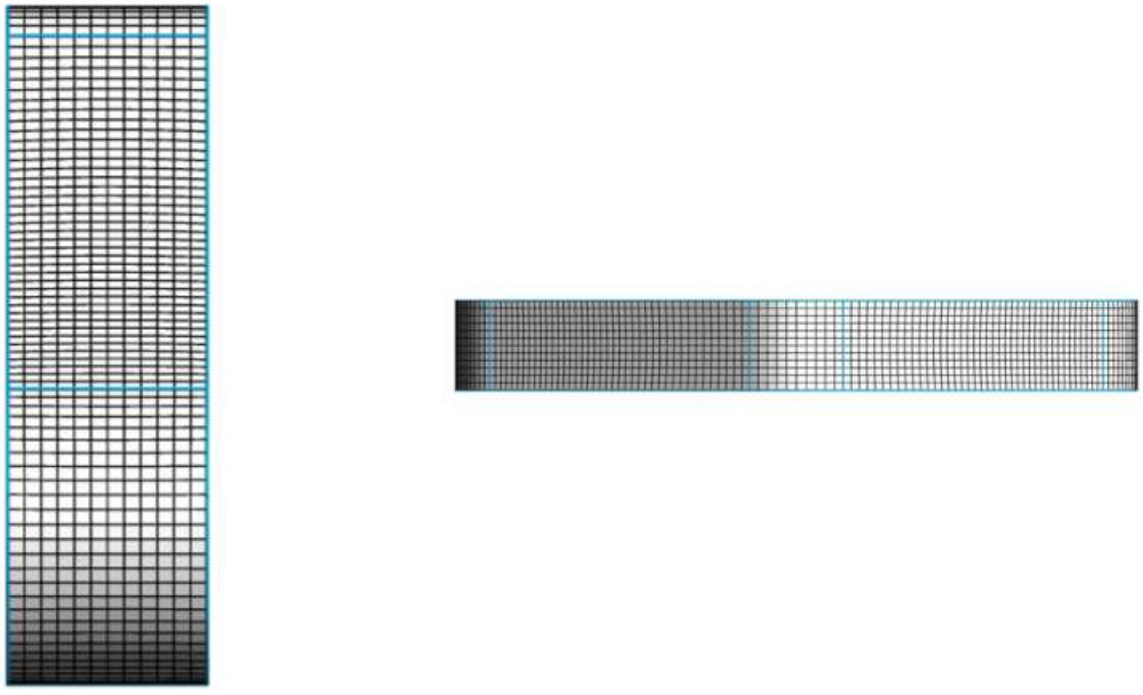
Model: 00002883 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 16 singularities detected
Timings: 7.99979 sec to generate the unstructured mesh, 1.51689 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9978	10808	128	52
Quasi-structured	10210	11040	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.958563	3.76968	7.14508	0.505578	0.977755	0.994303
Quasi-structured	1.9325	3.70708	10.1571	0.66216	0.984233	0.992903



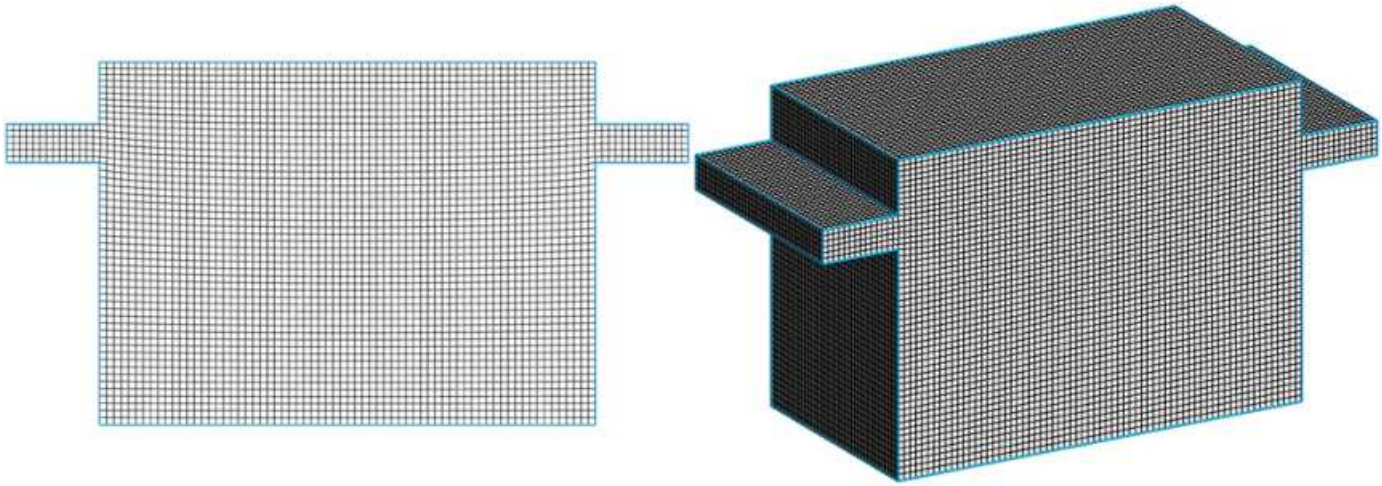


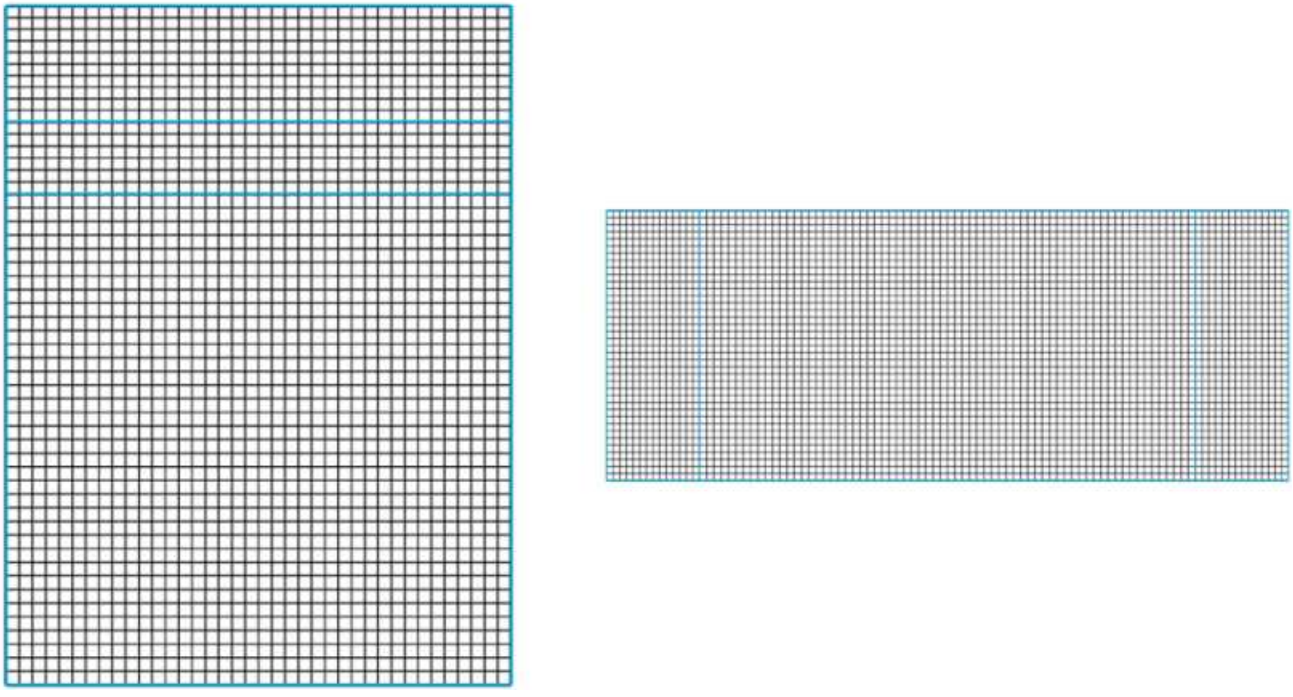
Model: 00002886 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 7.30644 sec to generate the unstructured mesh, 0.909389 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18412	19474	14	1
Quasi-structured	18656	19718	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.214899	0.586225	0.916776	0.582864	0.996676	0.999654
Quasi-structured	0.485831	0.582392	0.624265	0.964245	0.998222	0.999654



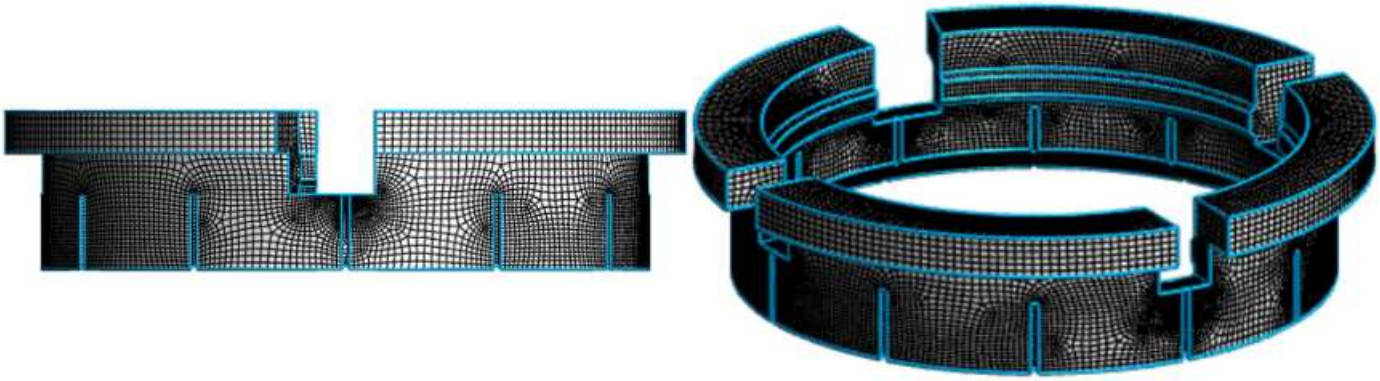


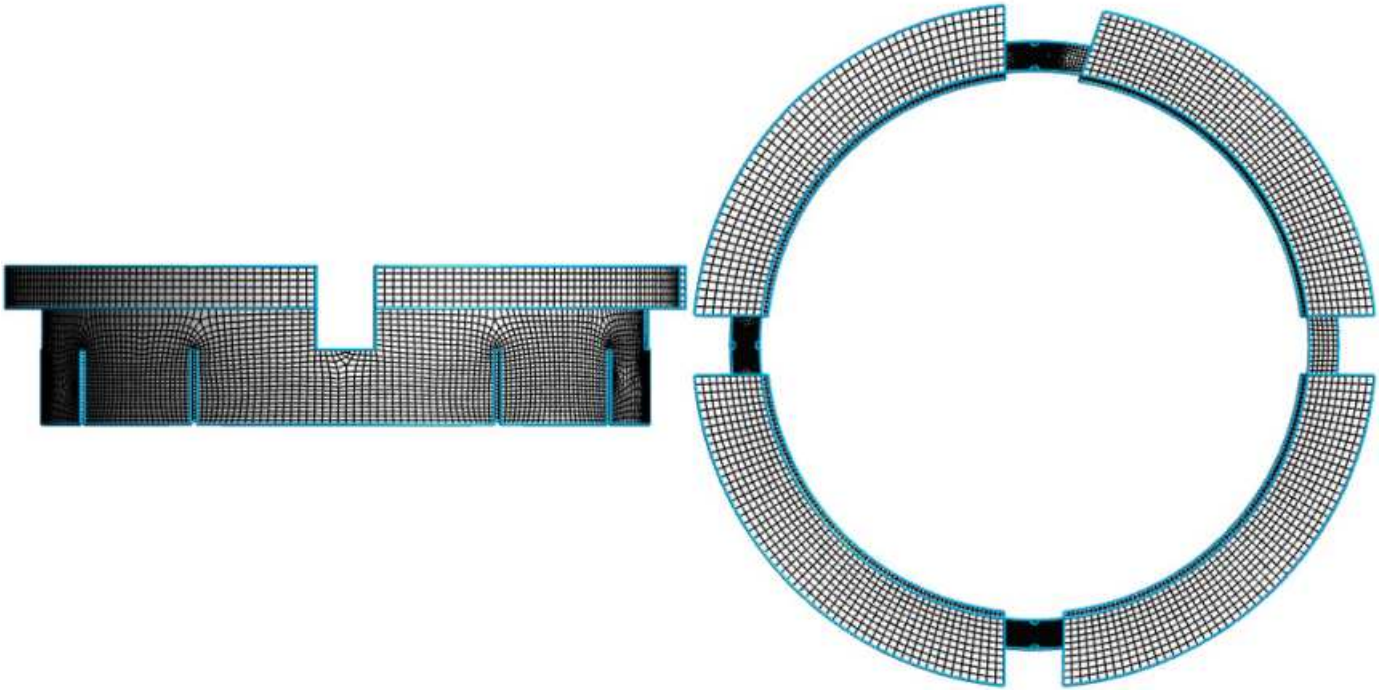
Model: 00002895 (from ABC dataset)
CAD: 172 corners, 259 curves, 87 faces
Cross field: 146 singularities detected
Timings: 24.4358 sec to generate the unstructured mesh, 38.7141 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36728	41962	1840	90
Quasi-structured	38016	43250	632	3

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00231613	0.24312	0.704601	0.00605096	0.912978	0.962858
Quasi-structured	0.00257397	0.241052	0.807783	0.119032	0.927564	0.955947



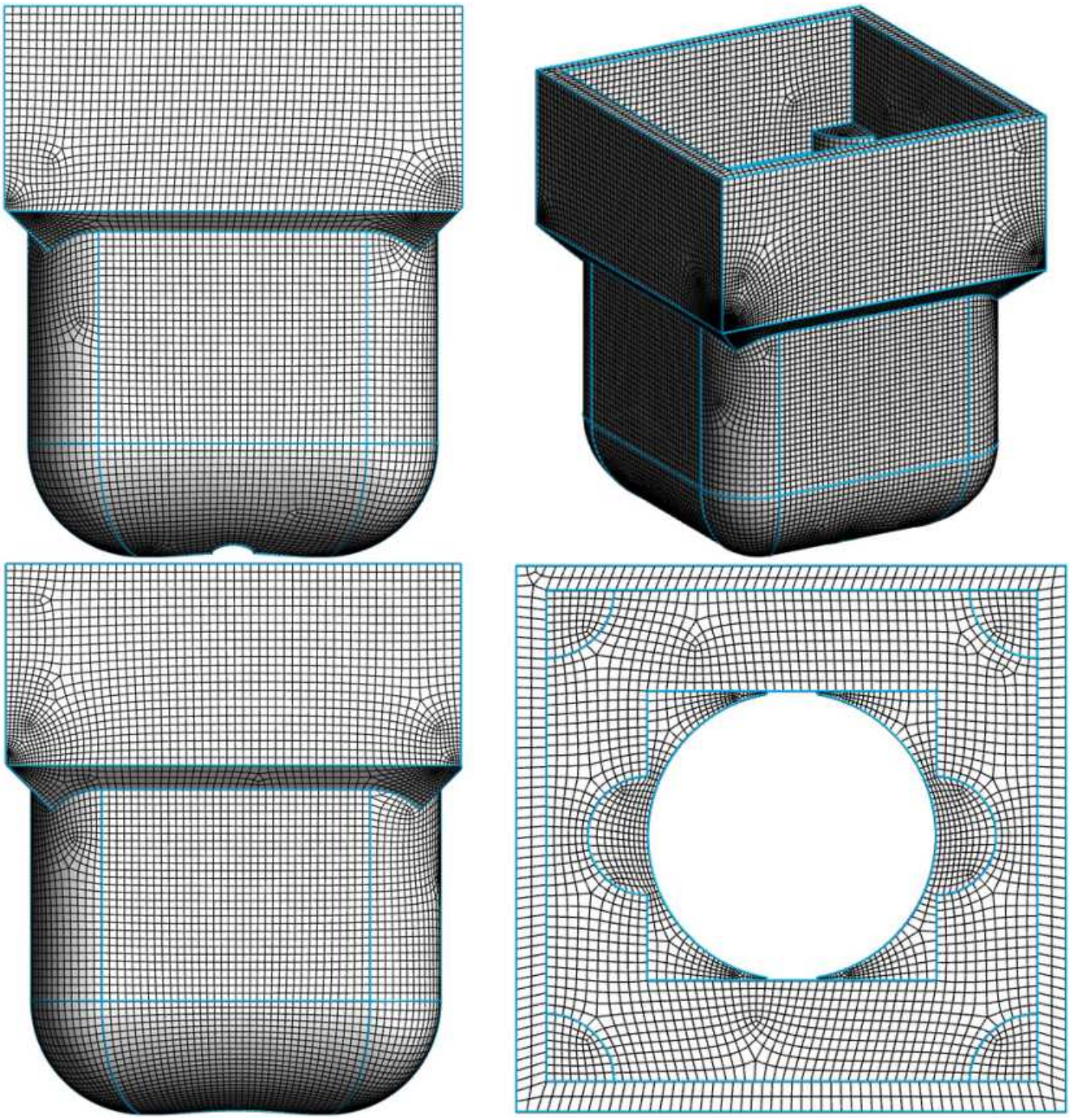


Model: 00002898 (from ABC dataset)
CAD: 96 corners, 156 curves, 58 faces
Cross field: 43 singularities detected
Timings: 18.2487 sec to generate the unstructured mesh, 9.41649 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	38220	41710	1094	25
Quasi-structured	39366	42856	233	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0130421	0.459093	1.26103	0.0780228	0.963212	0.992885
Quasi-structured	0.0130421	0.450652	1.23992	0.116865	0.97984	0.996421

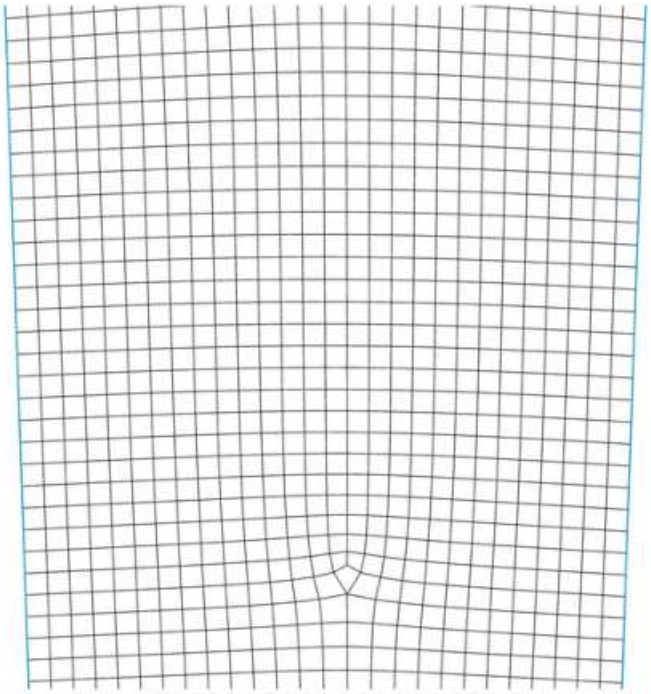
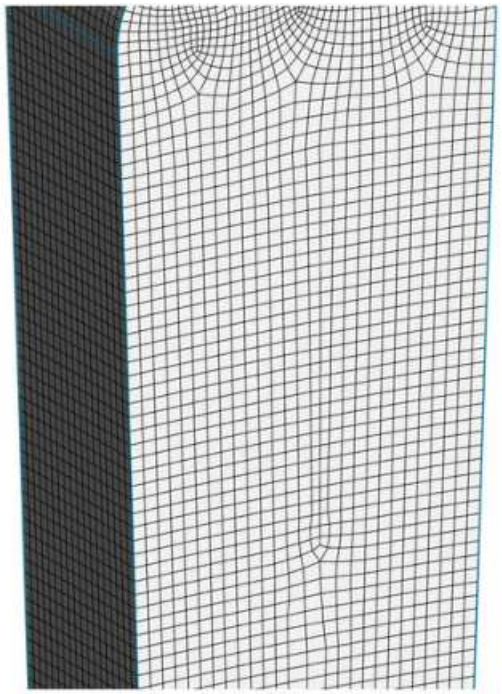
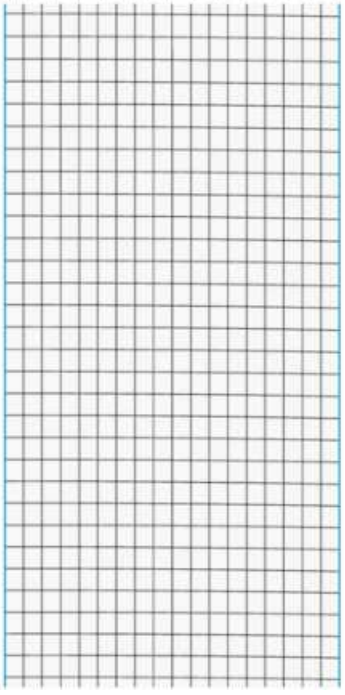
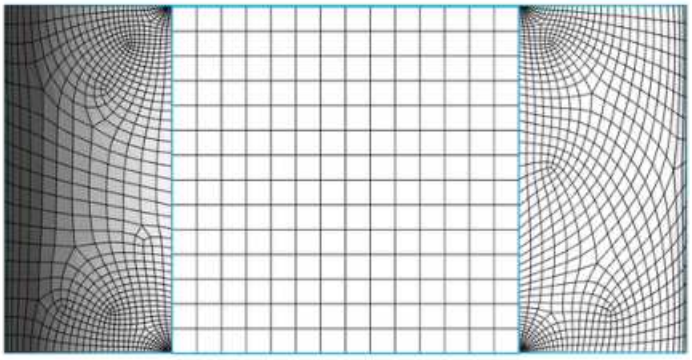


Model: 00002906 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 4 singularities detected
Timings: 7.93435 sec to generate the unstructured mesh, 59.9205 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31508	33602	1441	76
Quasi-structured	31169	33263	478	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.040094	6.5835	28.0573	0.0387796	0.927856	0.983413
Quasi-structured	0.040094	6.60906	29.3512	0.0775008	0.96108	0.985789

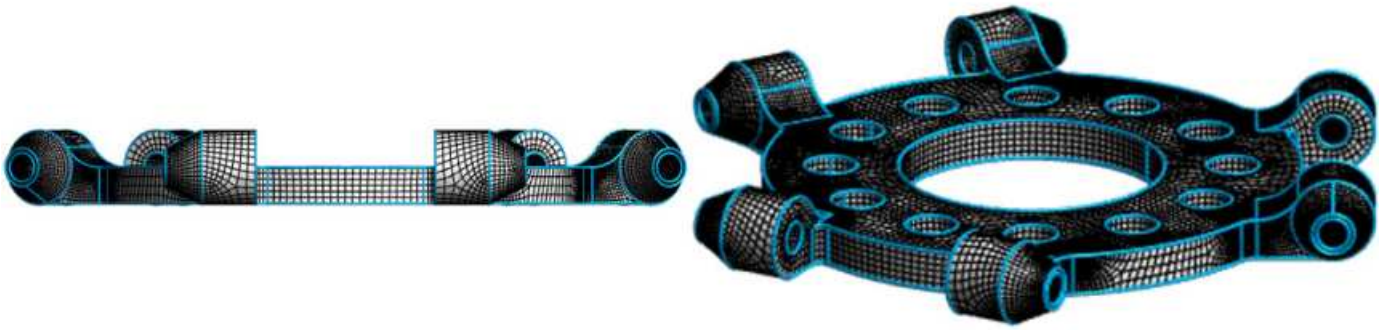





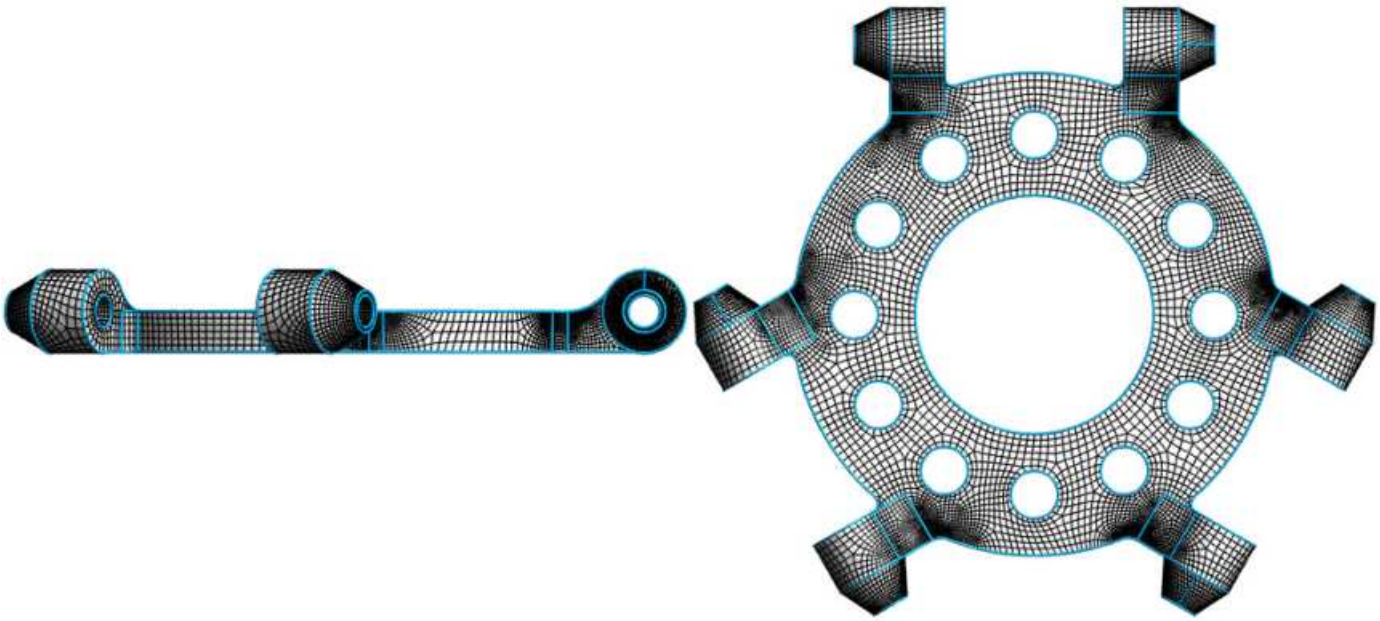
Model: 00002917 (from ABC dataset)
CAD: 134 corners, 207 curves, 75 faces
Cross field: 162 singularities detected
Timings: 12.2867 sec to generate the unstructured mesh, 15.4632 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32412	36250	1817	397
Quasi-structured	31586	35424	578	0

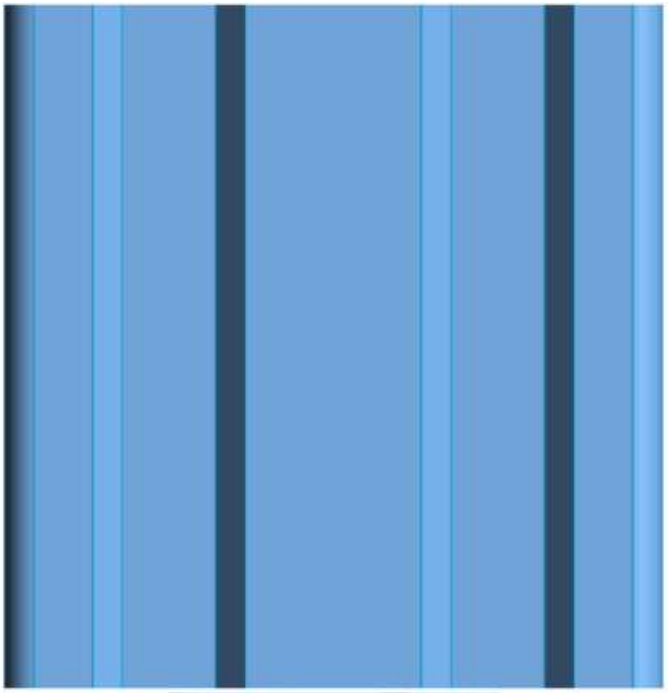
Mesh geometry:

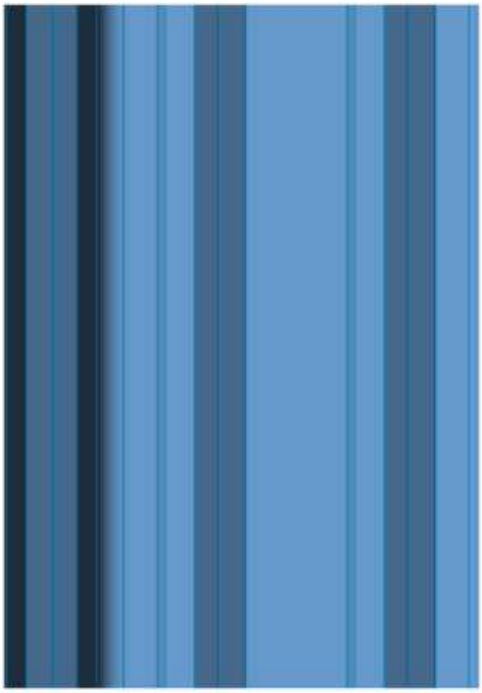
	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00164438	0.411879	1.39536	0.000285706	0.923915	0.968704
Quasi-structured	0.00164438	0.416959	1.69919	0.0429324	0.947263	0.97558

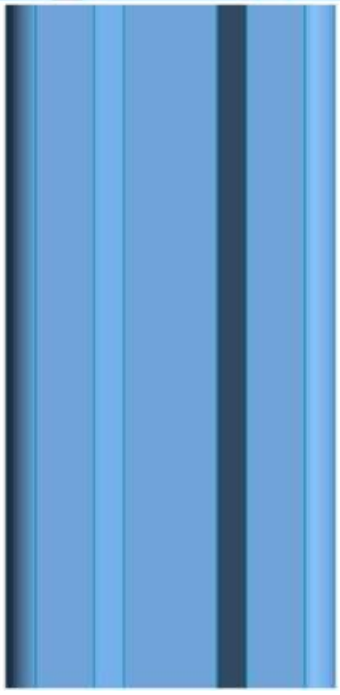


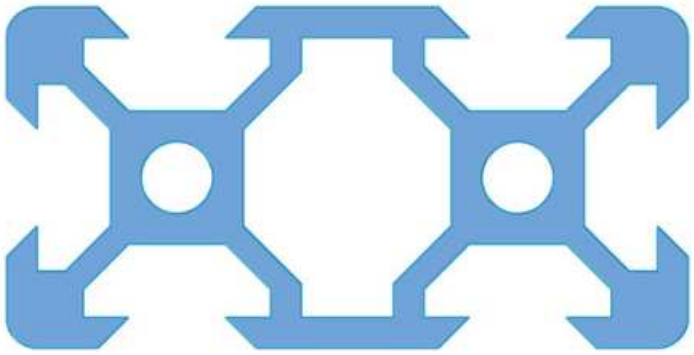


Model: 00002920 (from ABC dataset)
Error: failed to build quadrilateral mesh







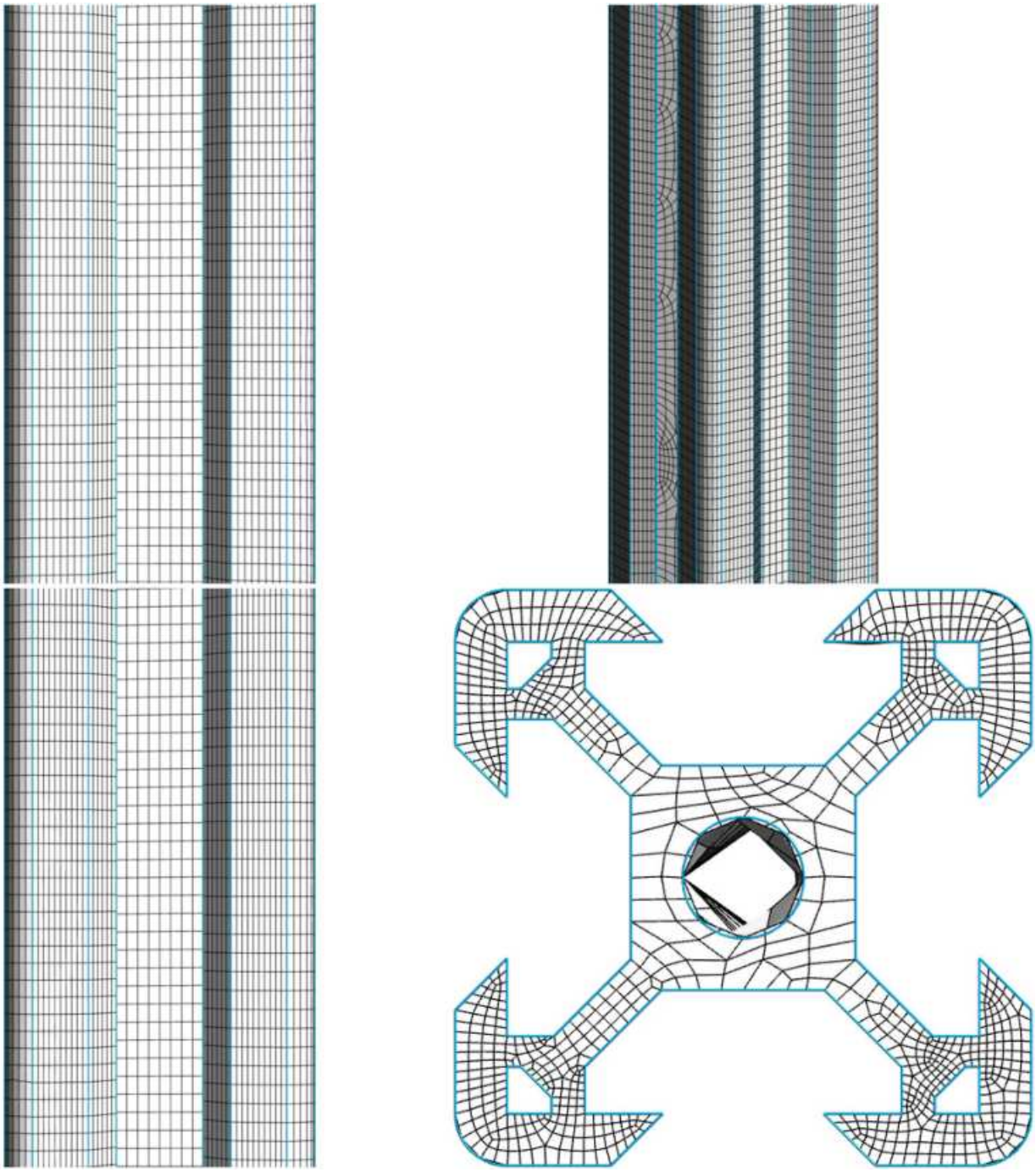


Model: 00002921 (from ABC dataset)
CAD: 138 corners, 207 curves, 71 faces
Cross field: 60 singularities detected
Timings: 16.5219 sec to generate the unstructured mesh, 249.936 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	220412	264380	1885	264
Quasi-structured	222278	266246	1232	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0816641	0.522929	2.15613	0.153379	0.843052	0.96846
Quasi-structured	0.0803976	0.523805	2.92228	0.146849	0.84249	0.959087

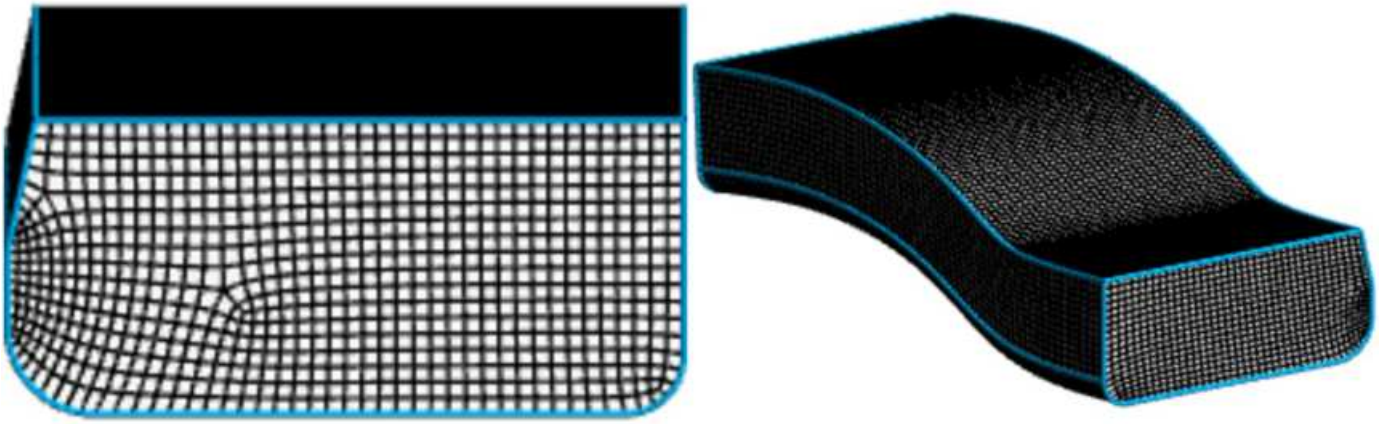


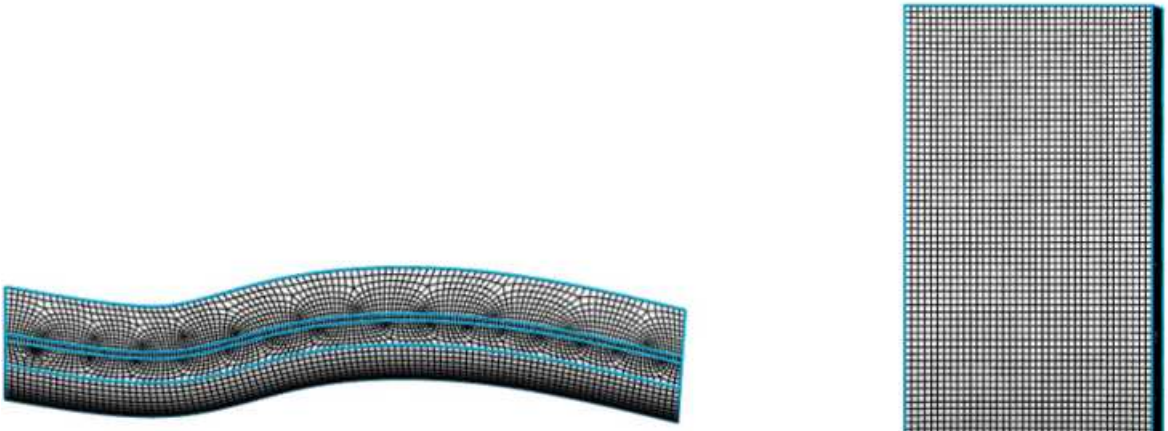
Model: 00002928 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 4 singularities detected
Timings: 10.0448 sec to generate the unstructured mesh, 5.11595 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14400	15662	236	3
Quasi-structured	14409	15671	64	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.703452	2.69512	4.39309	0.340716	0.97848	0.997766
Quasi-structured	0.47055	2.69978	5.75763	0.517161	0.979837	0.997211



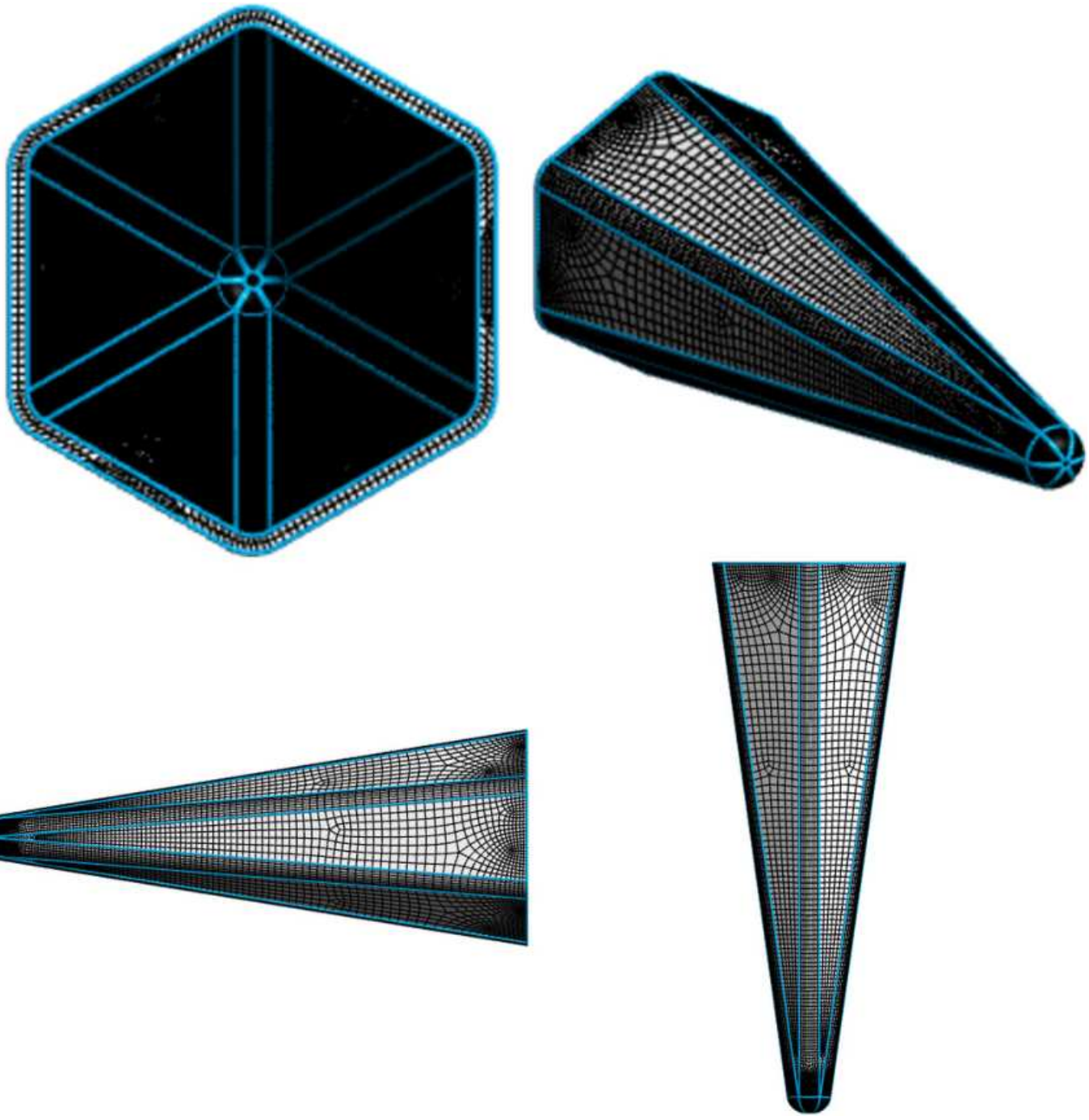


Model: 00002930 (from ABC dataset)
CAD: 72 corners, 120 curves, 51 faces
Cross field: 32 singularities detected
Timings: 15.3338 sec to generate the unstructured mesh, 20.8733 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31514	36748	1563	35
Quasi-structured	39186	44420	270	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00198983	0.964994	4.12867	0.00302369	0.935202	0.98365
Quasi-structured	0.0416935	0.895078	5.96882	0.424418	0.920032	0.962389

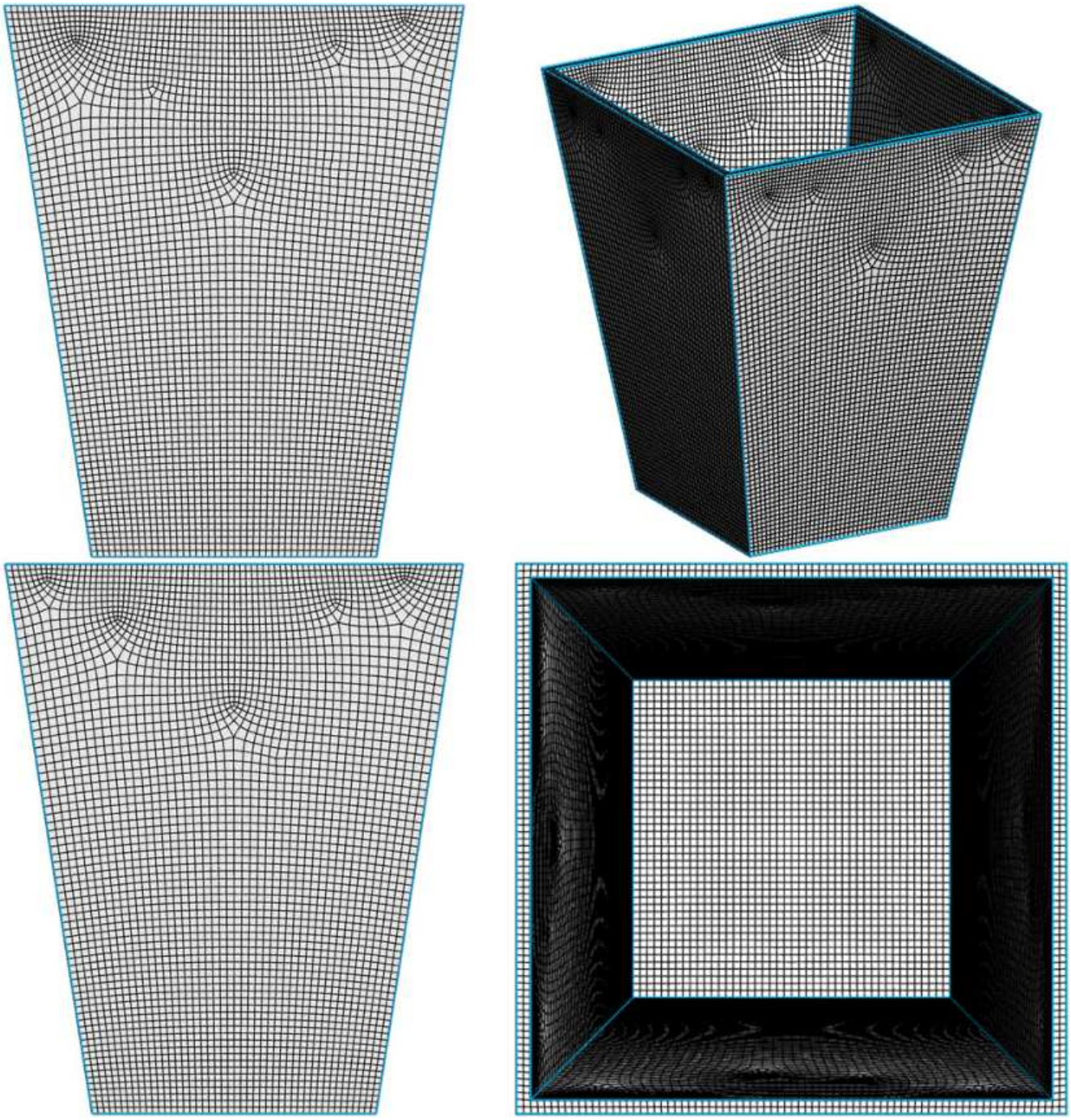


Model: 00002940 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 31.1883 sec to generate the unstructured mesh, 13.2517 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	33116	34694	276	14
Quasi-structured	33656	35234	84	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.43923	4.0155	7.85937	0.505052	0.982089	0.999504
Quasi-structured	1.45544	3.97053	9.0806	0.801681	0.992638	0.998939

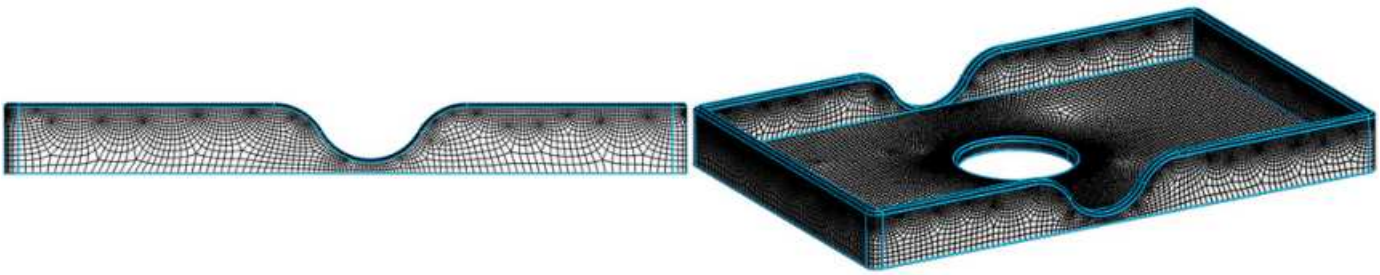


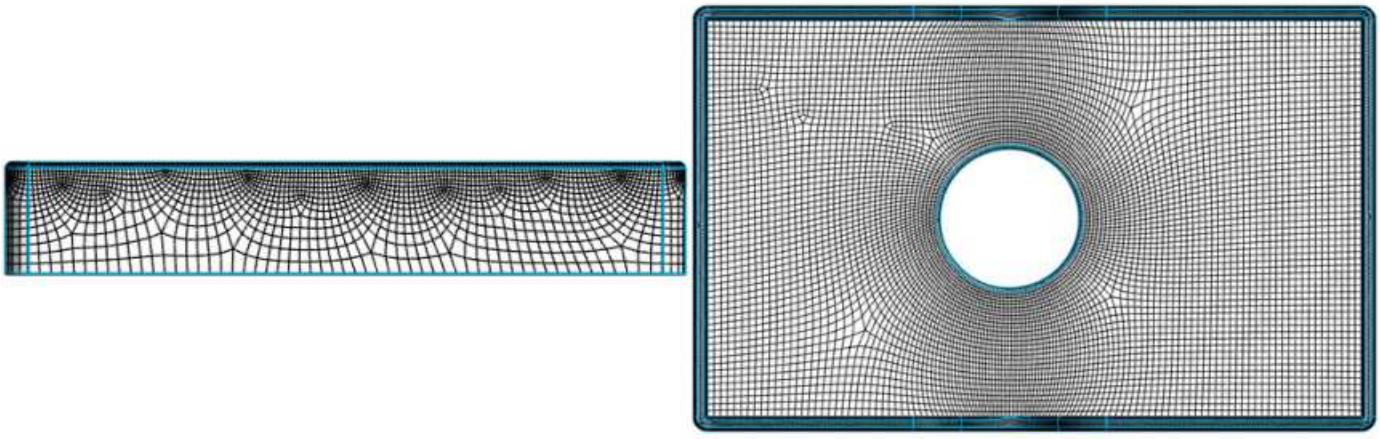
Model: 00002942 (from ABC dataset)
CAD: 81 corners, 143 curves, 60 faces
Cross field: 42 singularities detected
Timings: 11.2223 sec to generate the unstructured mesh, 31.644 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	41472	46742	1696	87
Quasi-structured	43288	48558	356	4

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0629646	0.568317	1.58599	0.049328	0.918609	0.958611
Quasi-structured	0.0627943	0.563948	2.84757	0.049328	0.934564	0.963881



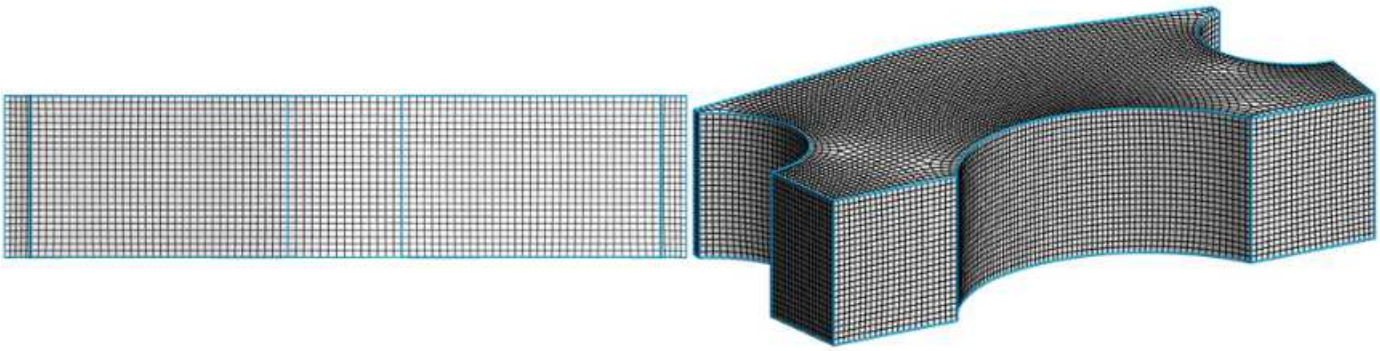


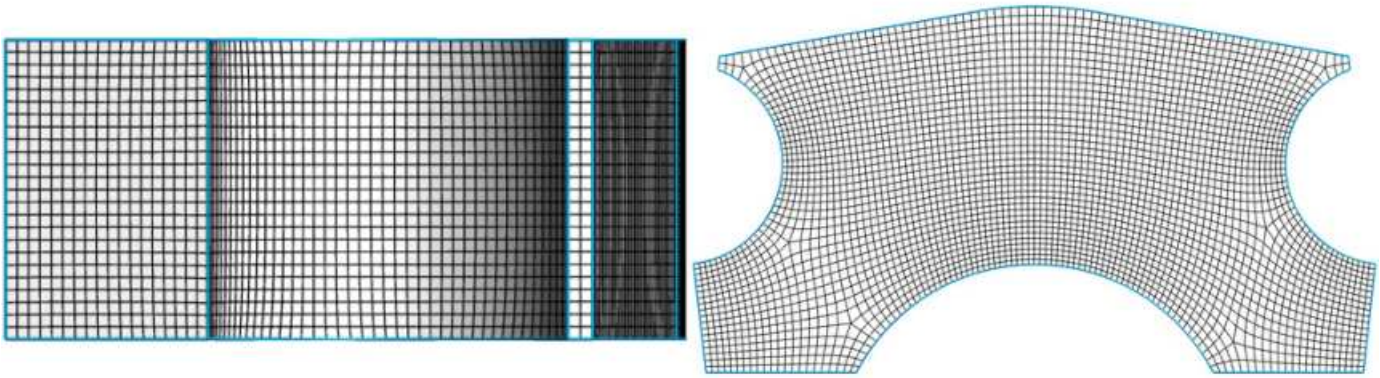
Model: 00002954 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 12 singularities detected
Timings: 12.2432 sec to generate the unstructured mesh, 2.19586 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14406	15348	108	1
Quasi-structured	14314	15256	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.162348	0.431876	0.820799	0.549186	0.986962	0.994099
Quasi-structured	0.291099	0.432519	1.34938	0.548493	0.990019	0.993384



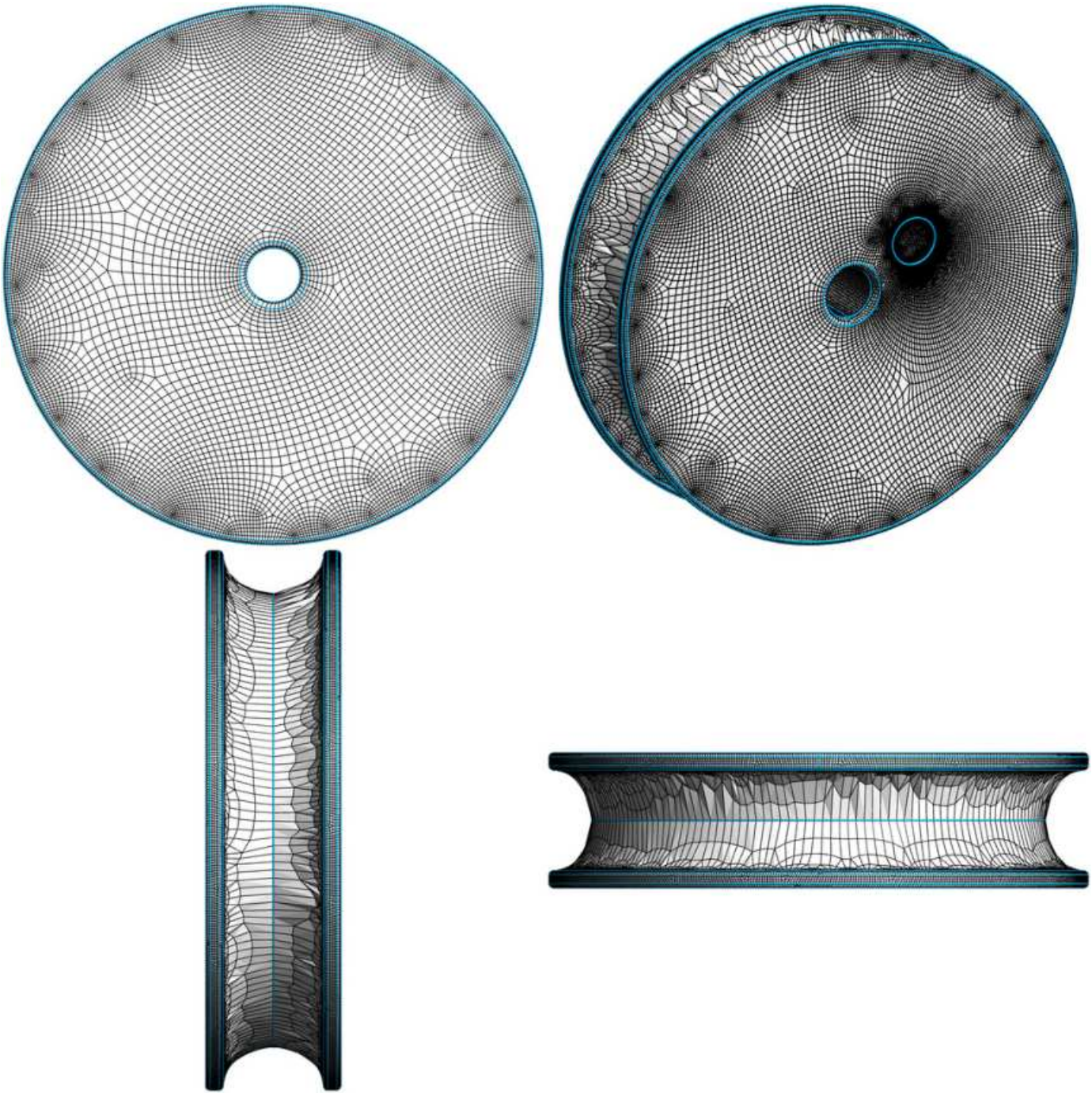


Model: 00002959 (from ABC dataset)
CAD: 17 corners, 29 curves, 15 faces
Cross field: 18 singularities detected
Timings: 14.9139 sec to generate the unstructured mesh, 128.497 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	42112	47818	2078	348
Quasi-structured	41937	47643	672	3

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00552445	0.0743343	0.568984	-0.616318	0.907266	0.972409
Quasi-structured	0.00539305	0.0701681	0.905845	0.156973	0.927072	0.966664

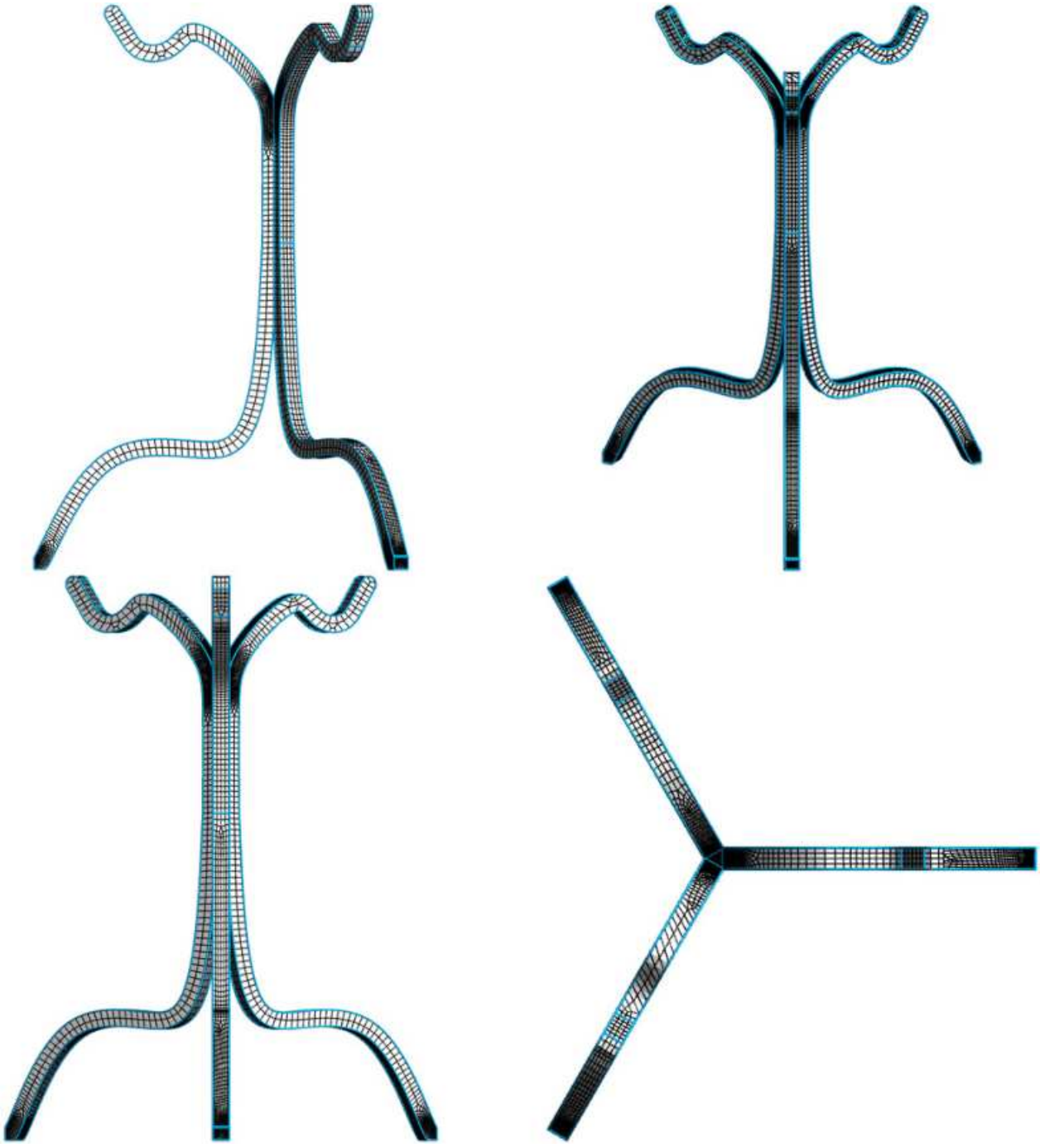


Model: 00002968 (from ABC dataset)
CAD: 63 corners, 102 curves, 41 faces
Cross field: 20 singularities detected
Timings: 22.2897 sec to generate the unstructured mesh, 42.4358 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15722	18357	3589	680
Quasi-structured	13848	16483	234	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00216099	0.757426	8.62306	0.0325654	0.820593	0.83128
Quasi-structured	0.00216091	0.785262	3.98067	0.0325654	0.887191	0.948015

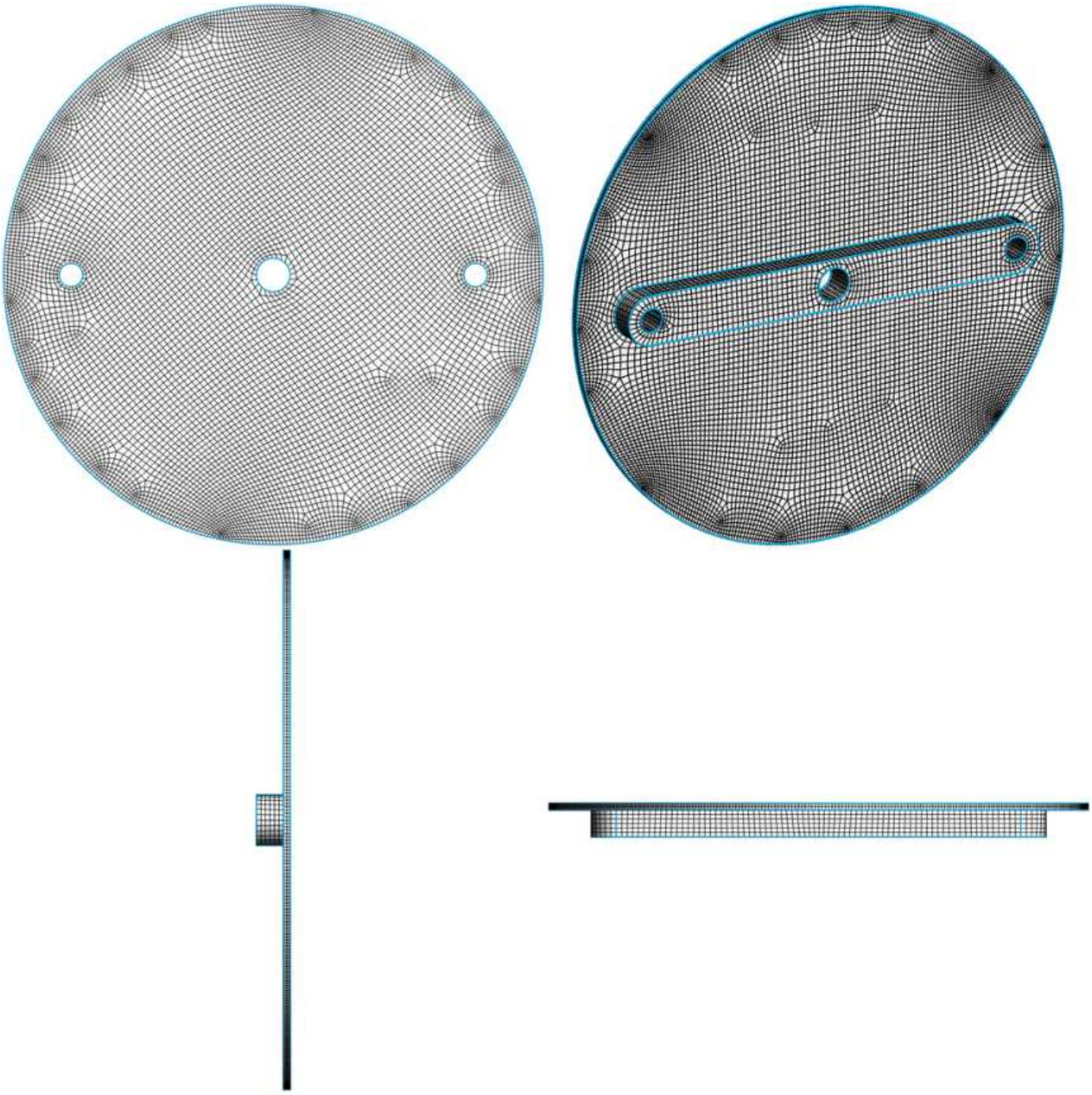


Model: 00002975 (from ABC dataset)
CAD: 17 corners, 25 curves, 11 faces
Cross field: 28 singularities detected
Timings: 10.4904 sec to generate the unstructured mesh, 16.8048 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20272	21792	622	88
Quasi-structured	21480	23000	140	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.1913	0.724847	1.63005	0.329161	0.954583	0.981303
Quasi-structured	0.159922	0.701795	1.79716	0.54707	0.975154	0.98752

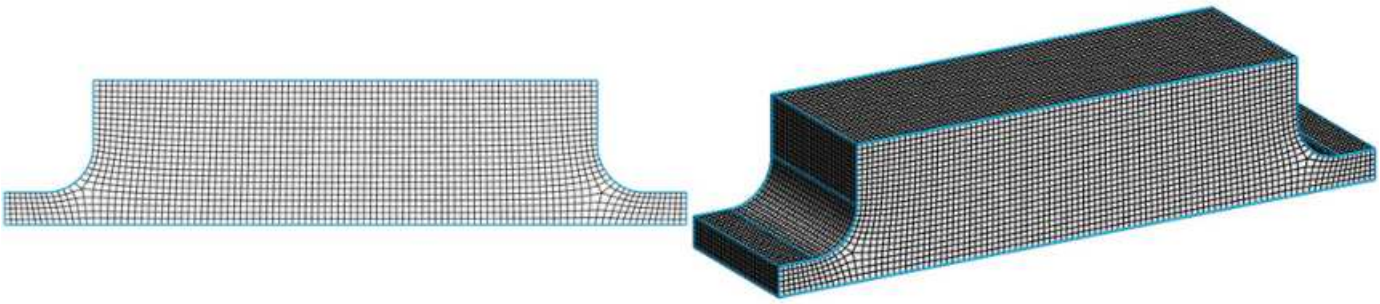


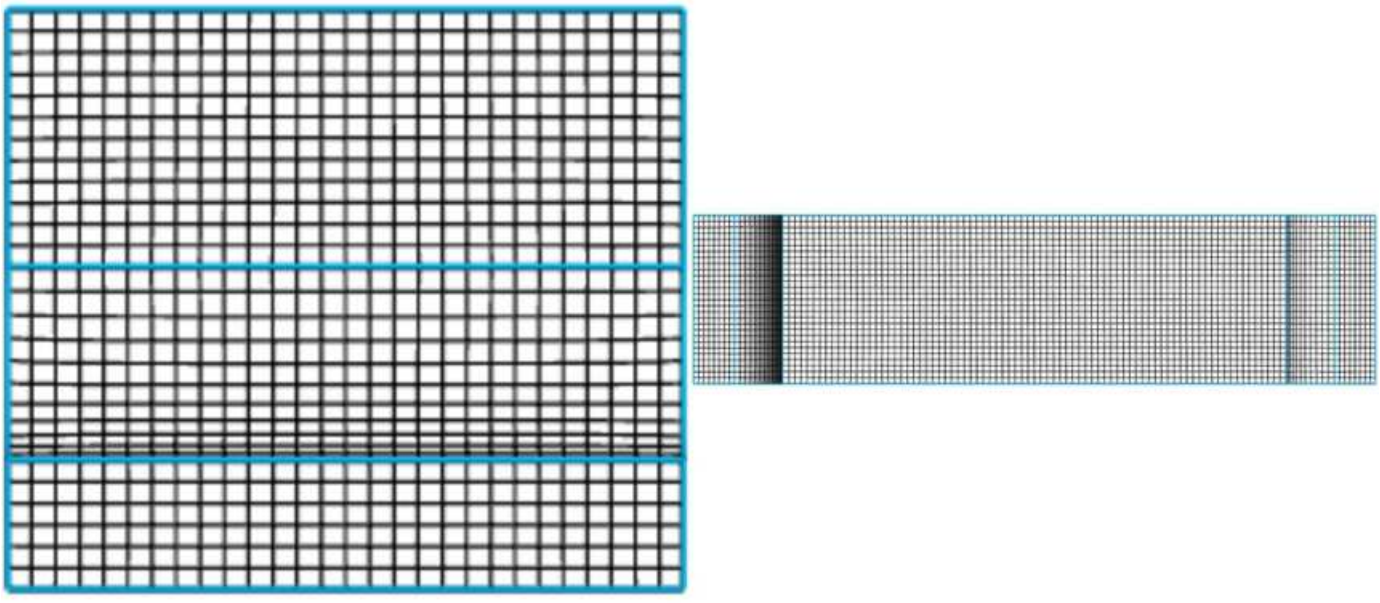
Model: 00002983 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 4 singularities detected
Timings: 7.1366 sec to generate the unstructured mesh, 1.06766 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11158	11974	42	3
Quasi-structured	11474	12290	4	0

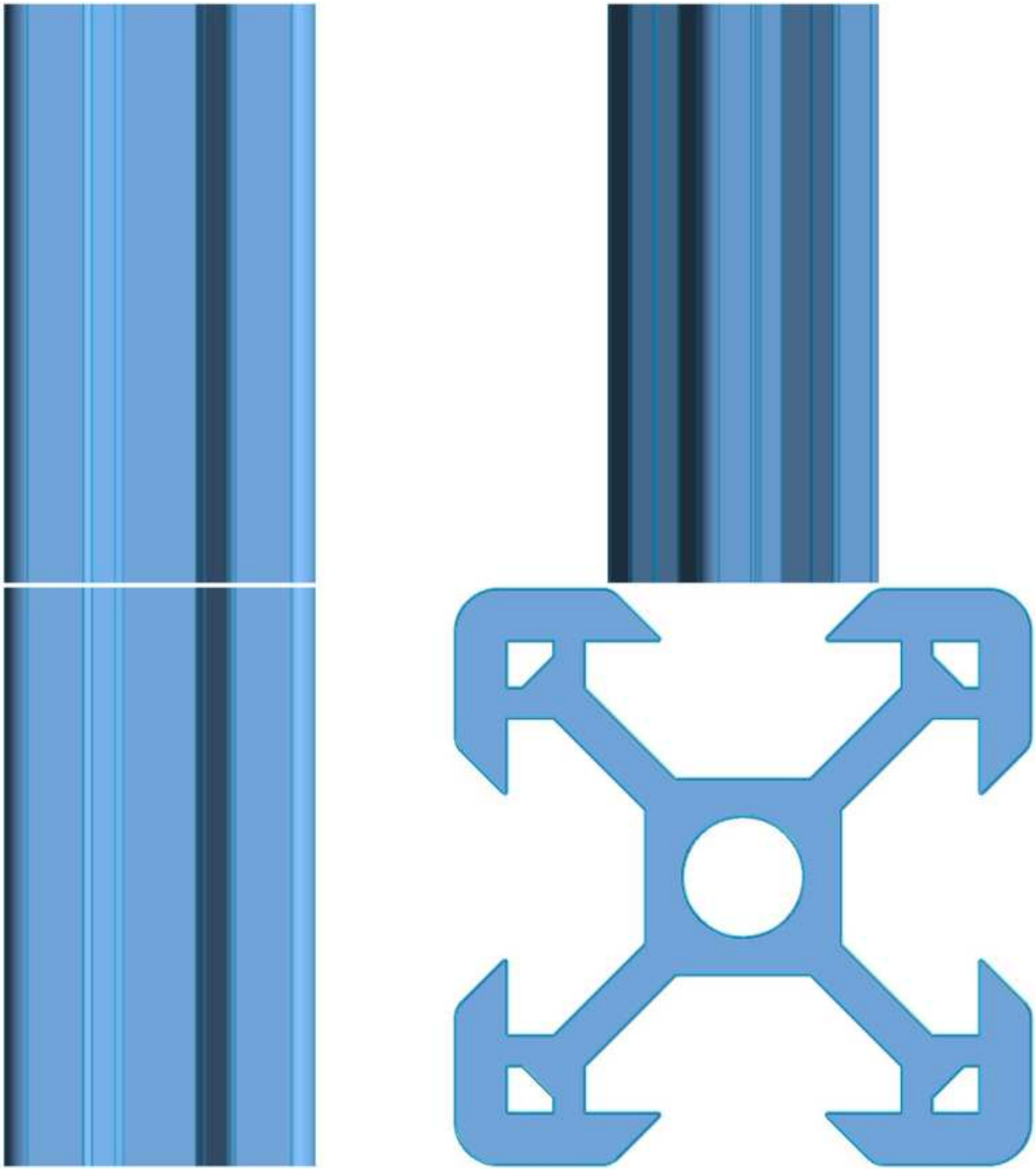
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0741367	0.193072	0.308084	0.649634	0.992446	0.997894
Quasi-structured	0.1558	0.190404	0.352375	0.824959	0.995494	0.99726





Model: 00002984 (from ABC dataset)
Error: failed to build quadrilateral mesh

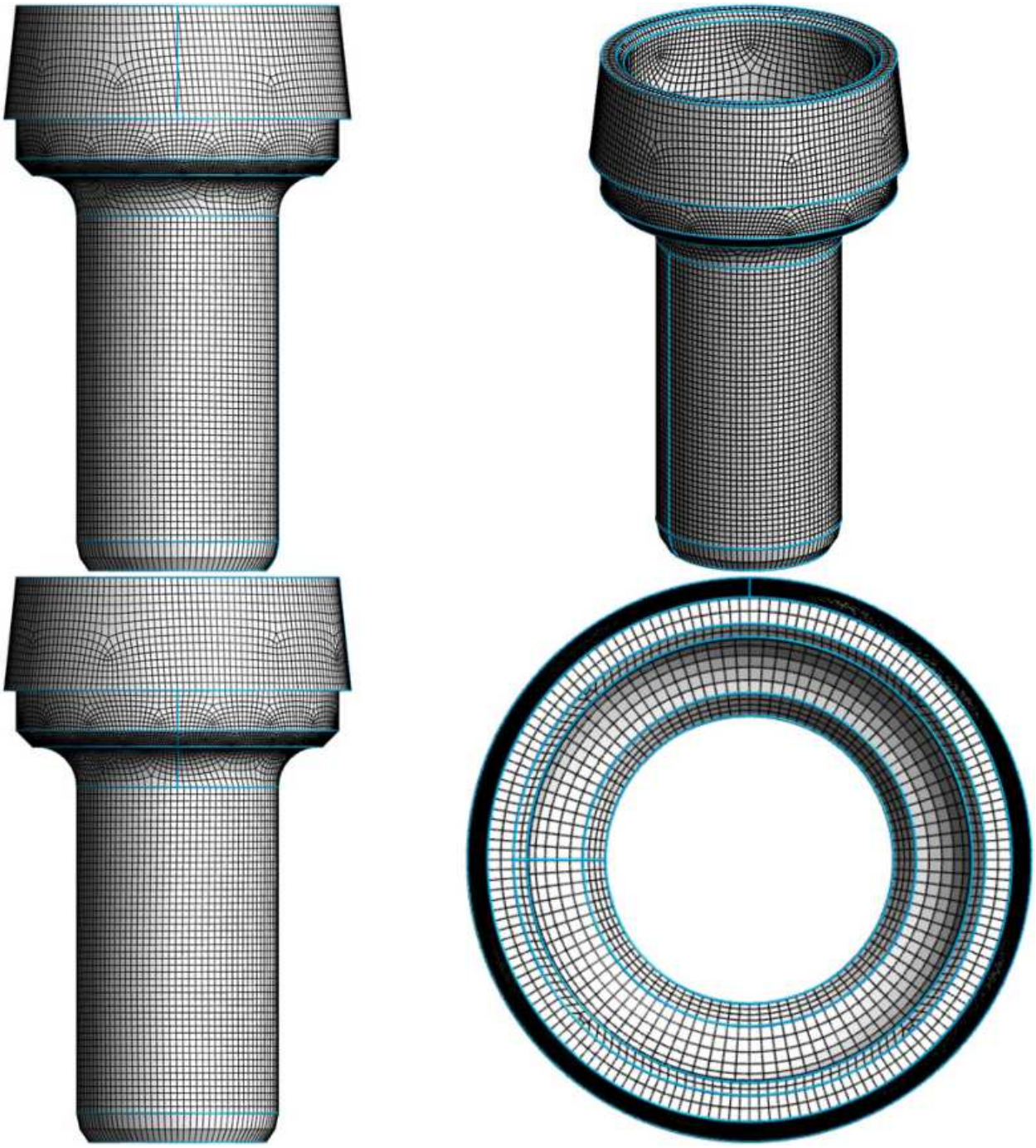


Model: 00003005 (from ABC dataset)
CAD: 18 corners, 29 curves, 14 faces
Cross field: 0 singularities detected
Timings: 14.9947 sec to generate the unstructured mesh, 56.3089 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27216	29770	810	247
Quasi-structured	26950	29504	218	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.107379	0.656994	2.13372	0.348261	0.960562	0.998739
Quasi-structured	0.088701	0.661436	2.05488	0.457797	0.974997	0.992608

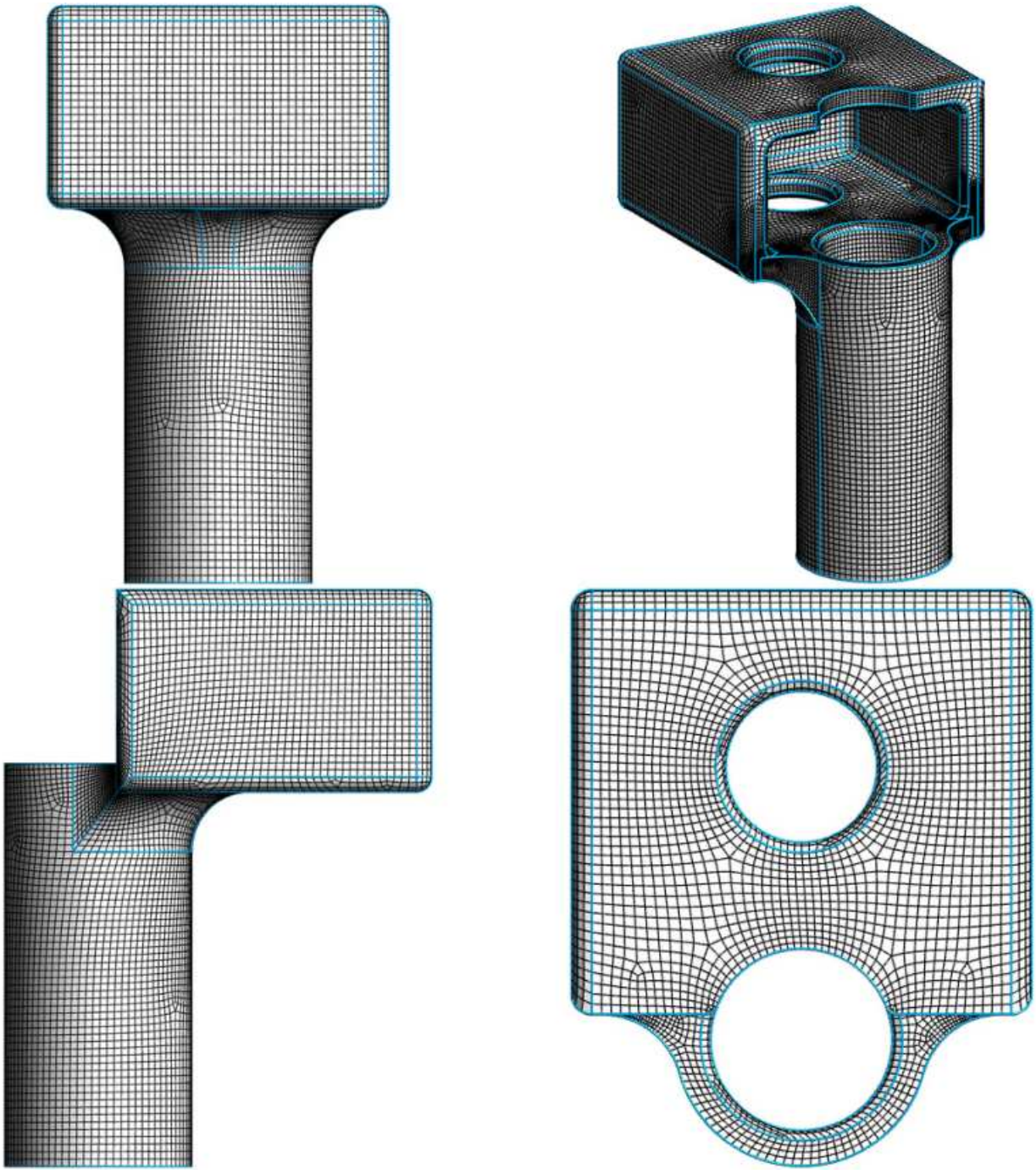


Model: 00003007 (from ABC dataset)
CAD: 90 corners, 169 curves, 70 faces
Cross field: 52 singularities detected
Timings: 13.3733 sec to generate the unstructured mesh, 13.3476 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27962	31291	949	150
Quasi-structured	29150	32479	252	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00572118	0.782099	1.97589	0.0203902	0.946673	0.985889
Quasi-structured	0.00371414	0.763098	2.03346	0.0203902	0.953545	0.989324

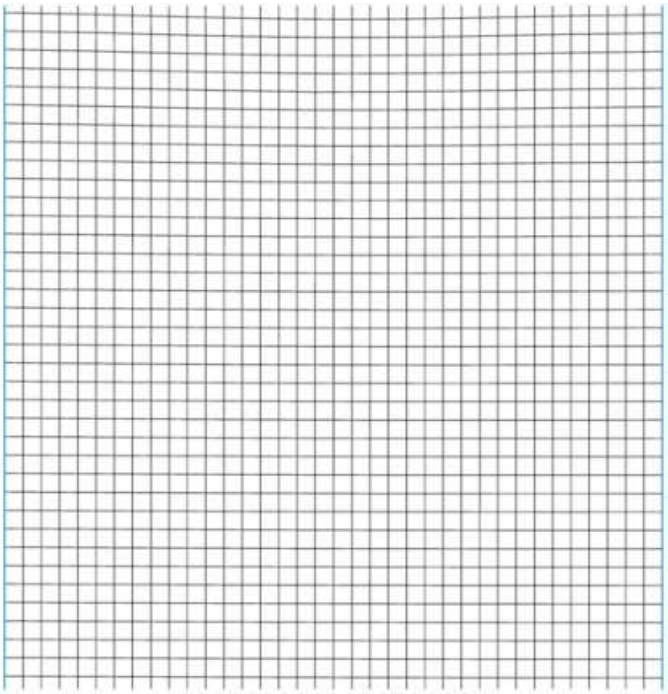


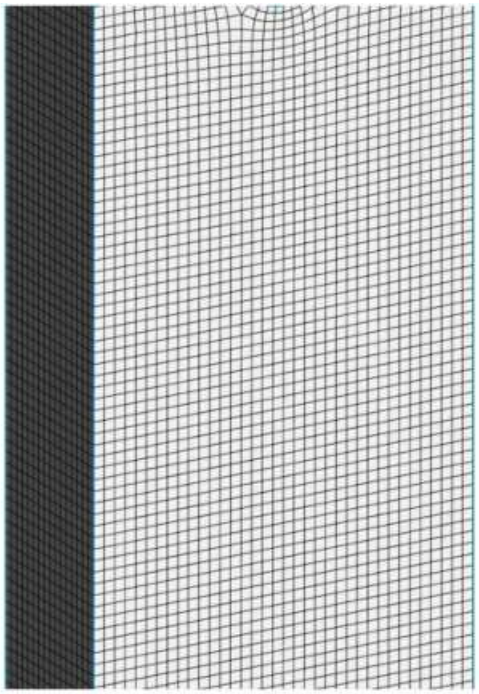
Model: 00003020 (from ABC dataset)
CAD: 15 corners, 22 curves, 11 faces
Cross field: 24 singularities detected
Timings: 7.9877 sec to generate the unstructured mesh, 0.8359 sec to make it quasi-structured
Mesh topology:

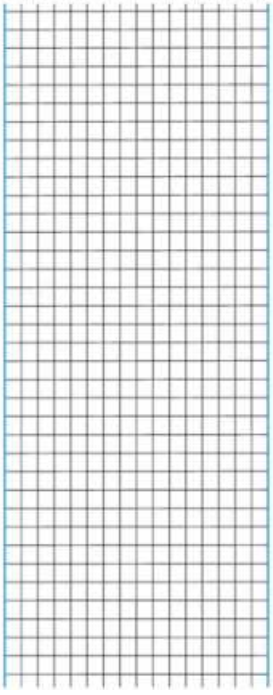
	# quads	# vertices	# irregular	# very irregular
Unstructured	14152	14928	93	103
Quasi-structured	14200	14976	32	0

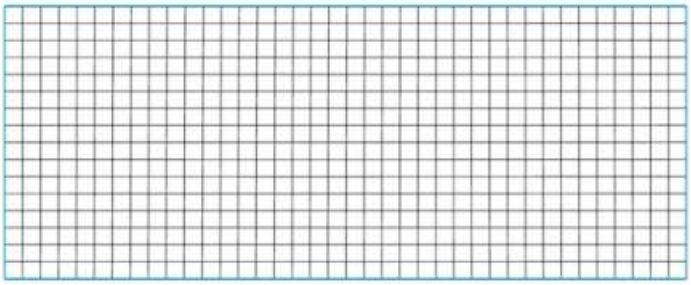
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.255666	0.824877	1.32407	0.253988	0.988797	0.998736
Quasi-structured	0.285782	0.822836	1.35139	0.619298	0.994191	0.999026







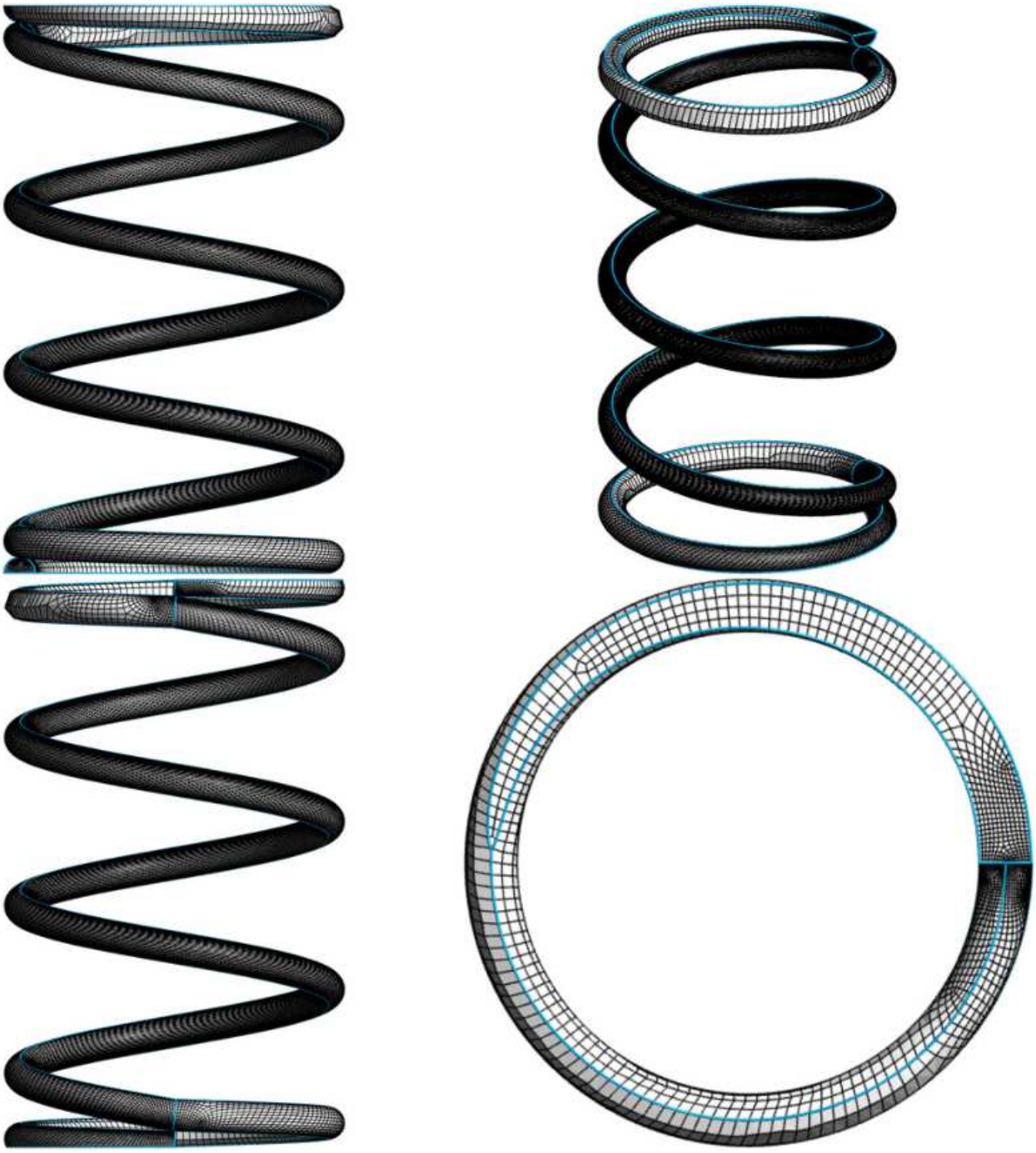


Model: 00003027 (from ABC dataset)
CAD: 14 corners, 22 curves, 10 faces
Cross field: 4 singularities detected
Timings: 103.317 sec to generate the unstructured mesh, 1932.76 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34734	36732	484	17
Quasi-structured	36270	38268	78	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00810683	0.253815	0.694393	-0.0762645	0.4179	0.293991
Quasi-structured	0.00714343	0.249934	0.864303	-0.00832552	0.424967	0.307754

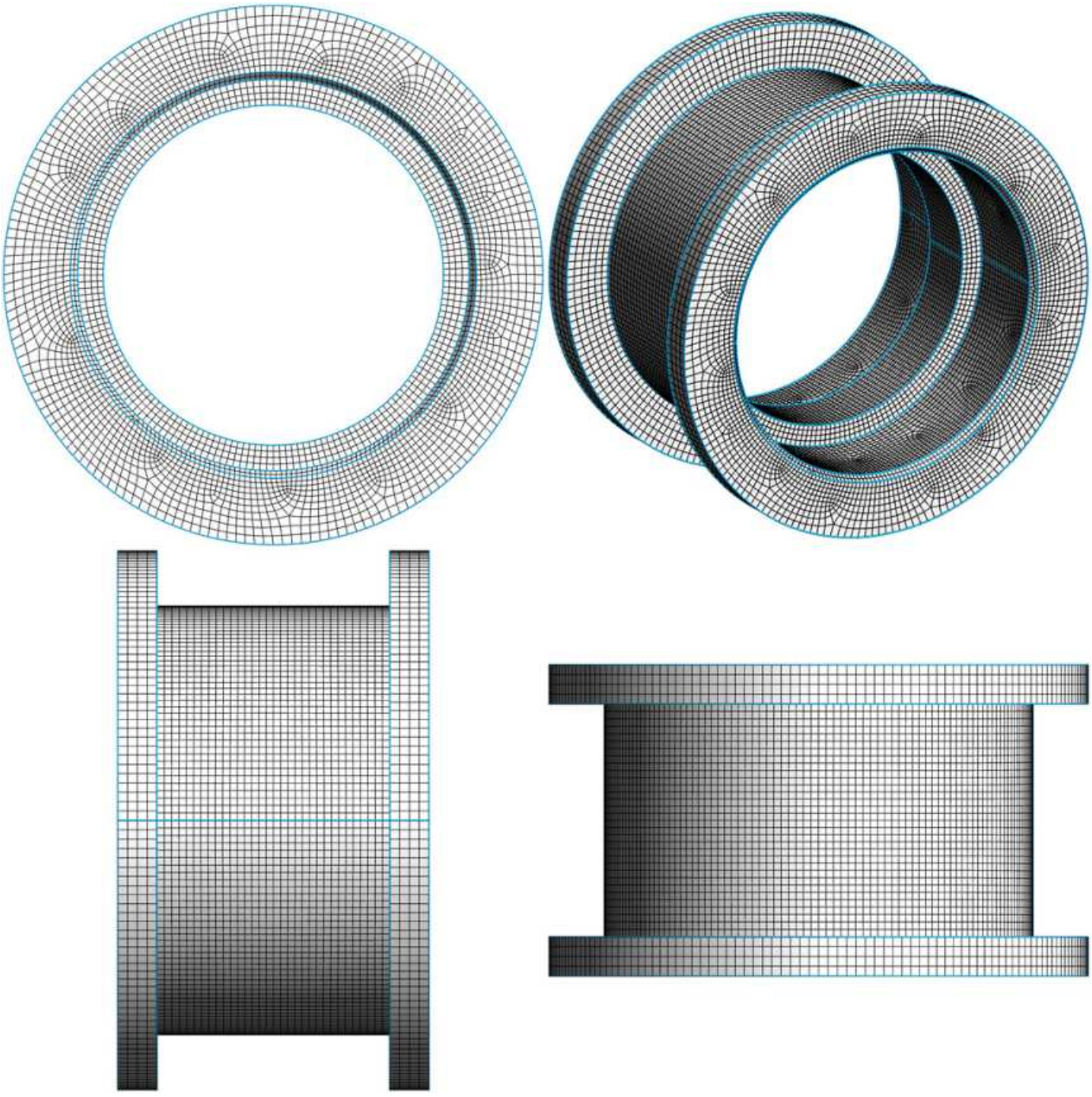


Model: 00003036 (from ABC dataset)
CAD: 15 corners, 23 curves, 14 faces
Cross field: 0 singularities detected
Timings: 12.5043 sec to generate the unstructured mesh, 21.1707 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25918	28688	329	100
Quasi-structured	25954	28724	148	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0812506	0.279531	0.547769	0.462733	0.973804	0.998004
Quasi-structured	0.0973031	0.277923	0.665877	0.638416	0.991085	0.996611

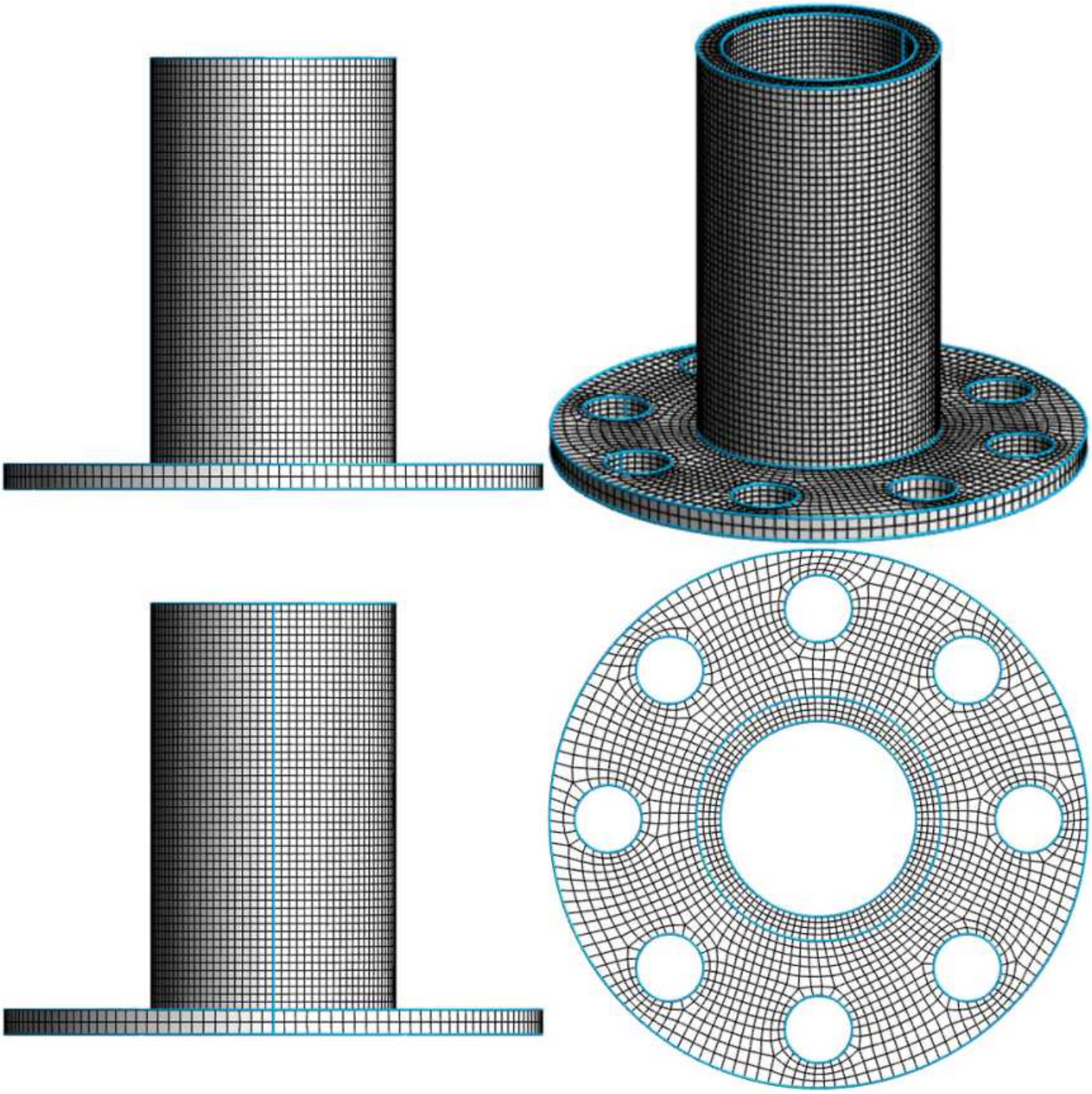


Model: 00003075 (from ABC dataset)
CAD: 22 corners, 33 curves, 14 faces
Cross field: 64 singularities detected
Timings: 11.9621 sec to generate the unstructured mesh, 3.54944 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16570	17646	298	163
Quasi-structured	16741	17817	64	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.130684	0.396222	0.959468	0.25317	0.976531	0.999855
Quasi-structured	0.275097	0.393887	1.10129	0.707802	0.98861	0.999903

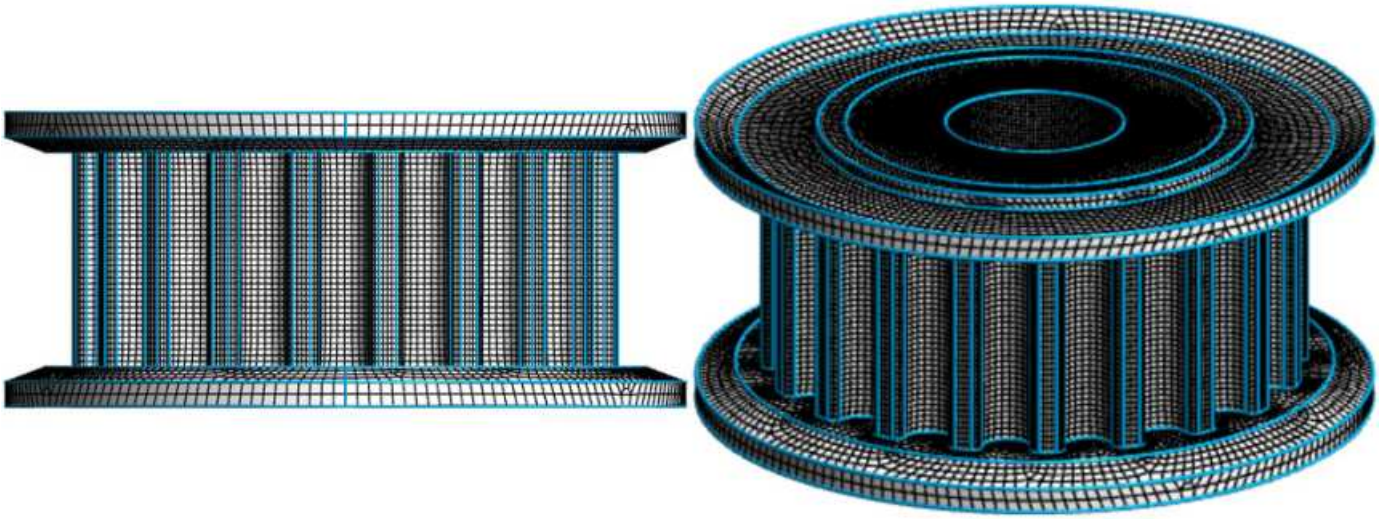


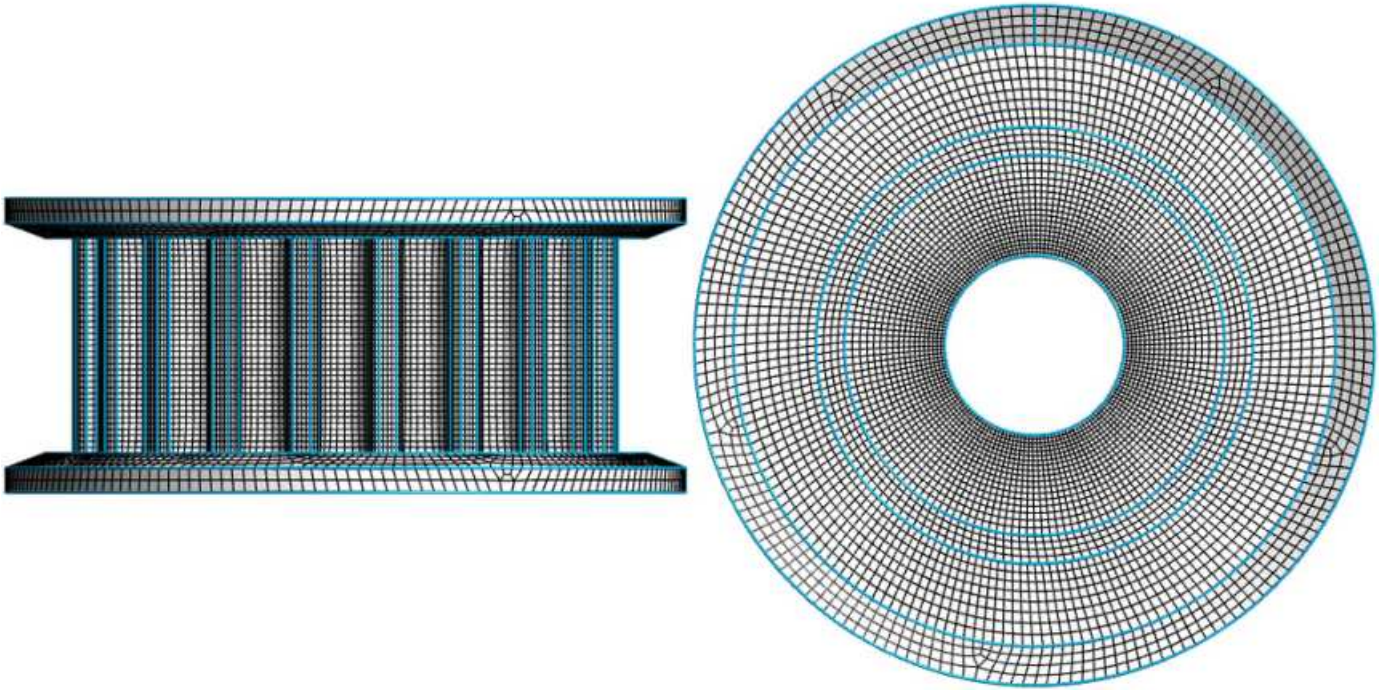
Model: 00003102 (from ABC dataset)
CAD: 177 corners, 267 curves, 97 faces
Cross field: 160 singularities detected
Timings: 32.0736 sec to generate the unstructured mesh, 34.3394 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	47350	54148	662	107
Quasi-structured	47251	54049	328	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0492168	0.200156	0.459051	0.296736	0.955815	0.982411
Quasi-structured	0.0524385	0.20029	0.551391	0.299268	0.960772	0.981832



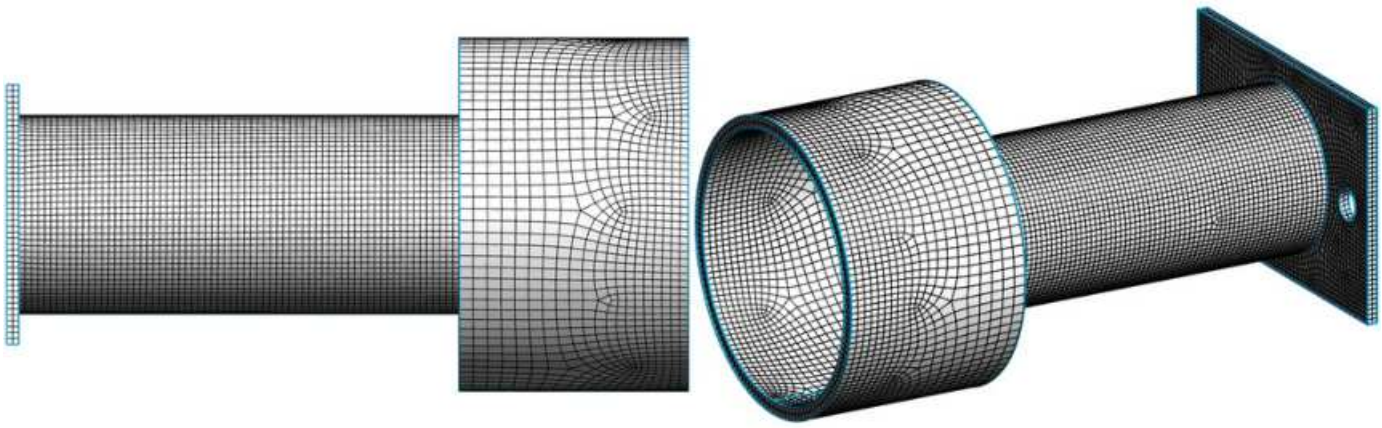


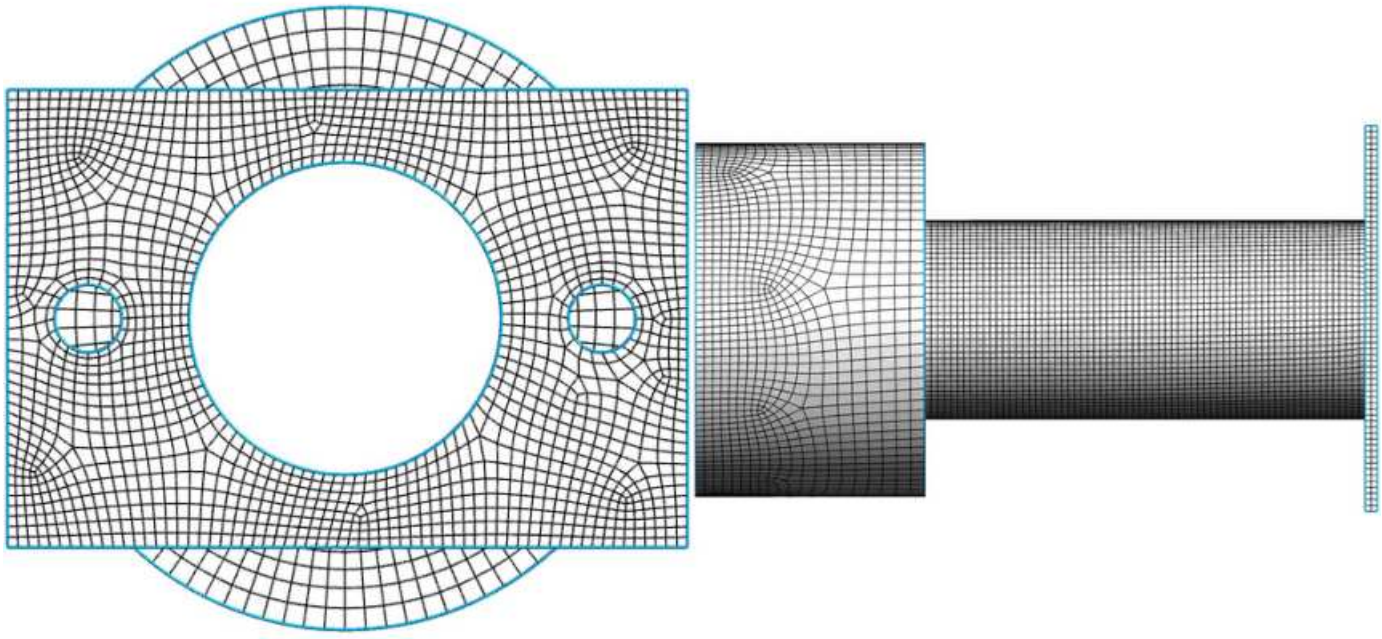
Model: 00003114 (from ABC dataset)
CAD: 20 corners, 30 curves, 15 faces
Cross field: 24 singularities detected
Timings: 15.5171 sec to generate the unstructured mesh, 7.69287 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23752	25132	337	204
Quasi-structured	24049	25429	134	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.273746	0.950256	2.23282	0.429686	0.97515	0.998414
Quasi-structured	0.371961	0.938771	2.89356	0.613352	0.989836	0.999396



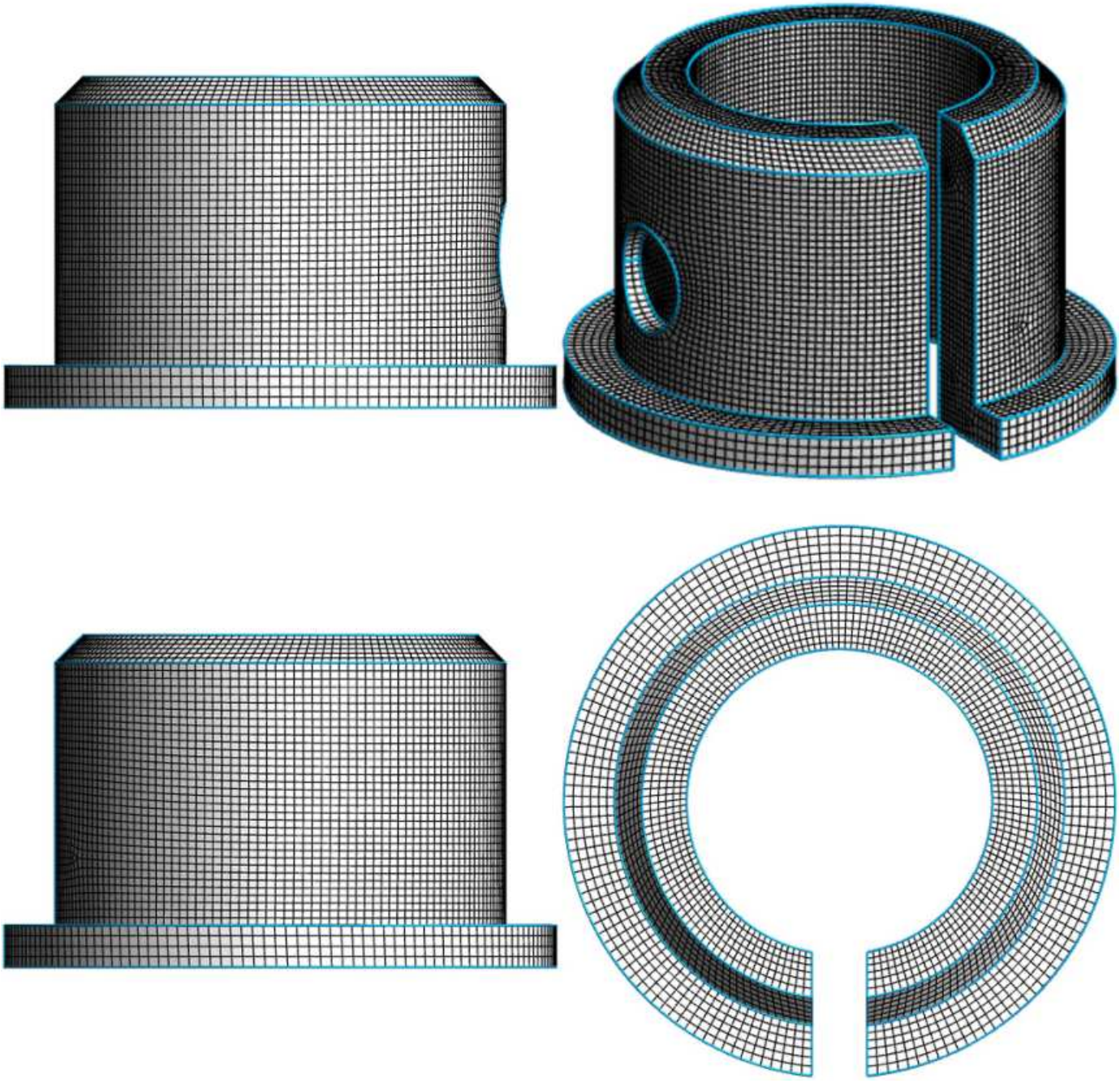


Model: 00003138 (from ABC dataset)
CAD: 17 corners, 25 curves, 11 faces
Cross field: 8 singularities detected
Timings: 11.2856 sec to generate the unstructured mesh, 1.60267 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19344	20765	79	6
Quasi-structured	19912	21333	22	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.188142	0.54442	1.12117	0.135739	0.983155	0.993036
Quasi-structured	0.216591	0.537849	1.0583	0.702327	0.985884	0.992308

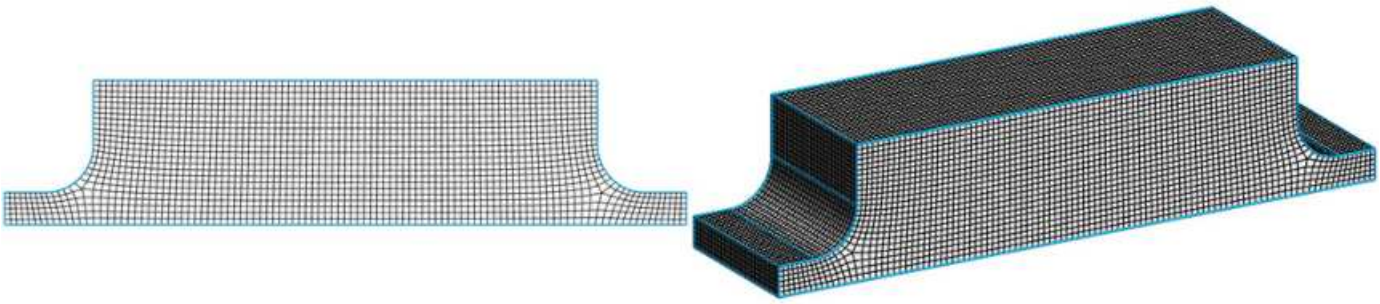


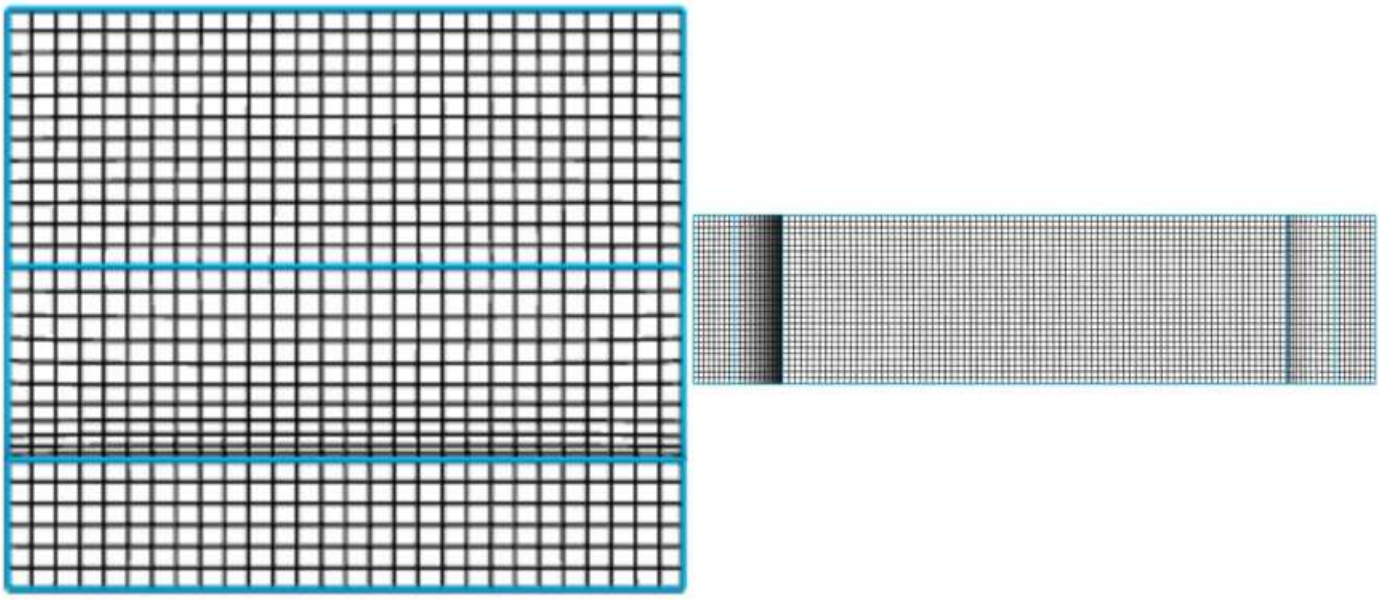
Model: 00003144 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 4 singularities detected
Timings: 7.53463 sec to generate the unstructured mesh, 1.10905 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11148	11964	44	4
Quasi-structured	11474	12290	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0769579	0.193158	0.323211	0.641101	0.992381	0.997931
Quasi-structured	0.1558	0.190404	0.352241	0.825032	0.995494	0.997267



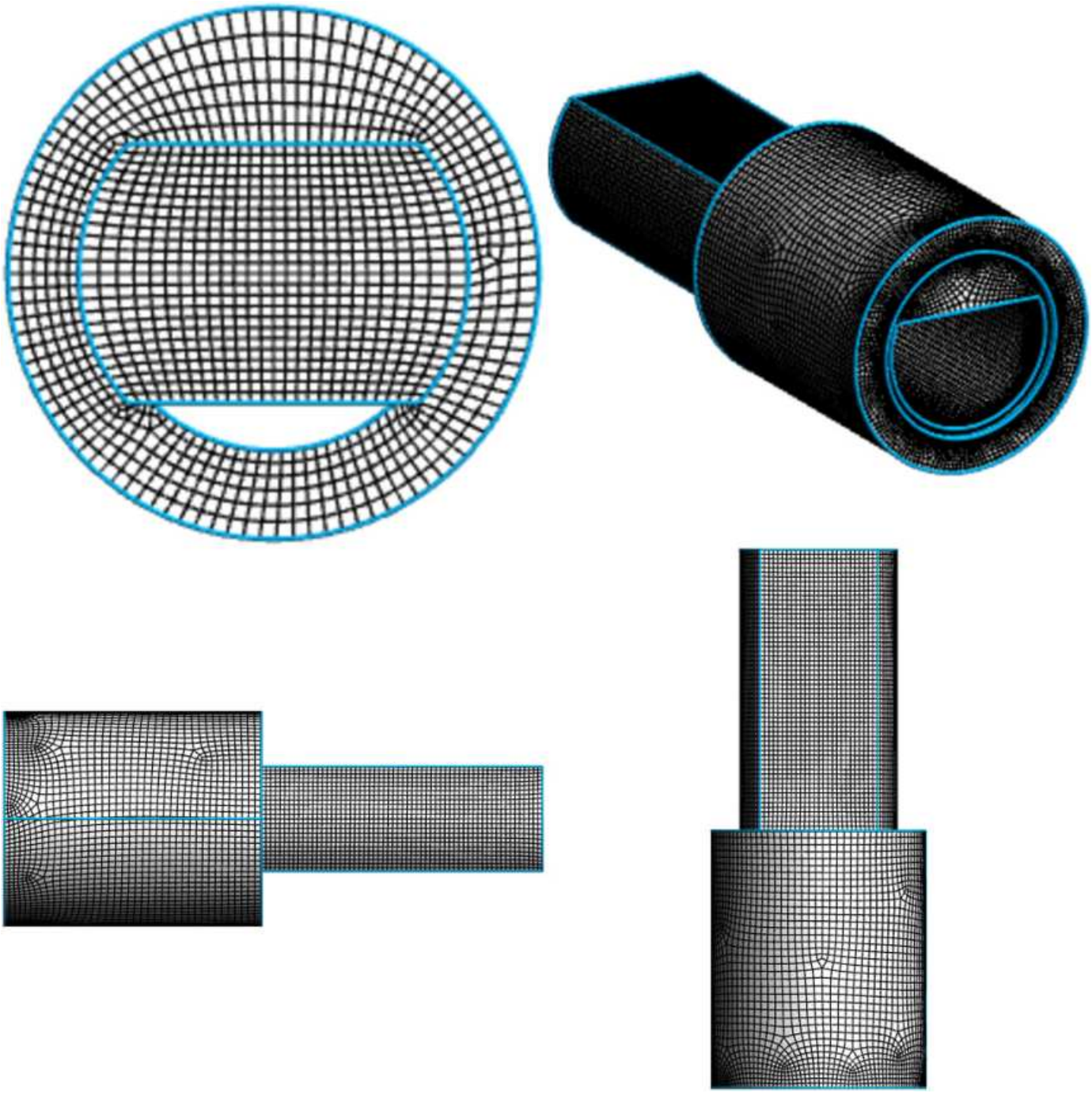


Model: 00003157 (from ABC dataset)
CAD: 18 corners, 28 curves, 13 faces
Cross field: 8 singularities detected
Timings: 13.7927 sec to generate the unstructured mesh, 17.8207 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20128	21650	385	54
Quasi-structured	20466	21988	130	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0305887	0.167675	0.35191	0.335916	0.970677	0.997084
Quasi-structured	0.0224802	0.165655	0.397605	0.3792	0.9836	0.997821

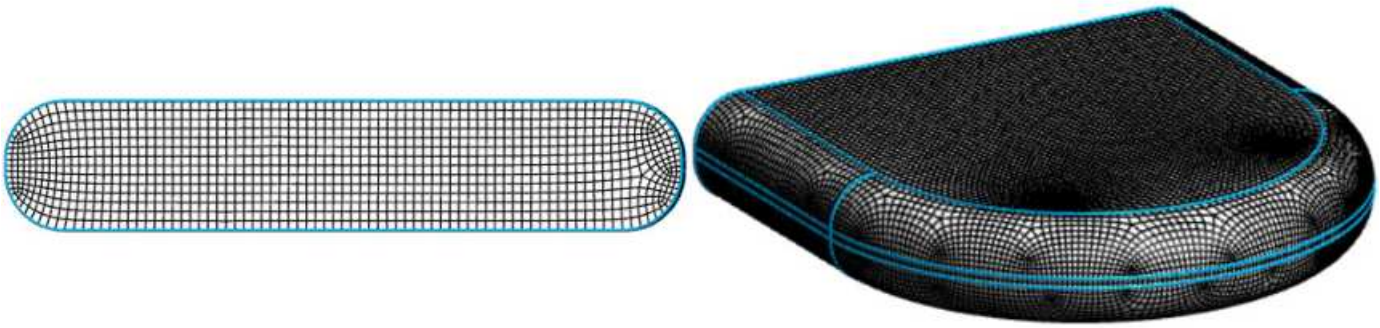


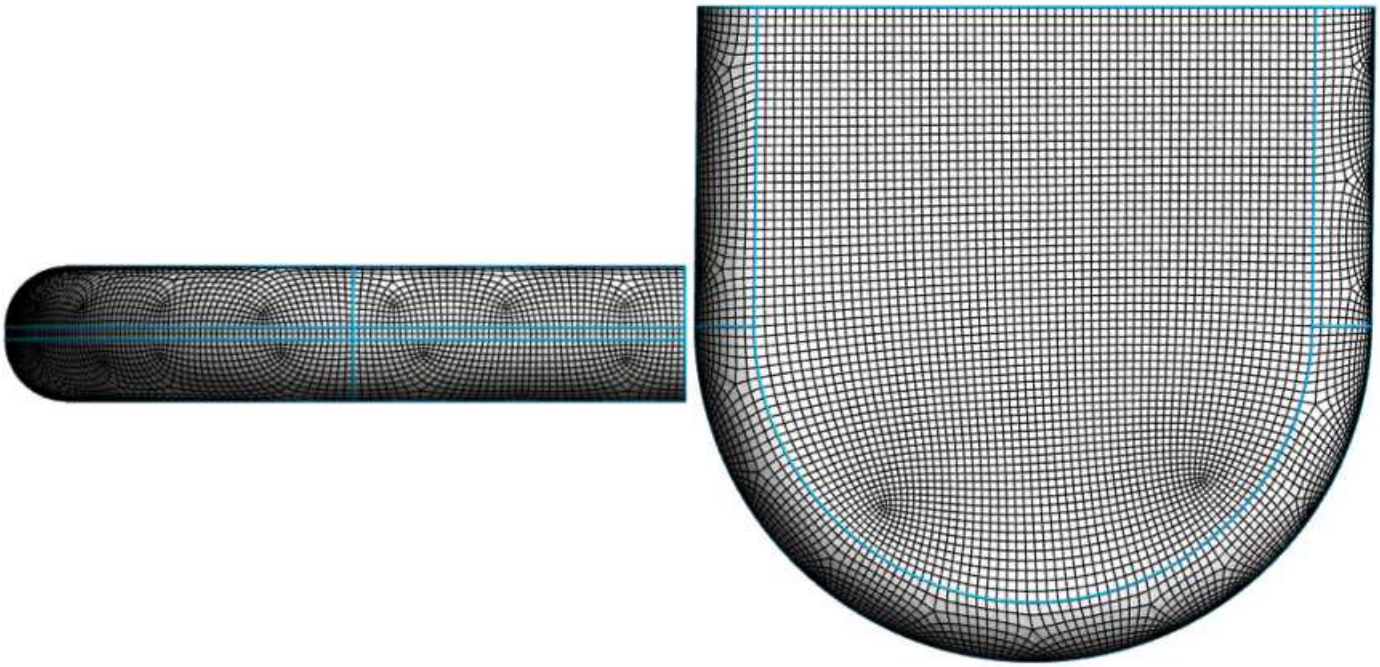
Model: 00003164 (from ABC dataset)
CAD: 16 corners, 26 curves, 12 faces
Cross field: 8 singularities detected
Timings: 8.75047 sec to generate the unstructured mesh, 5.66528 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15068	16220	362	16
Quasi-structured	15128	16280	74	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0805609	0.275761	0.496207	0.346013	0.967931	0.995285
Quasi-structured	0.0853012	0.273024	0.557695	0.781638	0.990388	0.997479



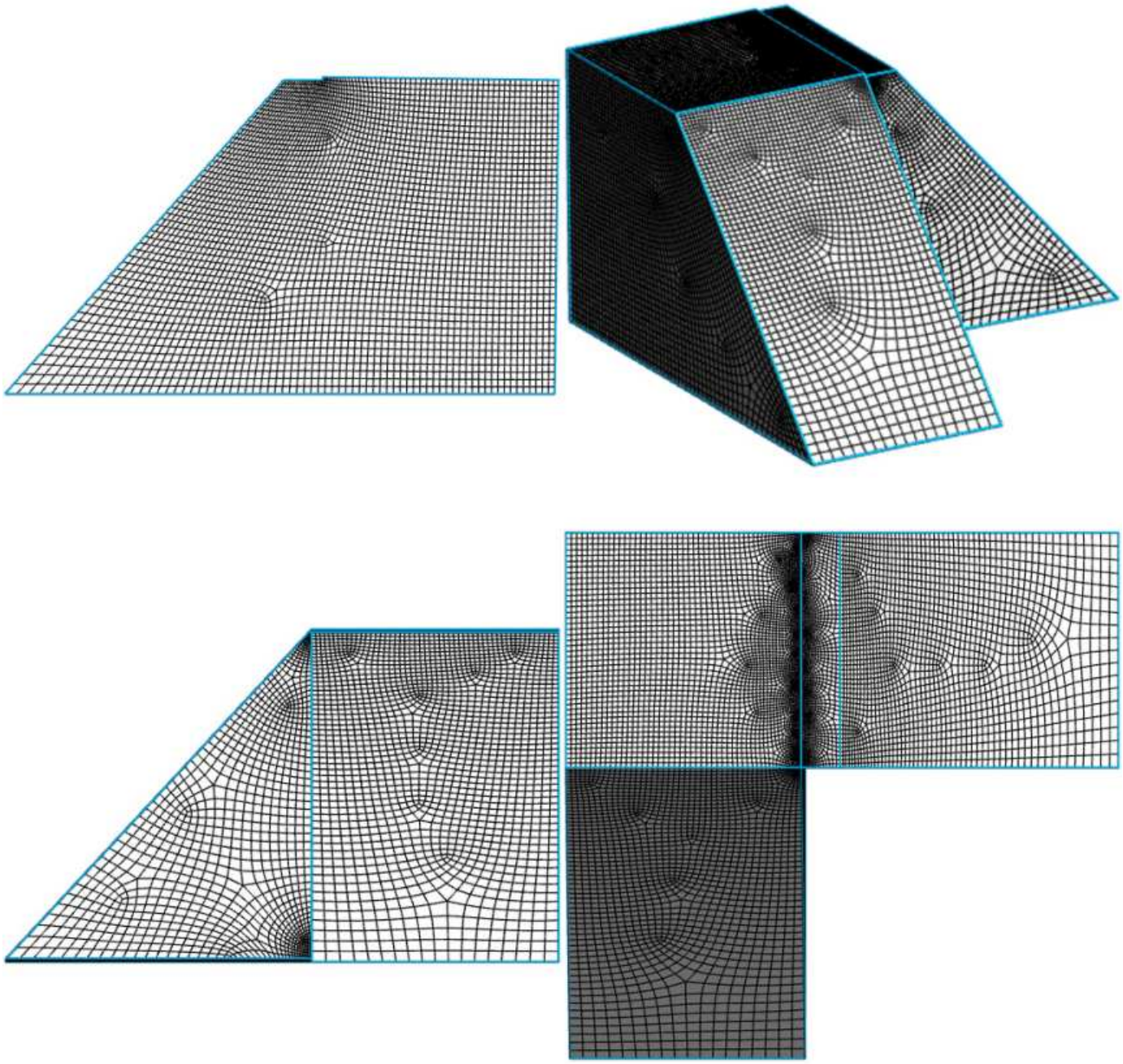


Model: 00003173 (from ABC dataset)
CAD: 15 corners, 23 curves, 10 faces
Cross field: 1 singularities detected
Timings: 6.88168 sec to generate the unstructured mesh, 14.4117 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19912	21152	677	24
Quasi-structured	20375	21615	179	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.11197	1.88598	6.33148	0.012449	0.956779	0.987222
Quasi-structured	0.0693469	1.86913	6.44644	0.012449	0.967976	0.992433



Model: 00003182 (from ABC dataset)
CAD: 85 corners, 141 curves, 54 faces
Cross field: 26 singularities detected
Timings: 8.42478 sec to generate the unstructured mesh, 78.2293 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15082	18938	663	349
Quasi-structured	16838	20694	246	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0221115	1.16751	2.42066	0.0218561	0.906096	0.944923
Quasi-structured	0.0689577	1.10984	2.92007	0.262055	0.903285	0.943358

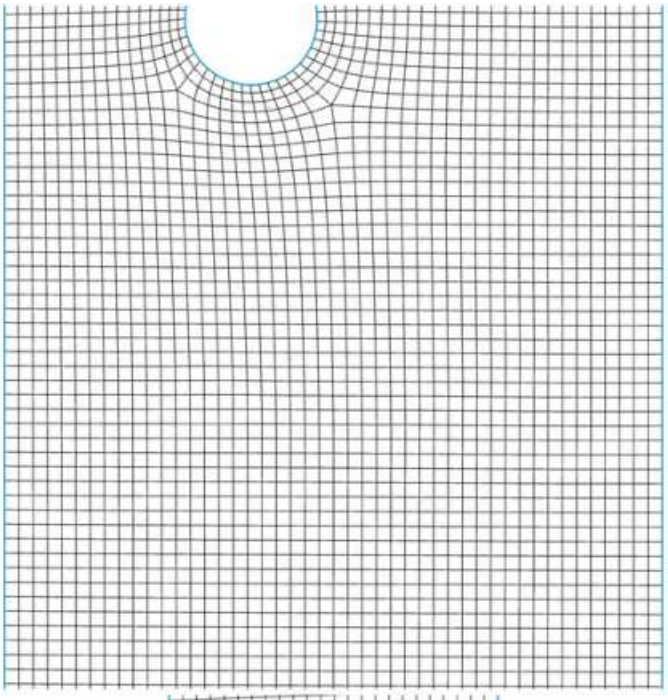


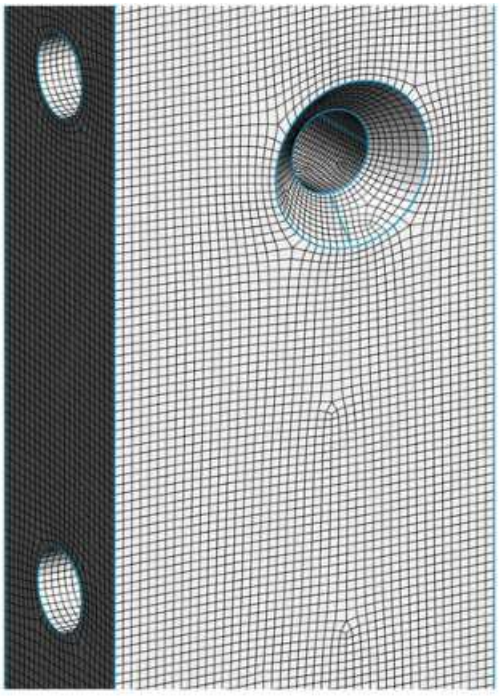
Model: 00003195 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 24 singularities detected
Timings: 14.3571 sec to generate the unstructured mesh, 2.57775 sec to make it quasi-structured
Mesh topology:

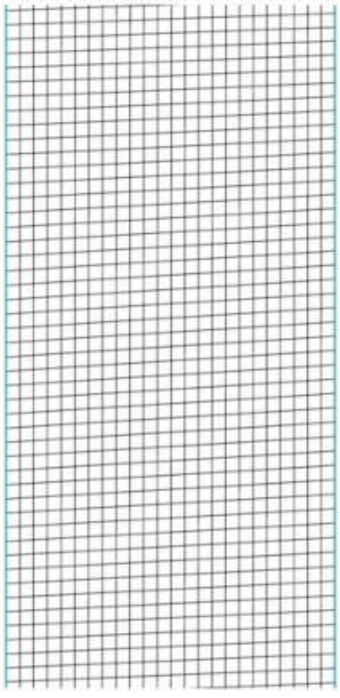
	# quads	# vertices	# irregular	# very irregular
Unstructured	18906	19862	160	102
Quasi-structured	18965	19921	44	0

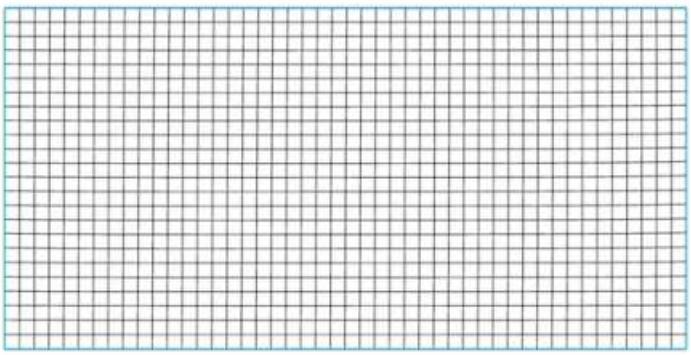
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.137896	0.513219	0.952563	0.156514	0.986796	0.998566
Quasi-structured	0.164973	0.511954	1.06623	0.742103	0.995217	0.998995







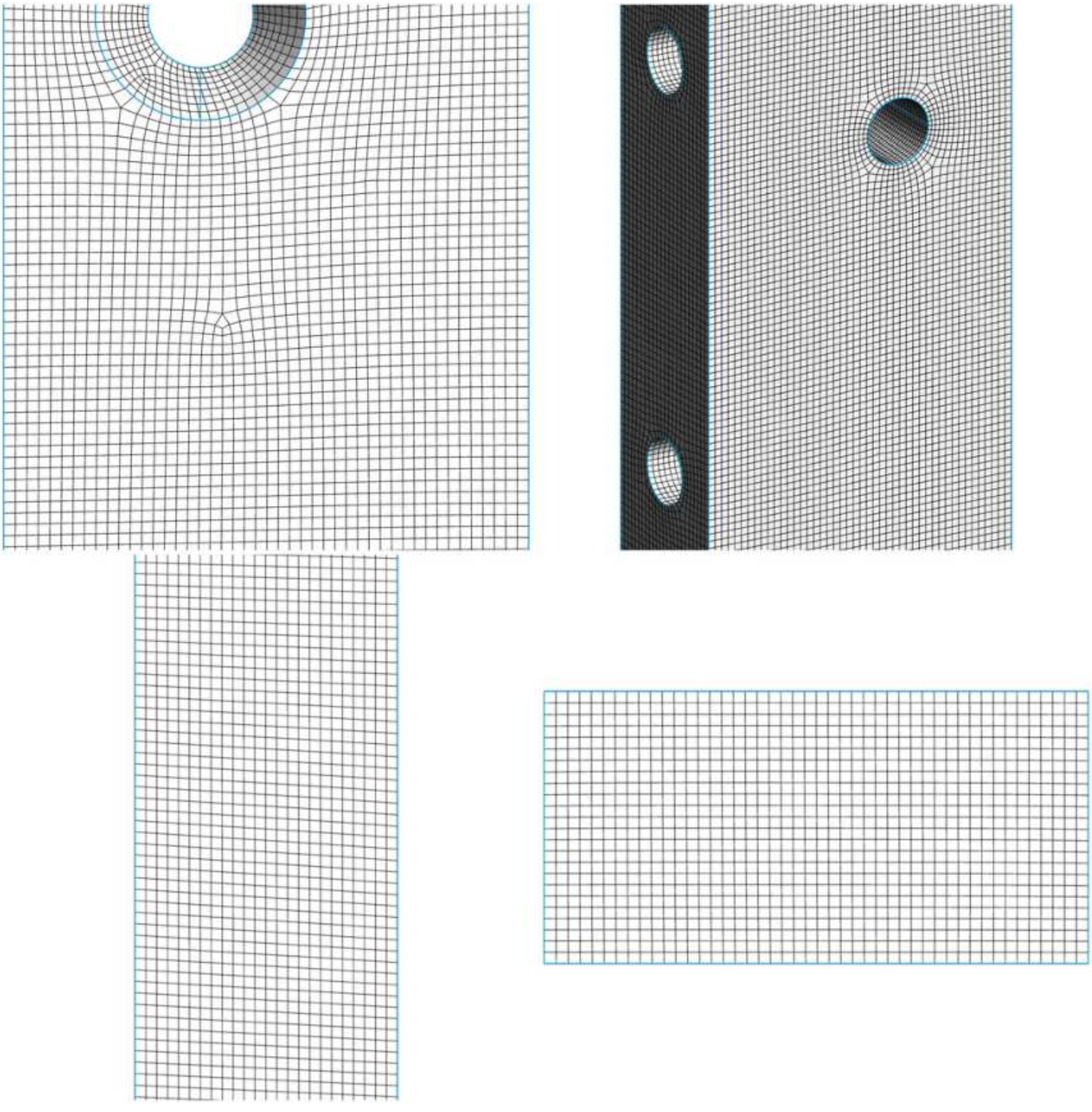


Model: 00003196 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 24 singularities detected
Timings: 9.59128 sec to generate the unstructured mesh, 1.70048 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18914	19872	158	100
Quasi-structured	19088	20046	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.118342	0.513396	0.932948	0.428556	0.987214	0.998602
Quasi-structured	0.17452	0.510734	1.08111	0.678509	0.995675	0.999062

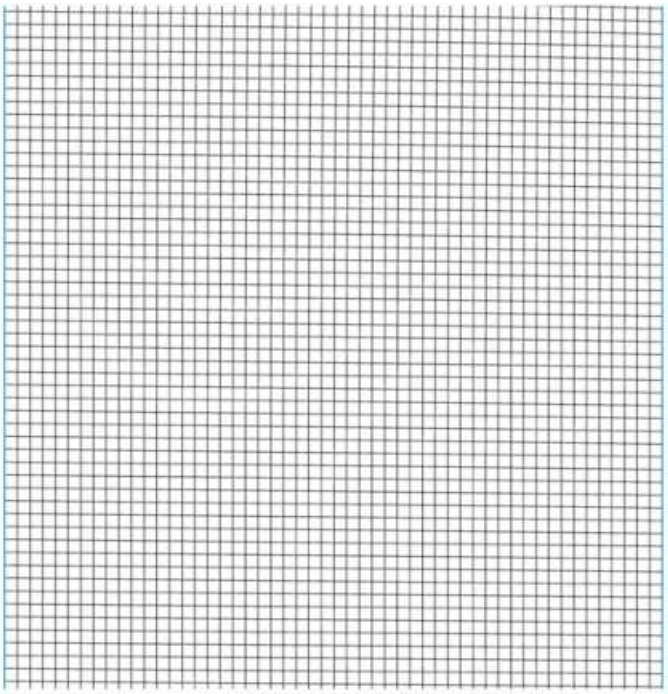
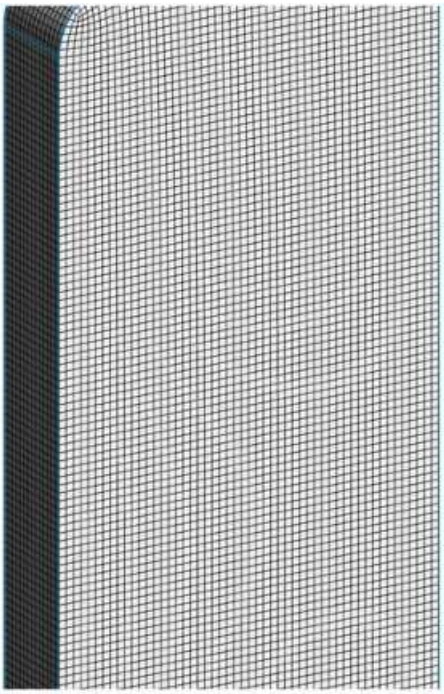
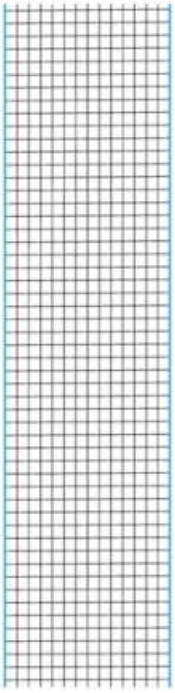
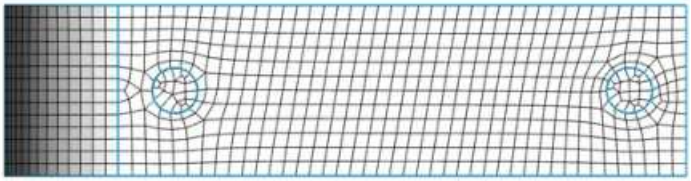


Model: 00003197 (from ABC dataset)
CAD: 18 corners, 27 curves, 15 faces
Cross field: 34 singularities detected
Timings: 11.7916 sec to generate the unstructured mesh, 3.1886 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15596	16401	93	73
Quasi-structured	15915	16720	64	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.404829	1.45132	2.35196	0.26757	0.990837	0.999735
Quasi-structured	0.416676	1.43583	2.3157	0.589058	0.995035	0.999795

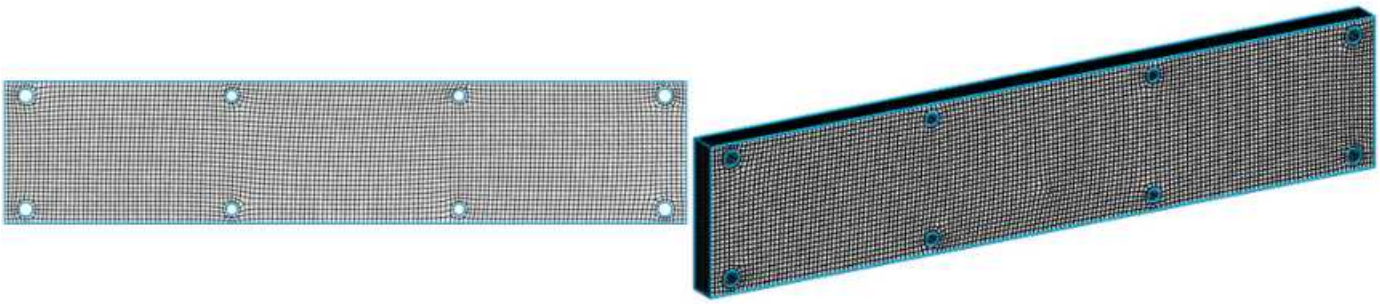





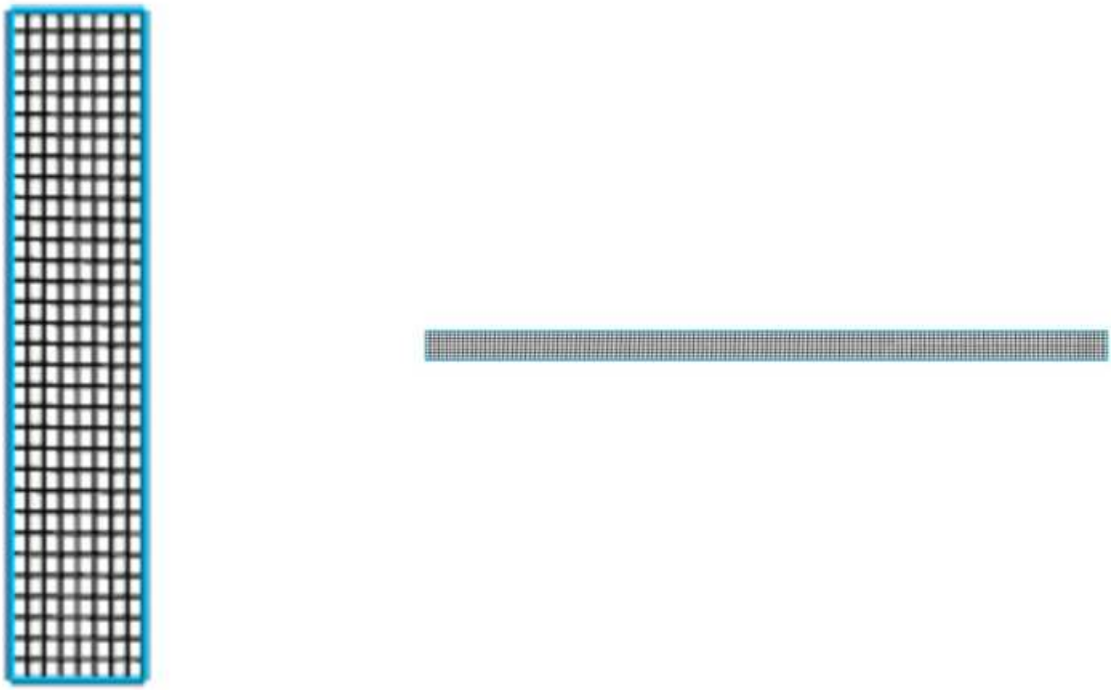
Model: 00003205 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 64 singularities detected
Timings: 10.8063 sec to generate the unstructured mesh, 2.51944 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13322	14288	231	76
Quasi-structured	13230	14196	70	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.476323	1.92852	3.23842	0.16404	0.970467	0.996145
Quasi-structured	0.794933	1.93093	3.29779	0.559357	0.98426	0.996314



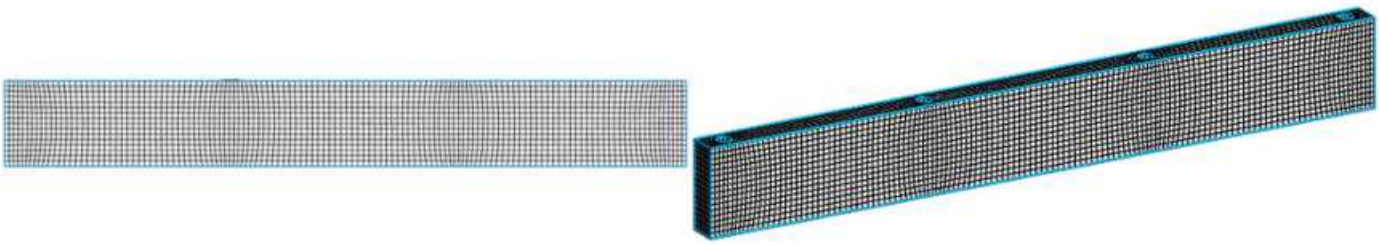


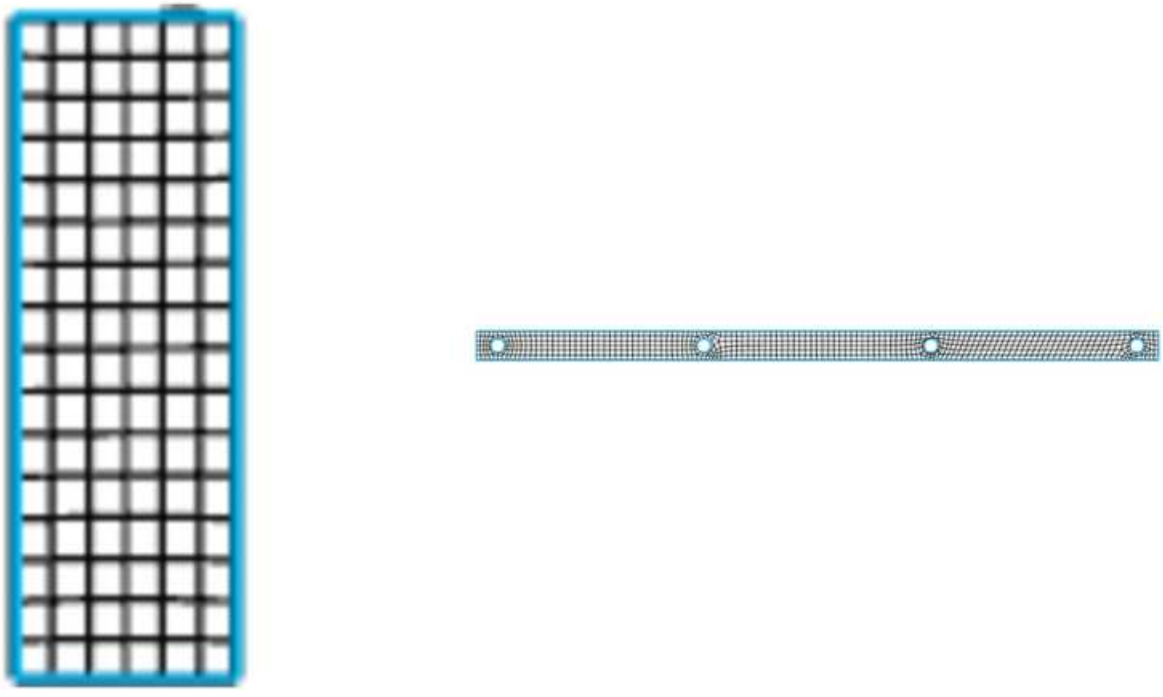
Model: 00003209 (from ABC dataset)
CAD: 20 corners, 28 curves, 10 faces
Cross field: 32 singularities detected
Timings: 2.87854 sec to generate the unstructured mesh, 1.25359 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6620	7322	100	87
Quasi-structured	6835	7537	62	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.488593	2.27929	3.77558	0.0613251	0.971525	0.993712
Quasi-structured	0.369731	2.24852	4.55809	0.289697	0.974959	0.994665



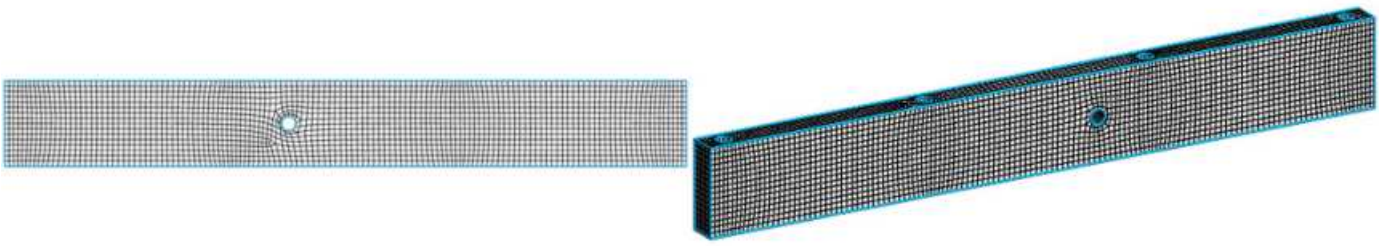


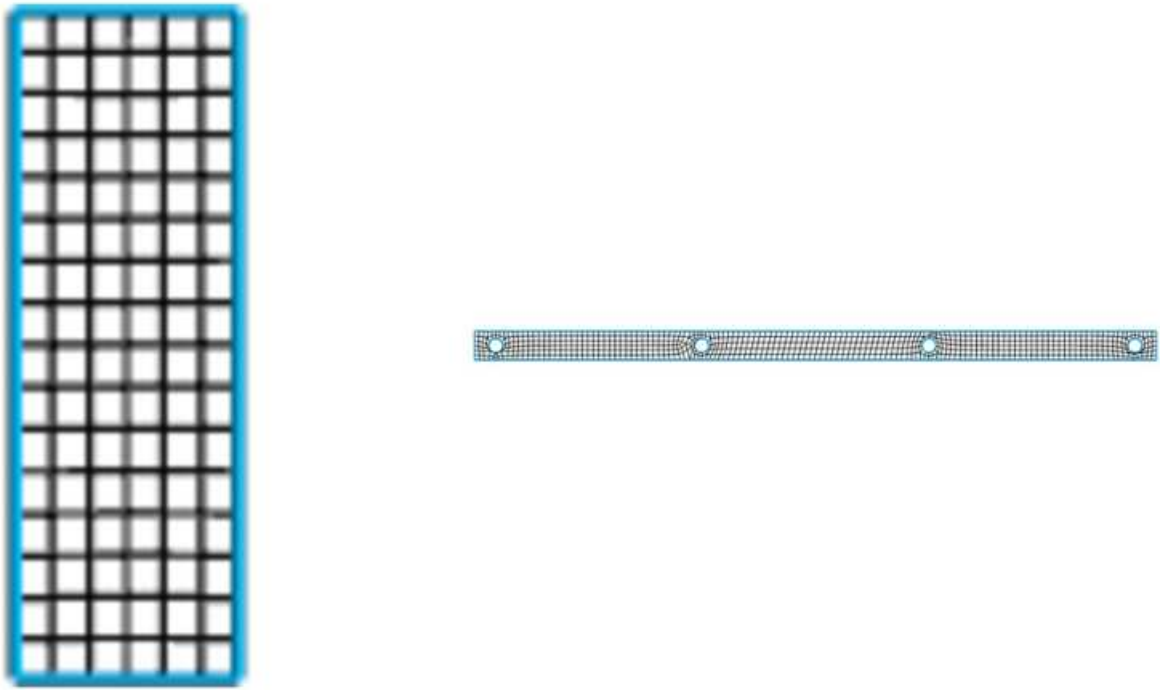
Model: 00003210 (from ABC dataset)
CAD: 23 corners, 32 curves, 11 faces
Cross field: 40 singularities detected
Timings: 4.91574 sec to generate the unstructured mesh, 1.41265 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7166	7908	156	96
Quasi-structured	7189	7931	70	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.476585	2.19829	3.77659	0.0055401	0.967241	0.99537
Quasi-structured	0.463244	2.1976	4.48564	0.161207	0.97988	0.993994



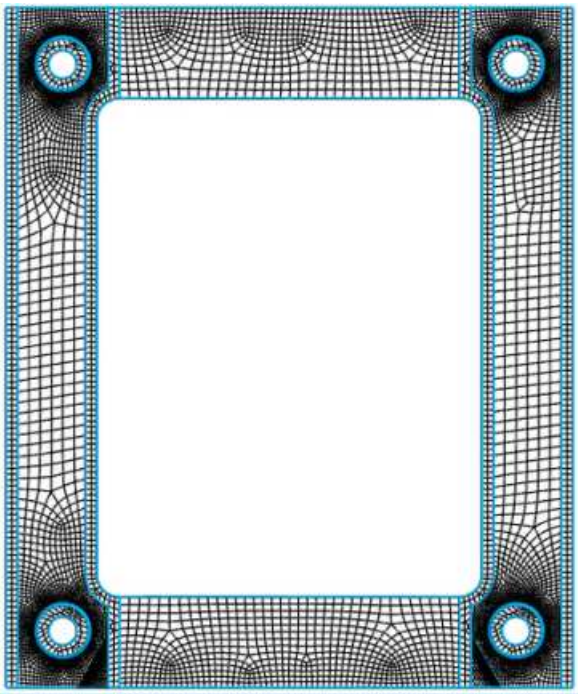


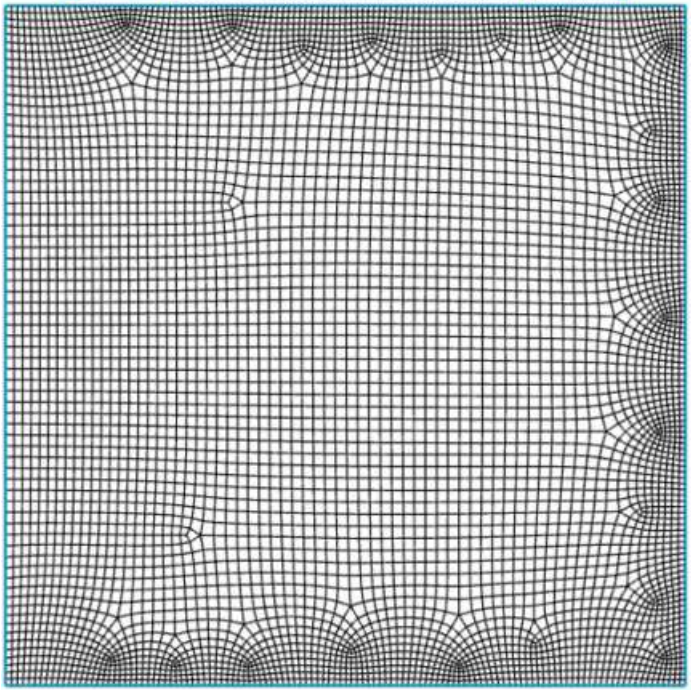
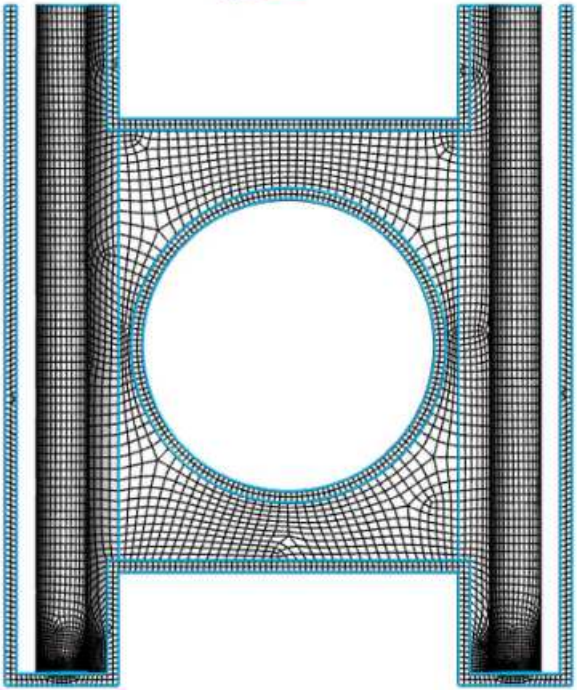
Model: 00003214 (from ABC dataset)
CAD: 144 corners, 220 curves, 82 faces
Cross field: 56 singularities detected
Timings: 44.3378 sec to generate the unstructured mesh, 61.7554 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	109708	117894	2997	1086
Quasi-structured	115796	123982	982	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.010756	1.46867	4.81297	0.0106982	0.952884	0.987483
Quasi-structured	0.0982569	1.43776	4.95252	0.278333	0.962957	0.985408



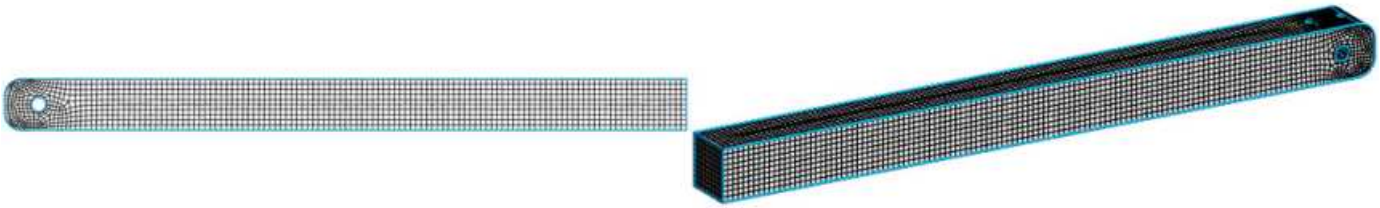



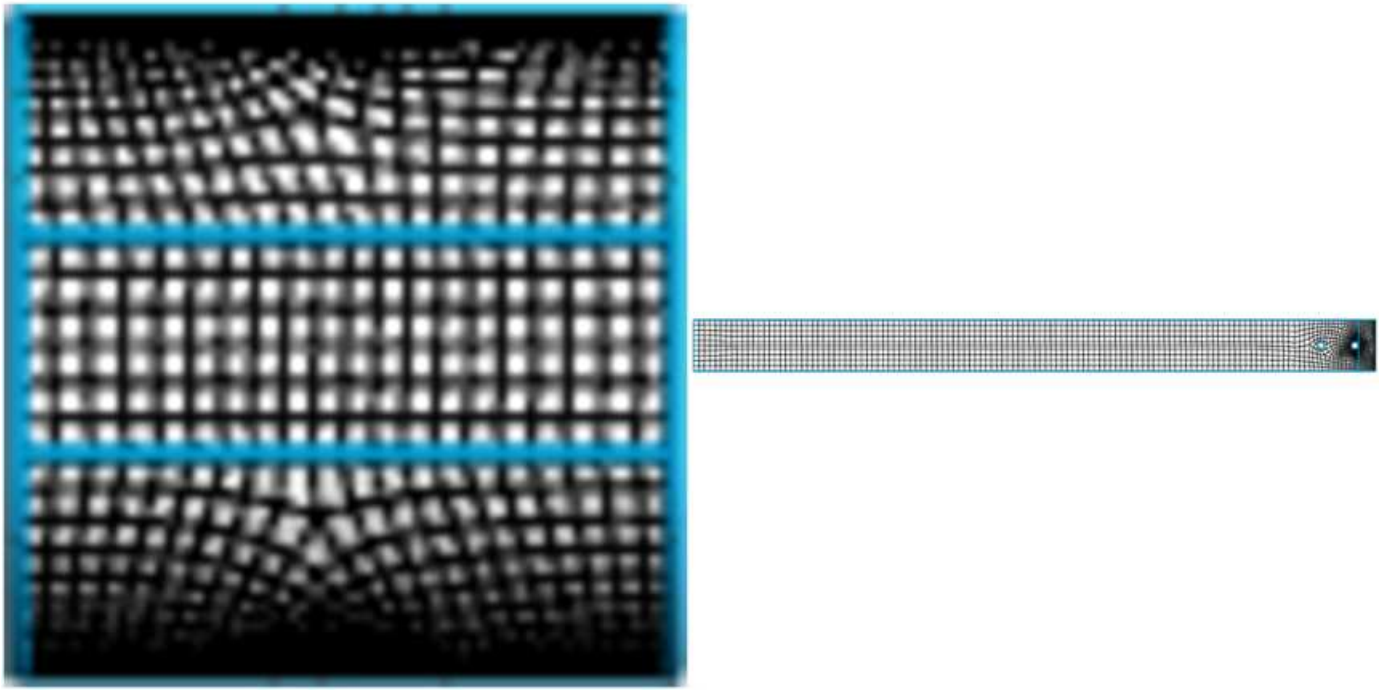
Model: 00003215 (from ABC dataset)
CAD: 21 corners, 32 curves, 11 faces
Cross field: 37 singularities detected
Timings: 2.88896 sec to generate the unstructured mesh, 3.38938 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8880	9756	357	86
Quasi-structured	8513	9389	110	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0557965	2.71923	4.95457	0.114556	0.94716	0.991447
Quasi-structured	0.0242336	2.79863	5.46299	0.119315	0.968777	0.995464



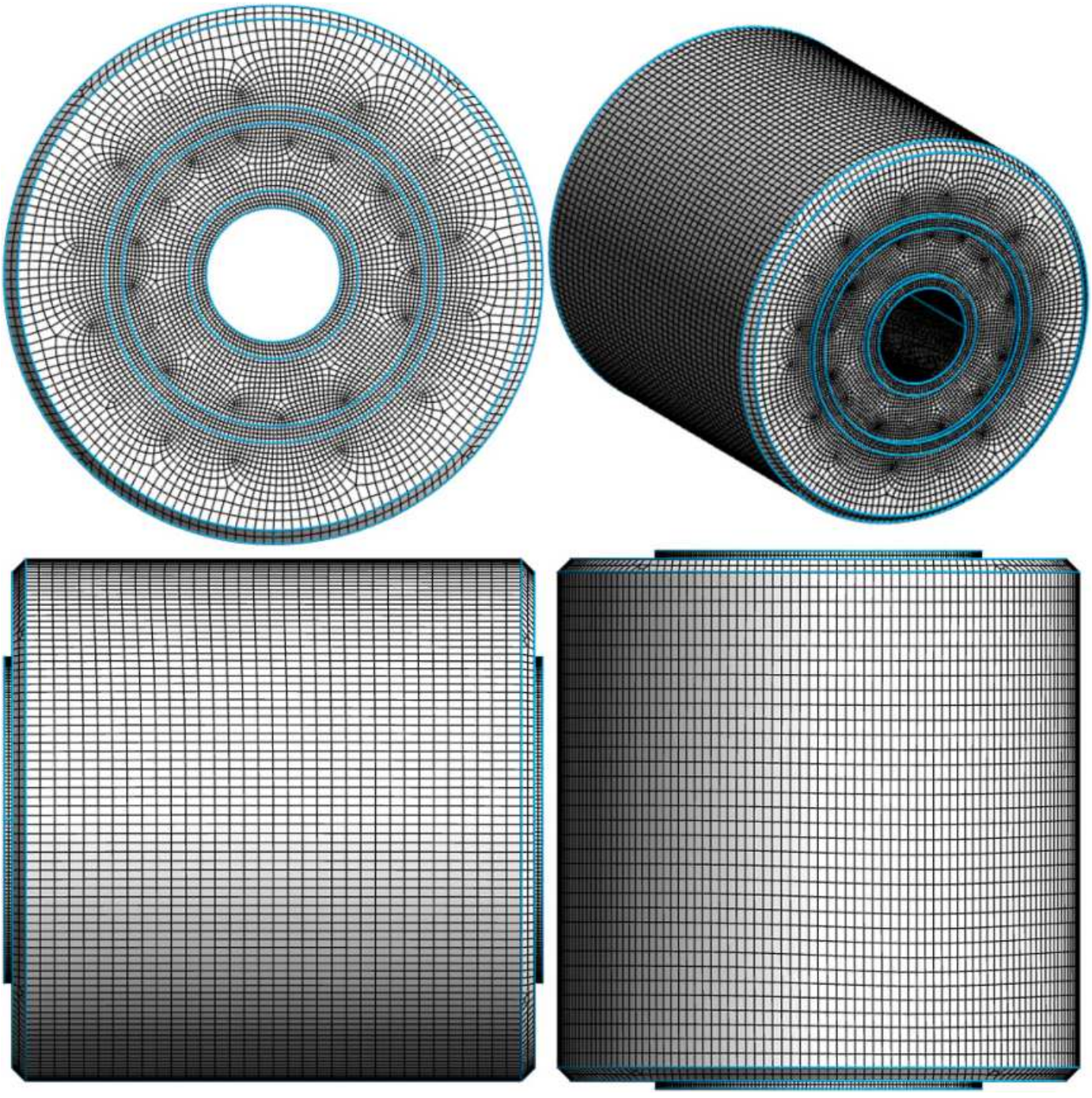


Model: 00003218 (from ABC dataset)
CAD: 18 corners, 28 curves, 18 faces
Cross field: 0 singularities detected
Timings: 13.207 sec to generate the unstructured mesh, 16.6703 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34938	38358	715	219
Quasi-structured	39115	42535	200	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.15681	0.5483	3.30454	0.46142	0.967528	0.993035
Quasi-structured	0.0995972	0.536053	1.52821	0.325412	0.96069	0.974849

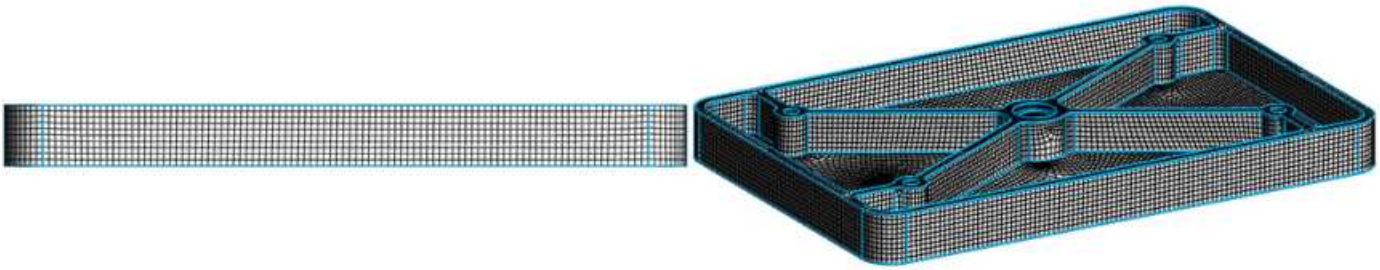


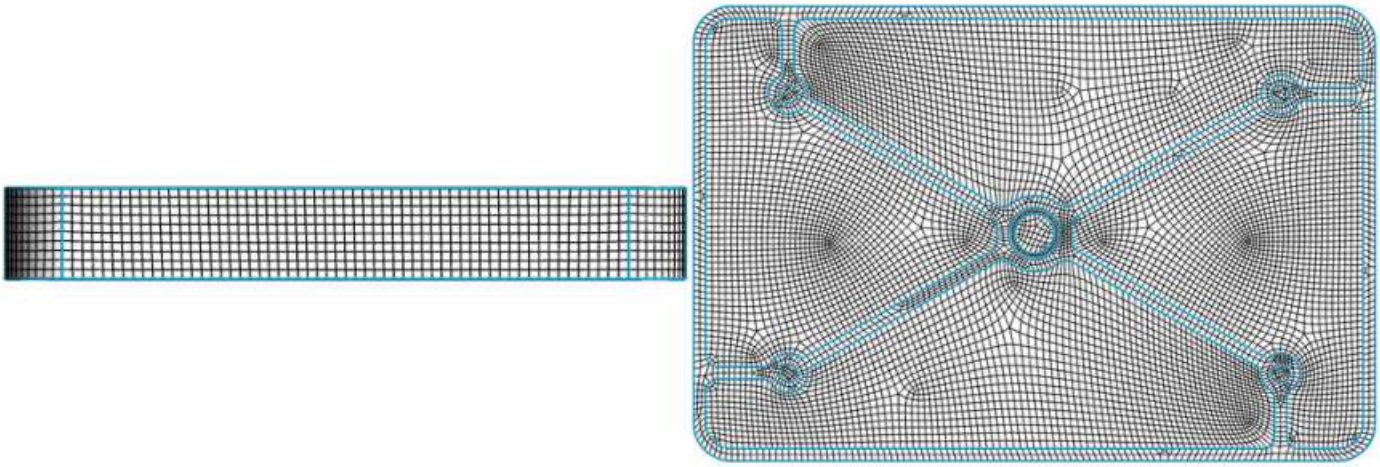
Model: 00003233 (from ABC dataset)
CAD: 156 corners, 234 curves, 90 faces
Cross field: 76 singularities detected
Timings: 11.7812 sec to generate the unstructured mesh, 5.98036 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26300	29706	442	69
Quasi-structured	27273	30679	280	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.186523	1.02768	2.20365	0.184491	0.971838	0.993891
Quasi-structured	0.117085	1.00837	2.82277	0.349483	0.970566	0.995027



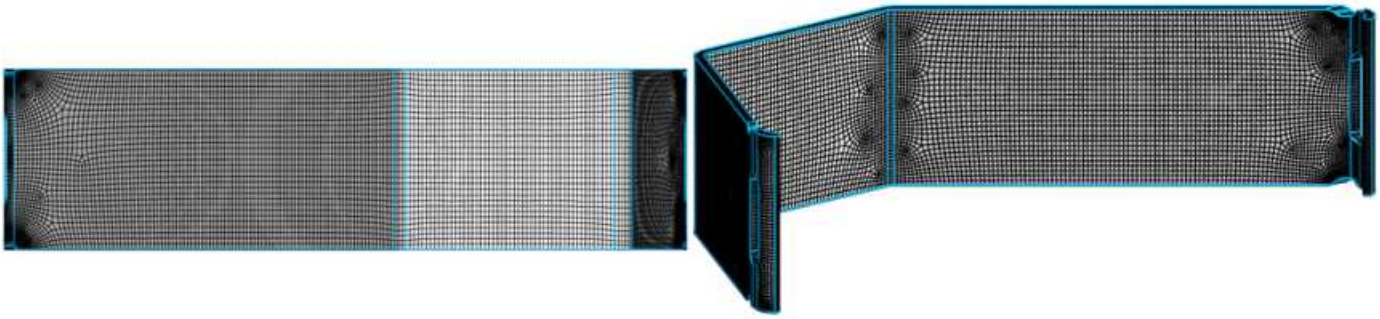


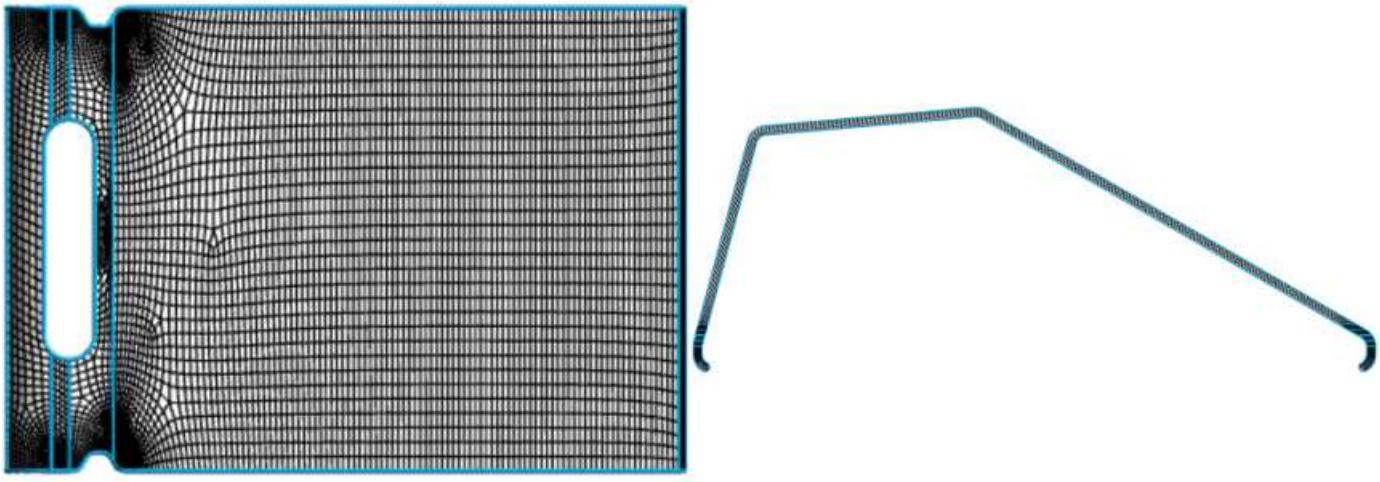
Model: 00003264 (from ABC dataset)
CAD: 150 corners, 225 curves, 73 faces
Cross field: 48 singularities detected
Timings: 9.46529 sec to generate the unstructured mesh, 43.6028 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31002	34889	1823	81
Quasi-structured	32979	36866	352	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000674113	0.804094	2.61415	0.00176031	0.910564	0.942957
Quasi-structured	0.0134368	0.775844	2.554	0.113242	0.925726	0.963689



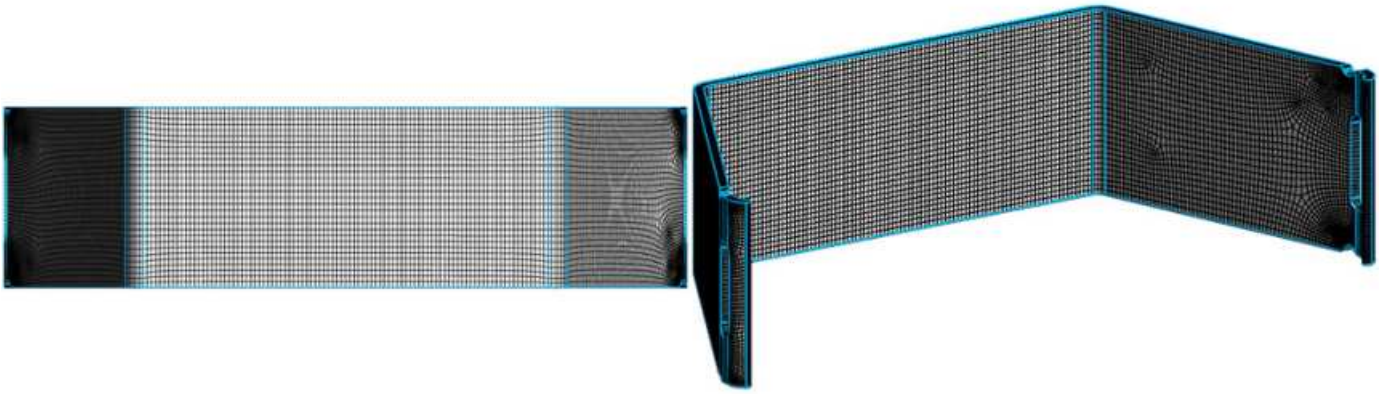


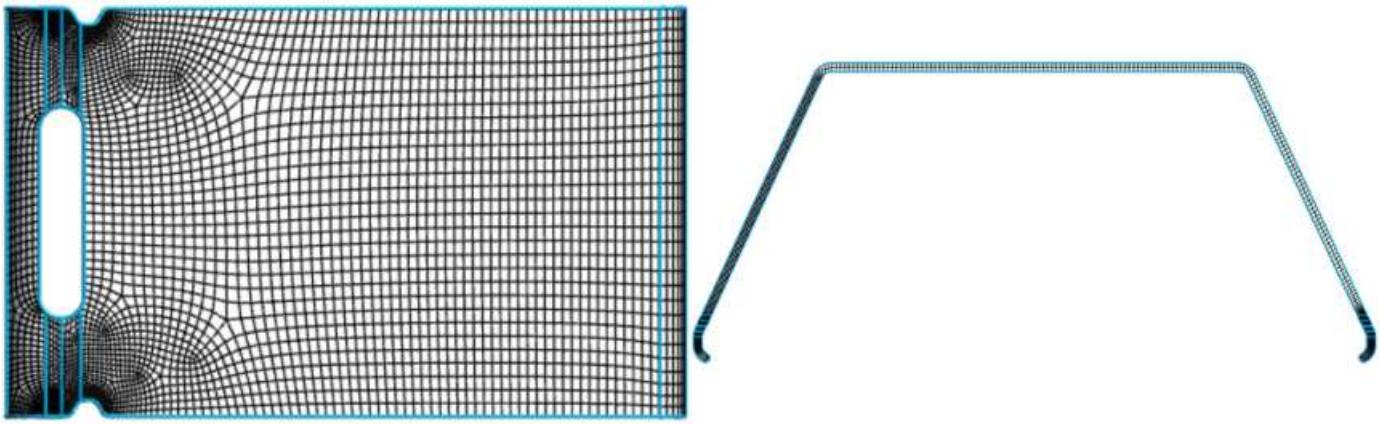
Model: 00003265 (from ABC dataset)
CAD: 152 corners, 228 curves, 74 faces
Cross field: 38 singularities detected
Timings: 12.3792 sec to generate the unstructured mesh, 26.8777 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30696	34434	1553	75
Quasi-structured	32514	36252	326	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00238866	0.864894	2.6277	0.00796742	0.91137	0.945068
Quasi-structured	0.0278806	0.833665	2.83535	0.35052	0.925251	0.958745



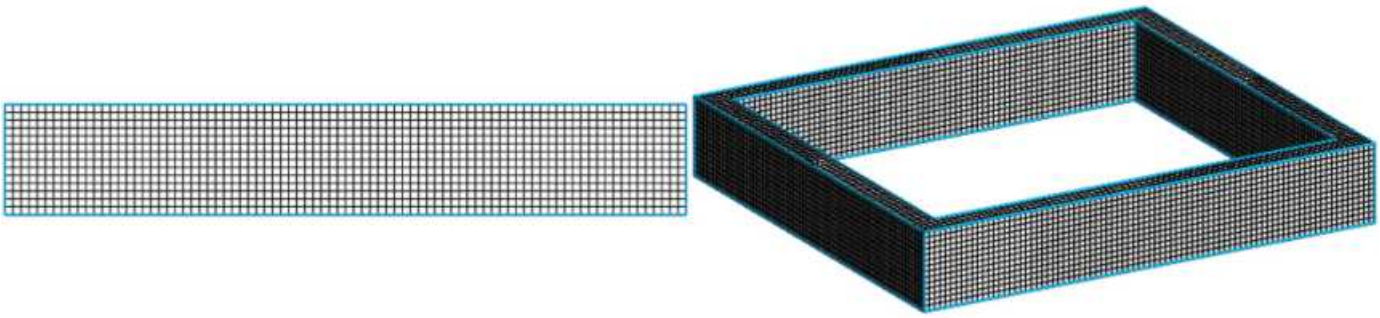


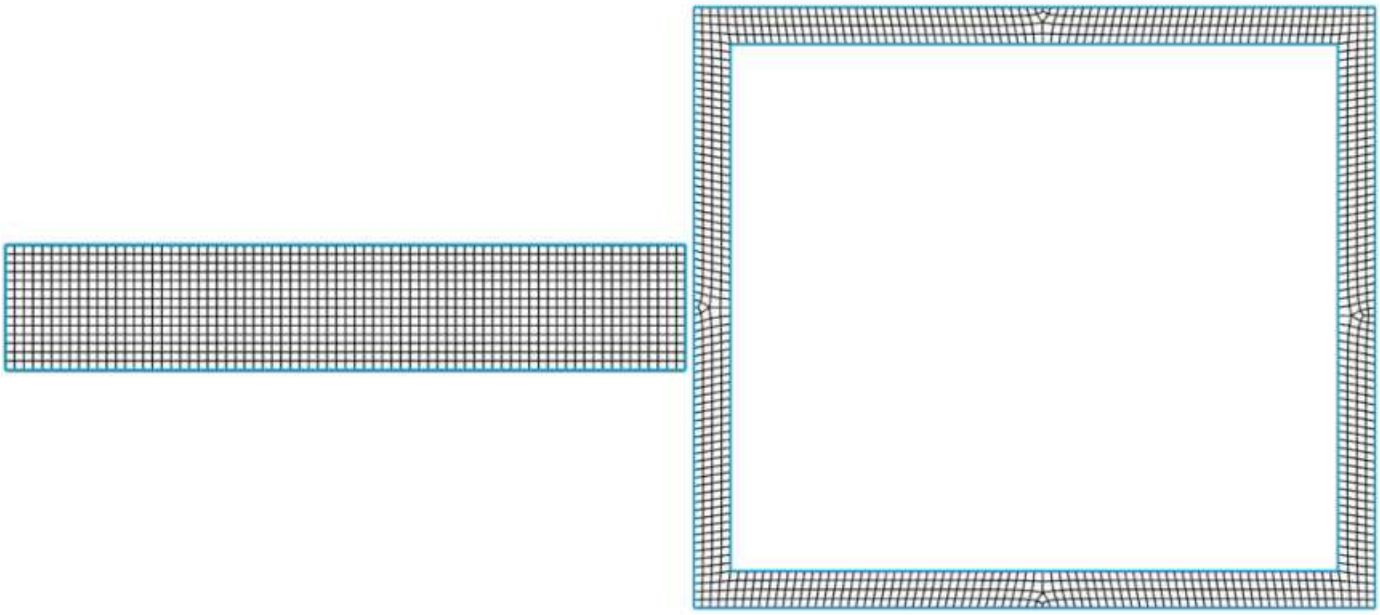
Model: 00003280 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 5.72259 sec to generate the unstructured mesh, 0.787002 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10668	11972	16	0
Quasi-structured	10658	11962	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	14.181	22.6052	30.2357	0.688507	0.991059	0.999211
Quasi-structured	12.123	22.5851	36.2814	0.778576	0.993967	0.999211





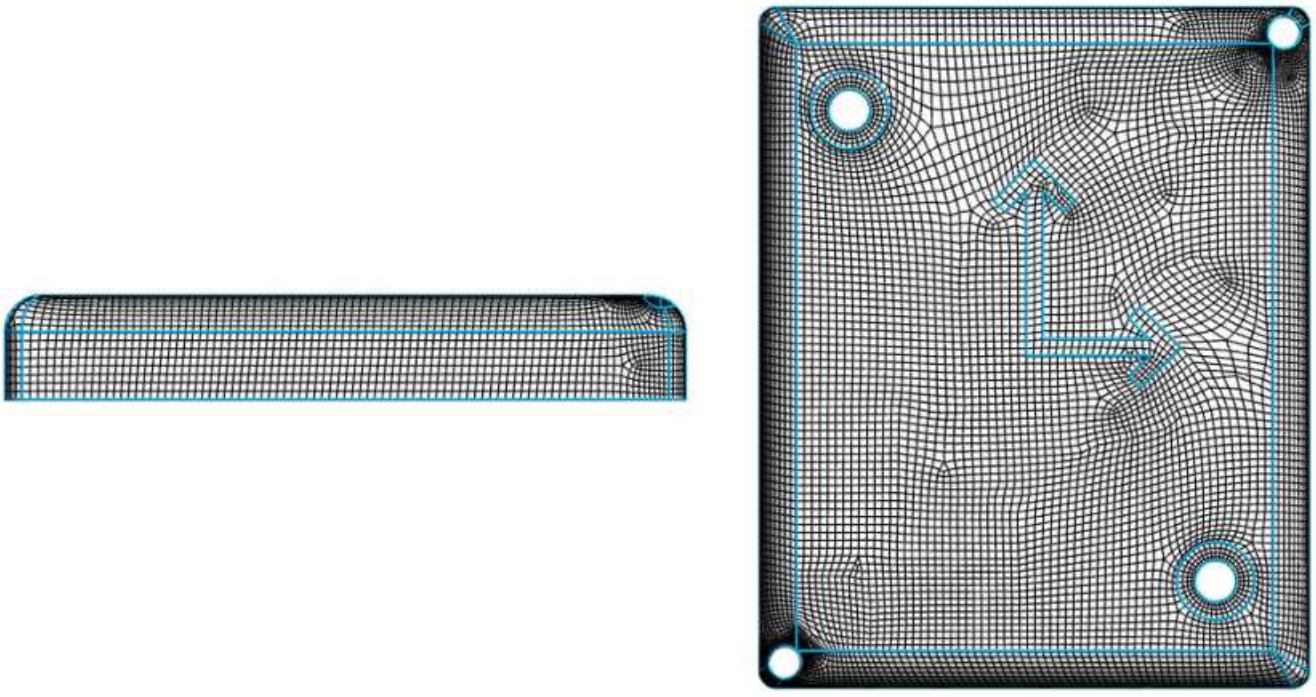
Model: 00003299 (from ABC dataset)
CAD: 119 corners, 181 curves, 63 faces
Cross field: 35 singularities detected
Timings: 18.5789 sec to generate the unstructured mesh, 11.0265 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25012	28018	741	111
Quasi-structured	25256	28262	189	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0161745	0.398316	0.76494	0.0206356	0.956048	0.98846
Quasi-structured	0.0168009	0.397267	1.37998	0.124829	0.967728	0.988119



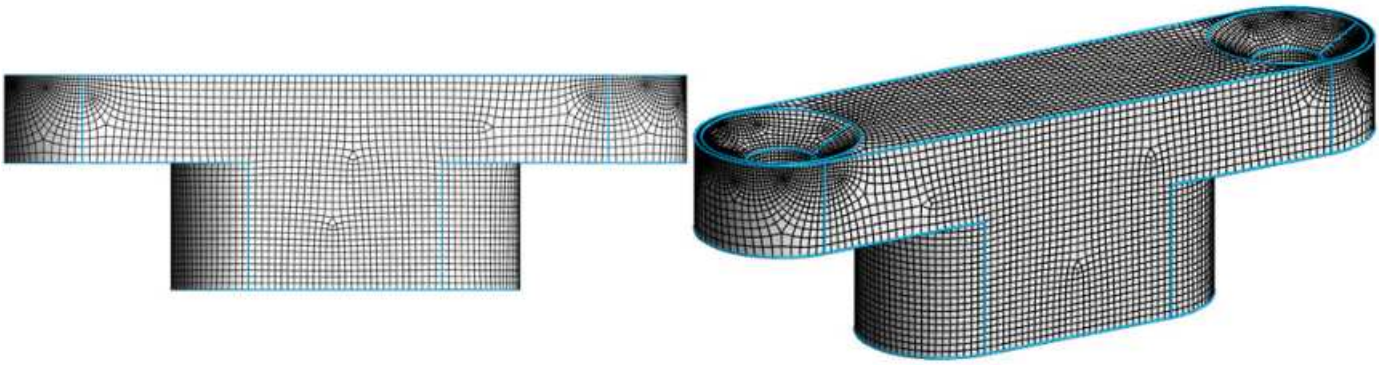


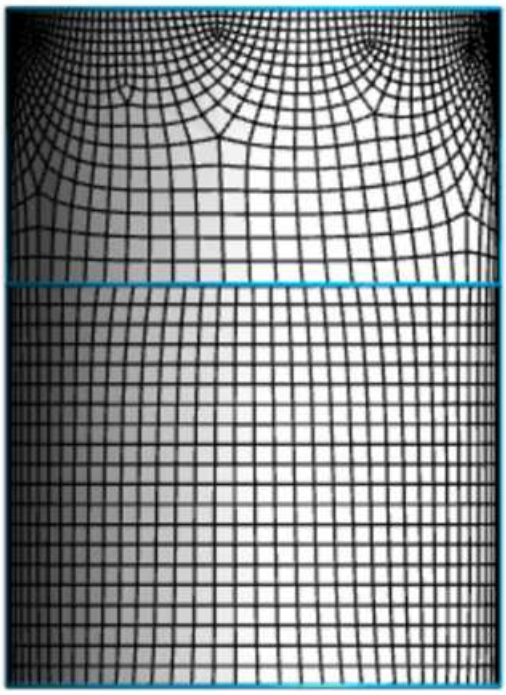
Model: 00003301 (from ABC dataset)
CAD: 22 corners, 34 curves, 14 faces
Cross field: 20 singularities detected
Timings: 8.12081 sec to generate the unstructured mesh, 5.26161 sec to make it quasi-structured
Mesh topology:

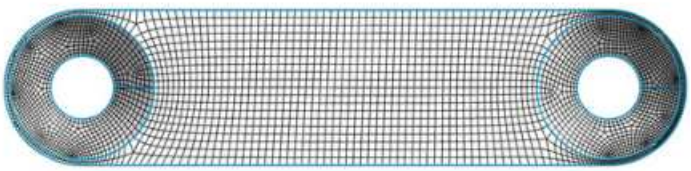
	# quads	# vertices	# irregular	# very irregular
Unstructured	14232	15526	396	77
Quasi-structured	14739	16033	122	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0341013	0.345477	0.738685	0.00144934	0.963875	0.993744
Quasi-structured	0.00876321	0.337977	0.910481	0.0398855	0.974684	0.994274





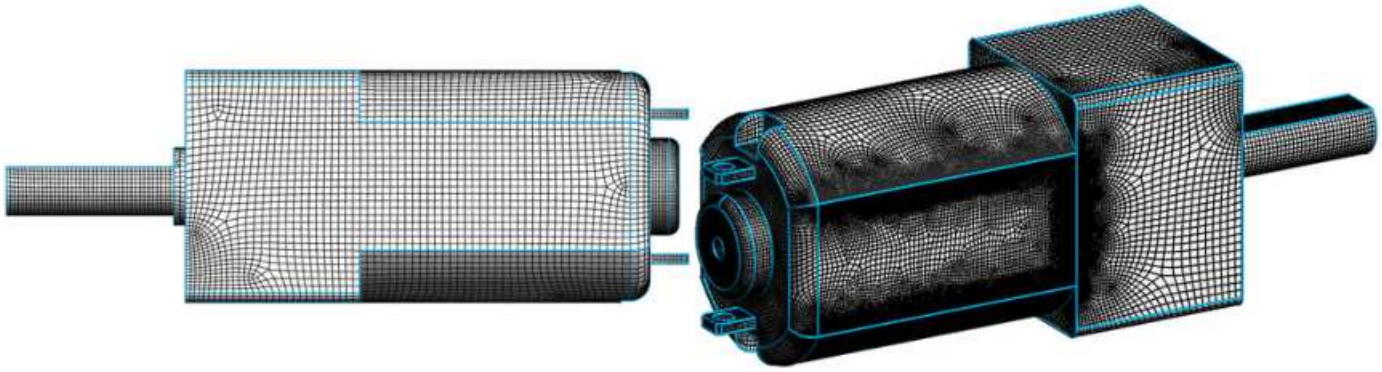


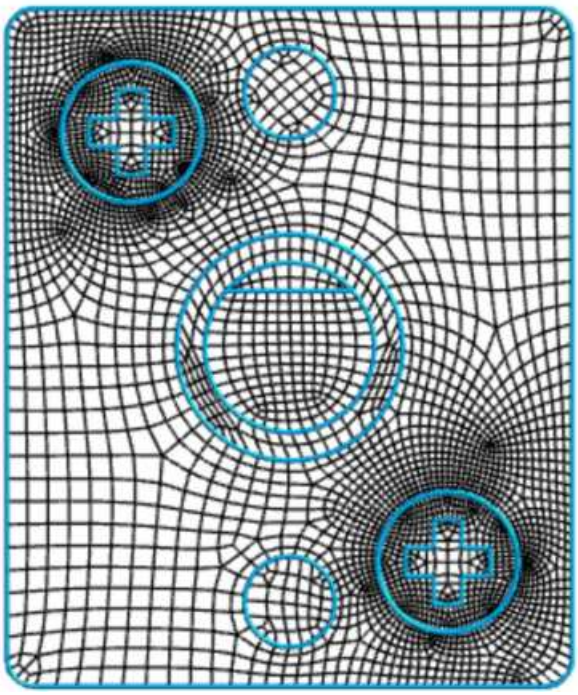
Model: 00003303 (from ABC dataset)
CAD: 168 corners, 253 curves, 103 faces
Cross field: 93 singularities detected
Timings: 14.423 sec to generate the unstructured mesh, 561.079 sec to make it quasi-structured
Mesh topology:

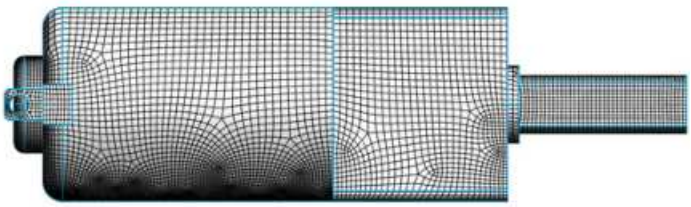
	# quads	# vertices	# irregular	# very irregular
Unstructured	89166	97830	8004	567
Quasi-structured	91075	99739	5517	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	3.37254e-05	0.0809206	0.599088	0.00250071	0.858037	0.967299
Quasi-structured	3.37254e-05	0.0788727	0.733852	0.00250034	0.897208	0.97927





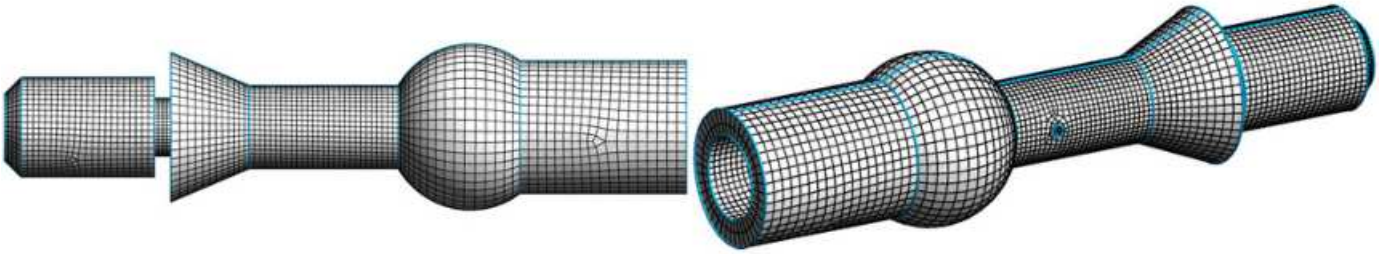


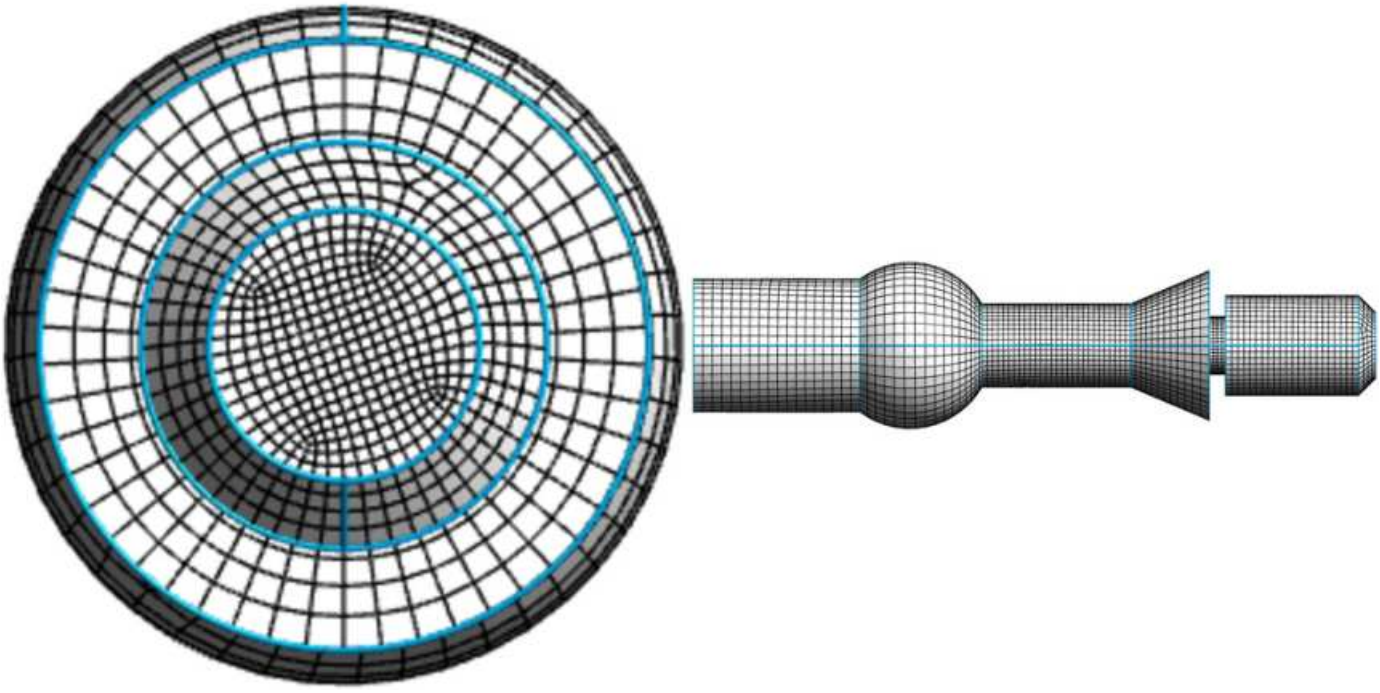
Model: 00003326 (from ABC dataset)
CAD: 18 corners, 29 curves, 16 faces
Cross field: 19 singularities detected
Timings: 7.37242 sec to generate the unstructured mesh, 1.30378 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9156	9806	99	197
Quasi-structured	9539	10189	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0692359	0.351242	0.816018	0.294884	0.978878	0.996414
Quasi-structured	0.0692359	0.340991	0.839484	0.351377	0.987952	0.996708



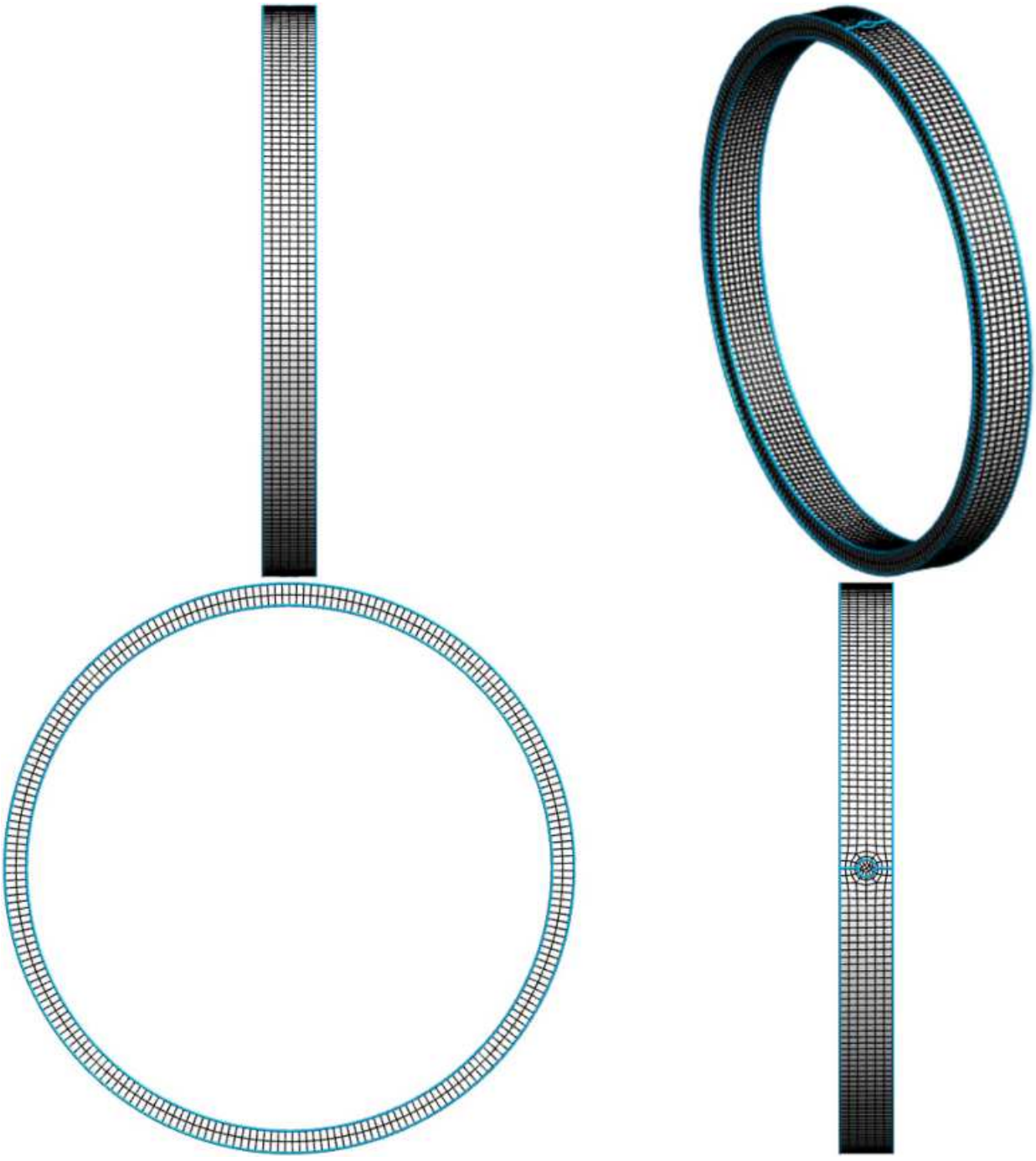


Model: 00003332 (from ABC dataset)
CAD: 9 corners, 14 curves, 8 faces
Cross field: 16 singularities detected
Timings: 3.0982 sec to generate the unstructured mesh, 0.279339 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	4436	5436	32	20
Quasi-structured	4445	5445	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.186813	0.868476	1.30123	0.175889	0.95989	0.999854
Quasi-structured	0.218952	0.866089	1.27549	0.662573	0.971224	0.988974

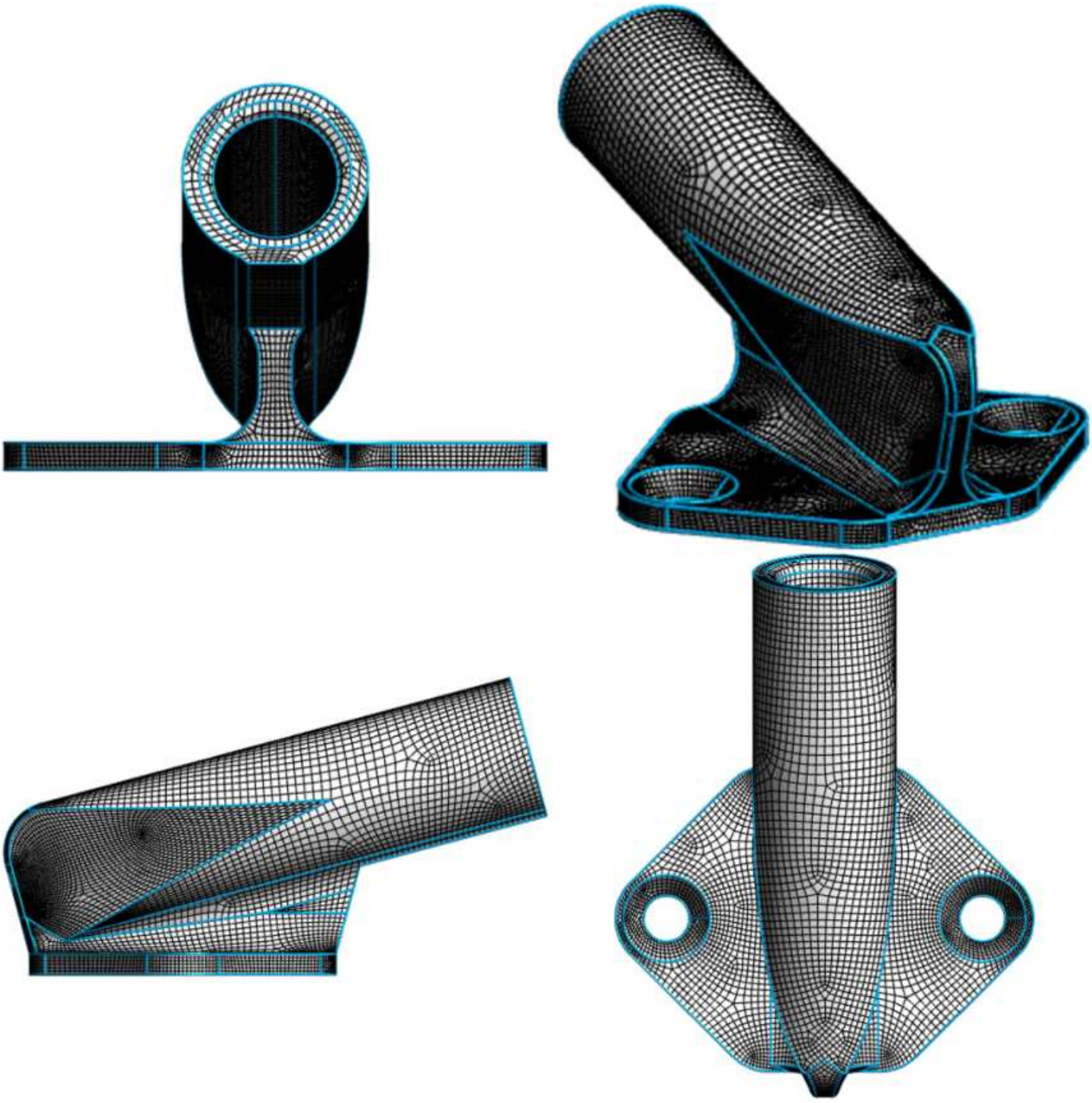


Model: 00003348 (from ABC dataset)
CAD: 72 corners, 109 curves, 40 faces
Cross field: 45 singularities detected
Timings: 17.0922 sec to generate the unstructured mesh, 12.7078 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22010	24303	1096	135
Quasi-structured	24467	26760	276	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00801433	0.470566	2.46981	0.00104719	0.93169	0.976859
Quasi-structured	0.00543279	0.451539	1.8148	0.0116866	0.925355	0.977439

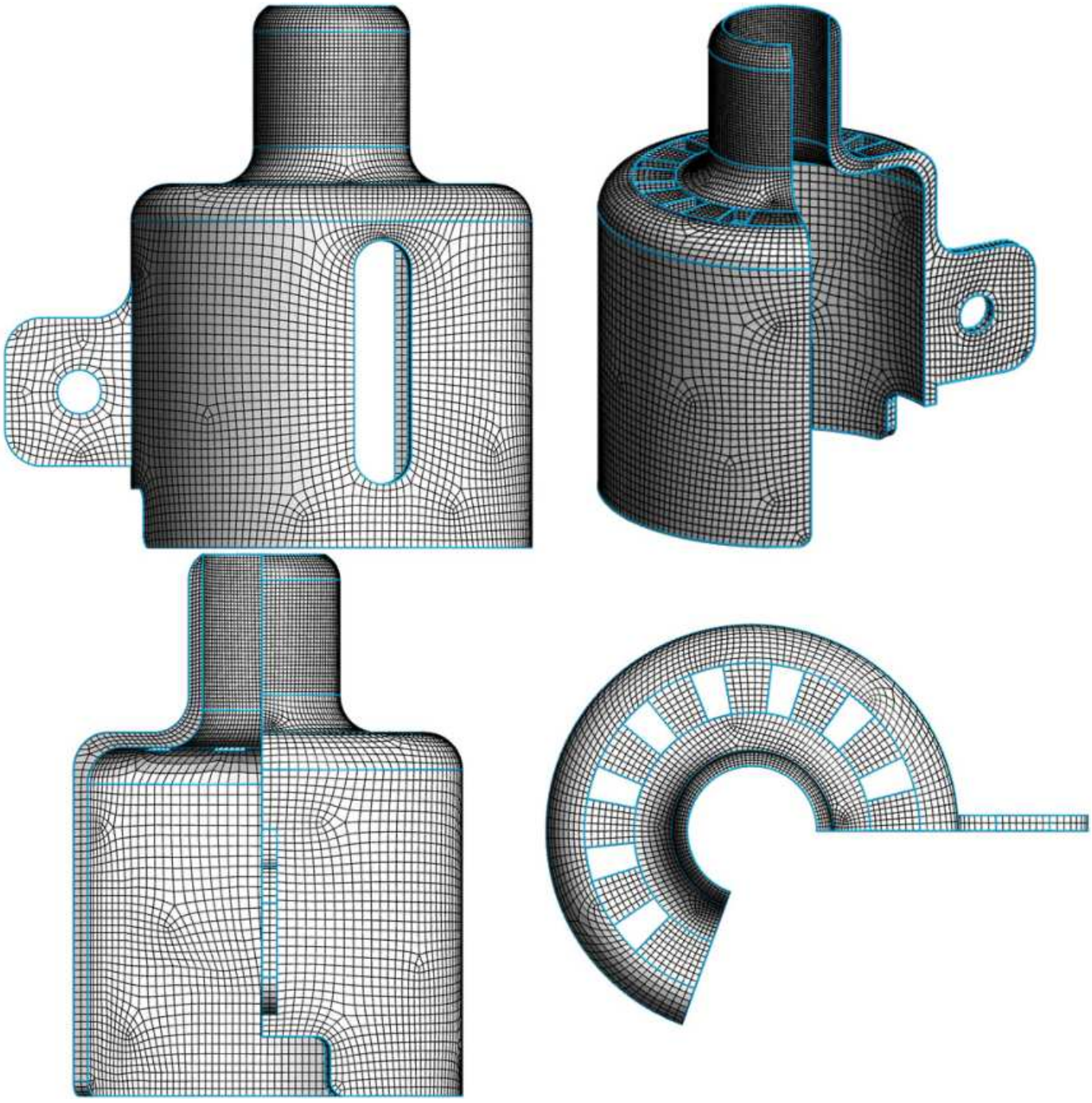


Model: 00003352 (from ABC dataset)
CAD: 138 corners, 223 curves, 71 faces
Cross field: 29 singularities detected
Timings: 20.9343 sec to generate the unstructured mesh, 8.57371 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19330	21758	612	35
Quasi-structured	19593	22021	151	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0779219	0.854014	2.32048	0.101797	0.943535	0.982962
Quasi-structured	0.111828	0.845367	3.26972	0.194786	0.962891	0.988157

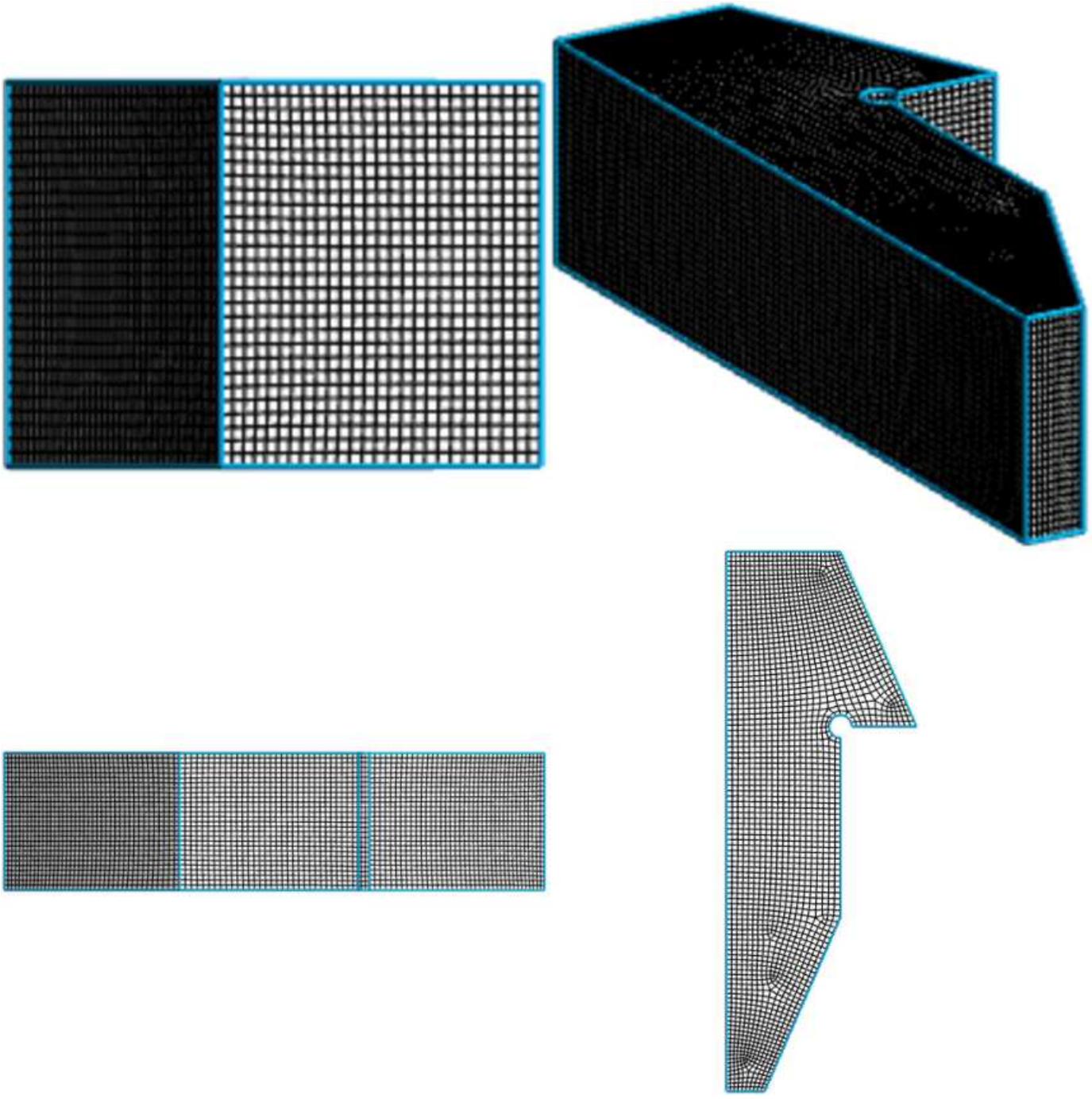


Model: 00003371 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 6 singularities detected
Timings: 5.78593 sec to generate the unstructured mesh, 1.1889 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12320	13110	76	1
Quasi-structured	12241	13031	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.21985	0.658711	1.18542	0.569825	0.988261	0.99599
Quasi-structured	0.276757	0.660334	1.26129	0.750742	0.991895	0.995499

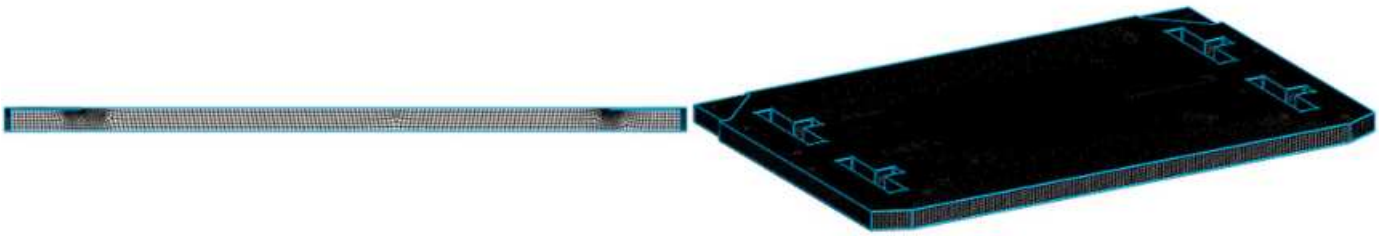


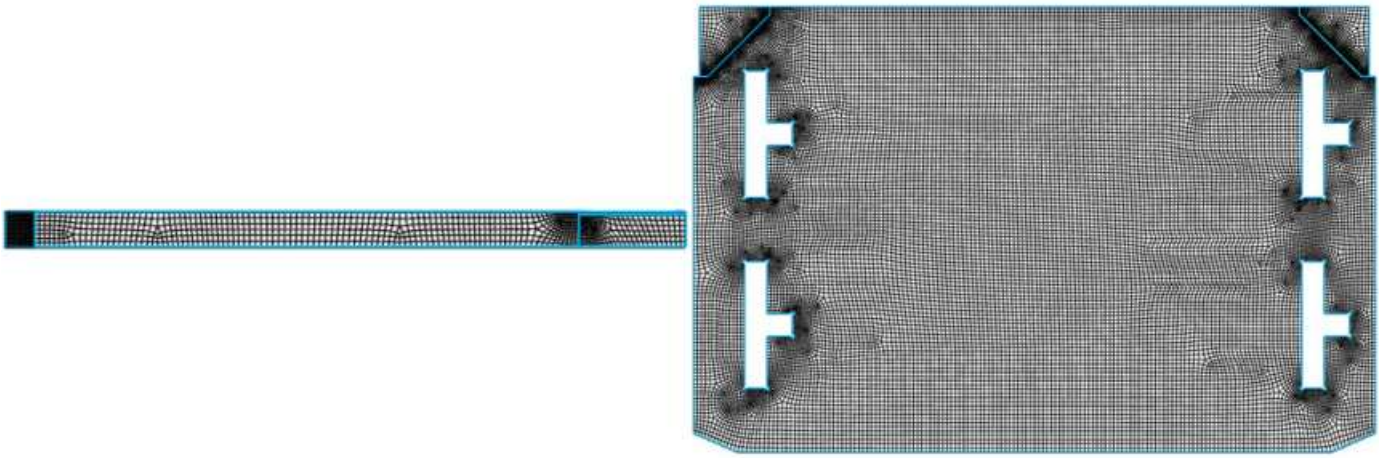
Model: 00003372 (from ABC dataset)
CAD: 144 corners, 216 curves, 74 faces
Cross field: 162 singularities detected
Timings: 51.9336 sec to generate the unstructured mesh, 259.917 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	63454	67674	2028	96
Quasi-structured	62902	67122	632	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.284757	2.39996	5.1811	0.000183224	0.942576	0.985646
Quasi-structured	0.219568	2.41083	5.88655	0.100384	0.960674	0.984861



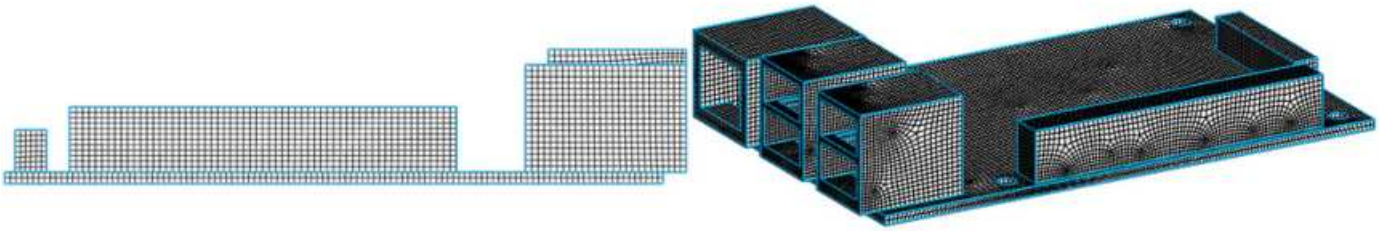


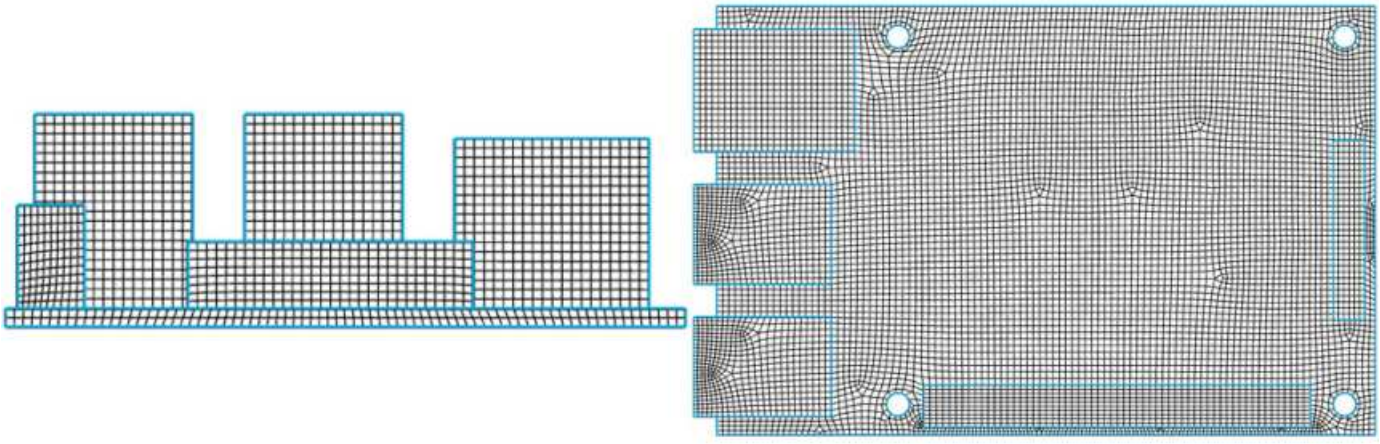
Model: 00003402 (from ABC dataset)
CAD: 146 corners, 222 curves, 81 faces
Cross field: 32 singularities detected
Timings: 13.398 sec to generate the unstructured mesh, 14.5164 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	33246	37476	572	30
Quasi-structured	33744	37974	238	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.216775	0.7175	1.90497	0.200202	0.964479	0.989741
Quasi-structured	0.170041	0.710654	1.96953	0.219175	0.973805	0.992176



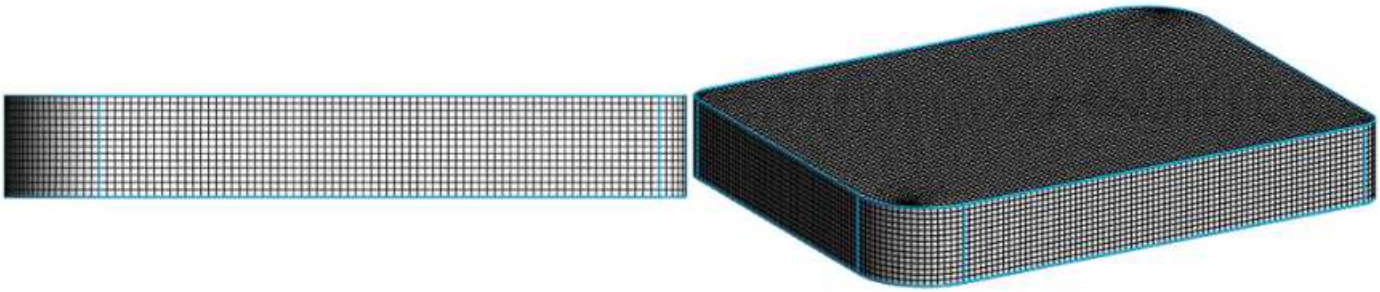


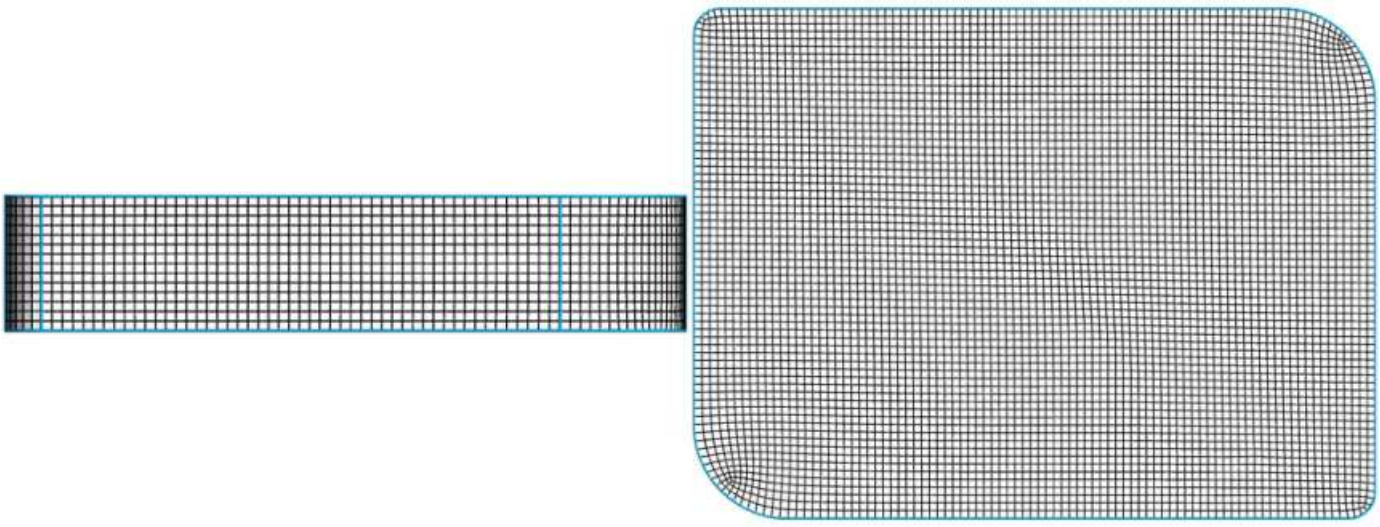
Model: 00003407 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 9.20305 sec to generate the unstructured mesh, 1.35185 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15730	16440	36	0
Quasi-structured	15702	16412	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0806354	0.22755	0.356107	0.598704	0.99369	0.999889
Quasi-structured	0.094914	0.227612	0.278675	0.842405	0.998024	0.999467



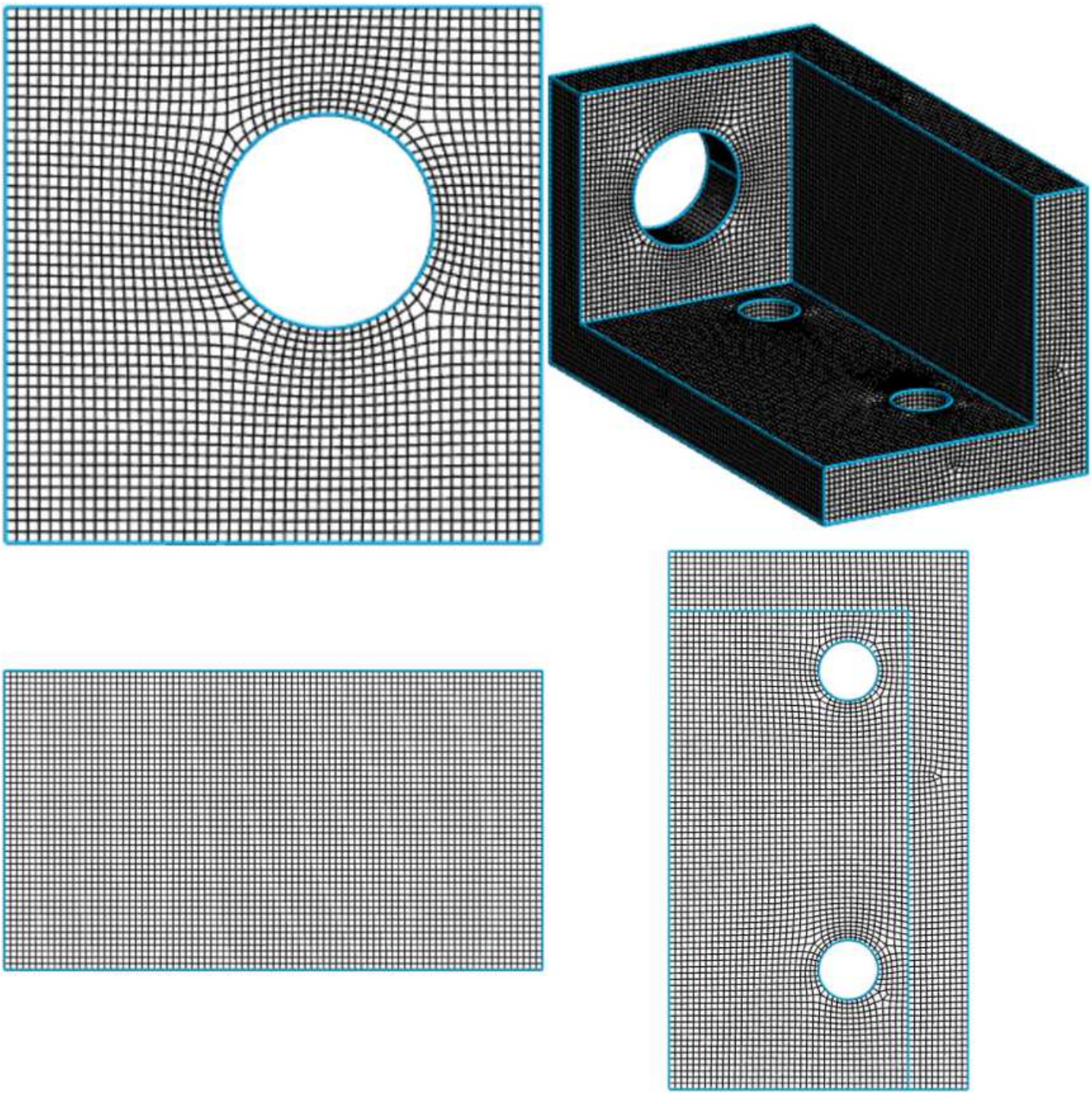


Model: 00003419 (from ABC dataset)
CAD: 21 corners, 31 curves, 12 faces
Cross field: 24 singularities detected
Timings: 10.961 sec to generate the unstructured mesh, 1.38503 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22492	23837	202	39
Quasi-structured	22728	24073	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0728944	0.203684	0.381588	0.573109	0.987337	0.999691
Quasi-structured	0.102114	0.202284	0.360672	0.719249	0.995691	0.999356



Model: 00003423 (from ABC dataset)
CAD: 144 corners, 220 curves, 83 faces
Cross field: 22 singularities detected
Timings: 8.74553 sec to generate the unstructured mesh, 89.6166 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40792	47648	2217	97
Quasi-structured	43884	50740	698	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000738771	0.290096	1.00407	0.00224805	0.898985	0.956845
Quasi-structured	0.000951311	0.284934	1.25904	0.00224805	0.896275	0.958894



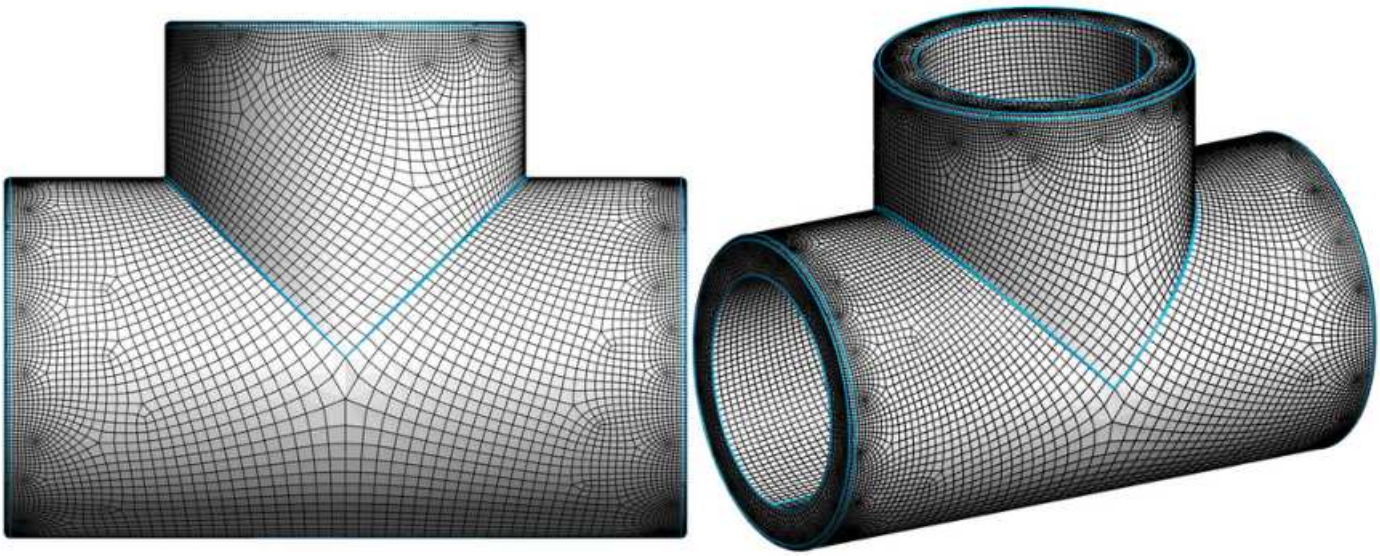


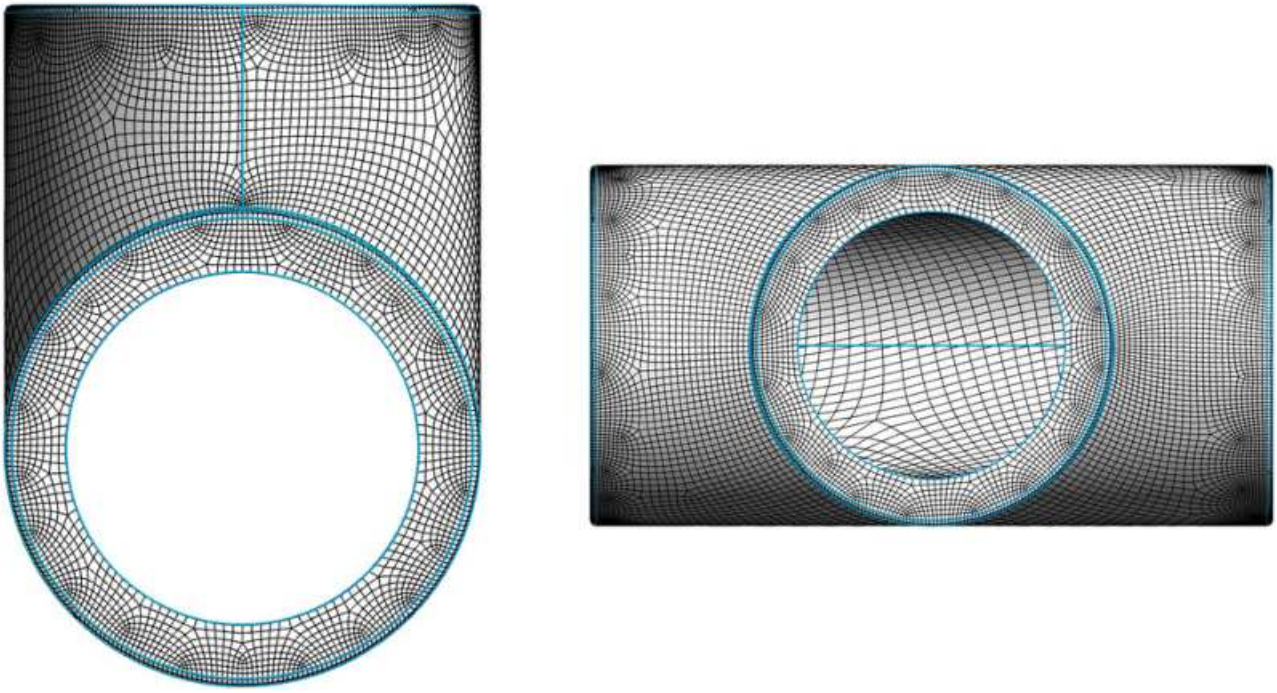
Model: 00003424 (from ABC dataset)
CAD: 15 corners, 34 curves, 14 faces
Cross field: 16 singularities detected
Timings: 22.4547 sec to generate the unstructured mesh, 72.5358 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36250	39036	1242	273
Quasi-structured	35824	38610	400	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.039876	1.19447	5.03604	0.0150336	0.945475	0.990544
Quasi-structured	0.0272956	1.19717	6.89761	0.0150336	0.962807	0.987813



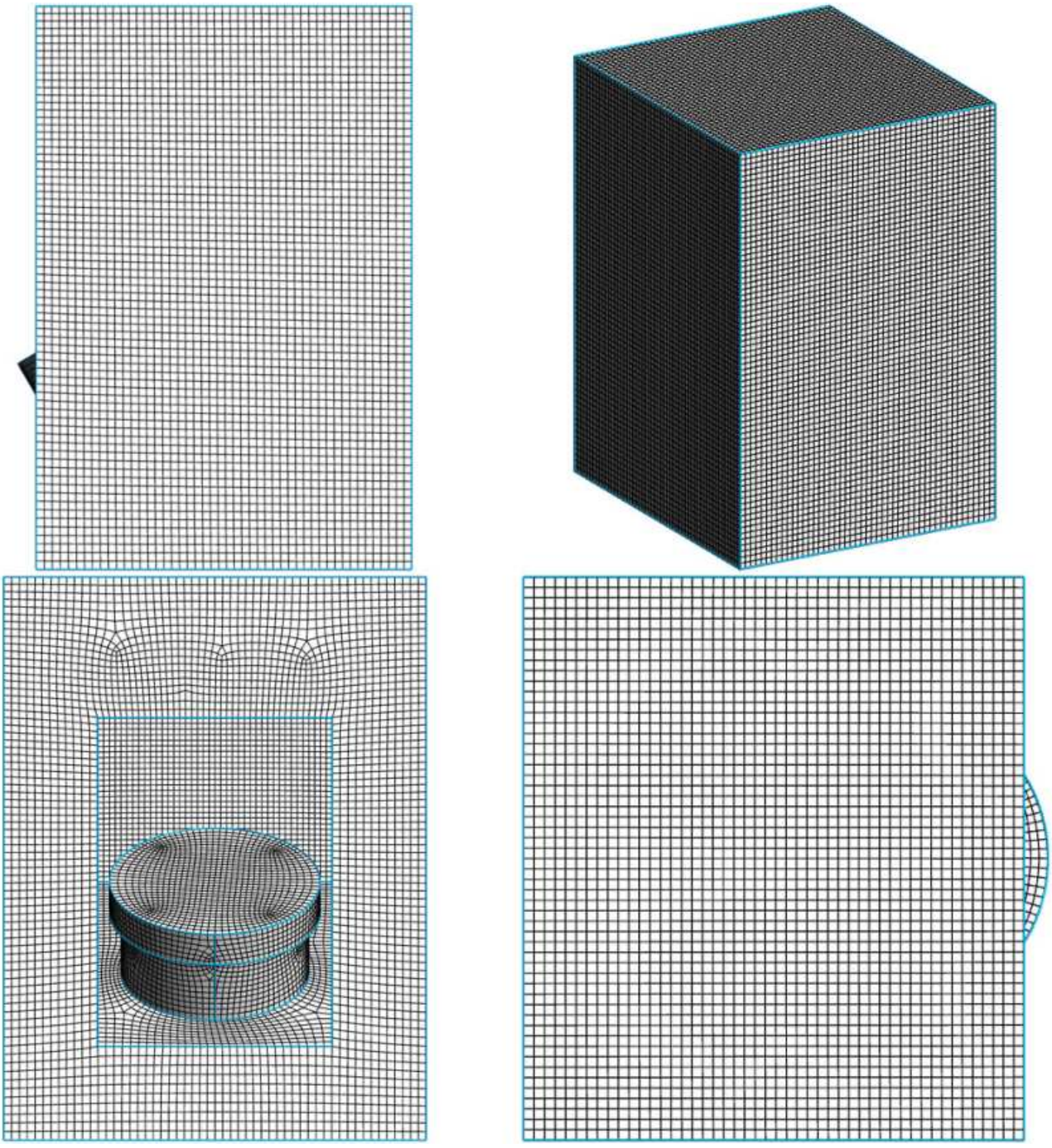


Model: 00003428 (from ABC dataset)
CAD: 20 corners, 30 curves, 15 faces
Cross field: 8 singularities detected
Timings: 24.5402 sec to generate the unstructured mesh, 2.93941 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29504	31122	172	19
Quasi-structured	29580	31198	56	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.04298	0.152671	0.286506	0.568211	0.991371	0.999198
Quasi-structured	0.049843	0.152358	0.363211	0.746447	0.994063	0.999171

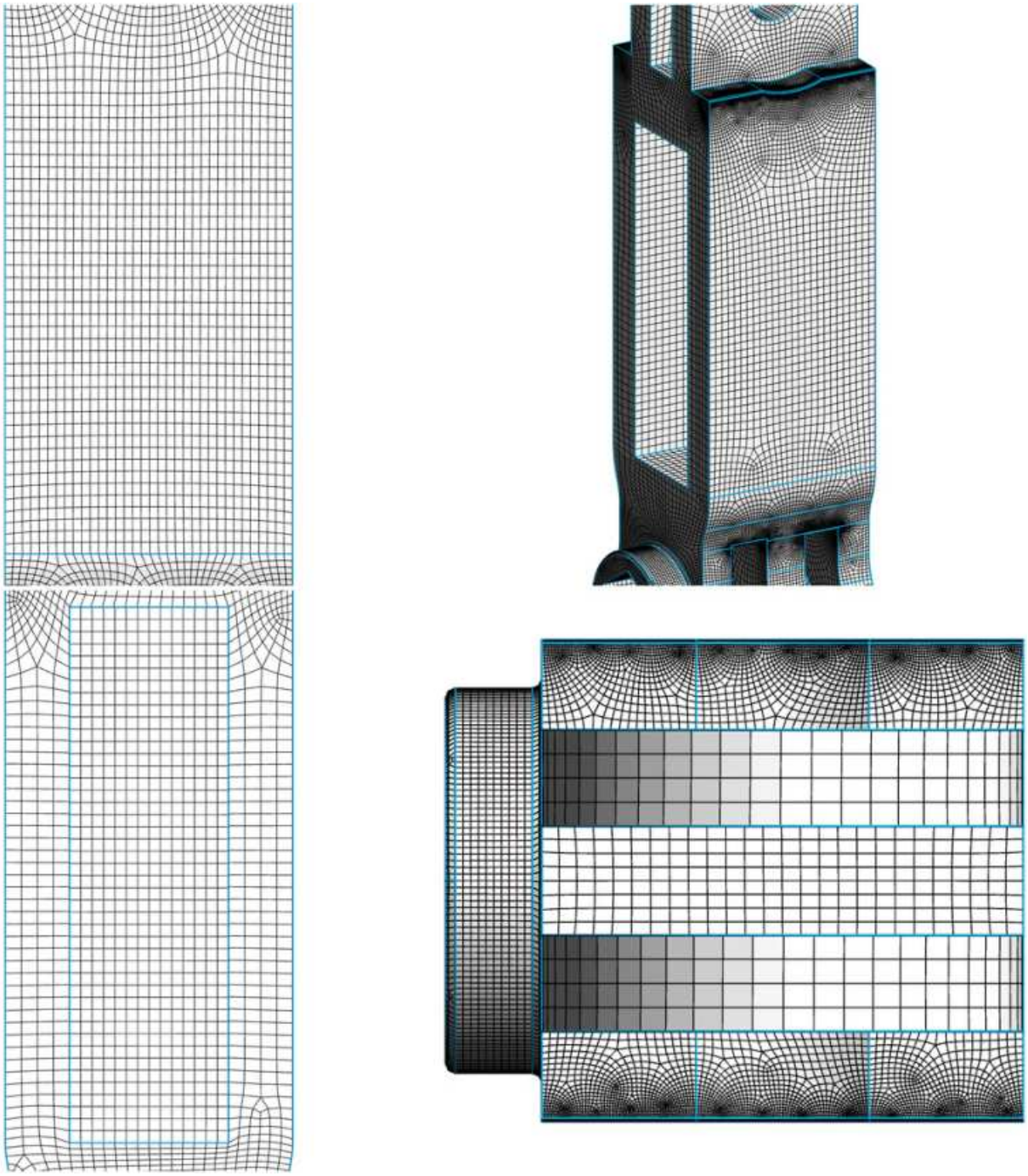


Model: 00003456 (from ABC dataset)
CAD: 137 corners, 209 curves, 78 faces
Cross field: 34 singularities detected
Timings: 11.0264 sec to generate the unstructured mesh, 104.848 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	60104	66412	2821	154
Quasi-structured	60600	66908	831	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00203558	0.246796	1.04888	0.00368933	0.870471	0.956632
Quasi-structured	0.00203558	0.24821	1.30597	0.0589778	0.886833	0.961682

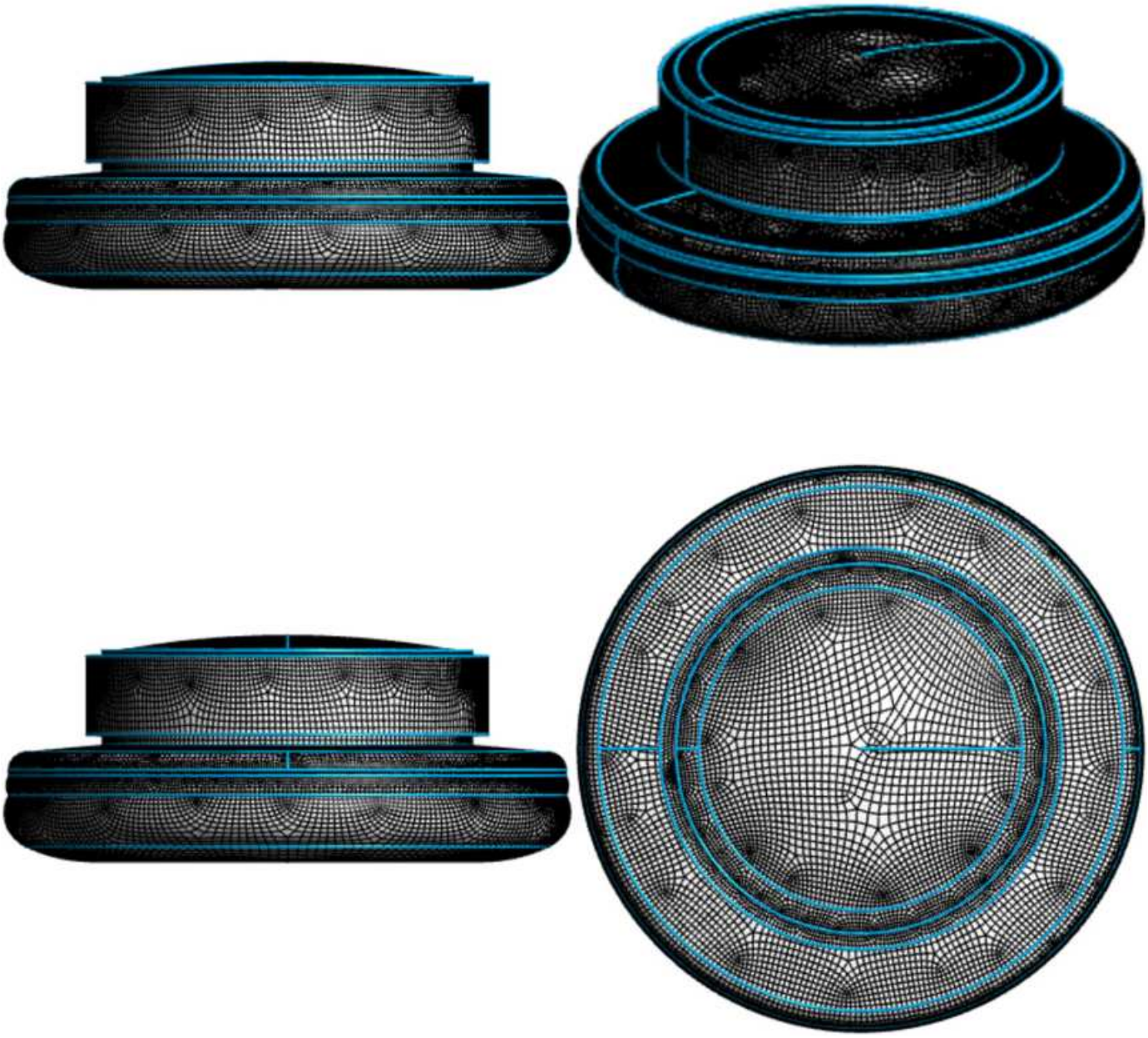


Model: 00003509 (from ABC dataset)
CAD: 18 corners, 30 curves, 15 faces
Cross field: 8 singularities detected
Timings: 9.29489 sec to generate the unstructured mesh, 155.724 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29658	33958	1531	160
Quasi-structured	29706	34006	775	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.162982	0.73961	3.2808	0.0596056	0.914677	0.983678
Quasi-structured	0.160005	0.731892	2.95923	0.464984	0.962501	0.98364

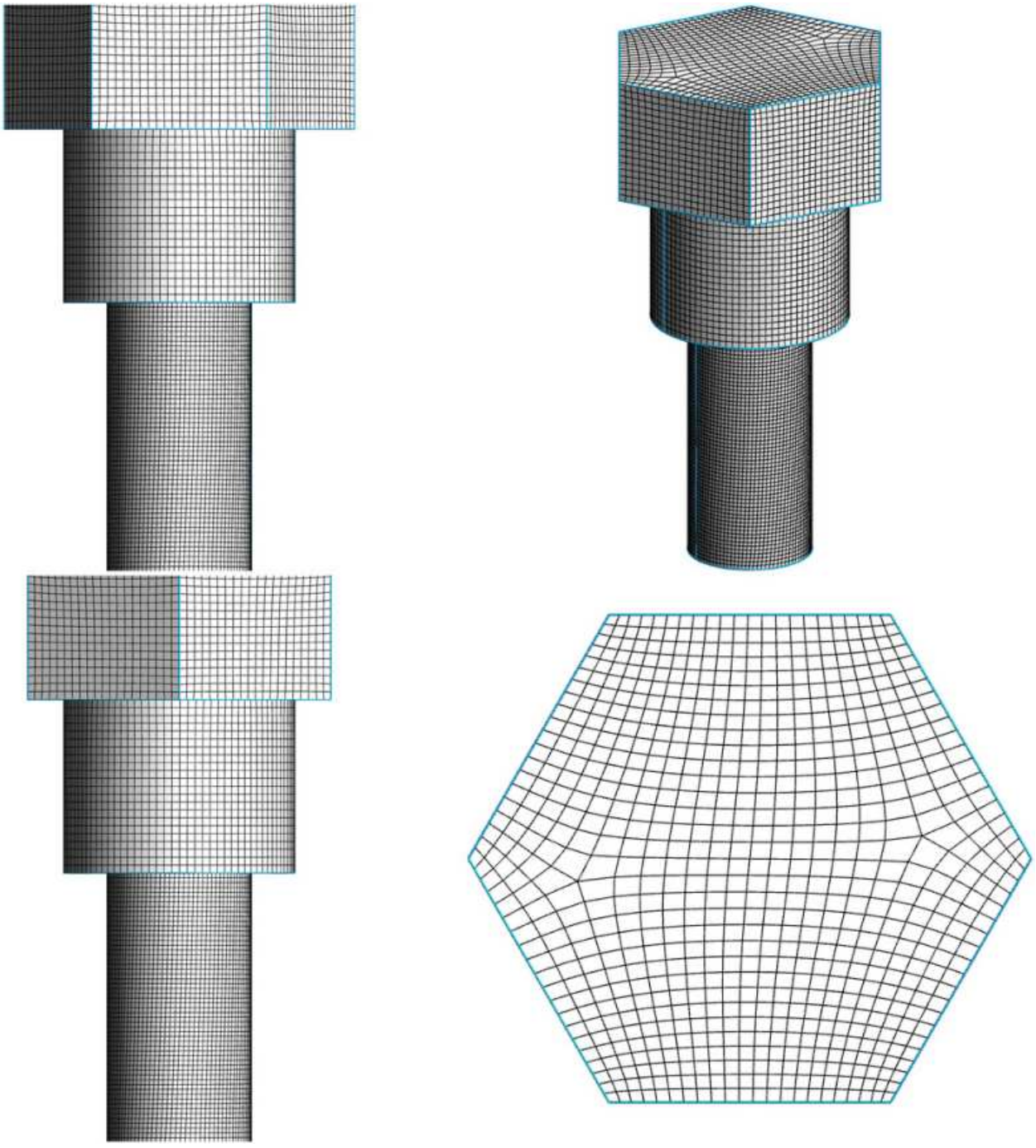


Model: 00003531 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 12 singularities detected
Timings: 9.83015 sec to generate the unstructured mesh, 0.933303 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12656	13396	128	80
Quasi-structured	12672	13412	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.106253	0.446909	1.25587	0.501822	0.983014	0.997552
Quasi-structured	0.125425	0.444413	1.60564	0.737629	0.993326	0.999236

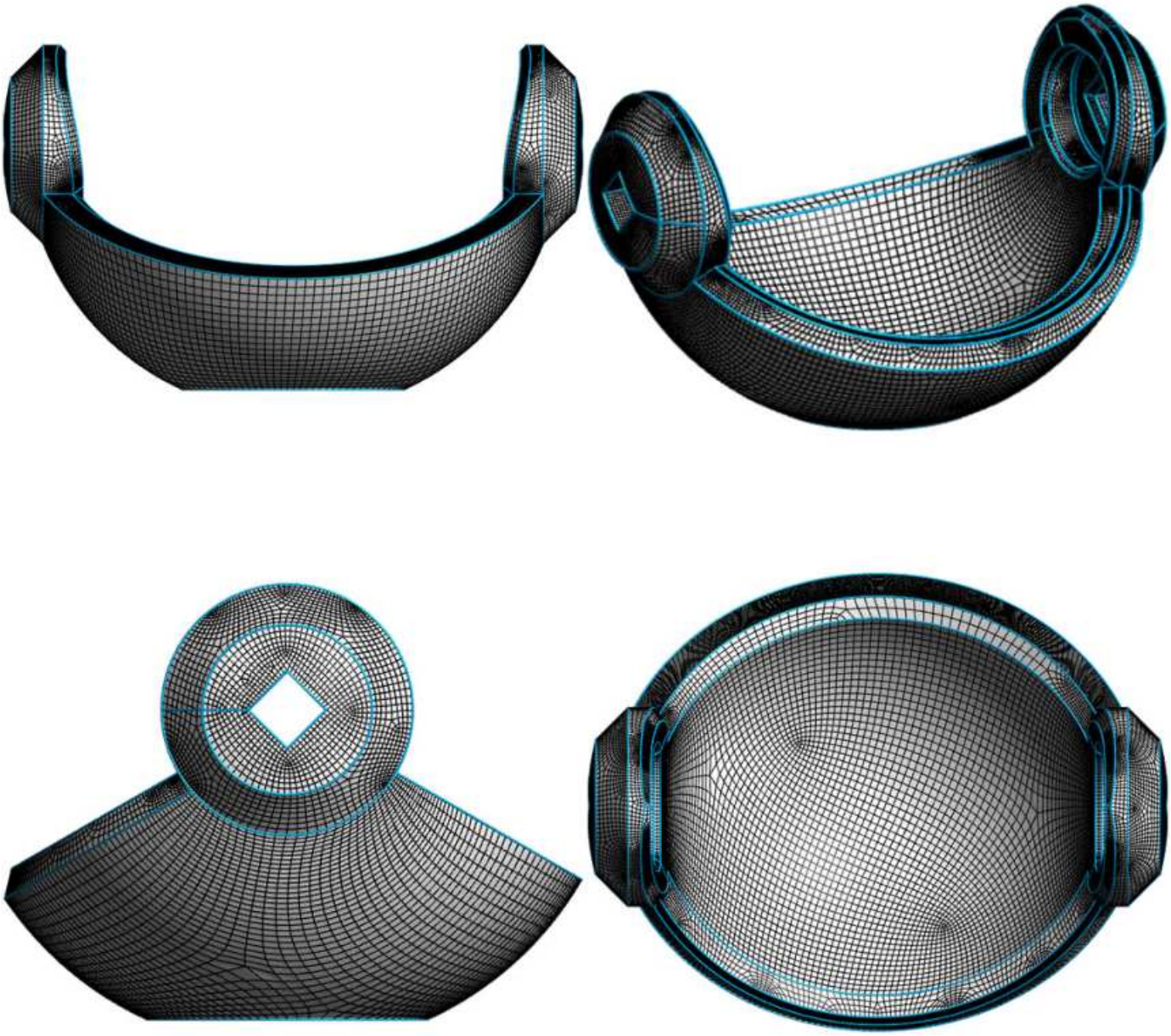


Model: 00003551 (from ABC dataset)
CAD: 93 corners, 152 curves, 60 faces
Cross field: 30 singularities detected
Timings: 15.3419 sec to generate the unstructured mesh, 72.5304 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	43748	48603	2456	179
Quasi-structured	44156	49011	627	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00364511	0.479319	3.64341	0.00167148	0.87942	0.959817
Quasi-structured	0.00361963	0.489149	4.10411	0.0448879	0.881548	0.959026

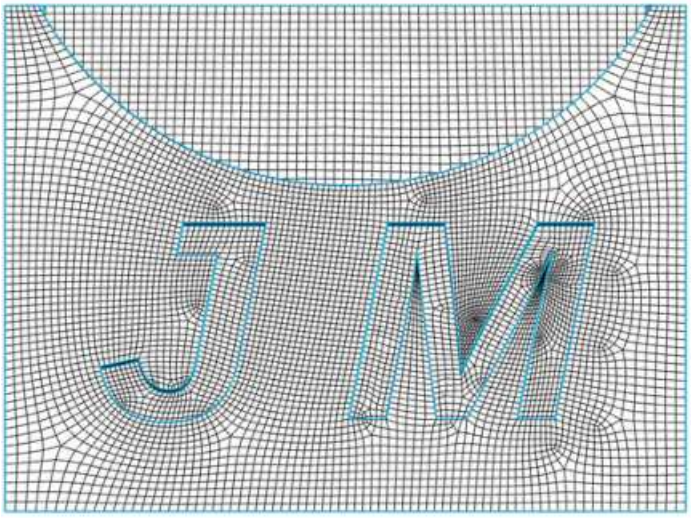


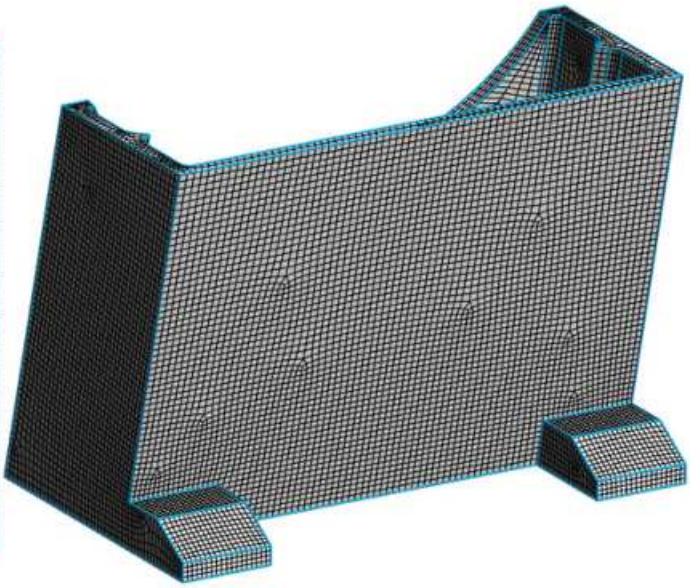
Model: 00003553 (from ABC dataset)
CAD: 138 corners, 208 curves, 73 faces
Cross field: 25 singularities detected
Timings: 16.9738 sec to generate the unstructured mesh, 7.6356 sec to make it quasi-structured
Mesh topology:

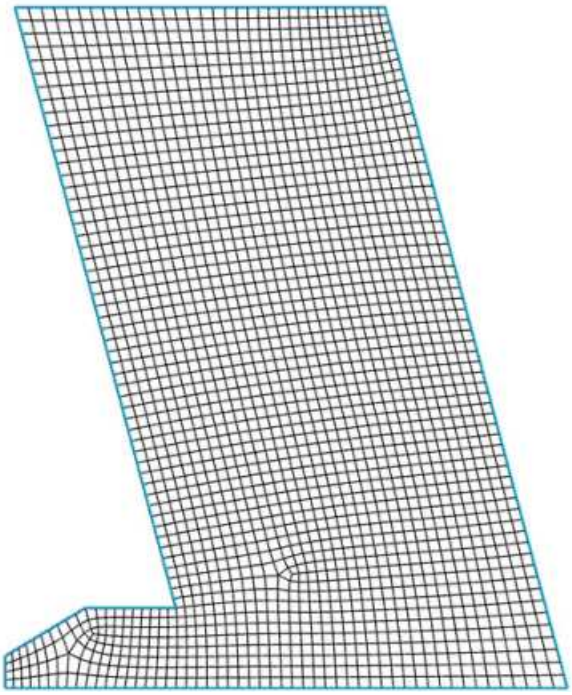
	# quads	# vertices	# irregular	# very irregular
Unstructured	32932	36744	563	8
Quasi-structured	33573	37385	193	0

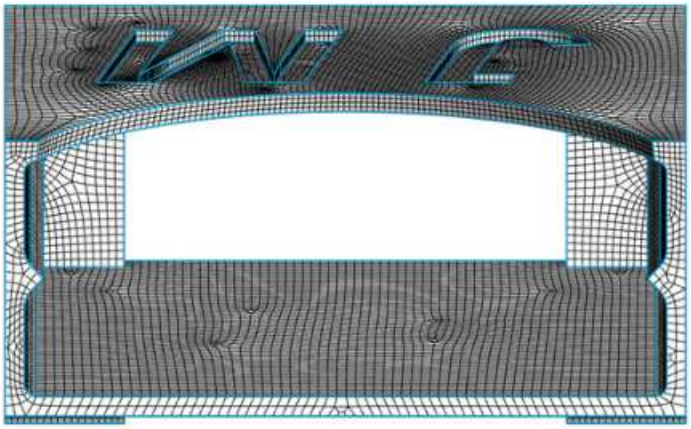
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0573454	0.652275	1.24333	0.125725	0.964078	0.993841
Quasi-structured	0.0286245	0.644269	2.35784	0.184113	0.969054	0.994762







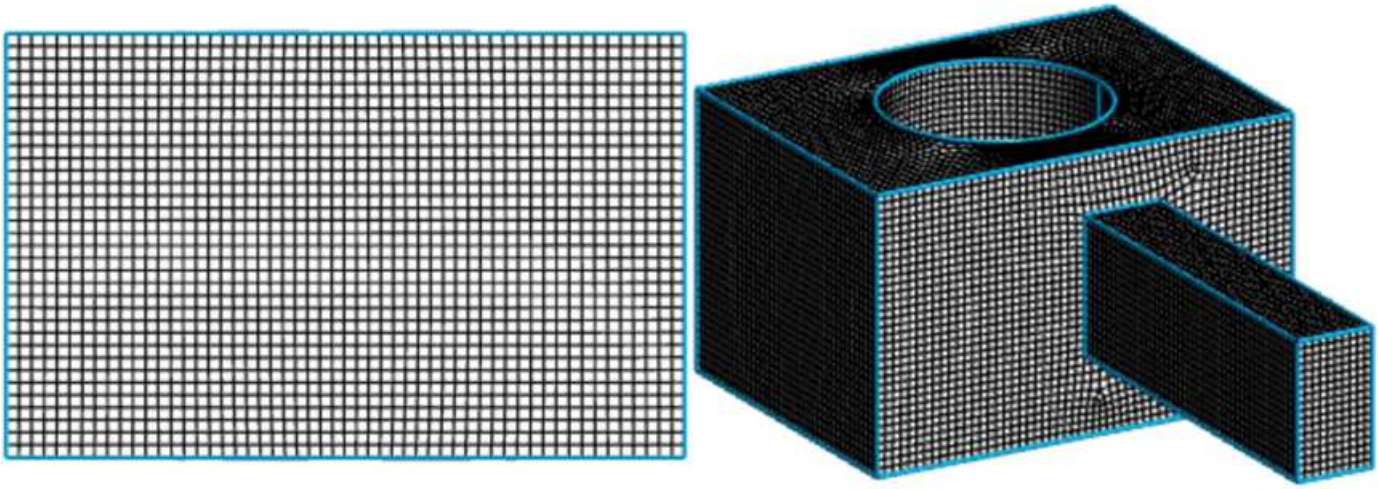


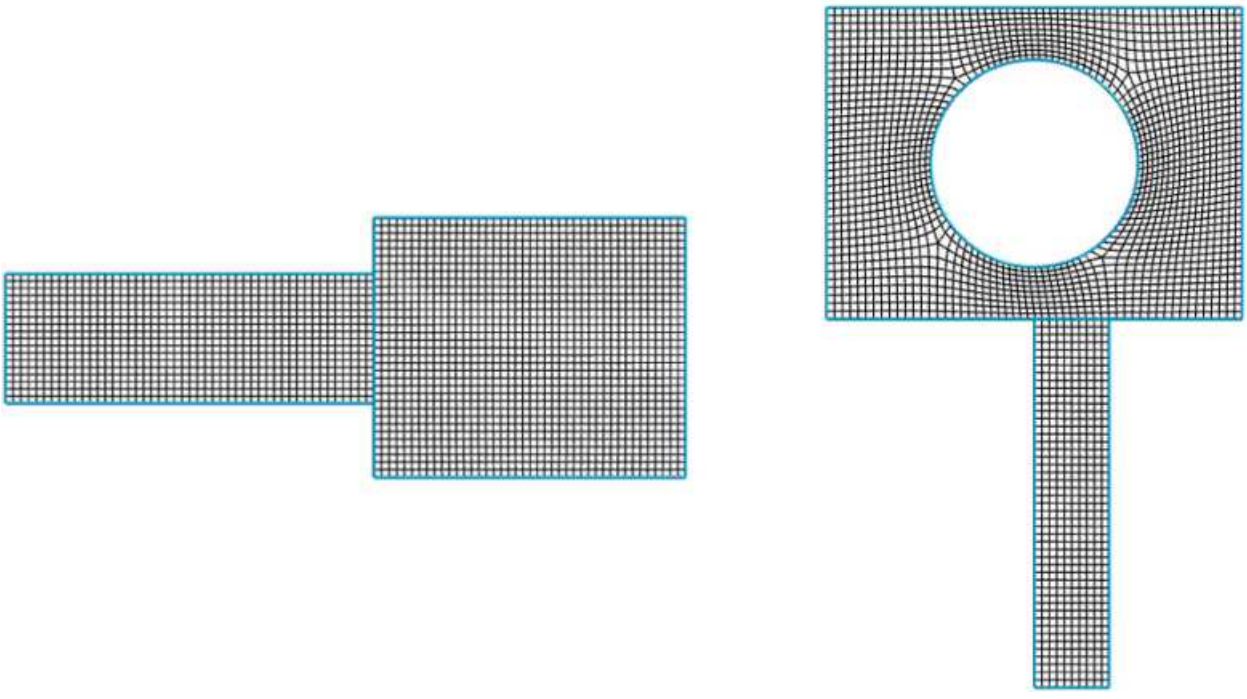
Model: 00003558 (from ABC dataset)
CAD: 18 corners, 27 curves, 12 faces
Cross field: 8 singularities detected
Timings: 7.94712 sec to generate the unstructured mesh, 1.05711 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16142	17162	136	41
Quasi-structured	16366	17386	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.02298	3.62901	7.01867	0.473806	0.988331	0.99884
Quasi-structured	2.23183	3.60126	7.53447	0.673714	0.993704	0.999343





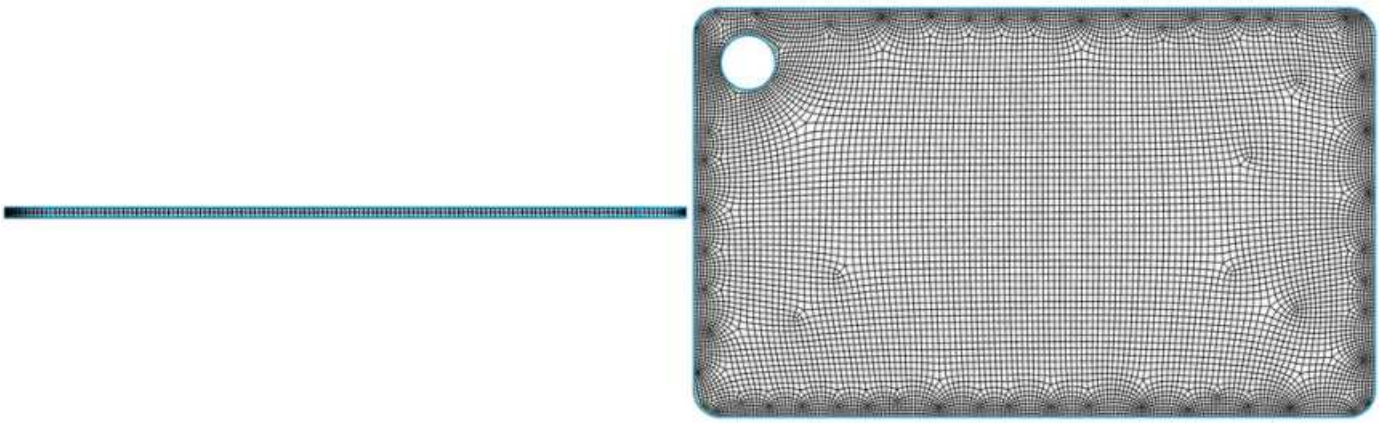
Model: 00003560 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 16 singularities detected
Timings: 10.2314 sec to generate the unstructured mesh, 48.349 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25694	27414	782	77
Quasi-structured	25216	26936	244	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.215921	0.818345	1.81433	0.528404	0.9496	0.965314
Quasi-structured	0.19746	0.820753	2.22739	0.479791	0.979255	0.985758



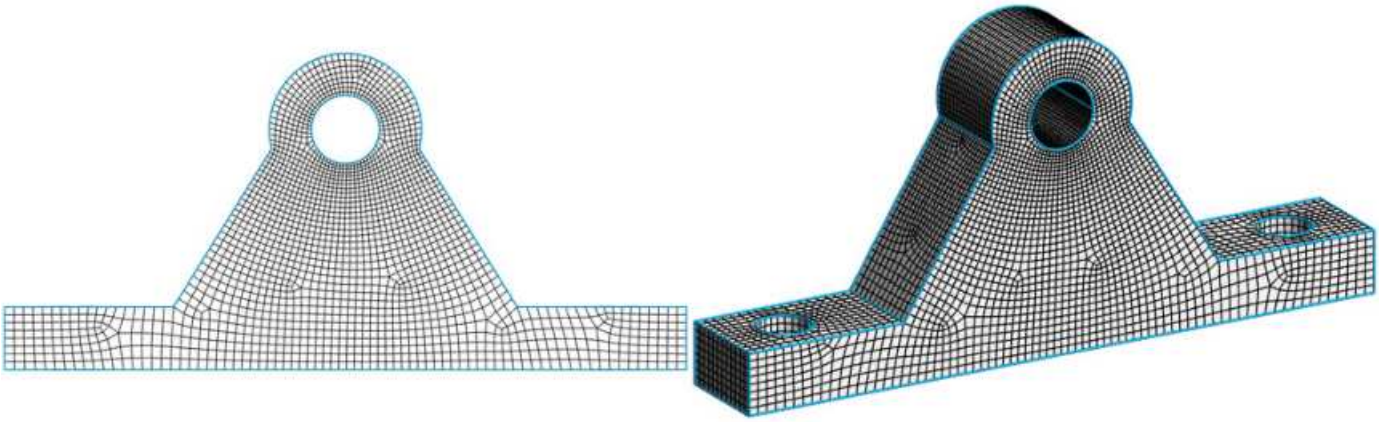


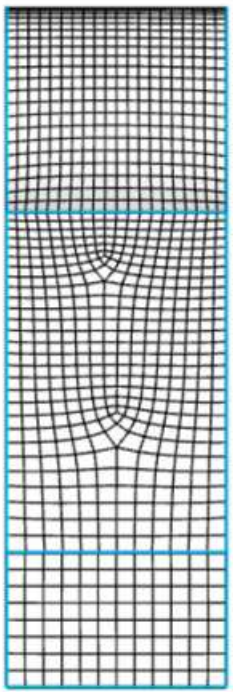
Model: 00003562 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 20 singularities detected
Timings: 4.69796 sec to generate the unstructured mesh, 1.40436 sec to make it quasi-structured
Mesh topology:

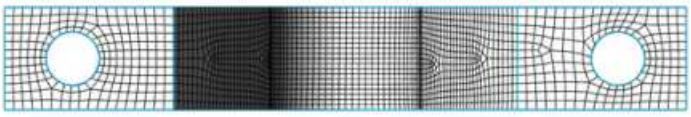
	# quads	# vertices	# irregular	# very irregular
Unstructured	8972	9760	195	50
Quasi-structured	9190	9978	56	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0607458	0.296796	0.748207	0.201139	0.972017	0.992995
Quasi-structured	0.126853	0.292422	0.790894	0.601949	0.985993	0.99539





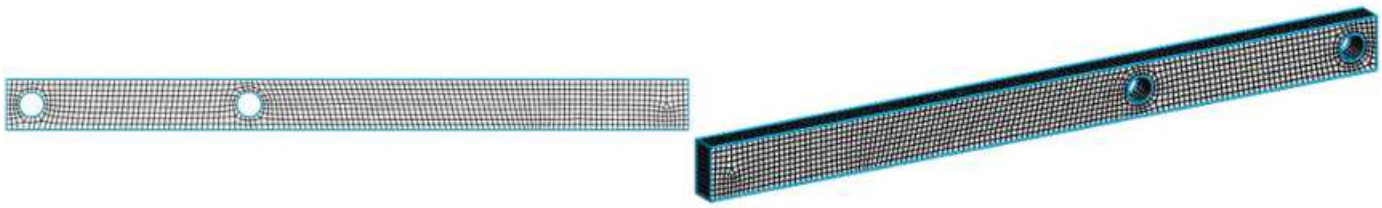


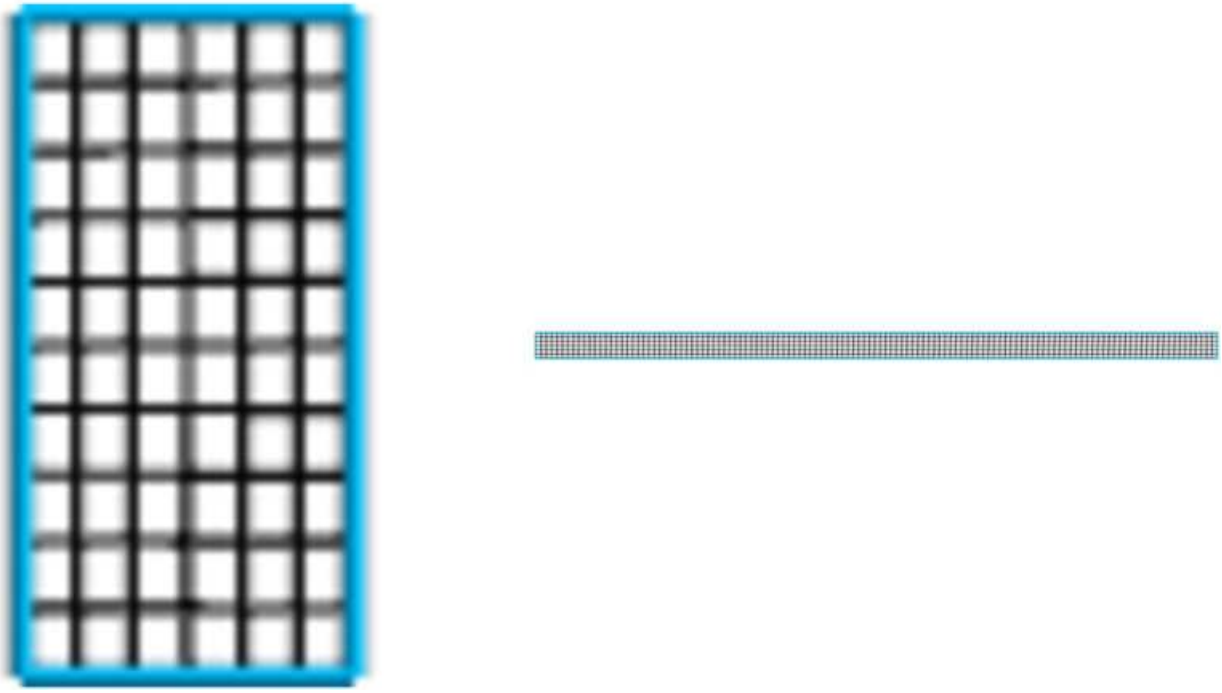
Model: 00003563 (from ABC dataset)
CAD: 18 corners, 26 curves, 12 faces
Cross field: 32 singularities detected
Timings: 1.99629 sec to generate the unstructured mesh, 1.06127 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	4366	5066	105	29
Quasi-structured	4344	5044	55	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.223528	0.947214	1.48521	0.287647	0.960461	0.978737
Quasi-structured	0.113852	0.94976	1.7518	0.169581	0.971049	0.982404



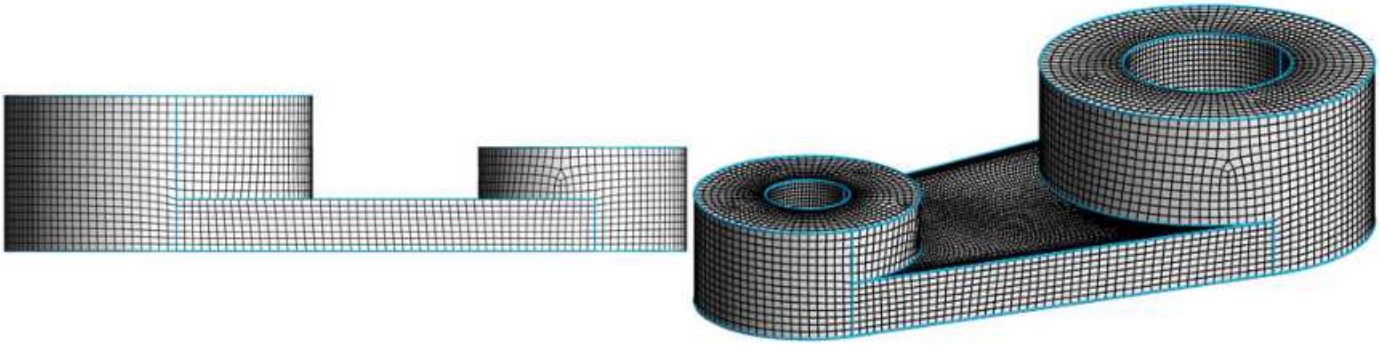


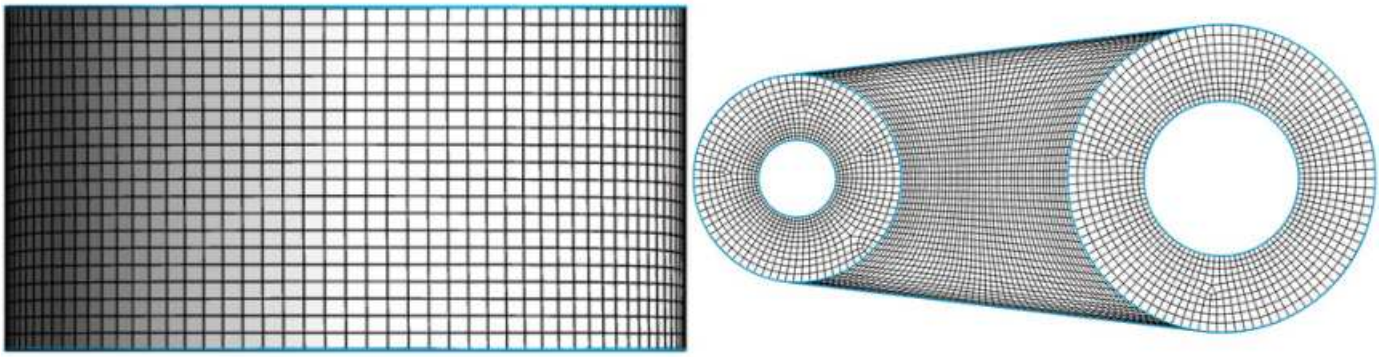
Model: 00003565 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 12 singularities detected
Timings: 6.41675 sec to generate the unstructured mesh, 6.5874 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14698	15626	110	78
Quasi-structured	15002	15930	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0284462	0.386784	0.913798	0.0548247	0.922029	0.991197
Quasi-structured	0.0284462	0.384529	0.895085	0.0548247	0.930514	0.991535



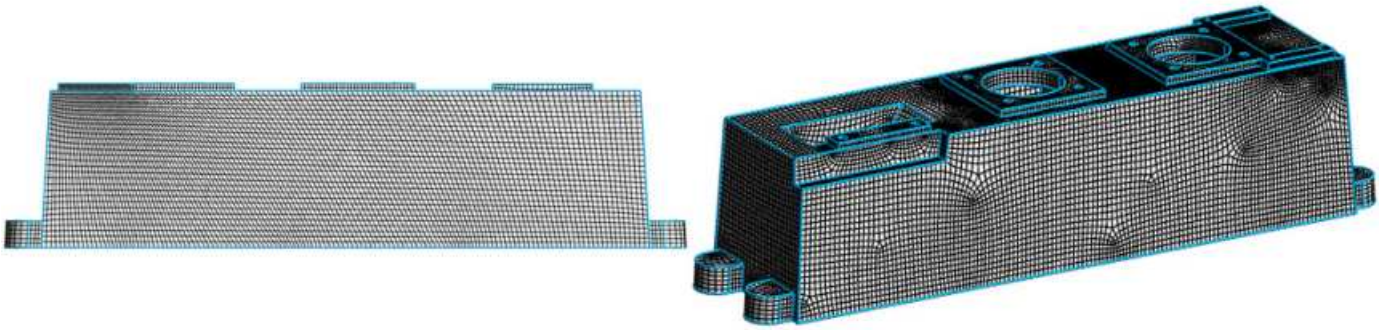


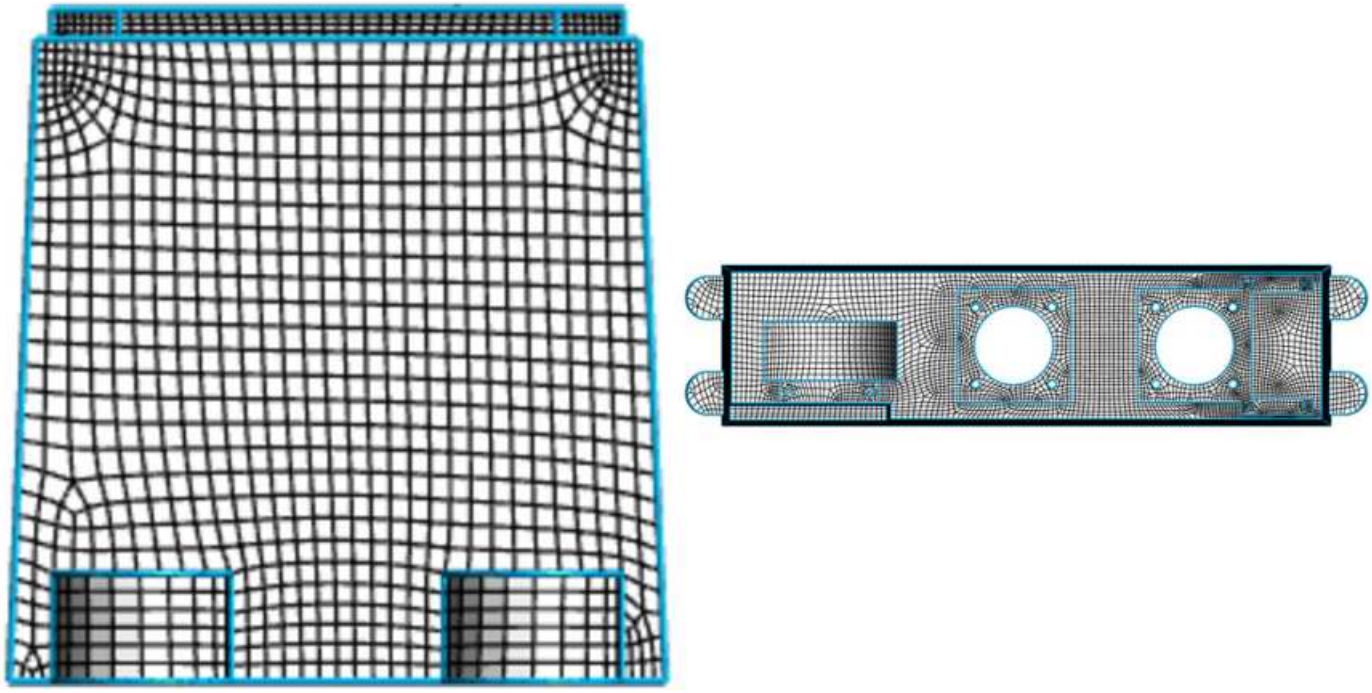
Model: 00003566 (from ABC dataset)
CAD: 167 corners, 253 curves, 100 faces
Cross field: 154 singularities detected
Timings: 12.6858 sec to generate the unstructured mesh, 45.3143 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36874	41479	1266	140
Quasi-structured	38788	43393	512	11

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.131794	2.1606	4.97417	0.0220827	0.913909	0.967038
Quasi-structured	0.127035	2.10879	8.22288	0.127573	0.920221	0.968711



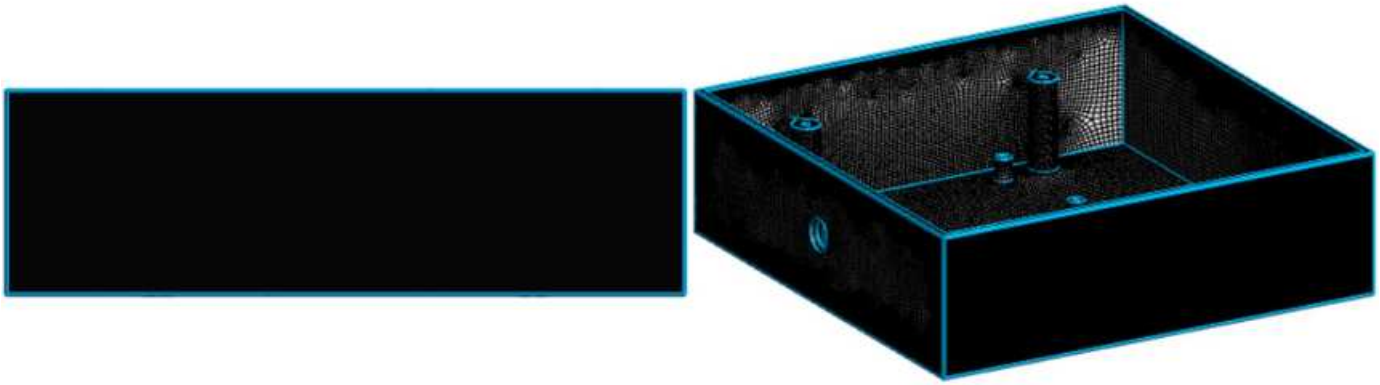


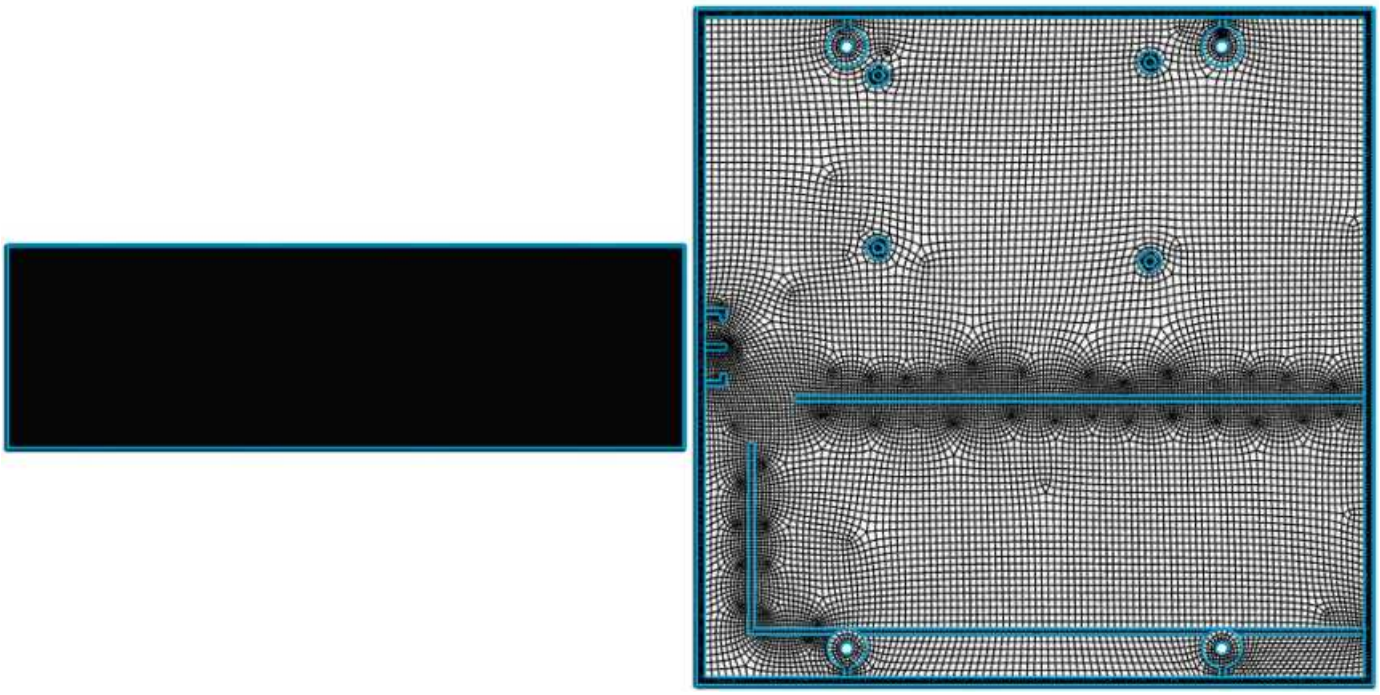
Model: 00003579 (from ABC dataset)
CAD: 166 corners, 271 curves, 112 faces
Cross field: 81 singularities detected
Timings: 47.8262 sec to generate the unstructured mesh, 482.347 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	324246	339190	5303	527
Quasi-structured	327634	342578	3098	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0965781	0.526469	2.82106	0.143159	0.971188	0.999953
Quasi-structured	0.0584283	0.526774	3.51636	0.125072	0.97862	0.999951



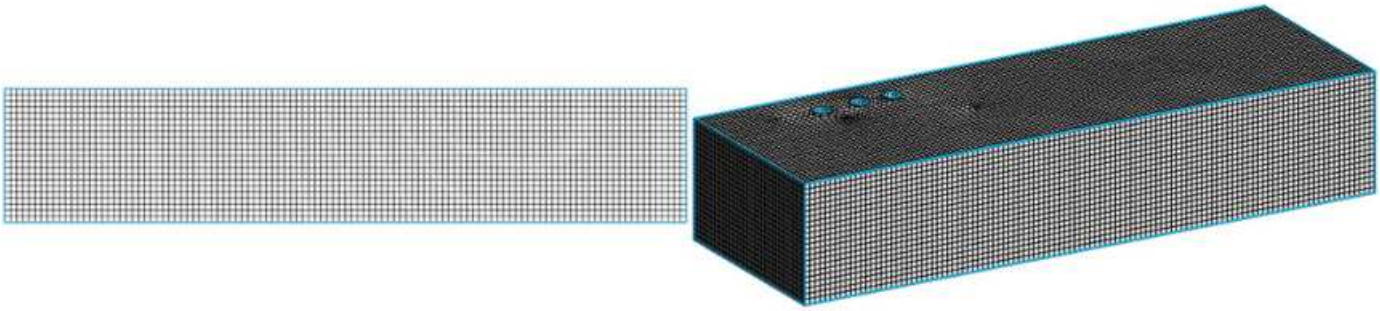


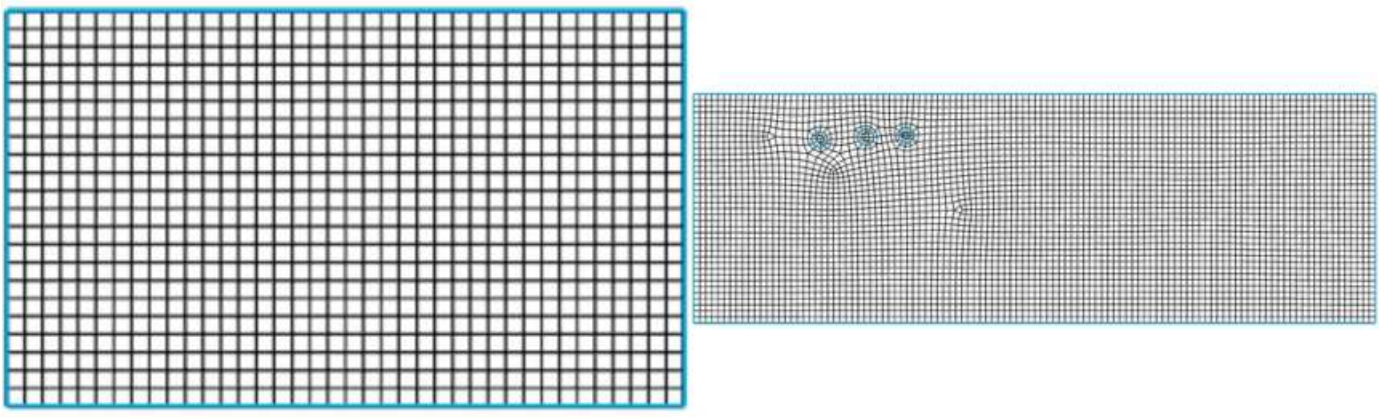
Model: 00003593 (from ABC dataset)
CAD: 14 corners, 21 curves, 12 faces
Cross field: 24 singularities detected
Timings: 9.42951 sec to generate the unstructured mesh, 1.065 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15766	16532	55	56
Quasi-structured	15787	16553	38	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.349177	1.12223	1.90066	0.482545	0.994358	0.999945
Quasi-structured	0.310232	1.12034	1.91169	0.697752	0.997552	0.999945



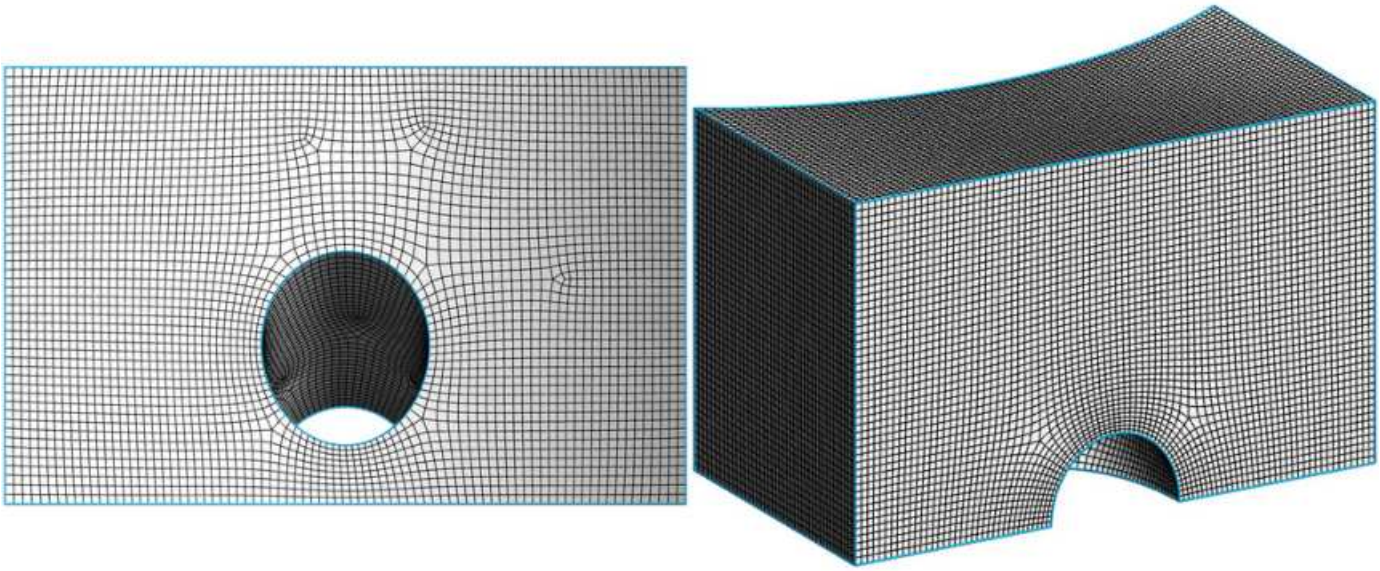


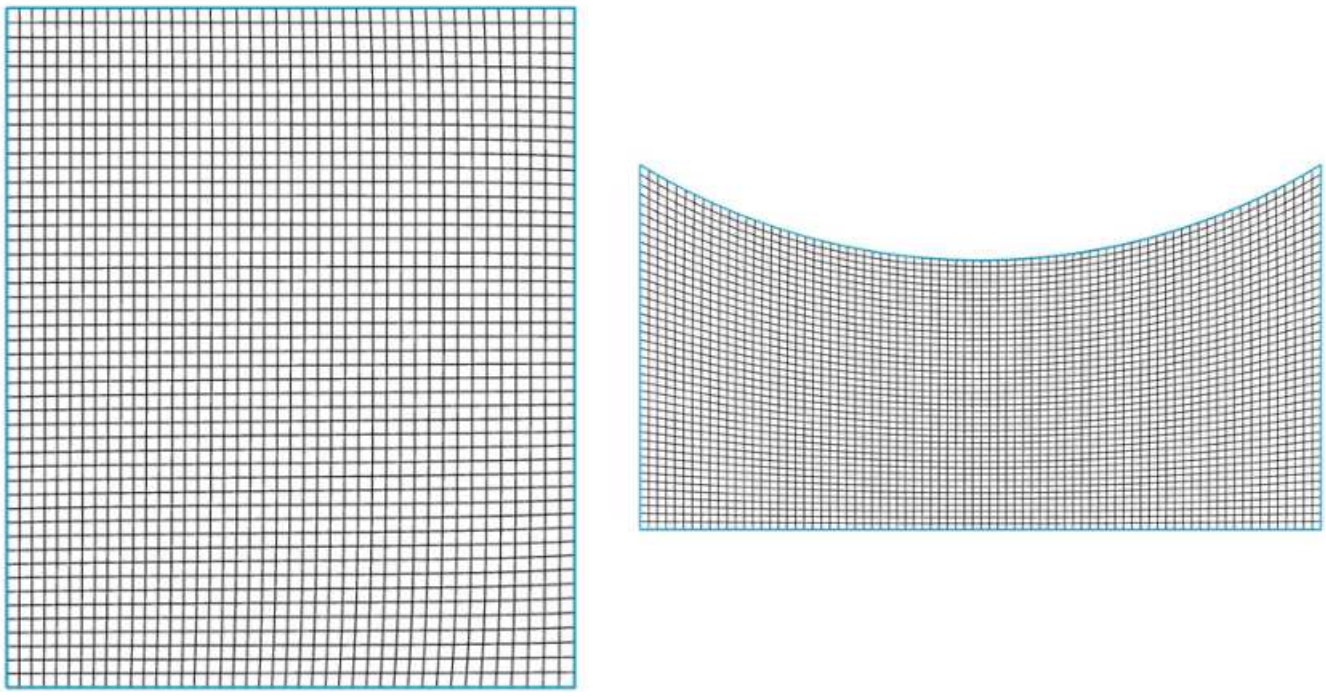
Model: 00003598 (from ABC dataset)
CAD: 12 corners, 18 curves, 7 faces
Cross field: 10 singularities detected
Timings: 11.0632 sec to generate the unstructured mesh, 2.15332 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20270	21127	173	19
Quasi-structured	20046	20903	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.524007	1.83659	4.44681	0.209922	0.977626	0.994178
Quasi-structured	0.694475	1.8431	3.7755	0.748674	0.988279	0.995874



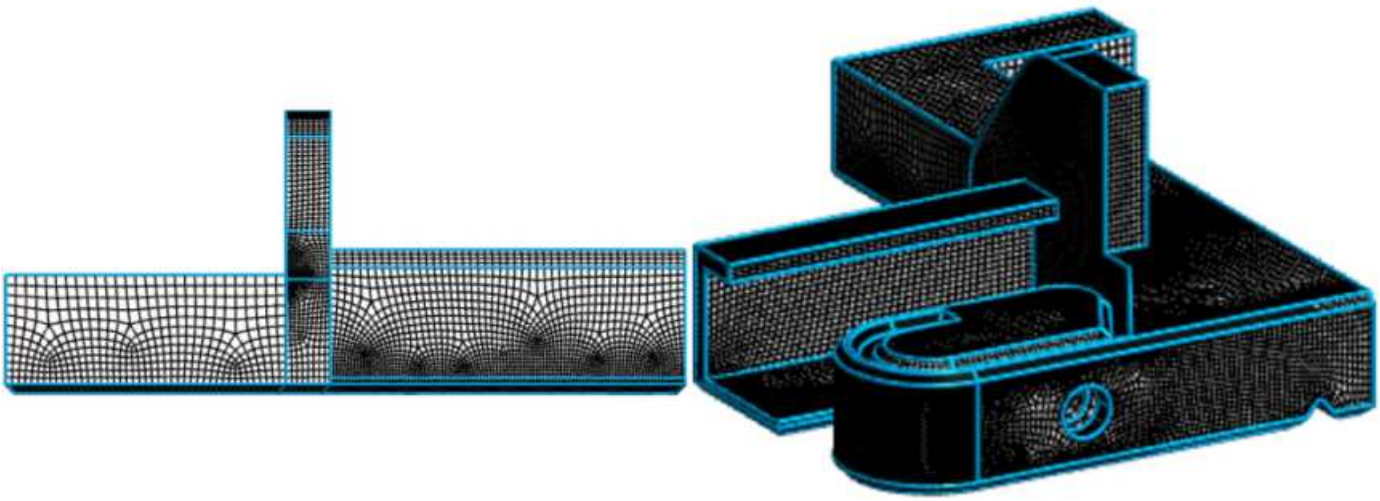


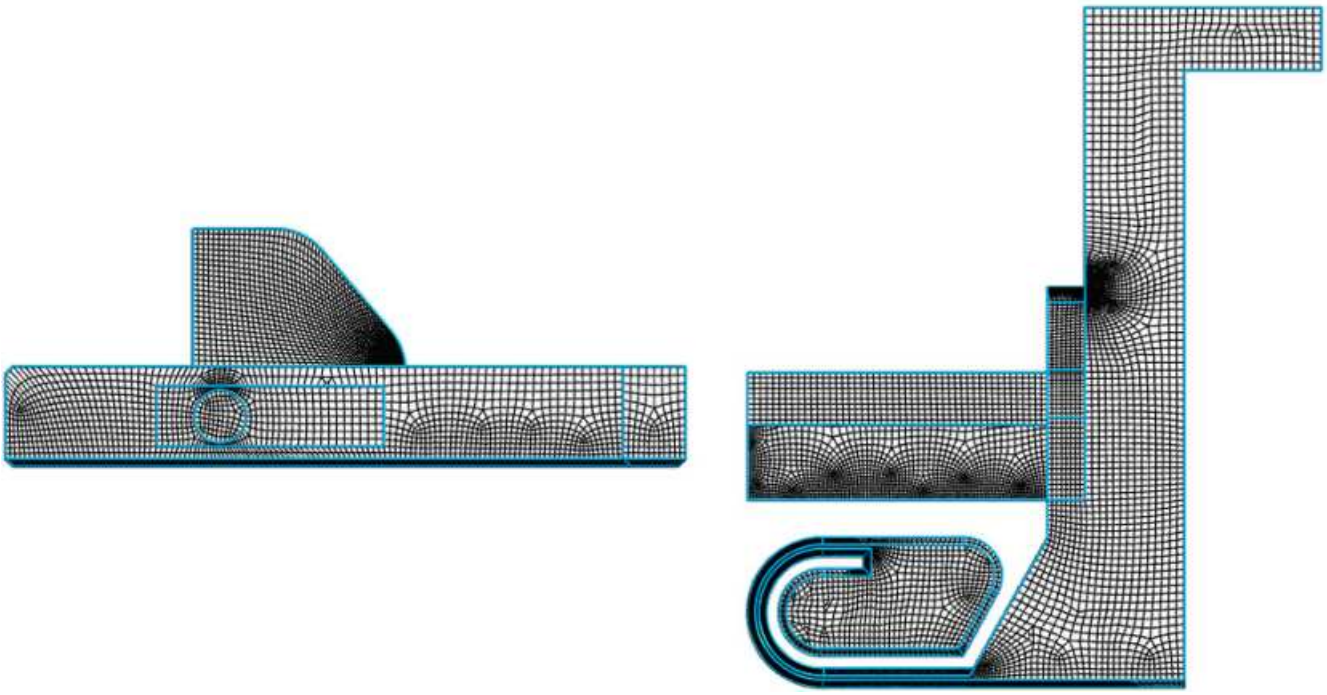
Model: 00003617 (from ABC dataset)
CAD: 141 corners, 228 curves, 92 faces
Cross field: 46 singularities detected
Timings: 11.041 sec to generate the unstructured mesh, 48.2197 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	42736	49363	1969	128
Quasi-structured	45501	52128	711	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00570188	0.333901	1.01096	0.12735	0.914878	0.962879
Quasi-structured	0.00570188	0.325488	1.4672	0.278712	0.909896	0.952009



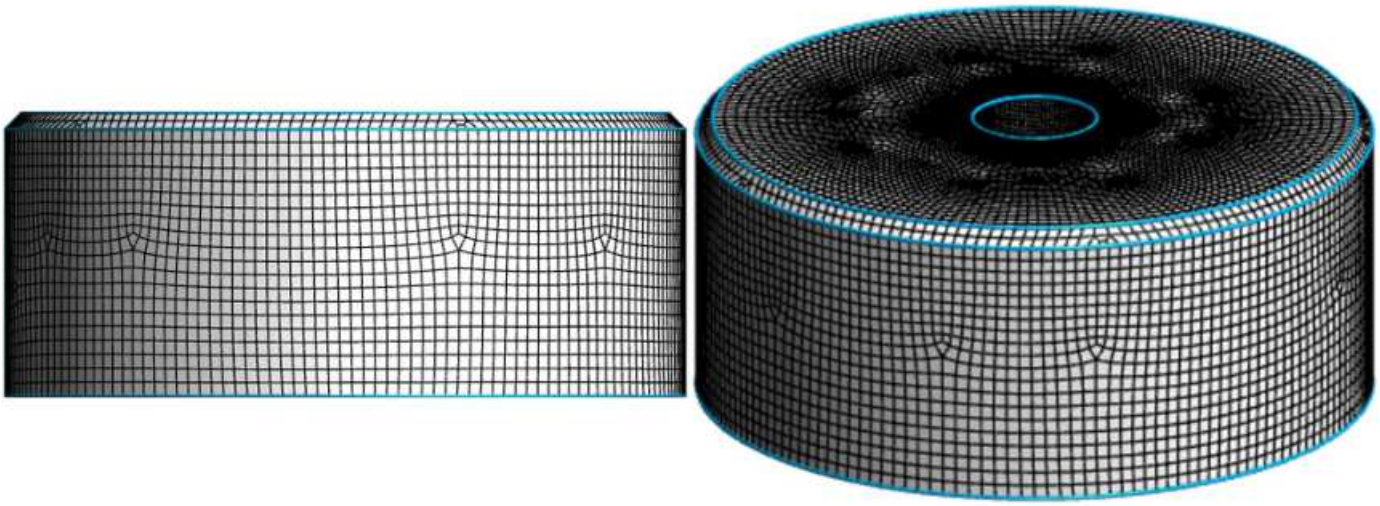


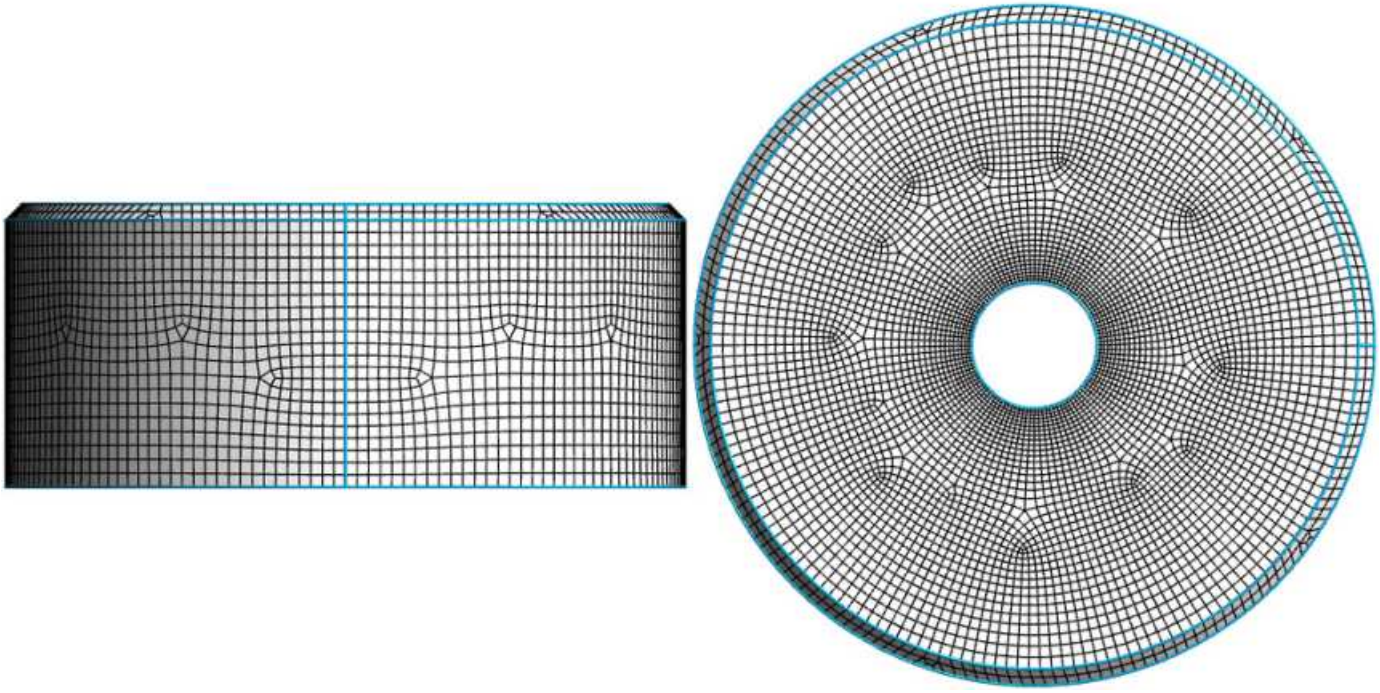
Model: 00003630 (from ABC dataset)
CAD: 18 corners, 29 curves, 13 faces
Cross field: 32 singularities detected
Timings: 17.6233 sec to generate the unstructured mesh, 14.934 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21082	21996	291	180
Quasi-structured	21098	22012	133	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0574994	0.94053	3.26991	0.170363	0.971443	0.988275
Quasi-structured	0.159293	0.939787	2.20554	0.447584	0.988748	0.996106



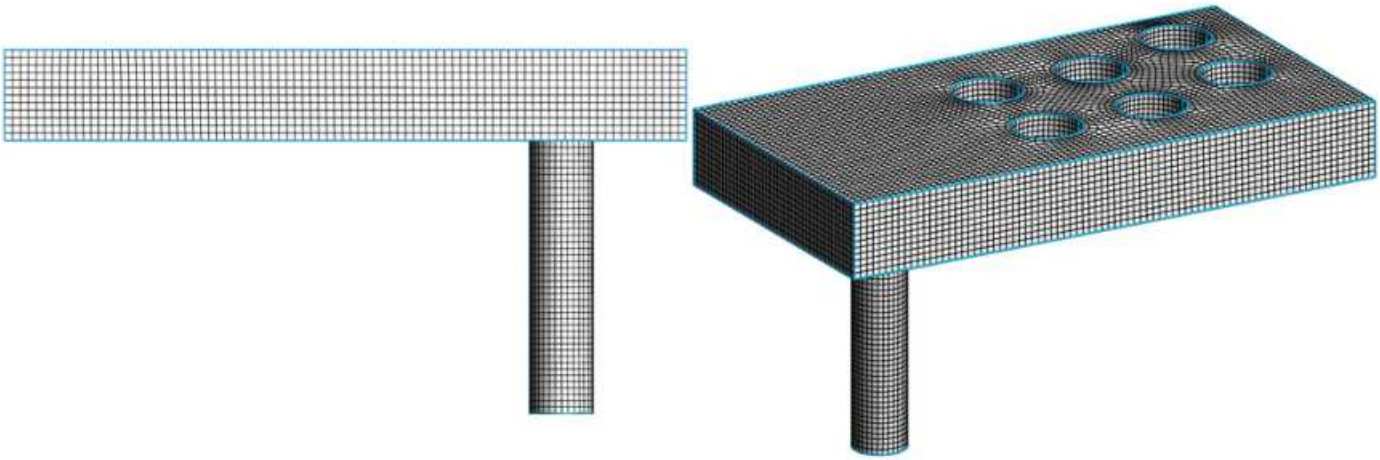


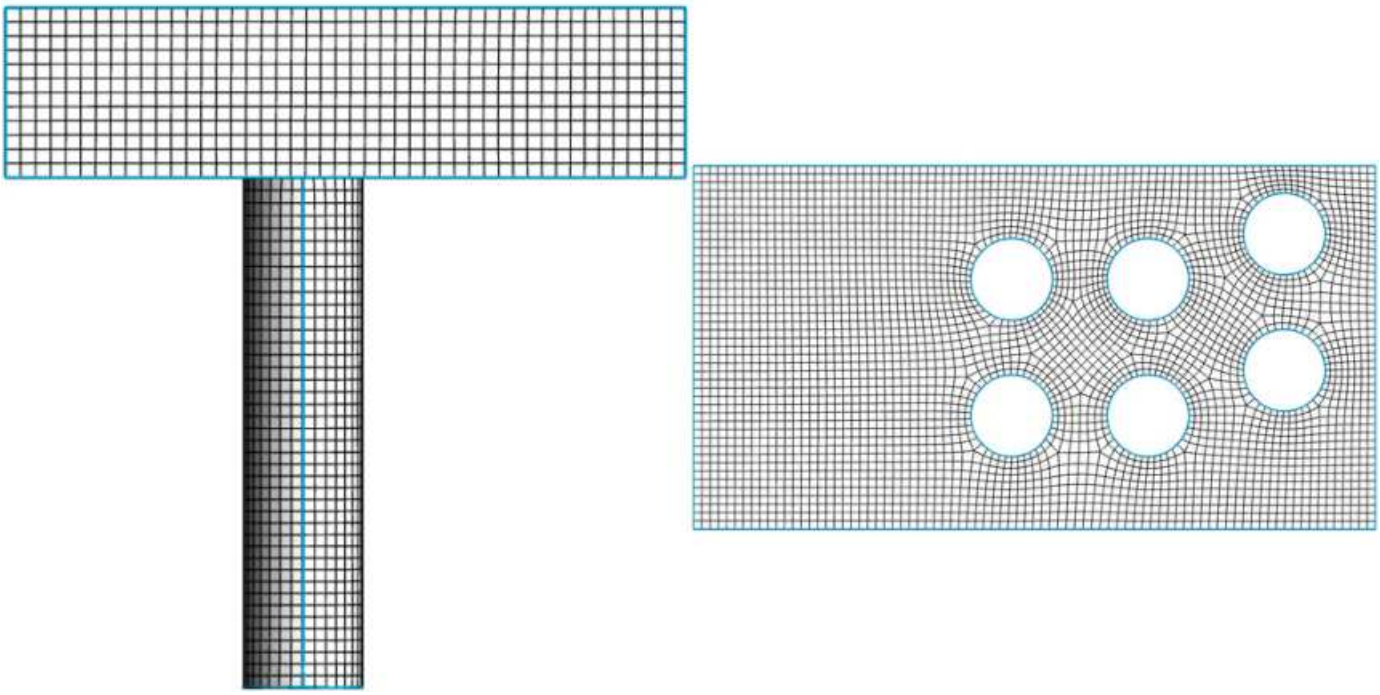
Model: 00003639 (from ABC dataset)
CAD: 22 corners, 33 curves, 14 faces
Cross field: 56 singularities detected
Timings: 12.2107 sec to generate the unstructured mesh, 1.6711 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14788	15902	260	134
Quasi-structured	14926	16040	68	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.043872	0.162729	0.357399	0.189326	0.978663	0.995903
Quasi-structured	0.0691203	0.161809	0.299919	0.6759	0.991031	0.997782



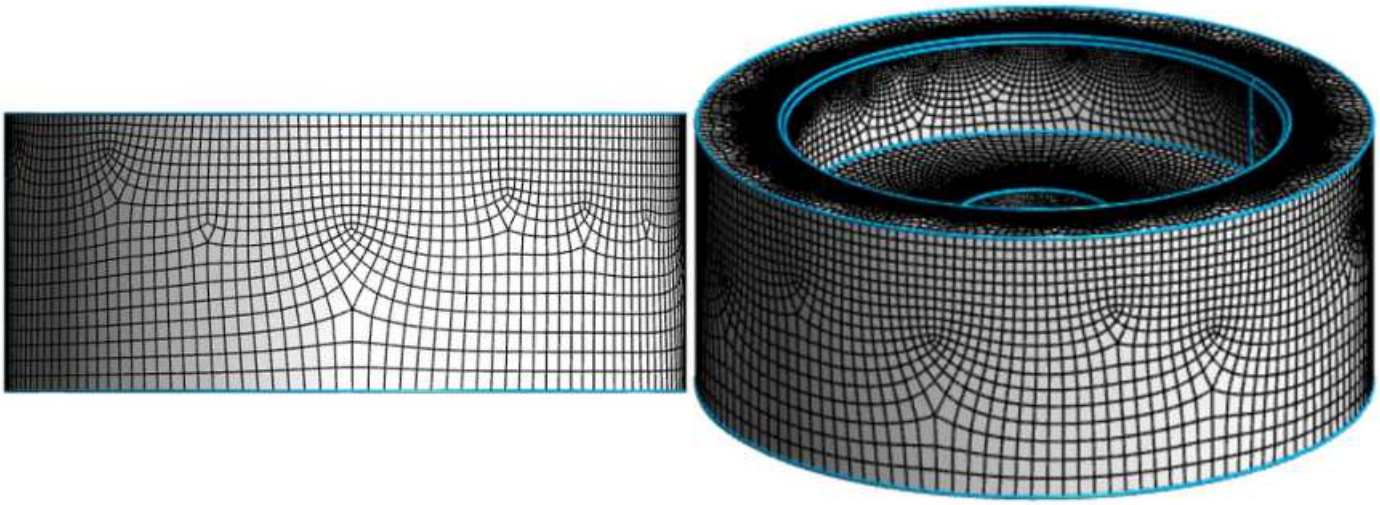


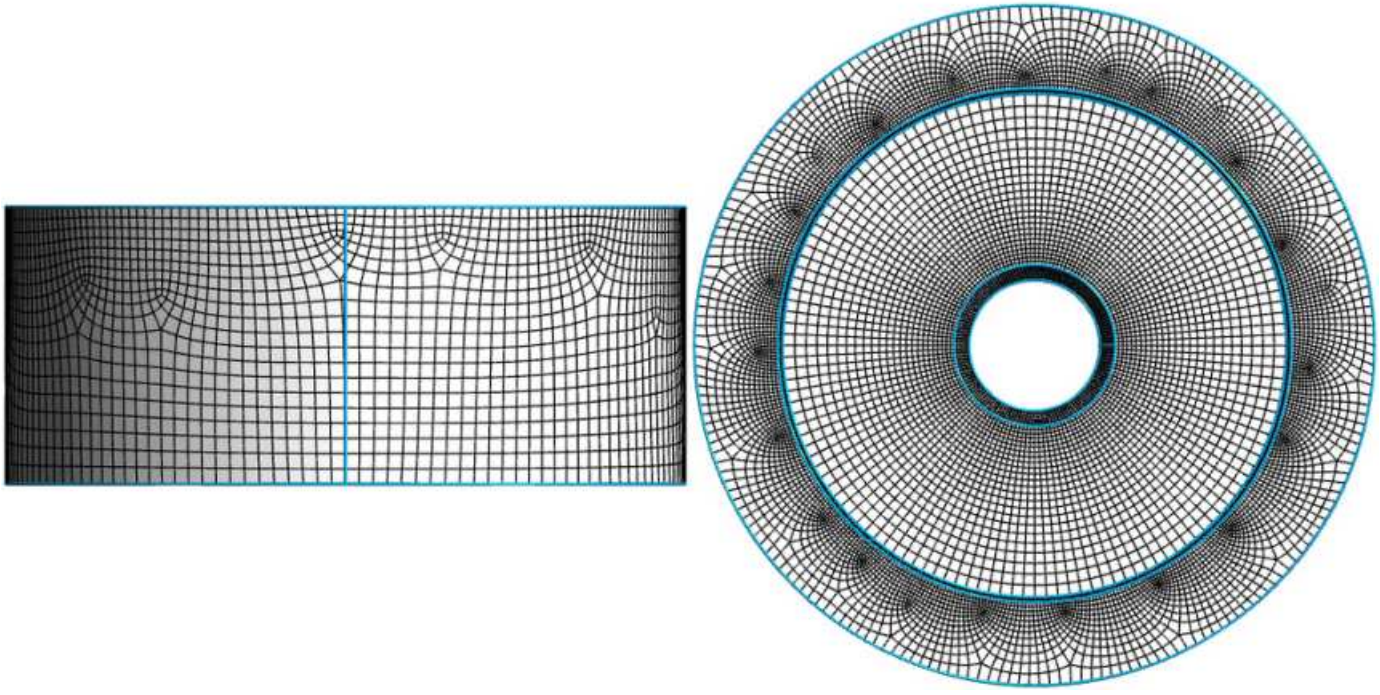
Model: 00003648 (from ABC dataset)
CAD: 13 corners, 21 curves, 13 faces
Cross field: 16 singularities detected
Timings: 17.3328 sec to generate the unstructured mesh, 81.2152 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29864	31934	746	138
Quasi-structured	29586	31656	200	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0634962	0.308335	1.18598	0.156434	0.963323	0.995339
Quasi-structured	0.0546242	0.308382	1.65996	0.6337	0.984929	0.993056



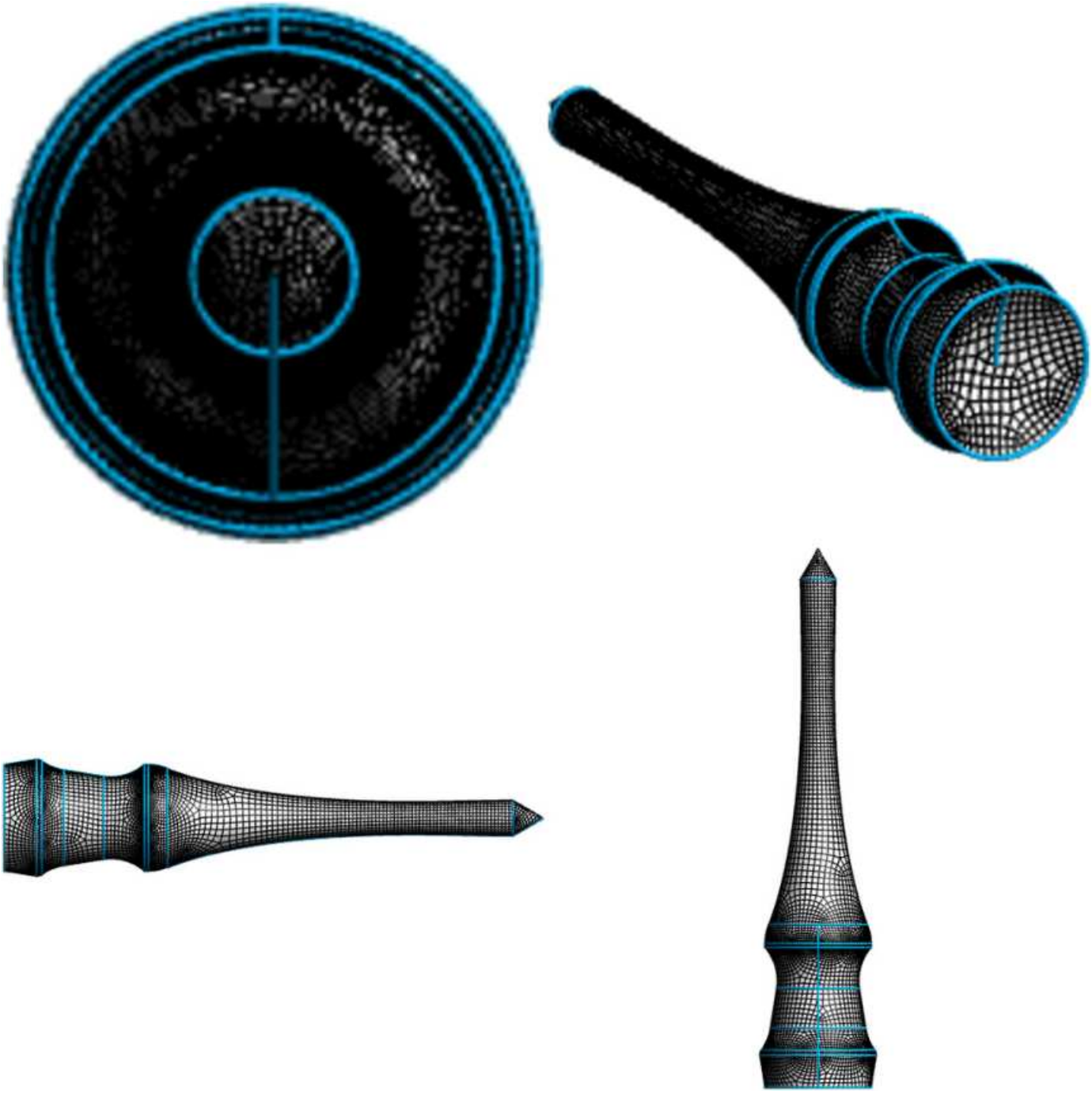


Model: 00003678 (from ABC dataset)
CAD: 15 corners, 25 curves, 10 faces
Cross field: 7 singularities detected
Timings: 5.06093 sec to generate the unstructured mesh, 5.26236 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8926	9848	451	170
Quasi-structured	8647	9569	135	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.276914	1.22322	5.09965	0.400368	0.934877	0.985526
Quasi-structured	0.216881	1.23924	3.80606	0.491416	0.964179	0.982147

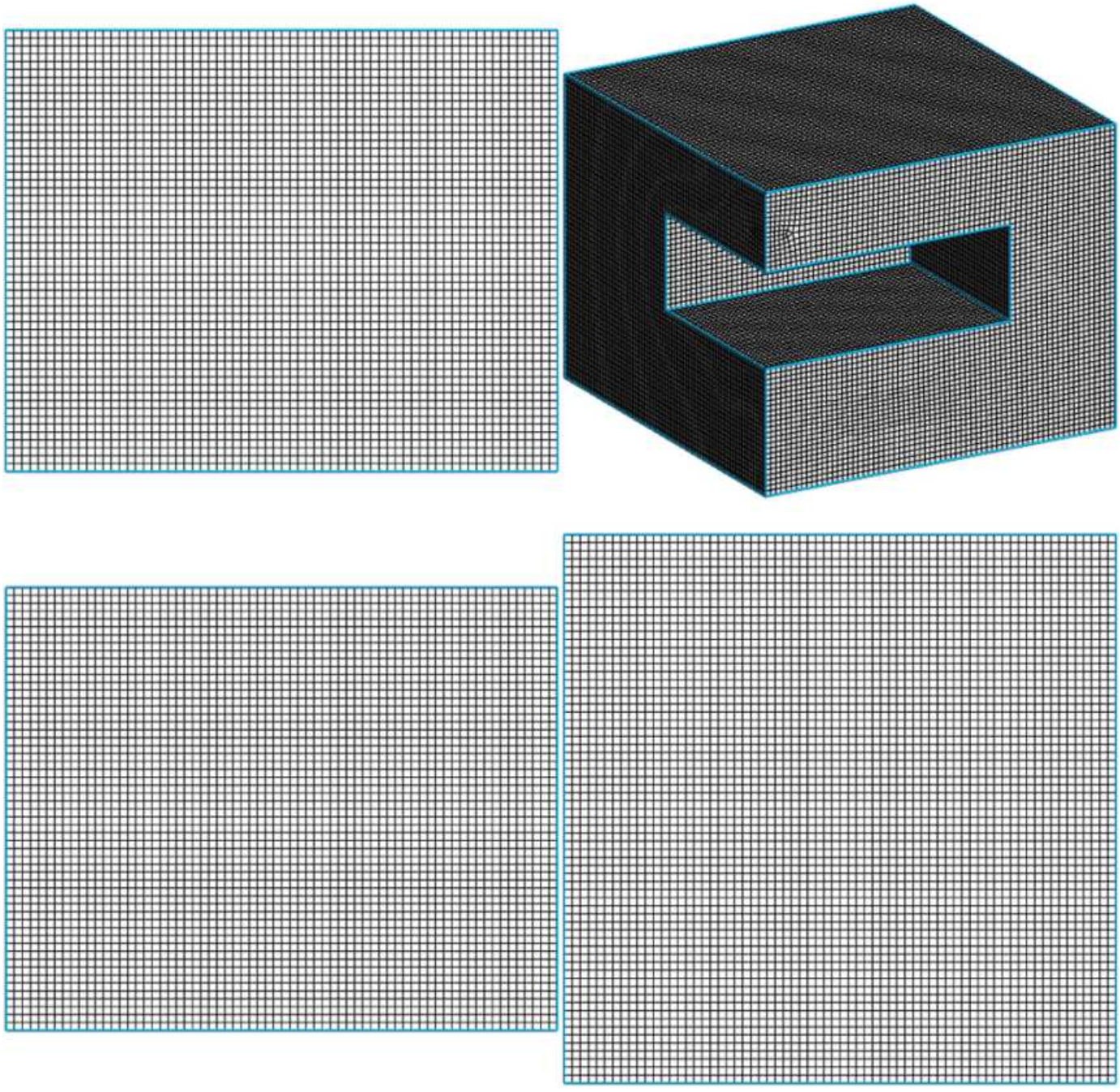


Model: 00003688 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 23.1793 sec to generate the unstructured mesh, 2.24431 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27746	28890	12	0
Quasi-structured	27766	28910	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.727931	1.84799	2.40143	0.626278	0.998064	0.99994
Quasi-structured	1.12043	1.84689	2.38144	0.842614	0.999494	0.999721

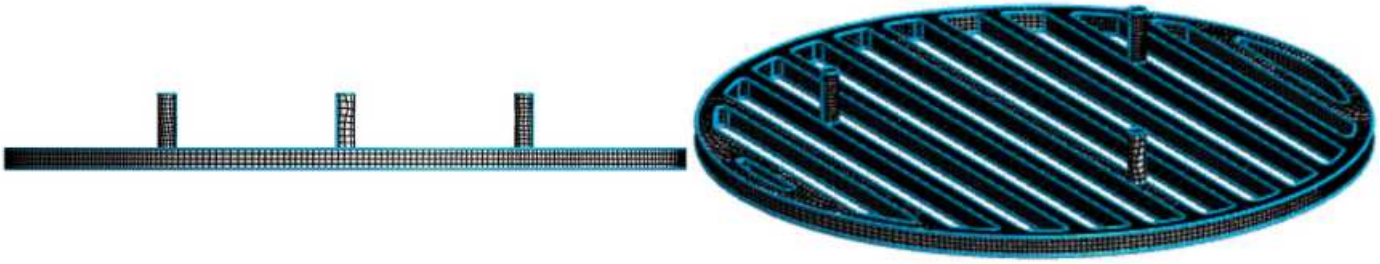


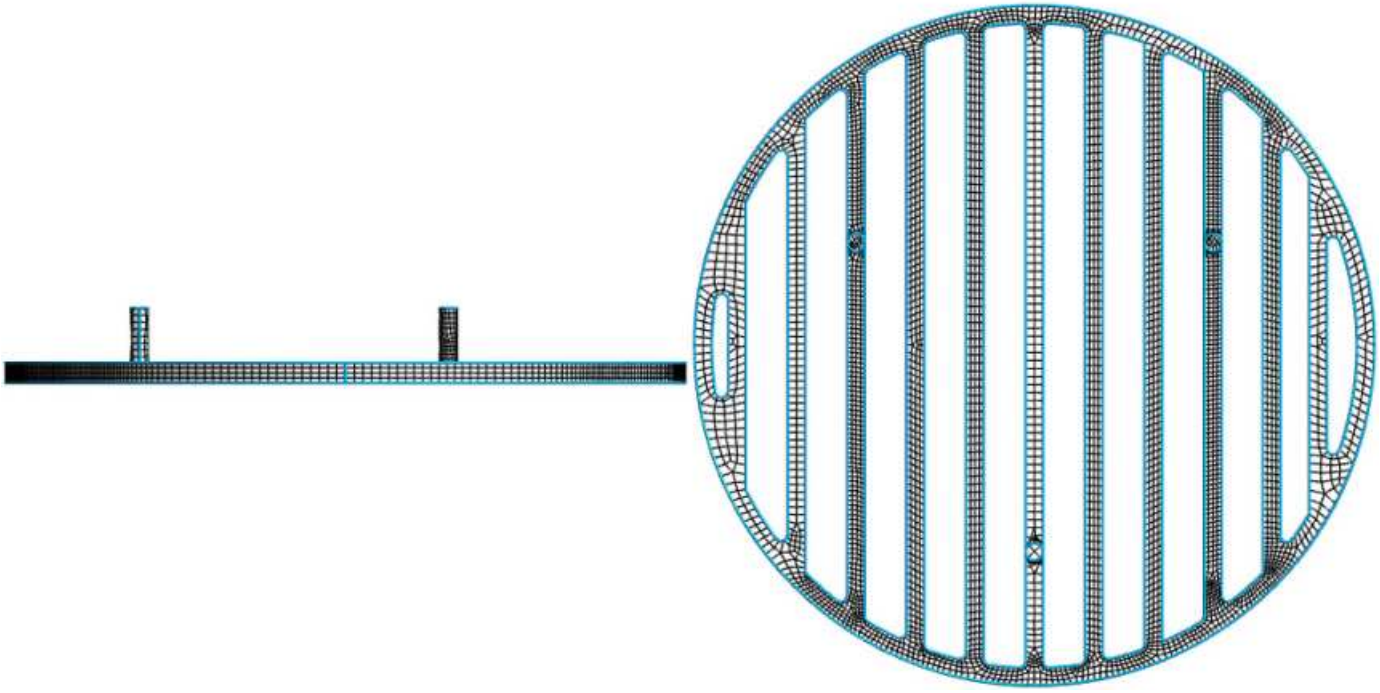
Model: 00003702 (from ABC dataset)
CAD: 169 corners, 257 curves, 87 faces
Cross field: 106 singularities detected
Timings: 14.0563 sec to generate the unstructured mesh, 14.8594 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17664	22756	530	63
Quasi-structured	20478	25570	283	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.121233	0.677487	1.53327	0.0126168	0.899902	0.944484
Quasi-structured	0.0679139	0.644299	1.85146	0.0632252	0.877006	0.898412



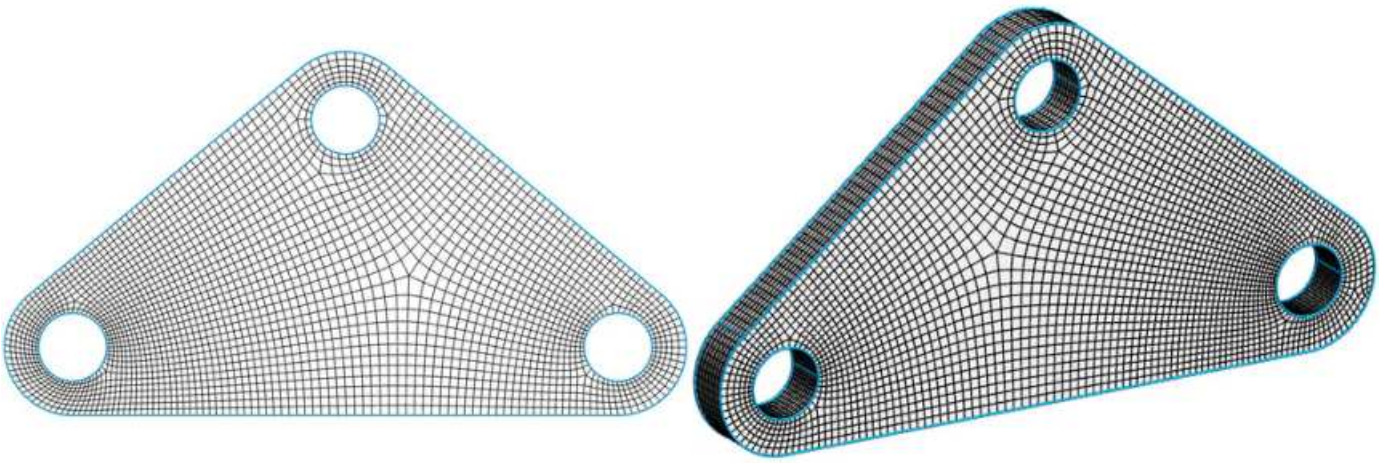


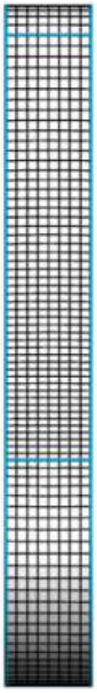
Model: 00003709 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 16 singularities detected
Timings: 7.8674 sec to generate the unstructured mesh, 1.5127 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8804	9586	128	34
Quasi-structured	8753	9535	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.228224	0.926296	2.04341	0.474905	0.97286	0.991467
Quasi-structured	0.415611	0.925482	2.75341	0.683885	0.981173	0.993386





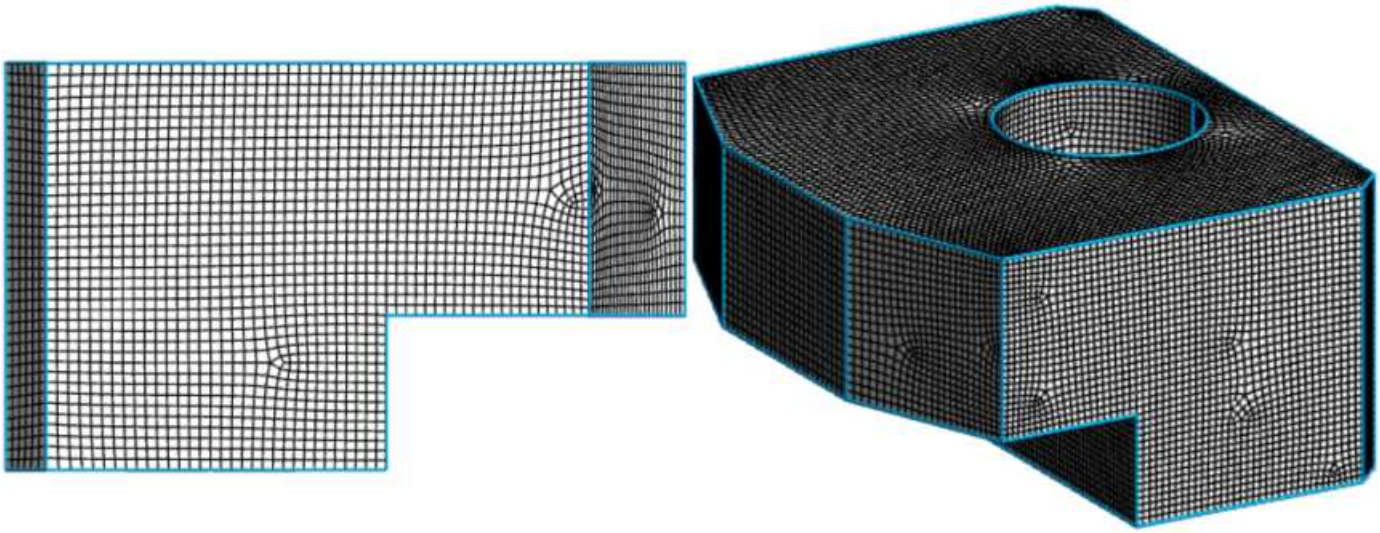


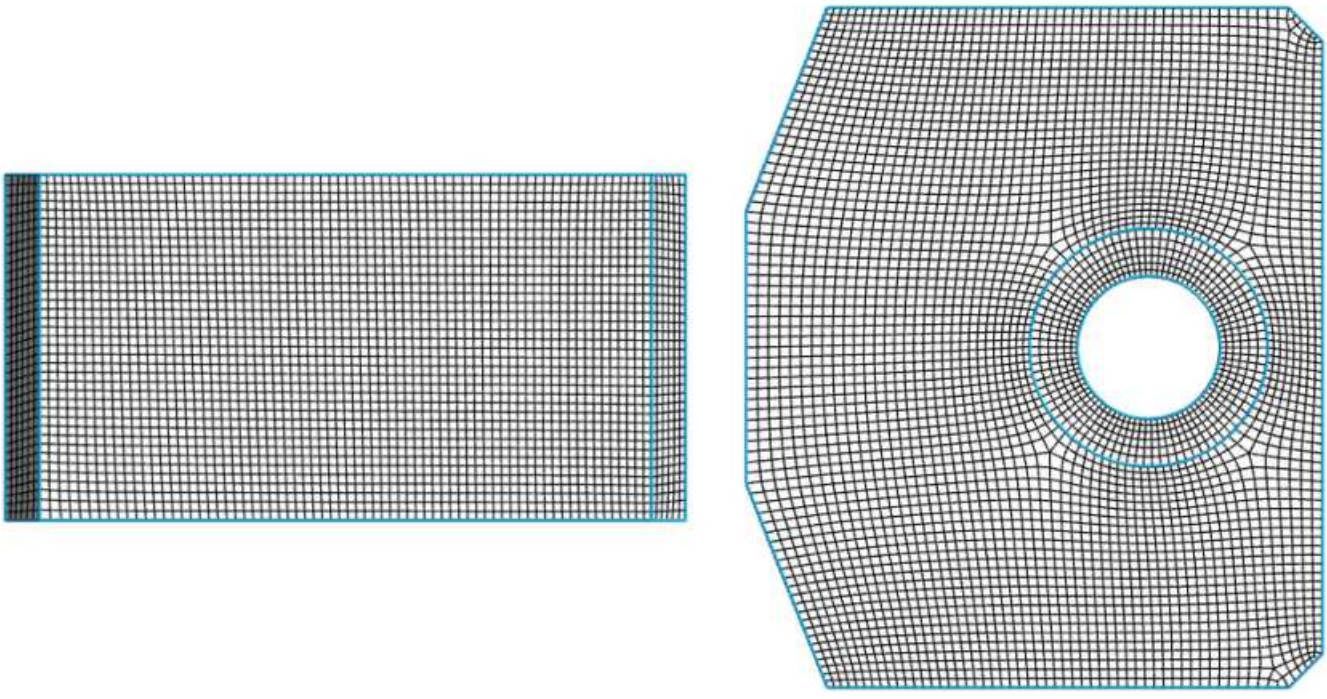
Model: 00003711 (from ABC dataset)
CAD: 24 corners, 36 curves, 15 faces
Cross field: 12 singularities detected
Timings: 16.2474 sec to generate the unstructured mesh, 4.03255 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22912	24224	236	55
Quasi-structured	23034	24346	72	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0823937	0.315197	0.623279	0.521112	0.985343	0.997799
Quasi-structured	0.109968	0.314002	0.655004	0.780502	0.993724	0.998047



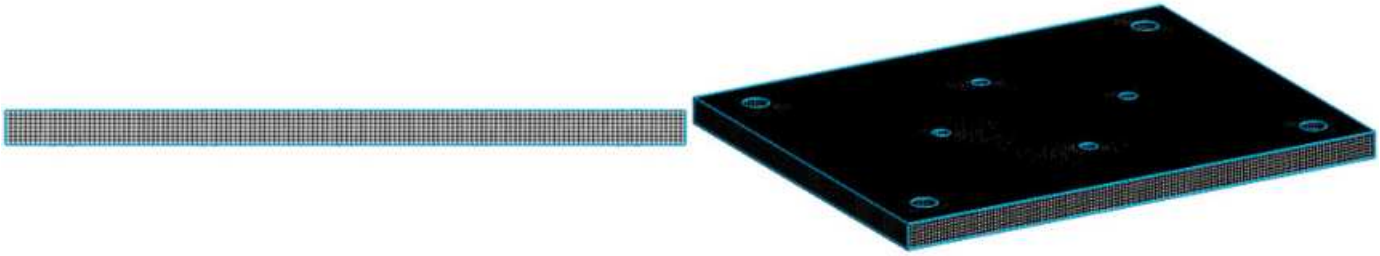


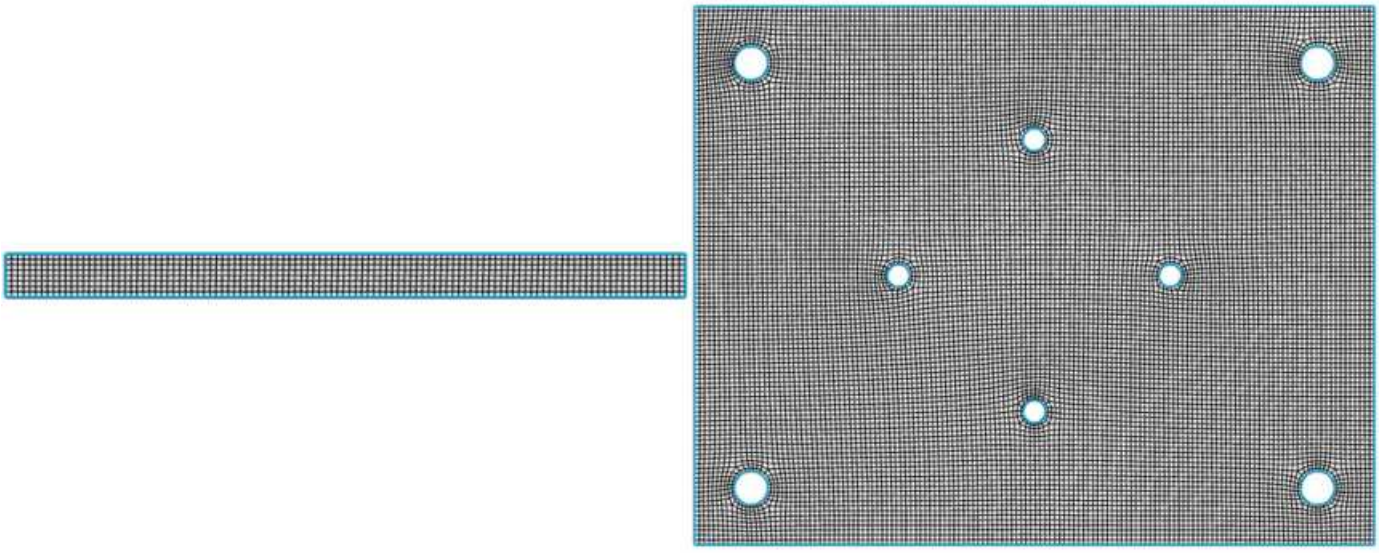
Model: 00003713 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 64 singularities detected
Timings: 24.1026 sec to generate the unstructured mesh, 4.5189 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36734	38172	322	77
Quasi-structured	37245	38683	64	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.266952	0.838692	1.46637	0.449043	0.982238	0.998893
Quasi-structured	0.388584	0.830851	1.39643	0.677684	0.994825	0.999331



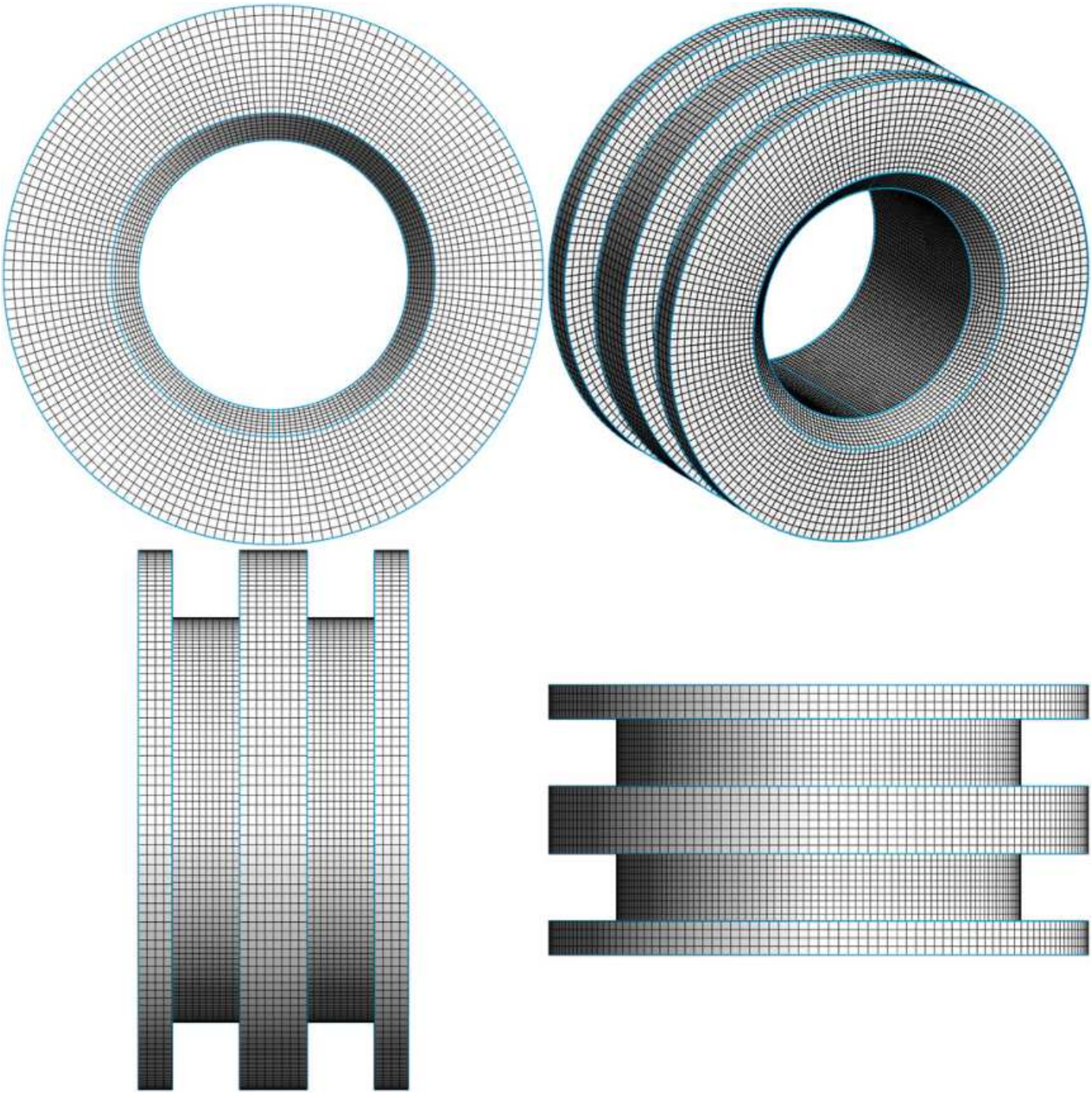


Model: 00003715 (from ABC dataset)
CAD: 15 corners, 23 curves, 14 faces
Cross field: 0 singularities detected
Timings: 19.0601 sec to generate the unstructured mesh, 2.7085 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26578	28960	66	93
Quasi-structured	26570	28952	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.155934	0.652366	1.03127	0.435945	0.98036	0.998238
Quasi-structured	0.267161	0.650954	0.938911	0.808299	0.99569	0.998799

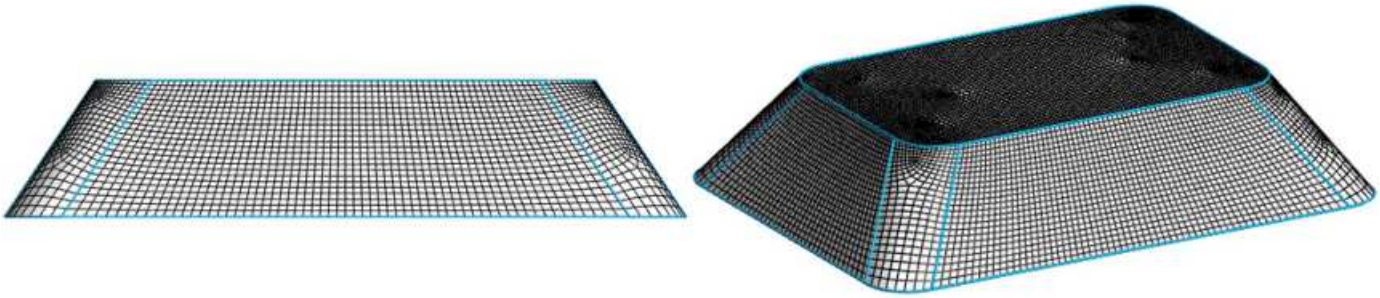


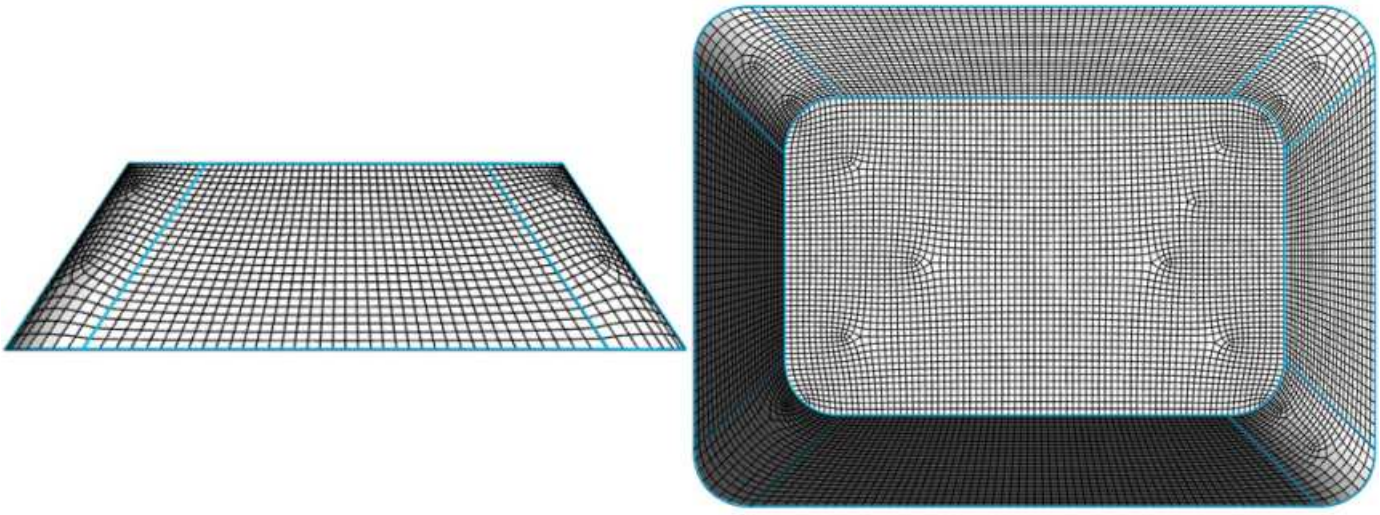
Model: 00003717 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 7.61414 sec to generate the unstructured mesh, 1.86253 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13954	14652	148	1
Quasi-structured	14088	14786	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.416582	1.66333	3.67177	0.556458	0.972794	0.990258
Quasi-structured	0.522737	1.65297	3.46385	0.718618	0.983327	0.995902



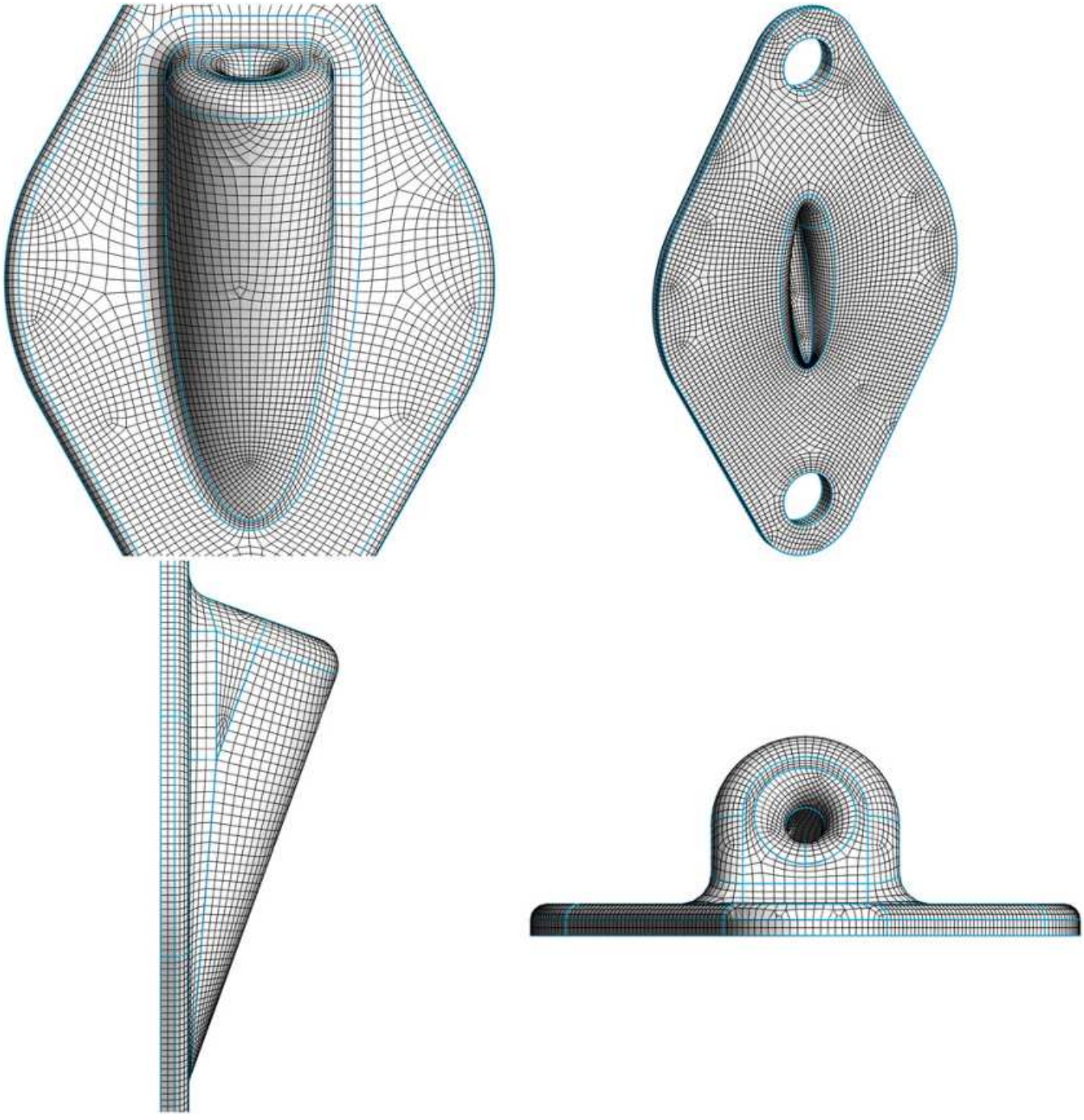


Model: 00003732 (from ABC dataset)
CAD: 54 corners, 89 curves, 38 faces
Cross field: 28 singularities detected
Timings: 10.8036 sec to generate the unstructured mesh, 6.20129 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12142	13947	460	59
Quasi-structured	12434	14239	147	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0508963	0.51105	1.32592	0.165356	0.928353	0.973515
Quasi-structured	0.0508963	0.505182	1.81548	0.258062	0.934844	0.976633

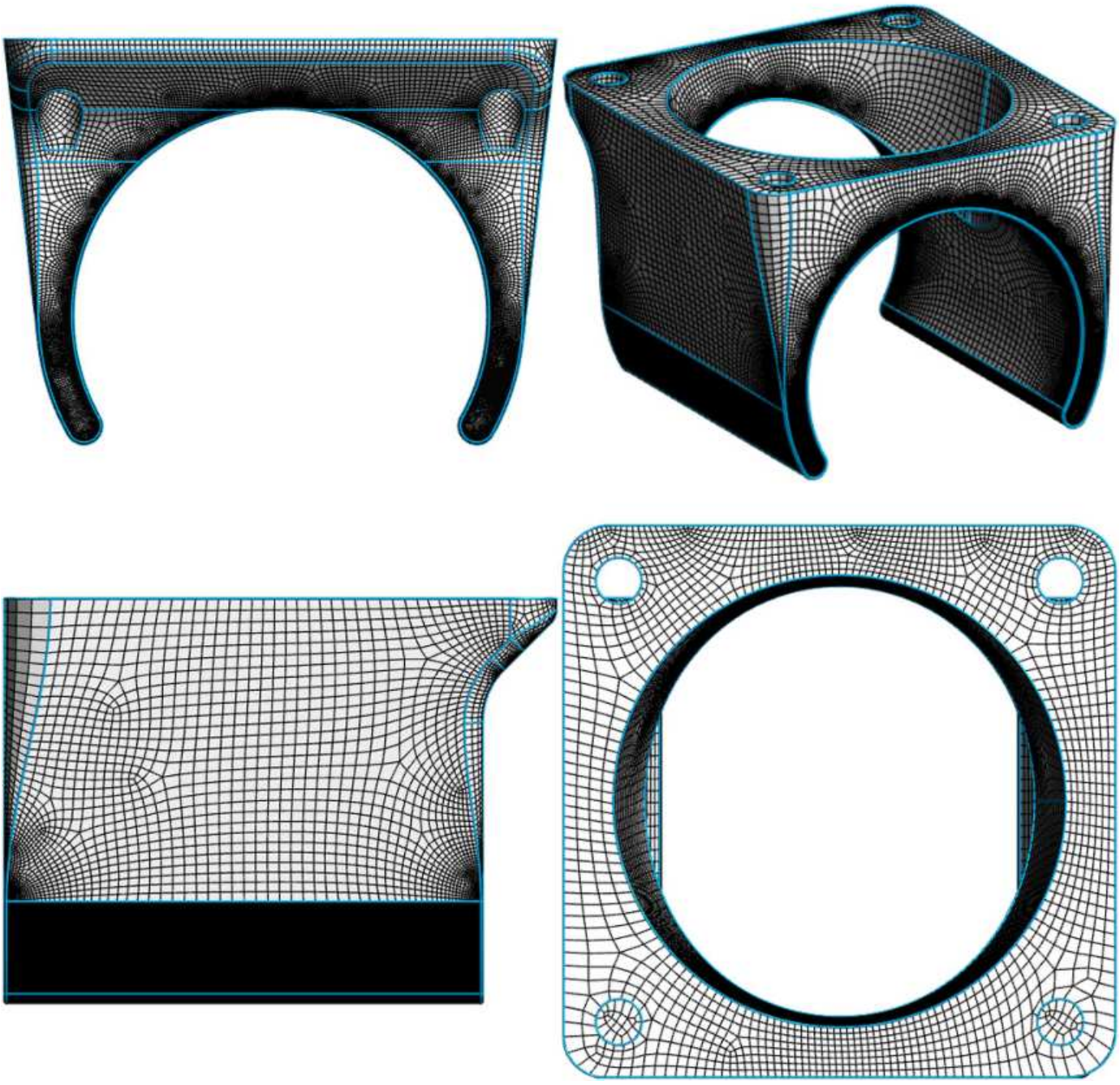


Model: 00003751 (from ABC dataset)
CAD: 75 corners, 124 curves, 51 faces
Cross field: 49 singularities detected
Timings: 18.7348 sec to generate the unstructured mesh, 197.666 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	76858	83214	3180	305
Quasi-structured	78363	84719	1320	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000182384	0.181817	1.21036	0.00276277	0.820063	0.935869
Quasi-structured	0.000345187	0.178609	1.71608	0.0044618	0.849151	0.959815

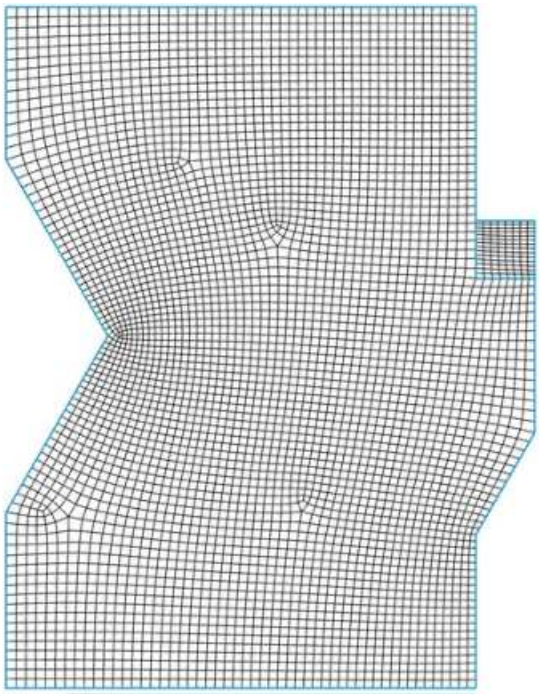


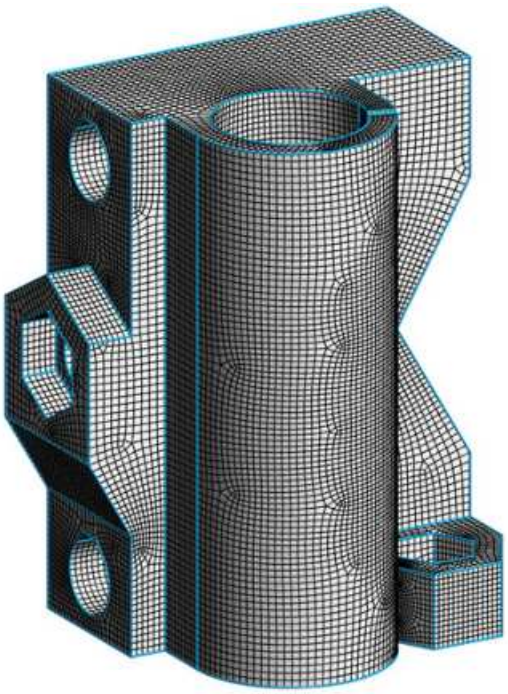
Model: 00003755 (from ABC dataset)
CAD: 108 corners, 164 curves, 59 faces
Cross field: 42 singularities detected
Timings: 32.602 sec to generate the unstructured mesh, 25.9778 sec to make it quasi-structured
Mesh topology:

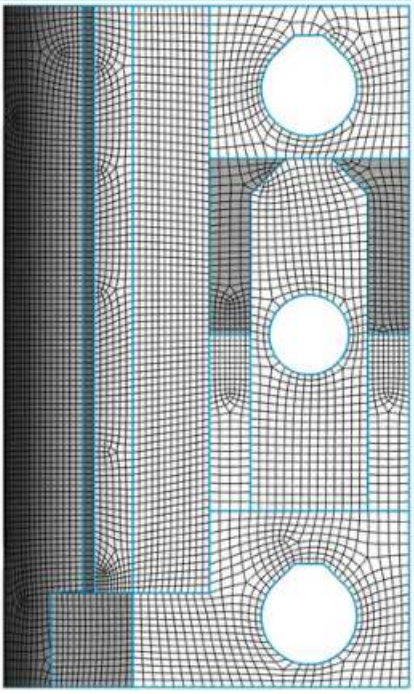
	# quads	# vertices	# irregular	# very irregular
Unstructured	40060	43699	756	123
Quasi-structured	40920	44559	279	0

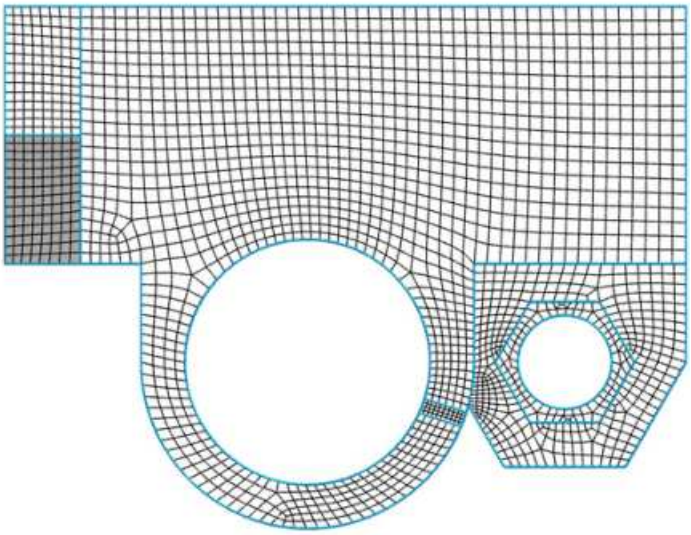
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.130793	0.664679	1.4887	0.363113	0.967974	0.989635
Quasi-structured	0.118214	0.656018	1.81548	0.373827	0.977882	0.992056







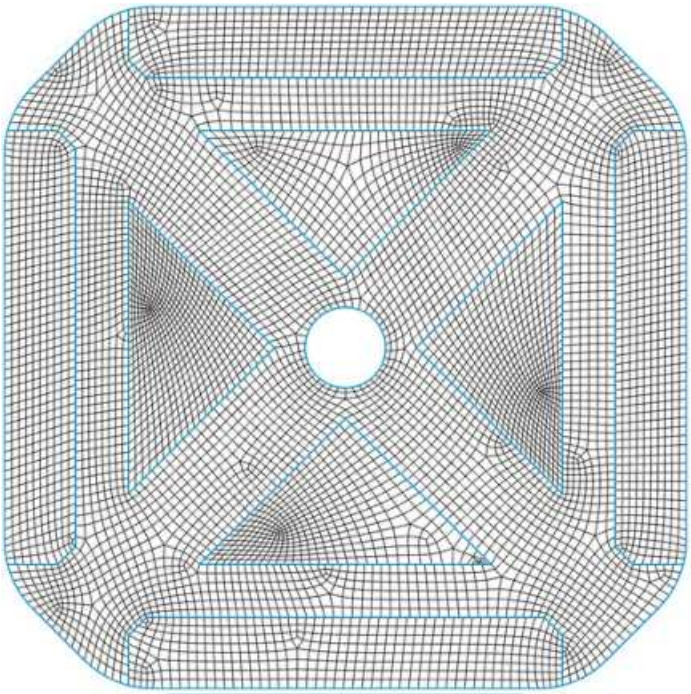
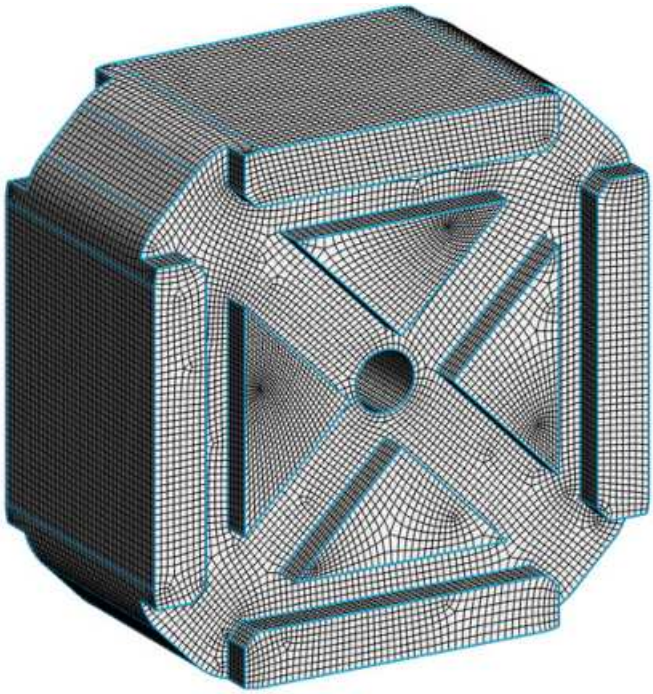
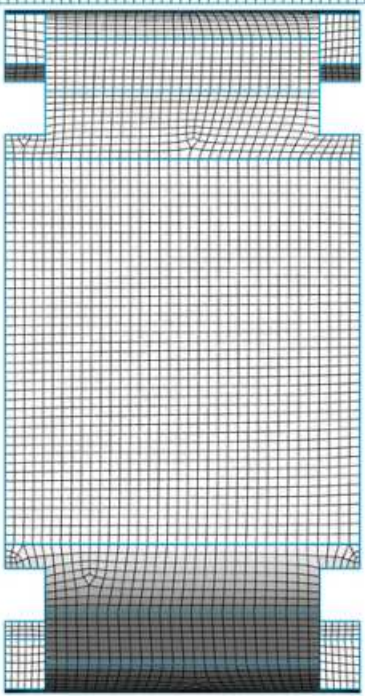
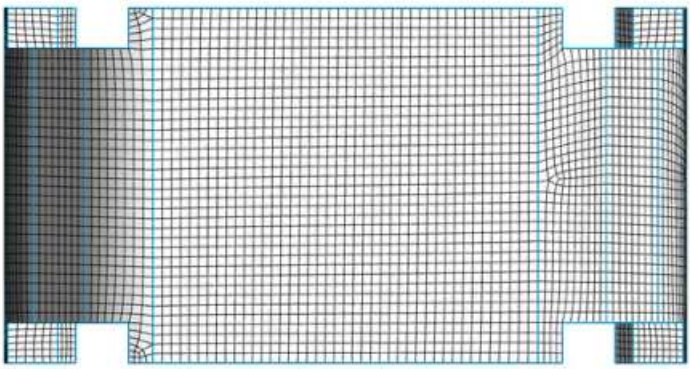


Model: 00003780 (from ABC dataset)
CAD: 178 corners, 267 curves, 99 faces
Cross field: 35 singularities detected
Timings: 13.909 sec to generate the unstructured mesh, 7.96885 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30010	34128	733	50
Quasi-structured	32119	36237	200	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.13003	0.52374	1.03442	0.271225	0.965813	0.99316
Quasi-structured	0.0886187	0.506024	1.3978	0.361984	0.962888	0.985835

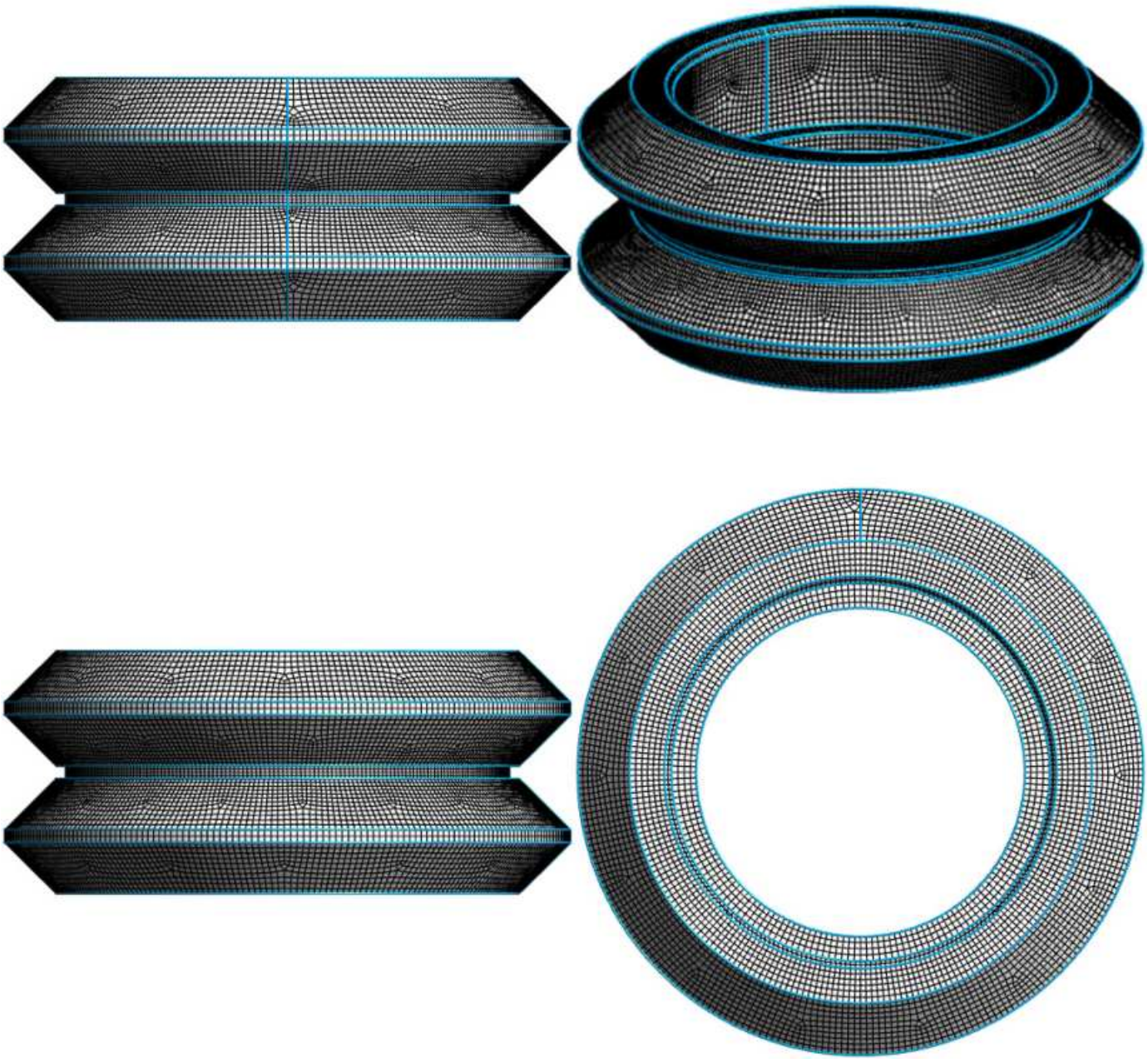





Model: 00003784 (from ABC dataset)
CAD: 19 corners, 31 curves, 18 faces
Cross field: 0 singularities detected
Timings: 15.5728 sec to generate the unstructured mesh, 27.6719 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28804	33346	359	106
Quasi-structured	29006	33548	216	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0643967	0.247927	0.420997	0.423728	0.970472	0.989751
Quasi-structured	0.109966	0.245924	0.468628	0.638246	0.986846	0.992237

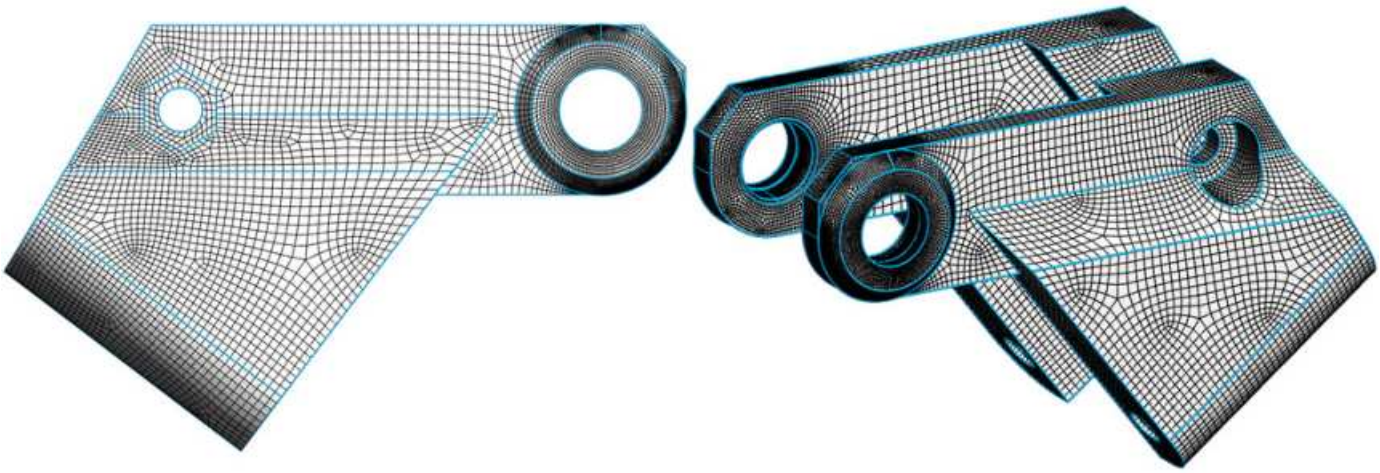


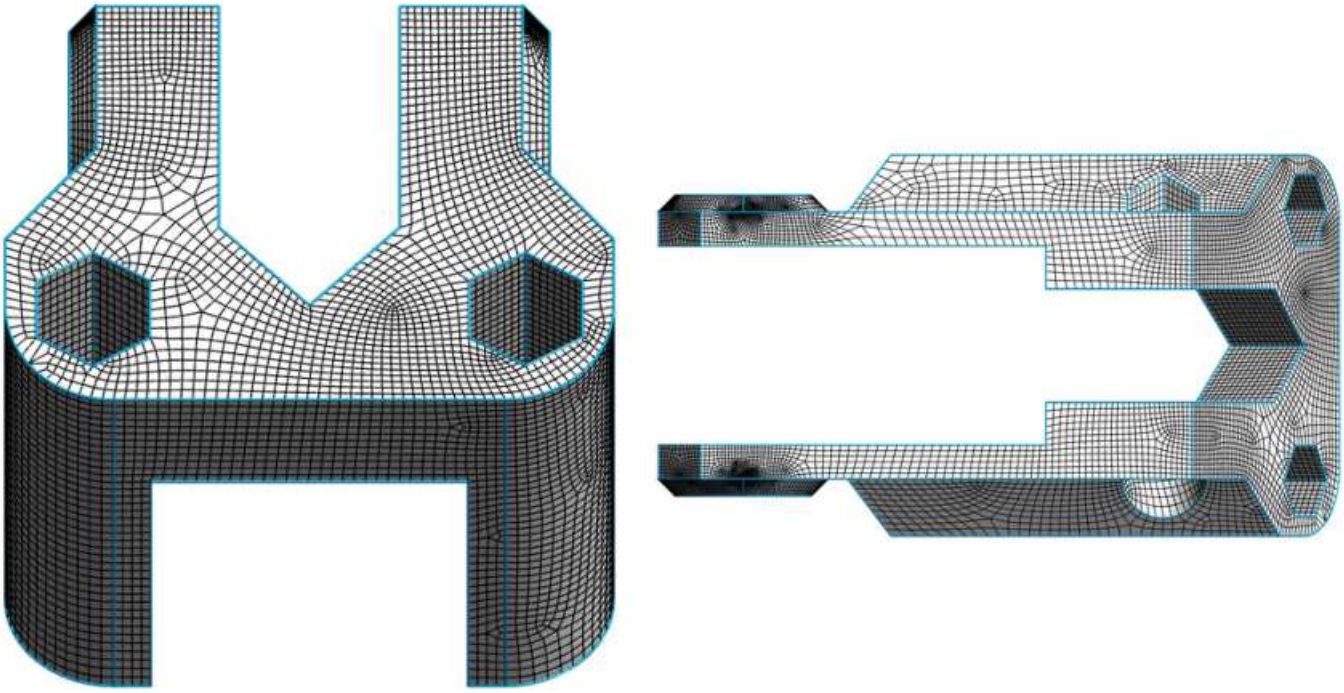
Model: 00003787 (from ABC dataset)
CAD: 149 corners, 227 curves, 86 faces
Cross field: 80 singularities detected
Timings: 12.455 sec to generate the unstructured mesh, 96.0427 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	52684	59147	2546	252
Quasi-structured	52042	58505	642	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0183791	0.436179	2.04297	0.132247	0.934362	0.97576
Quasi-structured	0.0183791	0.443112	2.75051	0.132247	0.947199	0.974947



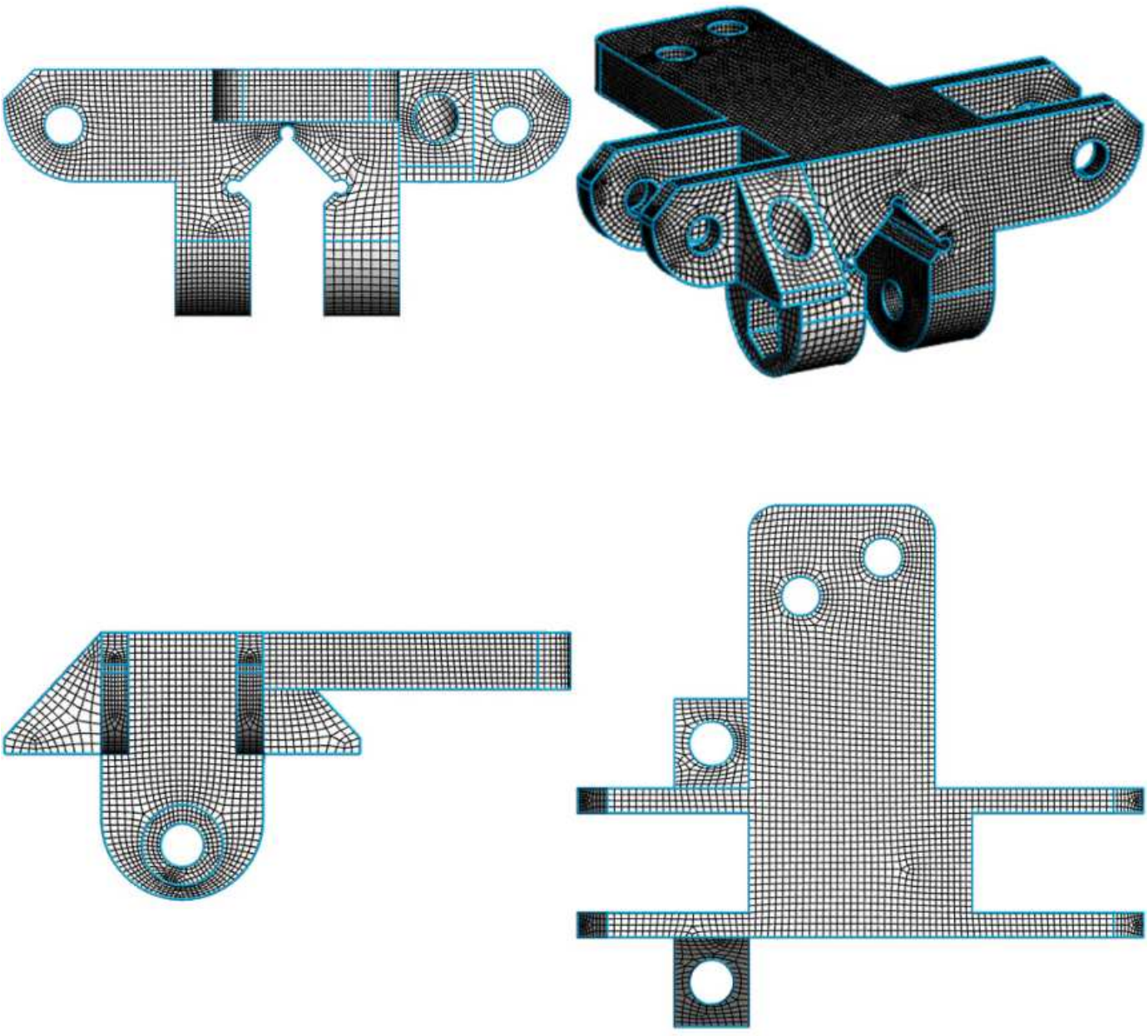


Model: 00003788 (from ABC dataset)
CAD: 159 corners, 238 curves, 85 faces
Cross field: 116 singularities detected
Timings: 13.3779 sec to generate the unstructured mesh, 6.57309 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19676	22696	802	114
Quasi-structured	20211	23231	282	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.126612	0.762117	1.79667	0.0450311	0.949741	0.983234
Quasi-structured	0.113852	0.750797	2.7983	0.129931	0.96437	0.988498

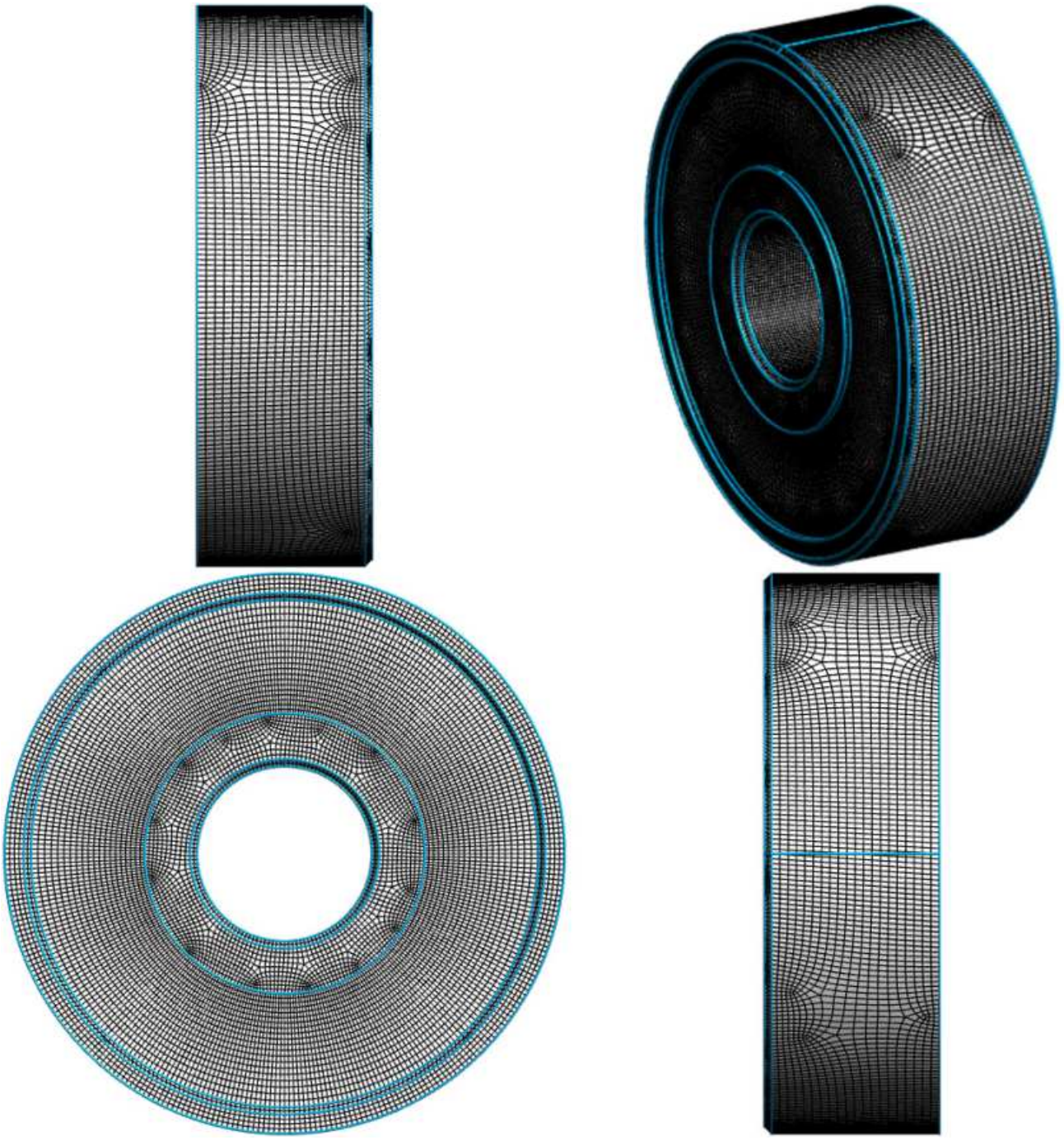


Model: 00003789 (from ABC dataset)
CAD: 15 corners, 24 curves, 15 faces
Cross field: 0 singularities detected
Timings: 9.63124 sec to generate the unstructured mesh, 33.1075 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34166	38526	1160	189
Quasi-structured	37358	41718	286	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0421852	0.137544	0.403142	0.506487	0.94708	0.986956
Quasi-structured	0.0165275	0.135265	0.477201	0.255021	0.942511	0.968415

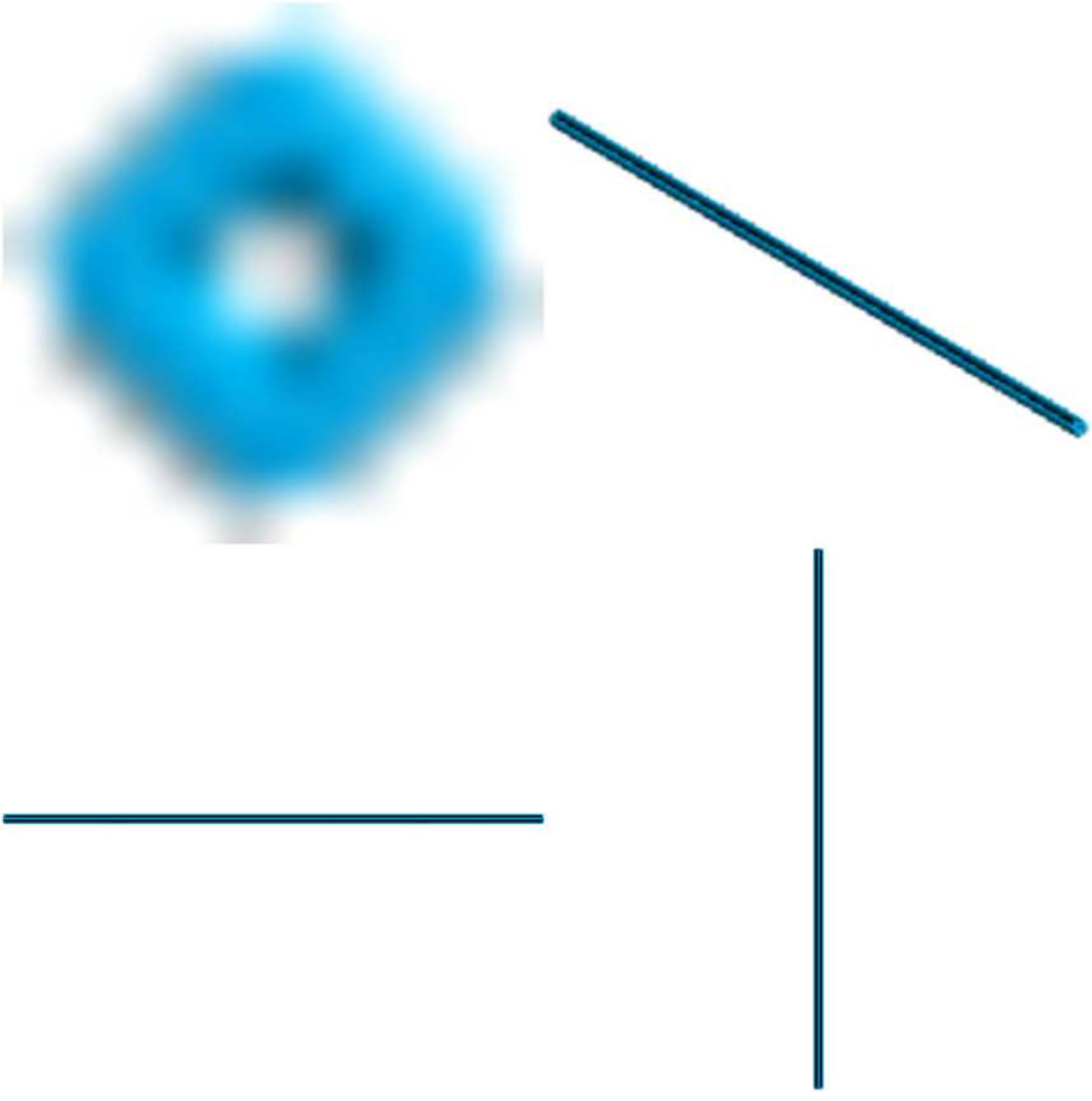


Model: 00003795 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 2.16524 sec to generate the unstructured mesh, 2.91307 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	38308	40724	7	0
Quasi-structured	38304	40720	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.240014	2.27559	5.10743	0.162425	0.307435	0.237203
Quasi-structured	0.462282	2.27592	5.10743	0.162425	0.307004	0.240508

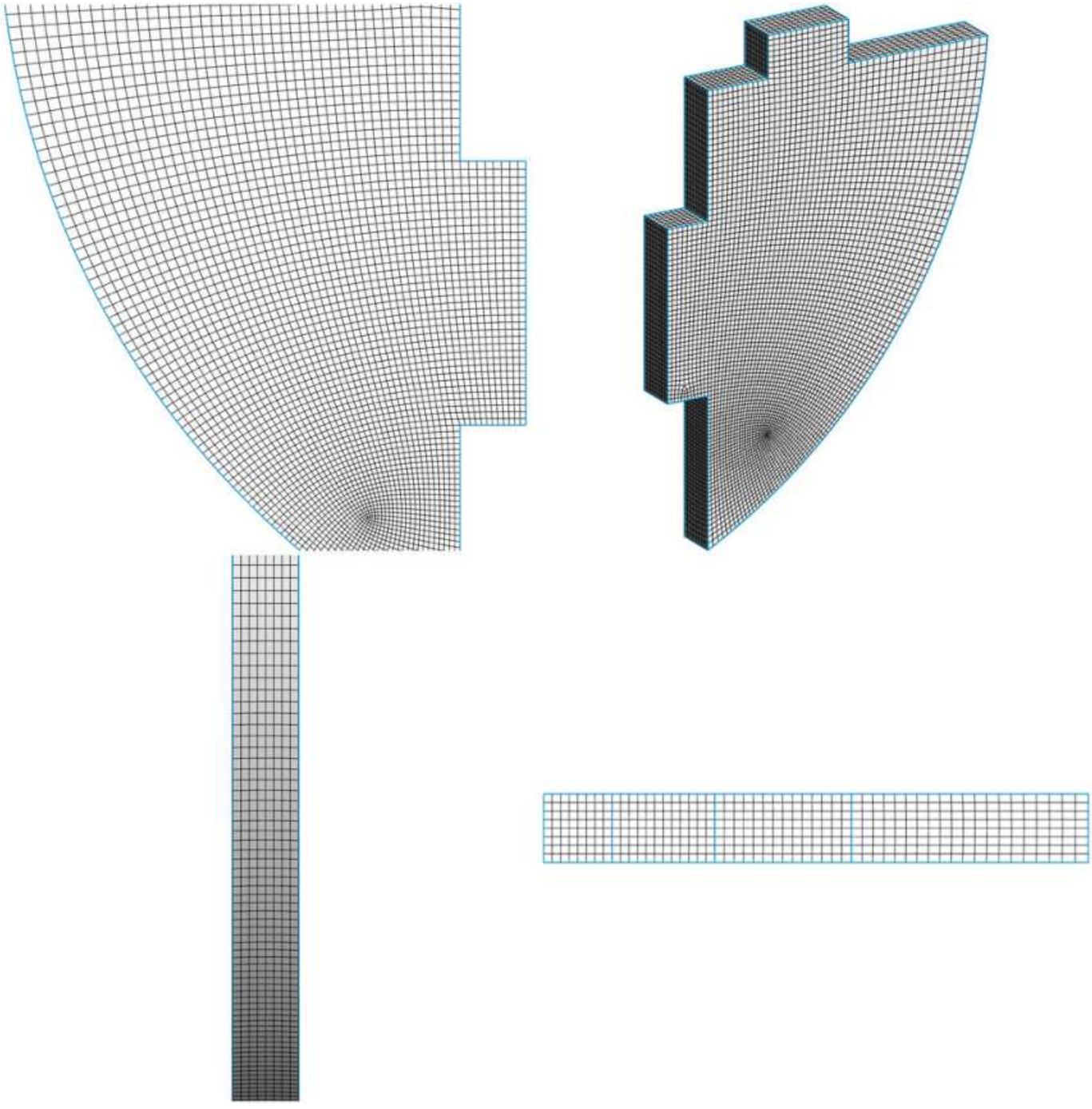


Model: 00003805 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 2 singularities detected
Timings: 8.69796 sec to generate the unstructured mesh, 1.68634 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9548	10197	78	0
Quasi-structured	10526	11175	6	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0978811	0.387392	0.738081	0.632491	0.984499	0.998849
Quasi-structured	0.0772628	0.366517	0.623233	0.839651	0.988545	0.994832

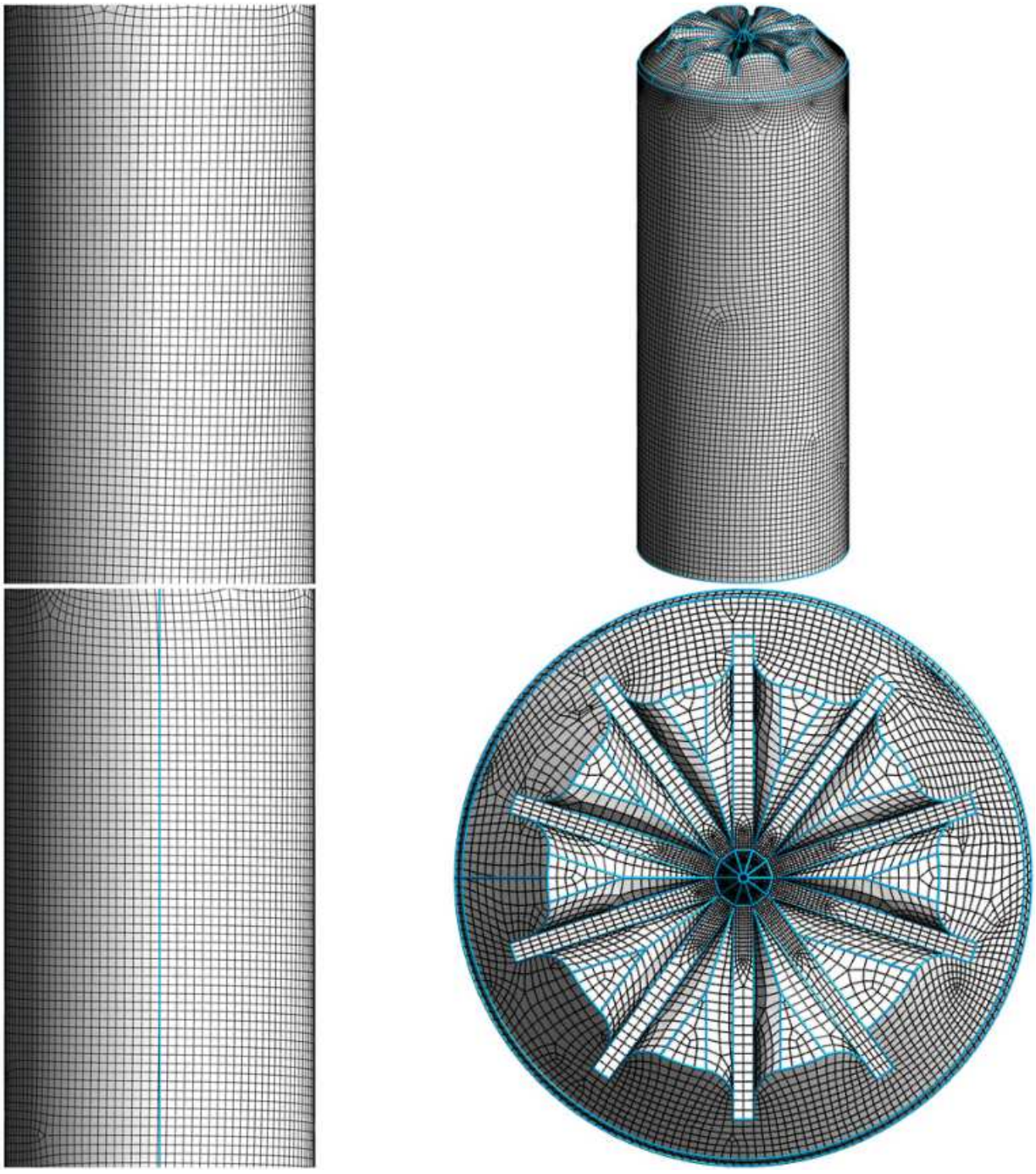


Model: 00003816 (from ABC dataset)
CAD: 124 corners, 196 curves, 75 faces
Cross field: 29 singularities detected
Timings: 12.4013 sec to generate the unstructured mesh, 12.5942 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21290	24093	1030	156
Quasi-structured	22139	24942	304	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00338411	0.0626384	0.127397	0.168639	0.93927	0.98775
Quasi-structured	0.00262989	0.0608246	0.144654	0.341519	0.951045	0.993406

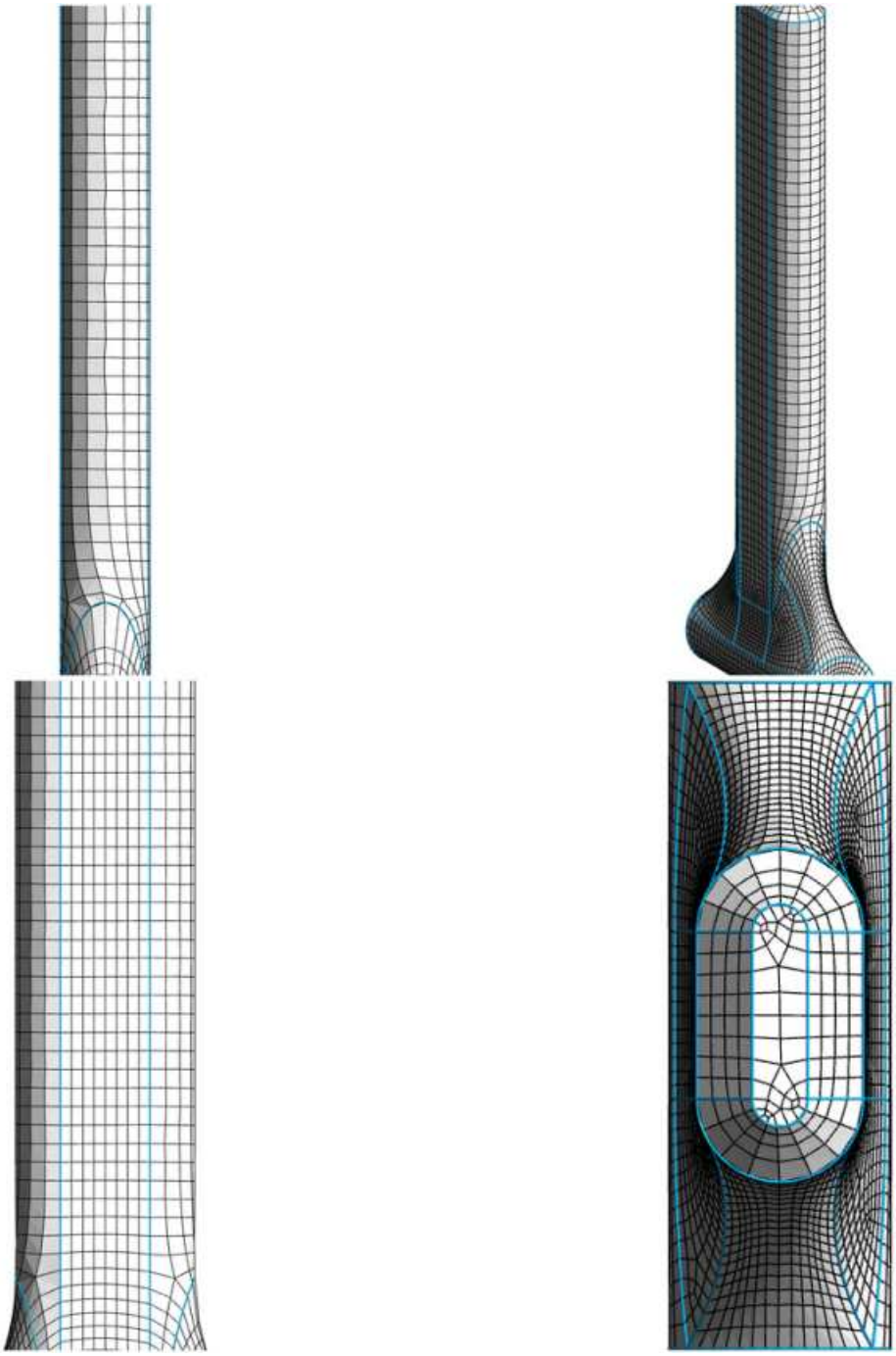


Model: 00003821 (from ABC dataset)
CAD: 26 corners, 45 curves, 21 faces
Cross field: 16 singularities detected
Timings: 8.21869 sec to generate the unstructured mesh, 3.02418 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7084	7850	159	91
Quasi-structured	7311	8077	60	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0342991	0.18581	0.591249	0.119084	0.937792	0.99423
Quasi-structured	0.0509556	0.184068	0.956551	0.388005	0.951239	0.9879

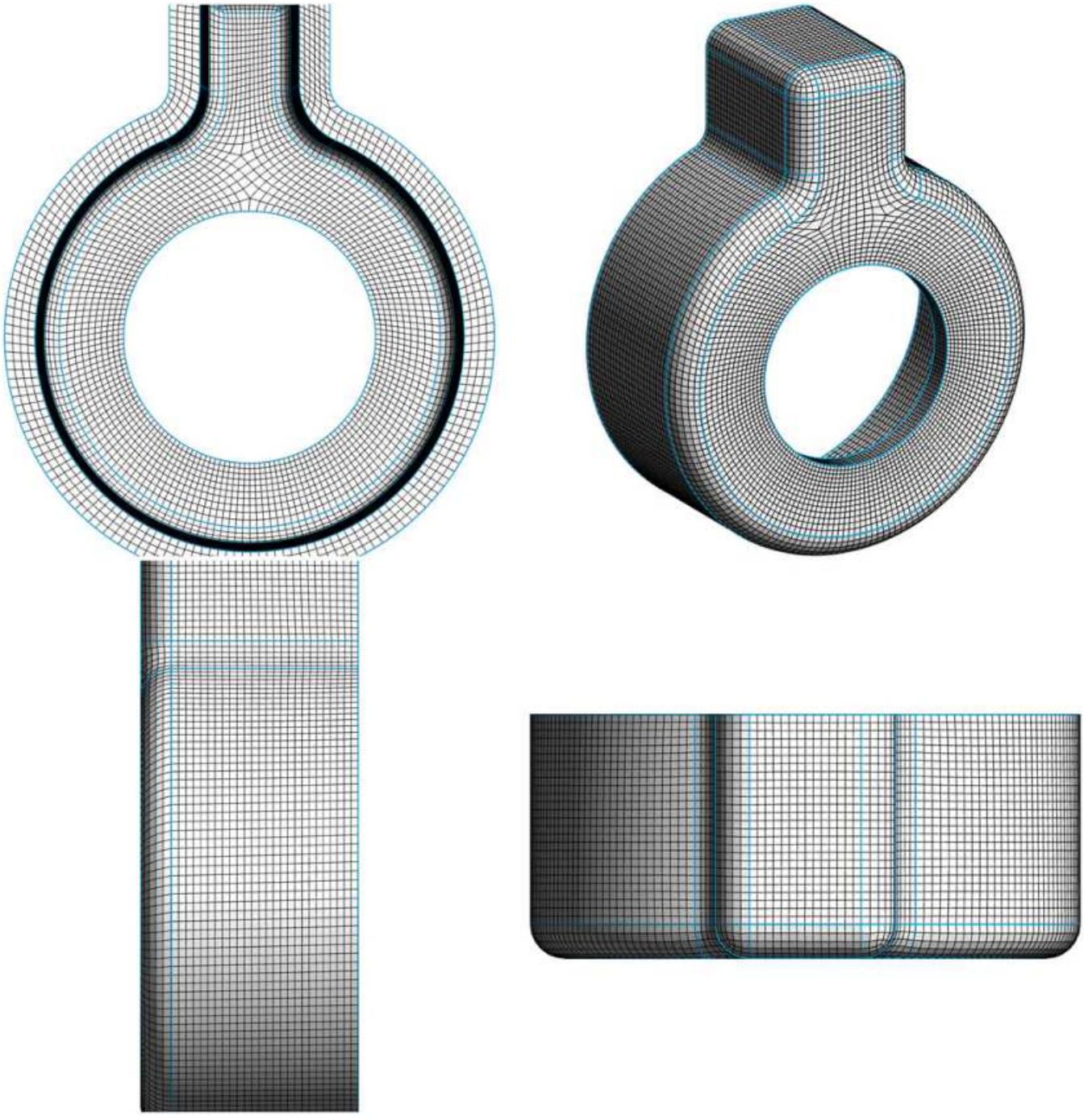


Model: 00003834 (from ABC dataset)
CAD: 47 corners, 84 curves, 36 faces
Cross field: 10 singularities detected
Timings: 11.1448 sec to generate the unstructured mesh, 1.90891 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18952	21086	128	9
Quasi-structured	19182	21316	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.307423	1.19495	2.53071	0.221452	0.977672	0.991152
Quasi-structured	0.287188	1.18953	3.54539	0.441107	0.97574	0.984586

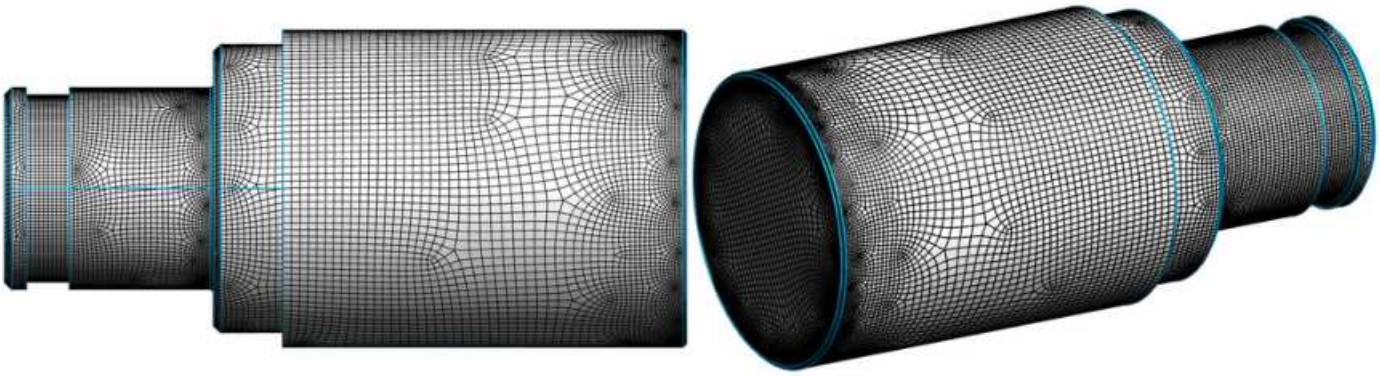


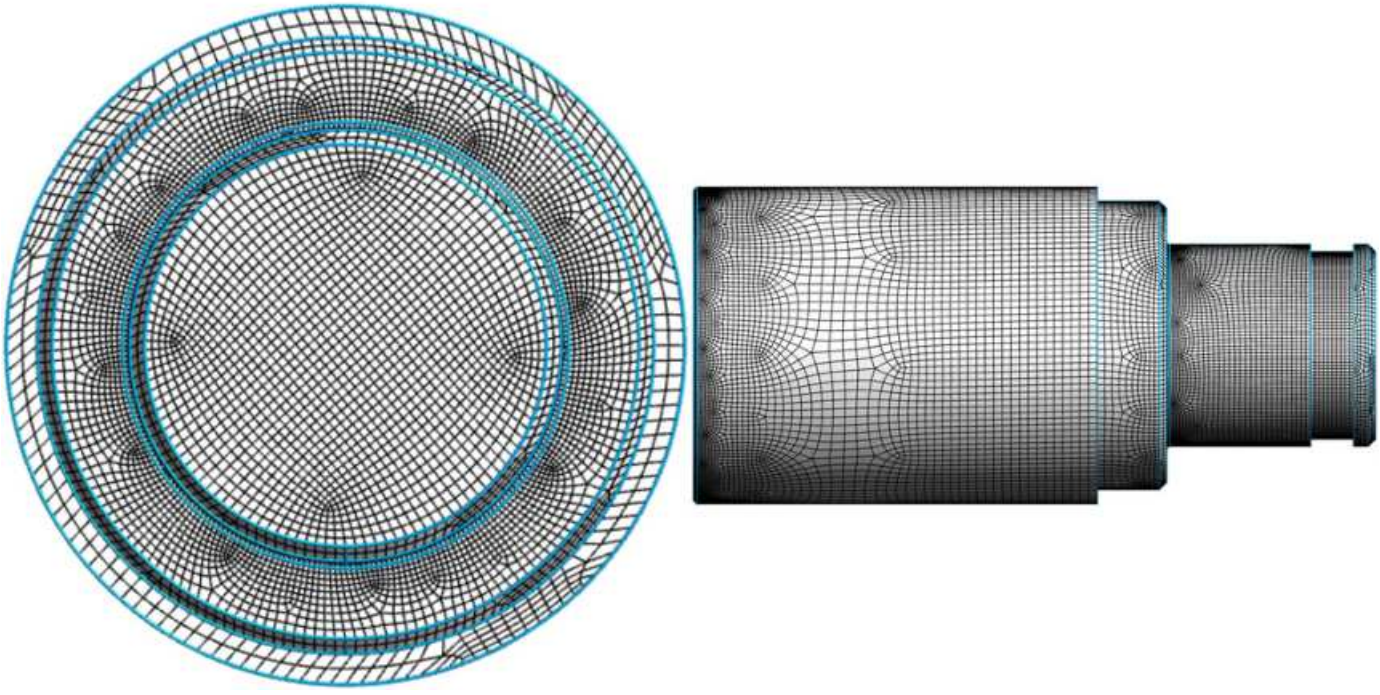
Model: 00003844 (from ABC dataset)
CAD: 18 corners, 27 curves, 15 faces
Cross field: 8 singularities detected
Timings: 14.3019 sec to generate the unstructured mesh, 113.261 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29990	32922	1063	164
Quasi-structured	30499	33431	350	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.20881	1.01921	3.6255	0.477187	0.943874	0.976275
Quasi-structured	0.212204	1.0041	3.97941	0.309923	0.968891	0.983552



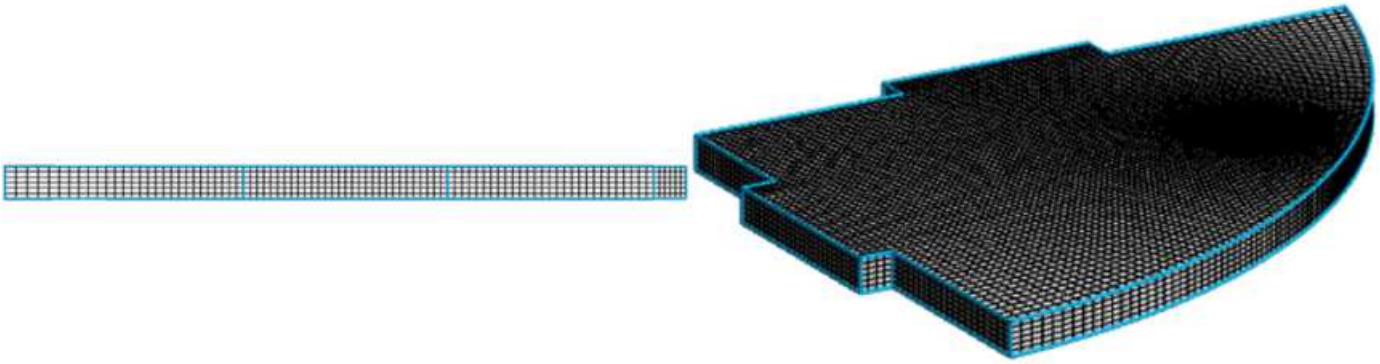


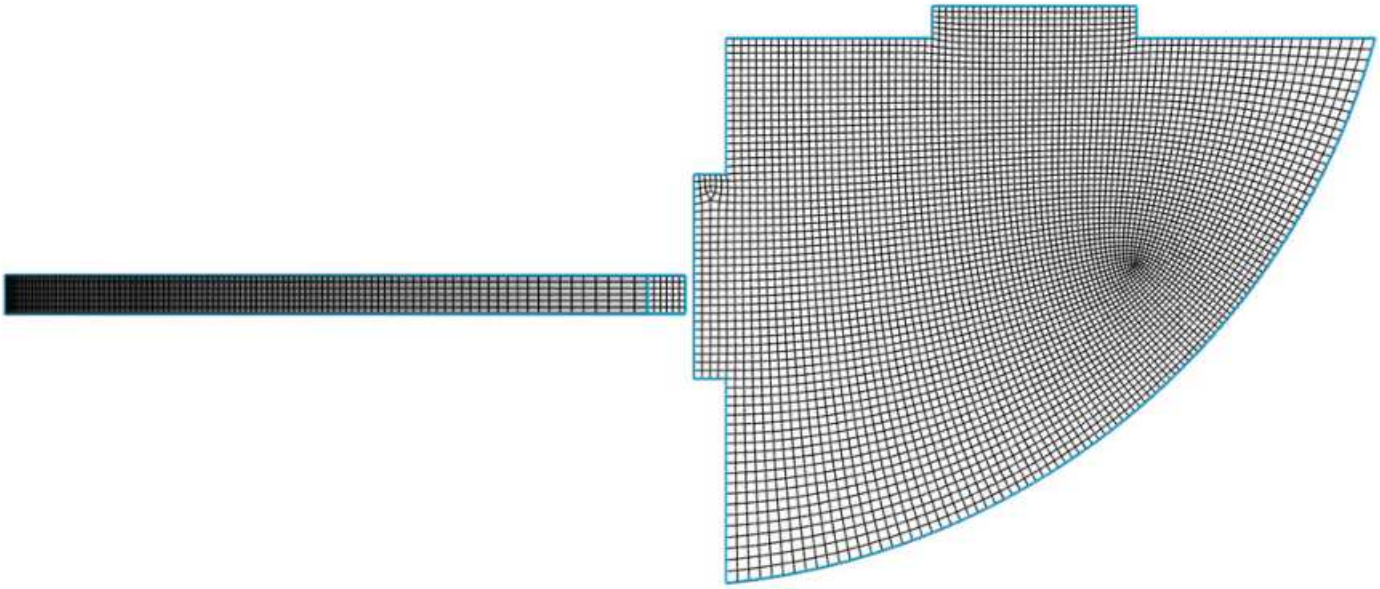
Model: 00003869 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 2 singularities detected
Timings: 10.0075 sec to generate the unstructured mesh, 2.06314 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11338	11969	72	2
Quasi-structured	12188	12819	6	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.190025	0.673308	1.39029	0.365538	0.978874	0.999006
Quasi-structured	0.162412	0.647322	1.07663	0.763577	0.986465	0.998093



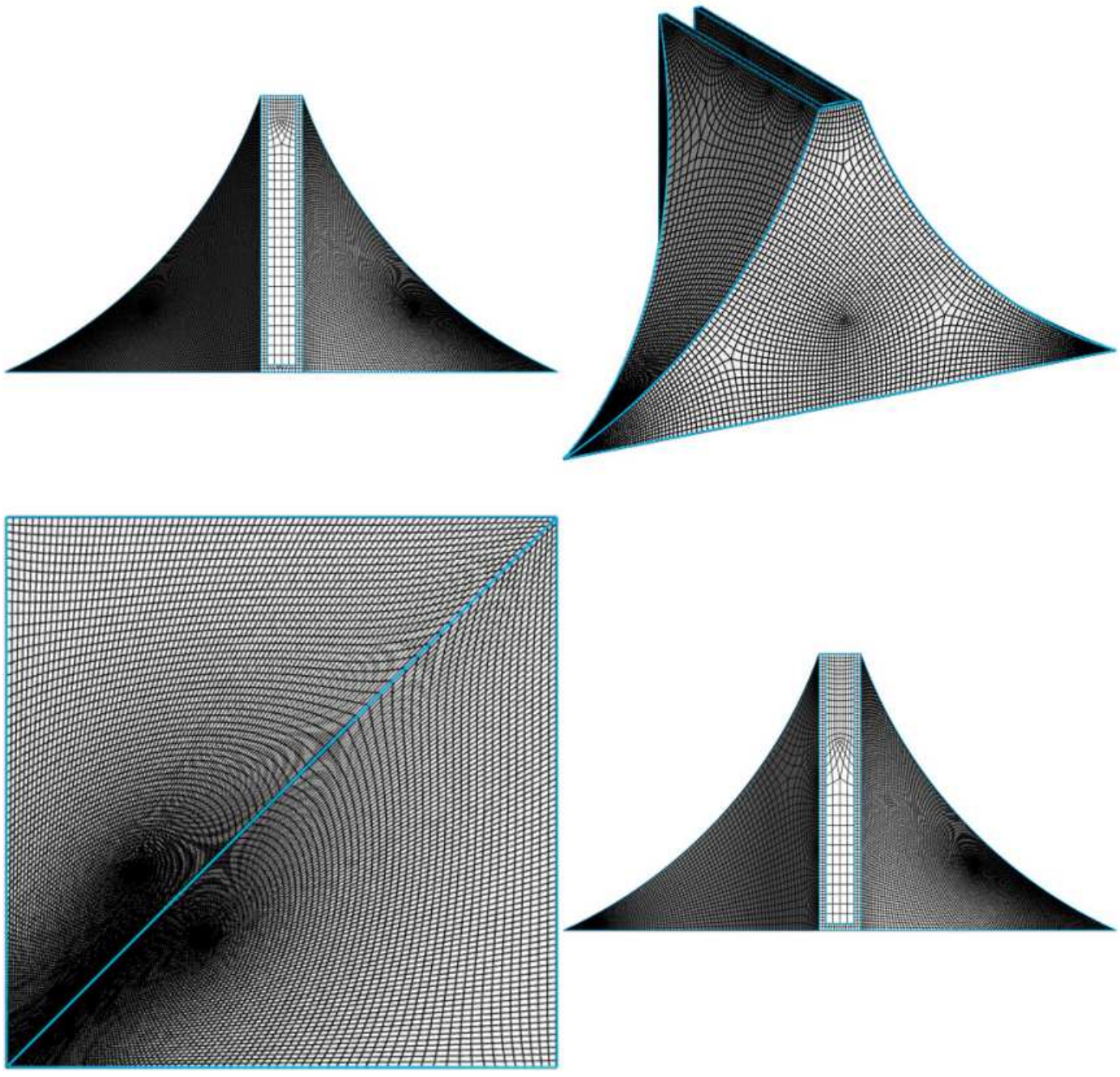


Model: 00003884 (from ABC dataset)
CAD: 16 corners, 26 curves, 12 faces
Cross field: 16 singularities detected
Timings: 12.0409 sec to generate the unstructured mesh, 12.6041 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18976	20624	706	40
Quasi-structured	35536	37184	78	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.117254	0.67918	2.21212	0.360743	0.956609	0.993832
Quasi-structured	0.0517119	0.52494	2.69447	0.240497	0.708454	0.7068



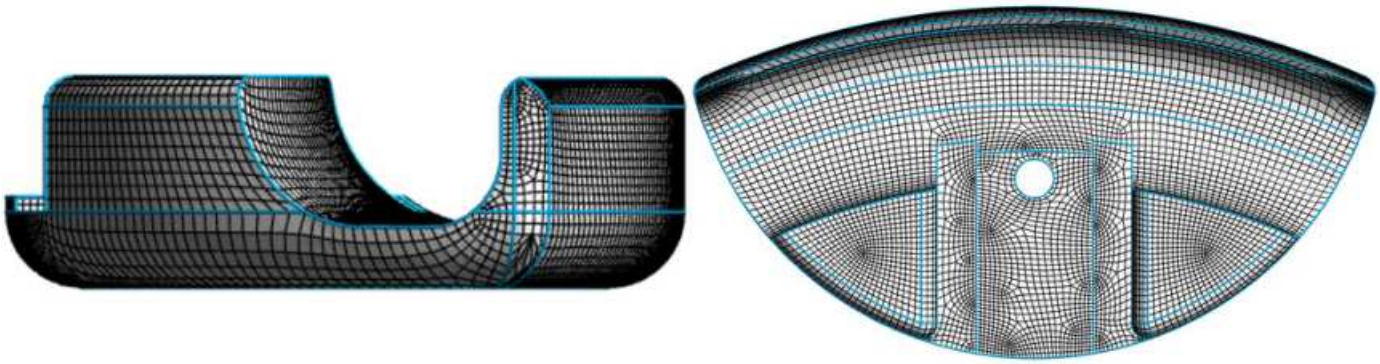
Model: 00003885 (from ABC dataset)
CAD: 57 corners, 97 curves, 39 faces
Cross field: 40 singularities detected
Timings: 9.78578 sec to generate the unstructured mesh, 6.87042 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13724	15742	531	22
Quasi-structured	14387	16405	166	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0629682	0.813344	2.8294	-0.53489	0.872059	0.954809
Quasi-structured	0.0713485	0.789651	3.01878	0.0809631	0.89585	0.965465



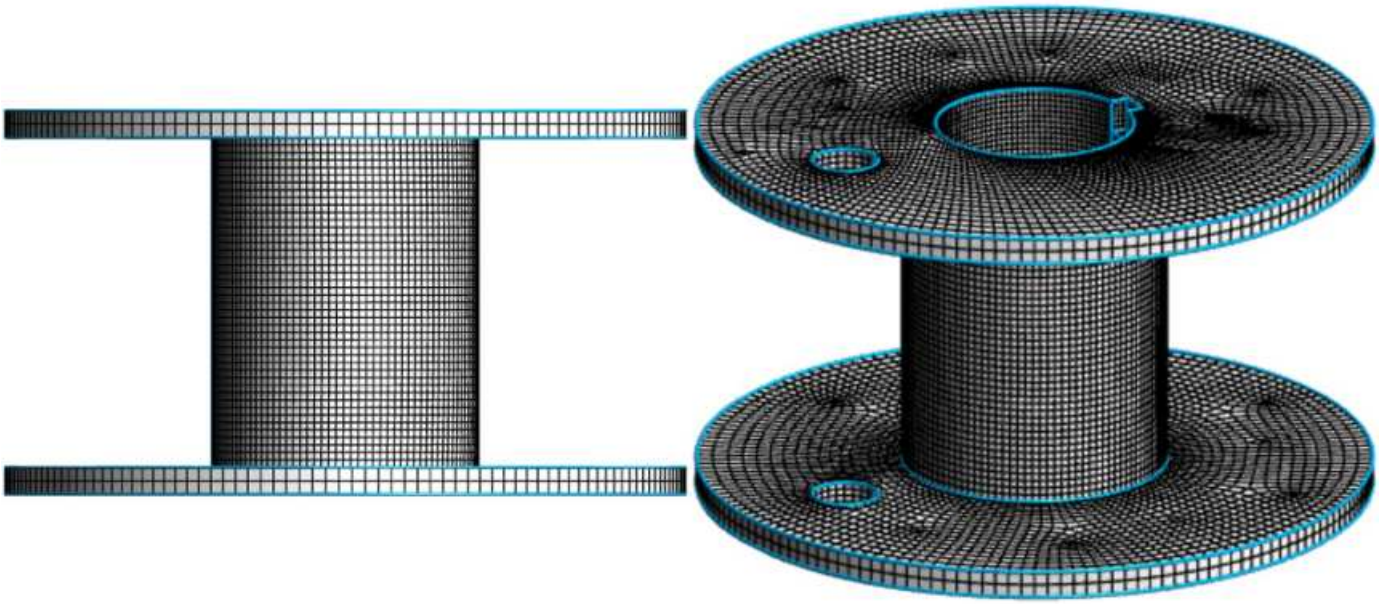


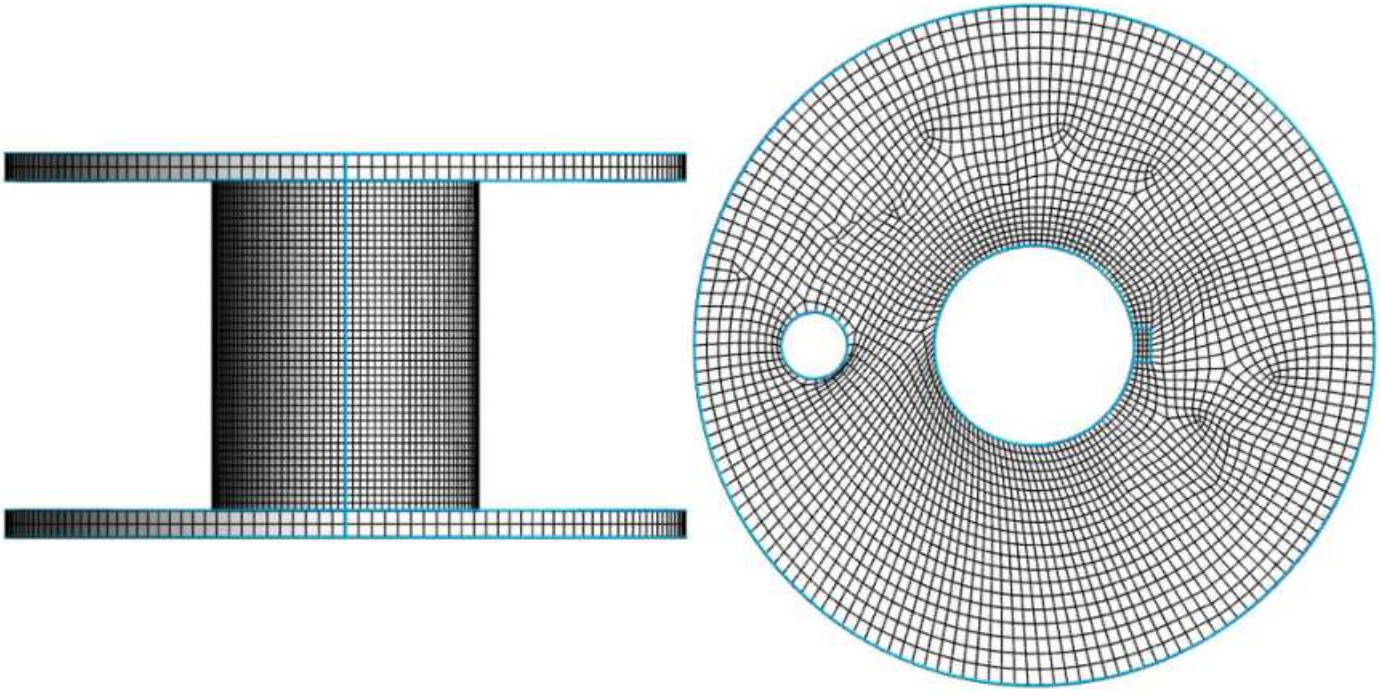
Model: 00003891 (from ABC dataset)
CAD: 20 corners, 30 curves, 14 faces
Cross field: 16 singularities detected
Timings: 13.8659 sec to generate the unstructured mesh, 7.46749 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24384	25636	267	119
Quasi-structured	24115	25367	96	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0650911	0.253717	0.626084	0.558442	0.975682	0.997895
Quasi-structured	0.0450761	0.255811	0.686001	0.29393	0.983575	0.998505



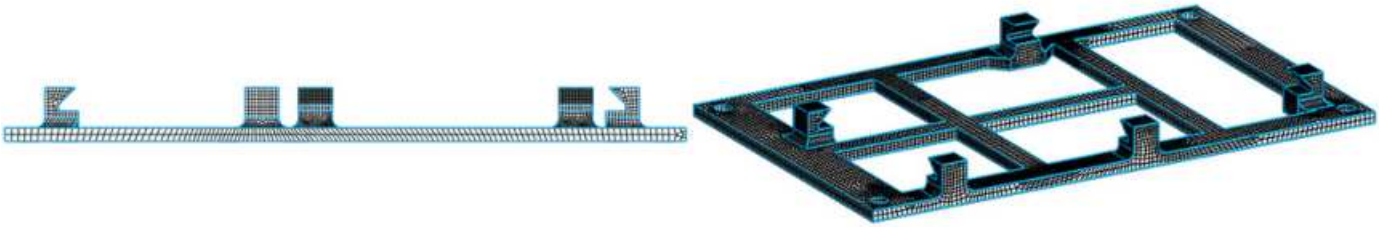


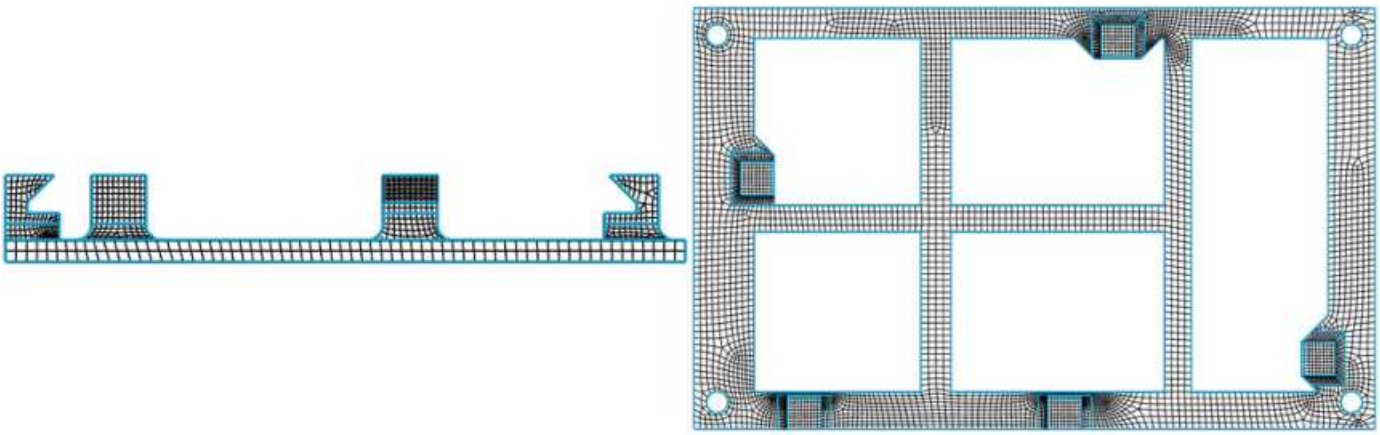
Model: 00003916 (from ABC dataset)
CAD: 161 corners, 246 curves, 87 faces
Cross field: 77 singularities detected
Timings: 7.09936 sec to generate the unstructured mesh, 8.02013 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14544	18123	770	51
Quasi-structured	14916	18495	382	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0453611	0.697988	1.68454	0.0123299	0.921482	0.970522
Quasi-structured	0.00918384	0.688629	2.08643	0.0687289	0.93501	0.975986



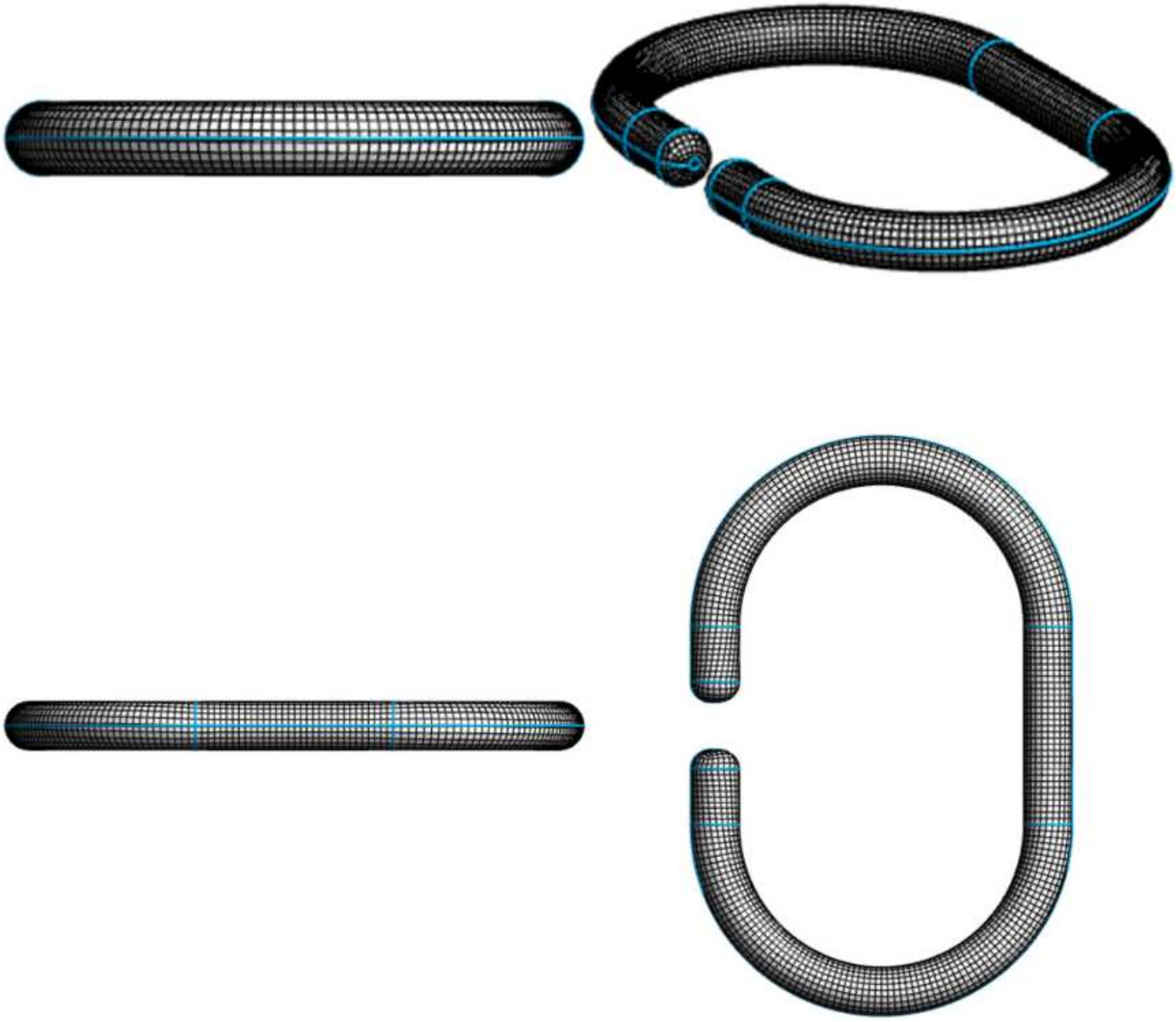


Model: 00003937 (from ABC dataset)
CAD: 8 corners, 15 curves, 9 faces
Cross field: 16 singularities detected
Timings: 4.74026 sec to generate the unstructured mesh, 0.6304 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5466	5638	83	232
Quasi-structured	5523	5695	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0884435	0.642282	1.377	0.0786242	0.978204	0.997587
Quasi-structured	0.0874958	0.636667	0.833118	0.641084	0.99342	0.998841

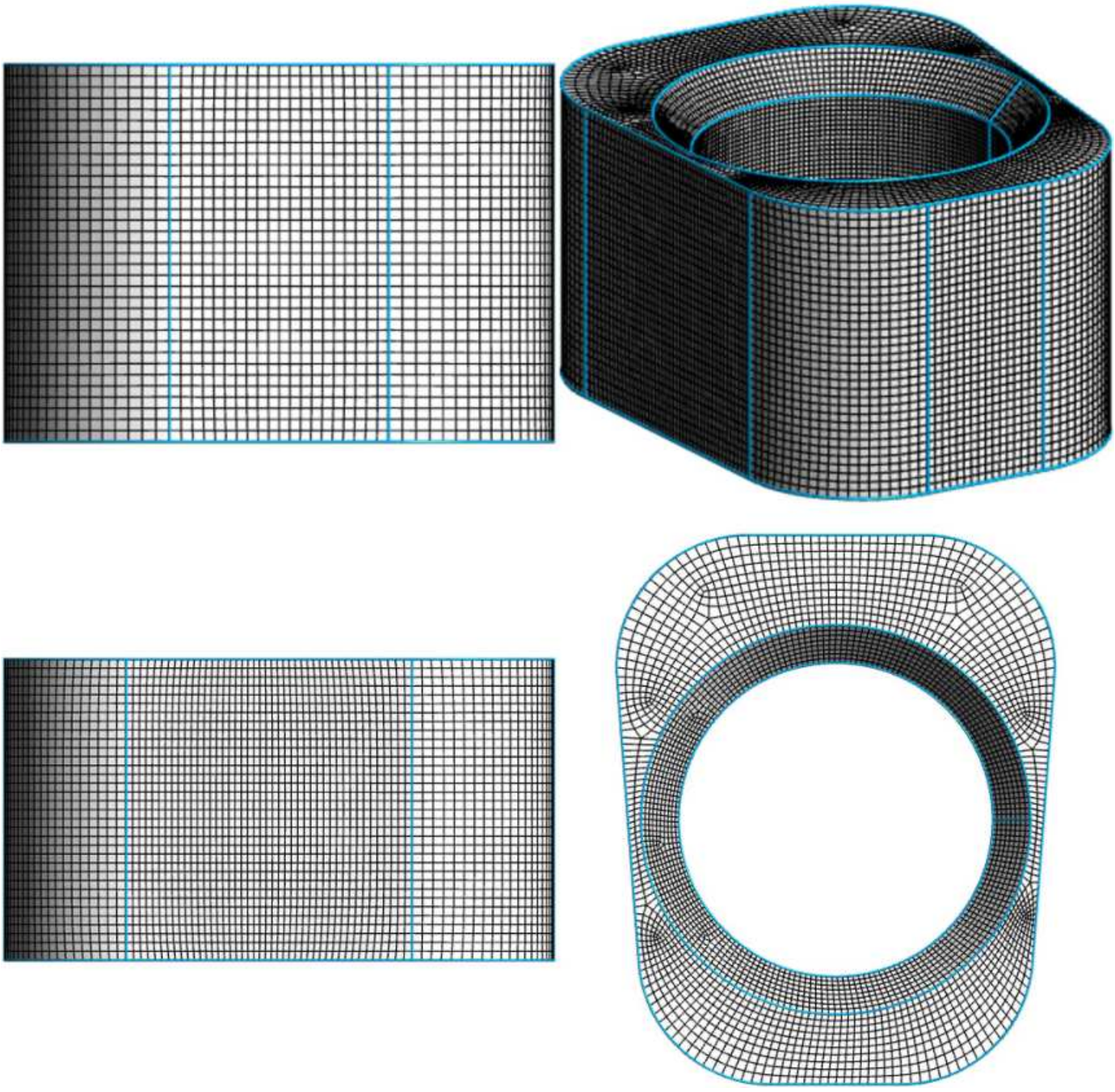


Model: 00003940 (from ABC dataset)
CAD: 20 corners, 31 curves, 13 faces
Cross field: 0 singularities detected
Timings: 16.9631 sec to generate the unstructured mesh, 5.20166 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21996	23456	144	63
Quasi-structured	22122	23582	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0926195	0.35647	0.658808	0.527205	0.980431	0.998435
Quasi-structured	0.0682275	0.355189	1.03947	0.406621	0.977954	0.996898

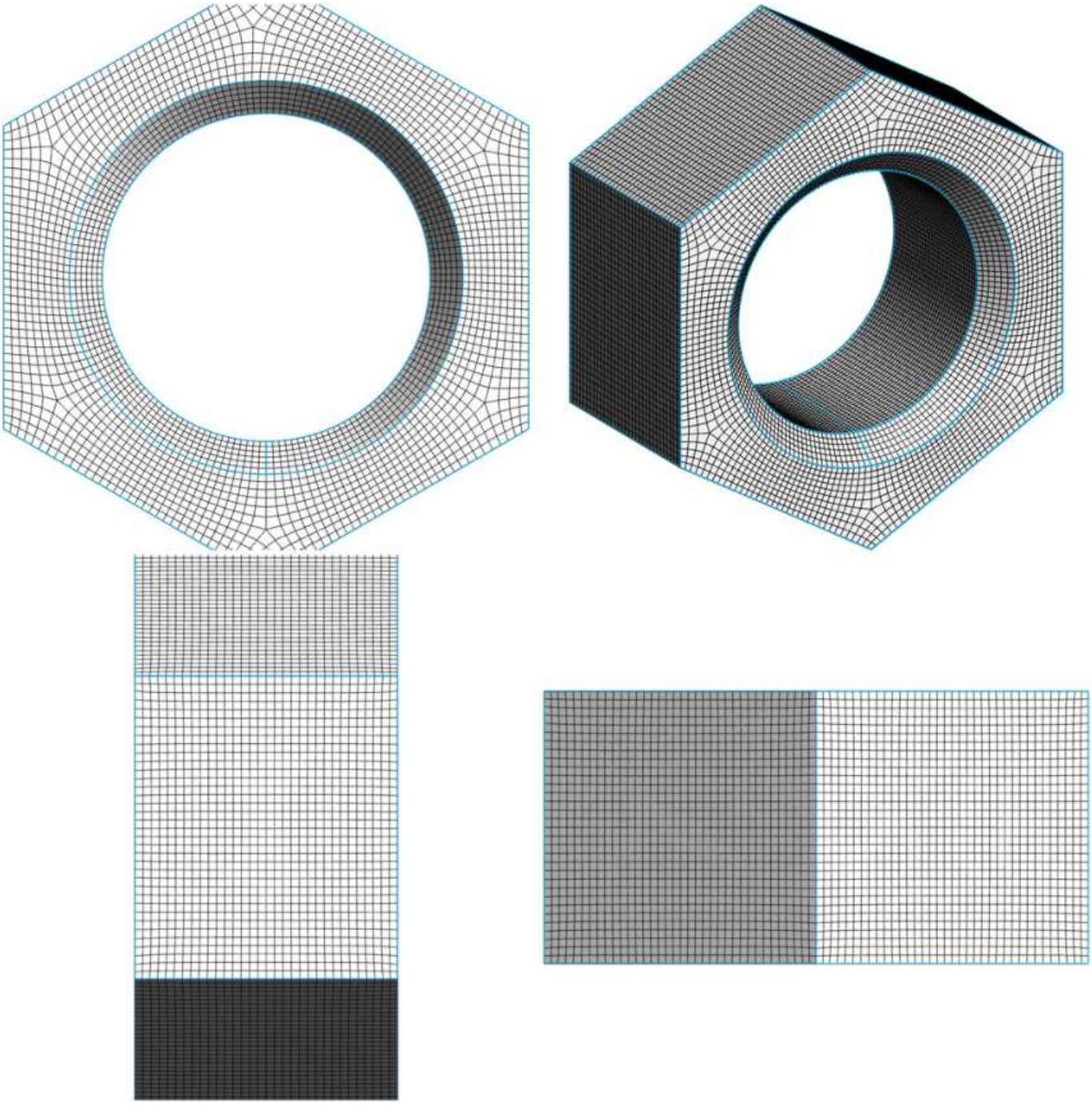


Model: 00003957 (from ABC dataset)
CAD: 16 corners, 25 curves, 11 faces
Cross field: 12 singularities detected
Timings: 7.77767 sec to generate the unstructured mesh, 0.909771 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17494	18788	120	45
Quasi-structured	17586	18880	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0708397	0.230727	0.431903	0.579255	0.988954	0.999285
Quasi-structured	0.182934	0.229984	0.545857	0.810506	0.994966	0.999682

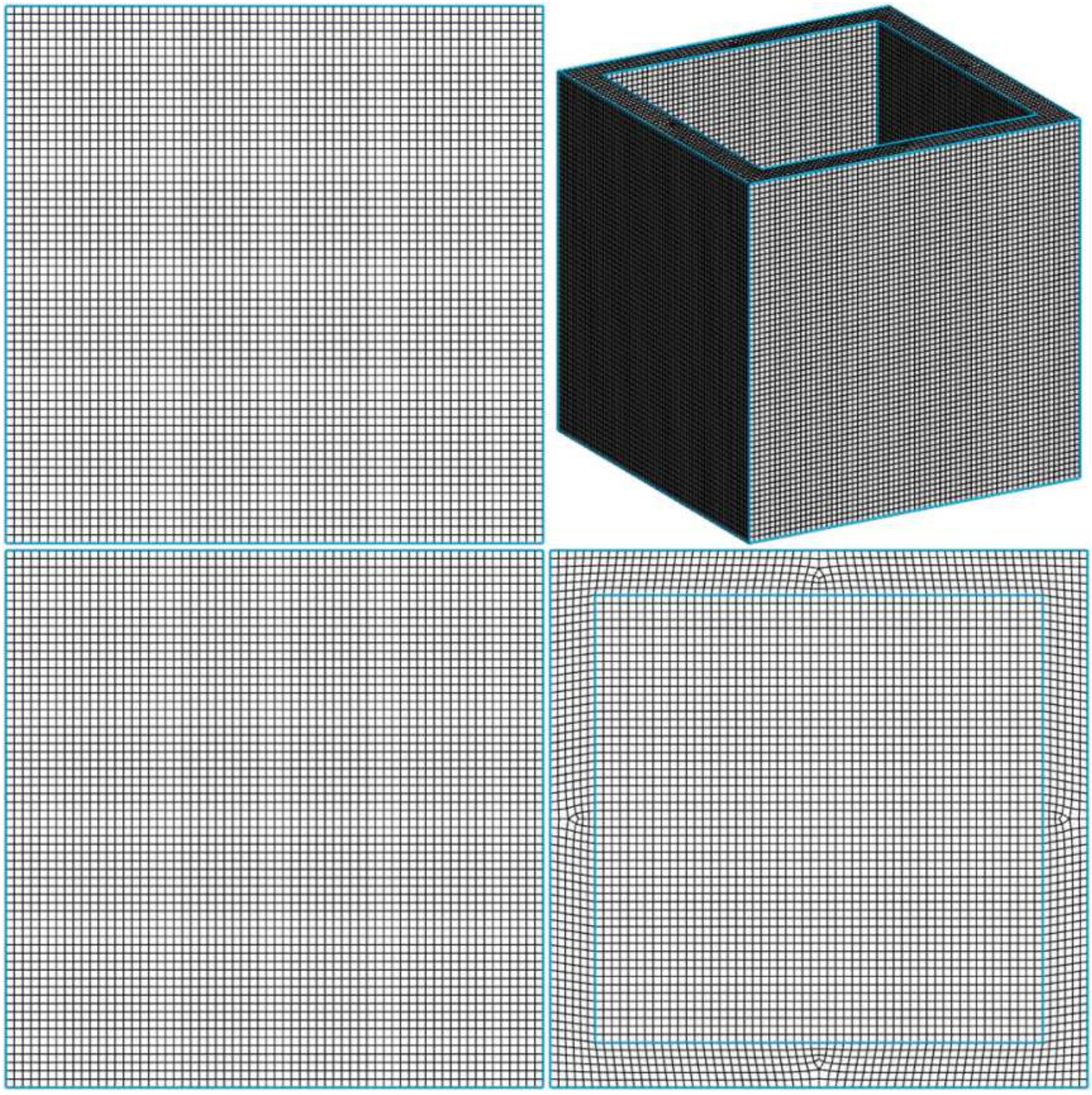


Model: 00003963 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 34.2188 sec to generate the unstructured mesh, 2.30363 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37776	39226	8	0
Quasi-structured	37776	39226	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.167741	0.371792	0.408617	0.7836	0.998012	1
Quasi-structured	0.208507	0.371638	0.471297	0.821661	0.999295	1

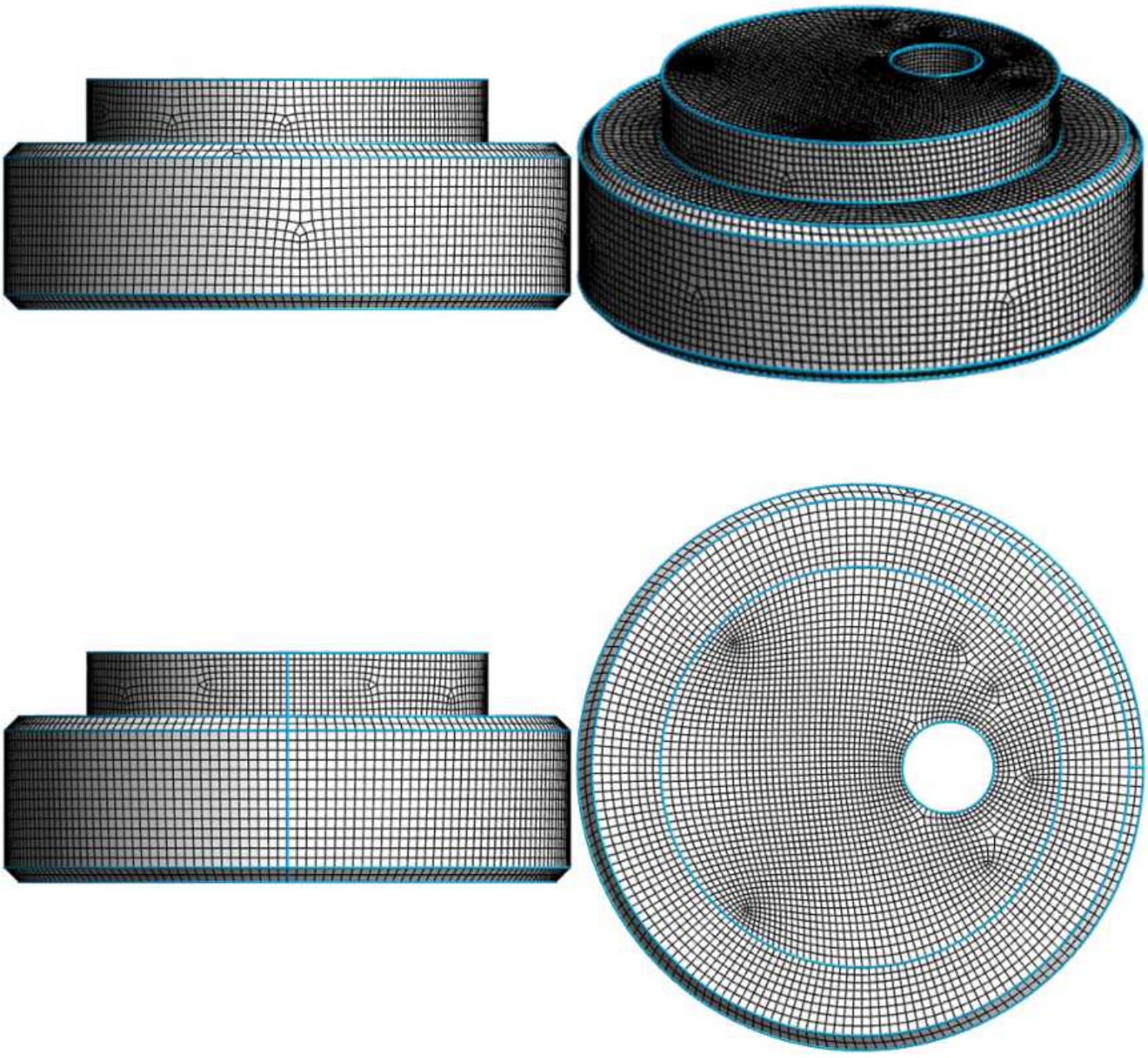


Model: 00003971 (from ABC dataset)
CAD: 21 corners, 32 curves, 15 faces
Cross field: 16 singularities detected
Timings: 8.96841 sec to generate the unstructured mesh, 2.13184 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16486	17924	200	64
Quasi-structured	16168	17606	60	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.096312	0.514462	0.995462	0.433417	0.979836	0.996264
Quasi-structured	0.160593	0.518686	1.12365	0.646205	0.991304	0.996968

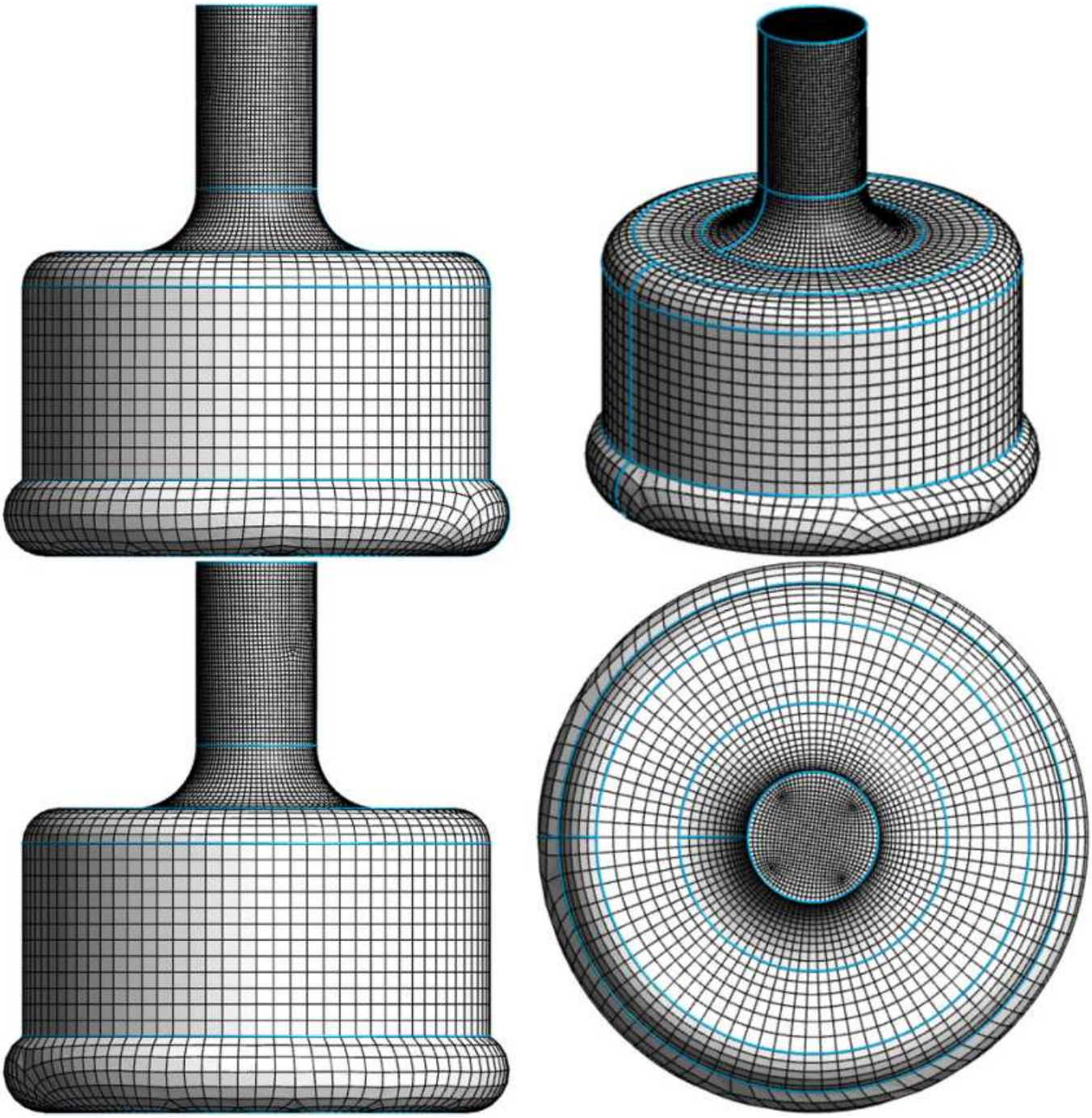


Model: 00003974 (from ABC dataset)
CAD: 16 corners, 26 curves, 16 faces
Cross field: 8 singularities detected
Timings: 15.621 sec to generate the unstructured mesh, 29.193 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21470	23040	357	208
Quasi-structured	21497	23067	158	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0784348	1.09046	4.02736	0.0202019	0.942923	0.995846
Quasi-structured	0.193072	1.08587	4.87646	0.333483	0.974707	0.998132



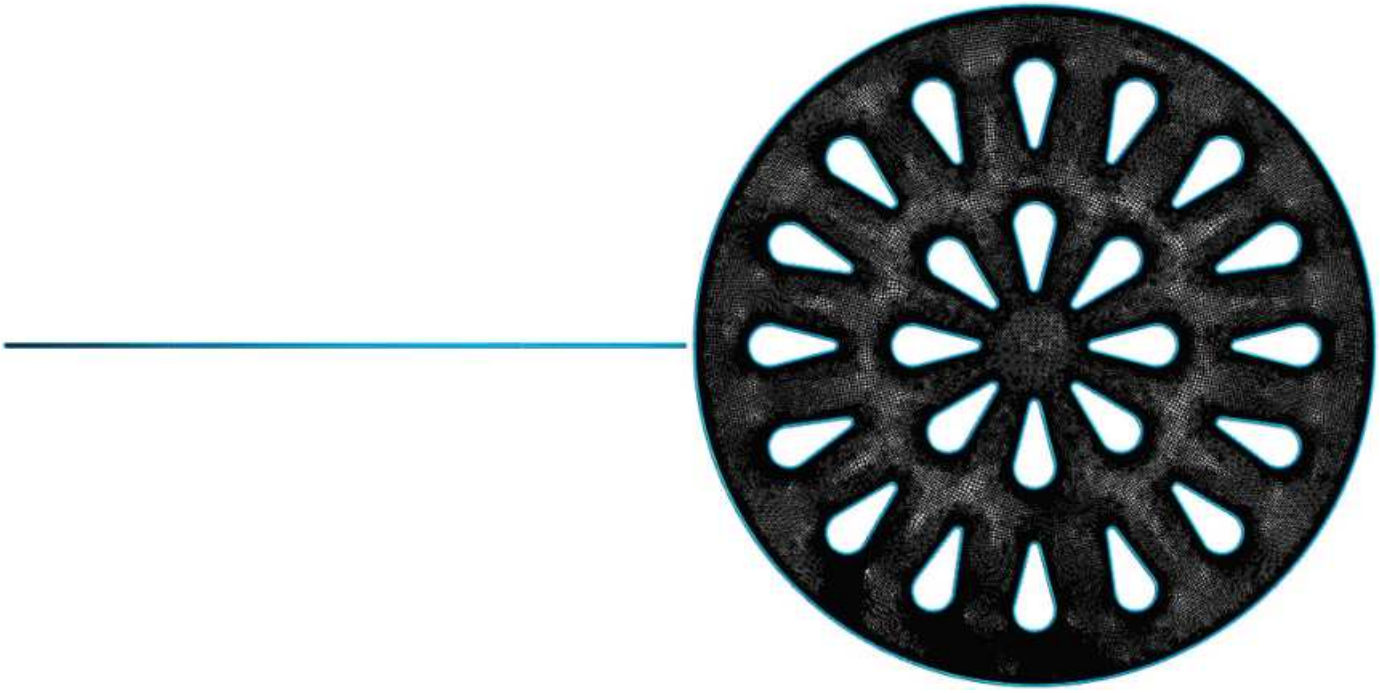
Model: 00003987 (from ABC dataset)
CAD: 194 corners, 291 curves, 99 faces
Cross field: 184 singularities detected
Timings: 63.3401 sec to generate the unstructured mesh, 268.502 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	194662	208976	10439	546
Quasi-structured	197900	212214	6594	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.272208	1.60752	5.55494	0.261247	0.938812	0.978961
Quasi-structured	0.186501	1.61339	7.93692	0.114084	0.949742	0.98045





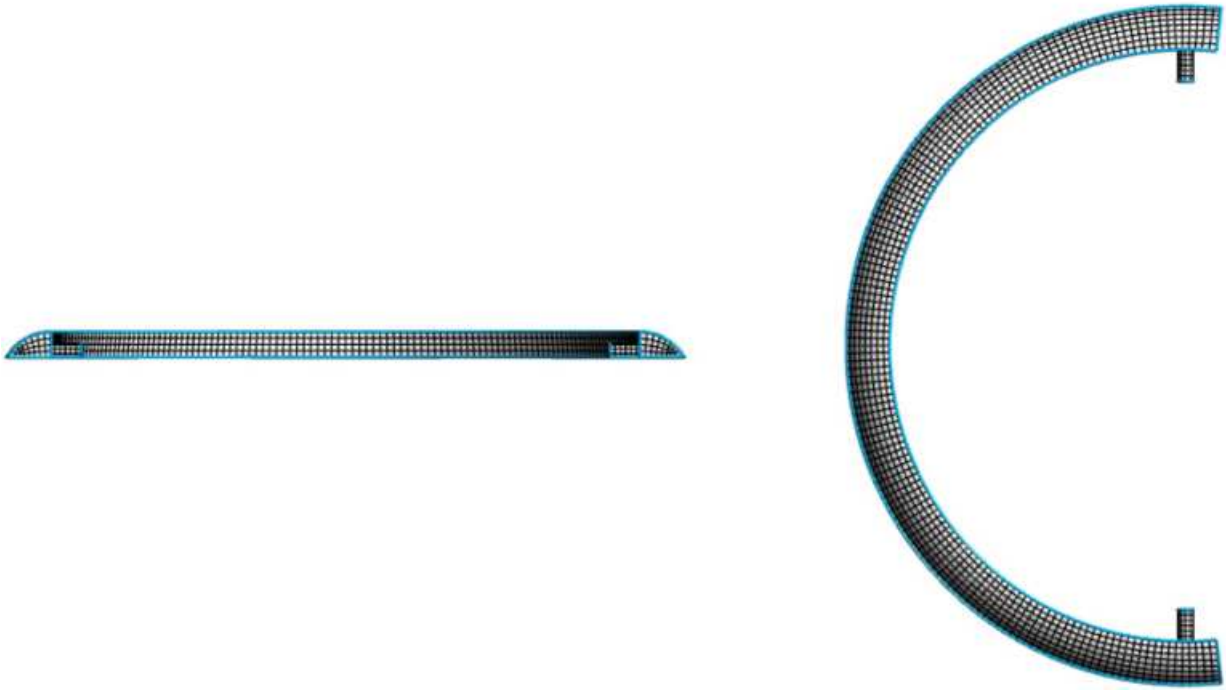
Model: 00003990 (from ABC dataset)
CAD: 14 corners, 21 curves, 9 faces
Cross field: 8 singularities detected
Timings: 2.2211 sec to generate the unstructured mesh, 0.41694 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	2786	3327	34	0
Quasi-structured	3092	3633	14	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.353378	1.22996	1.66063	0.2032	0.973629	0.993696
Quasi-structured	0.355798	1.1679	1.40921	0.640203	0.968948	0.986049



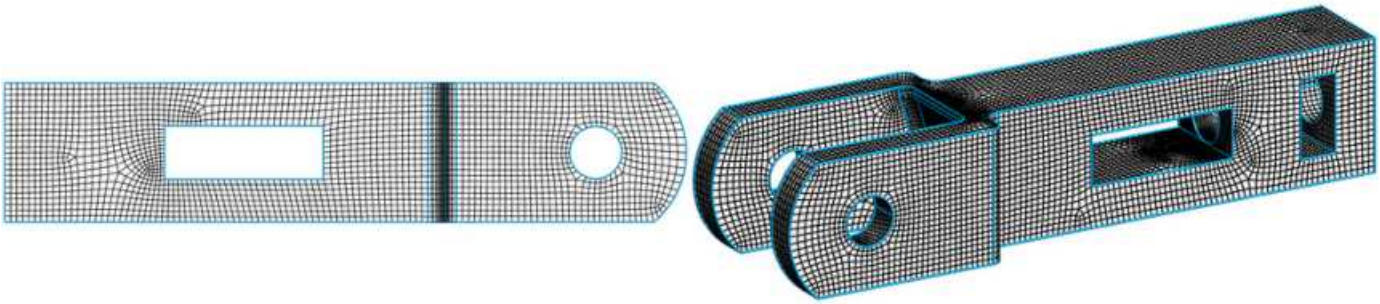


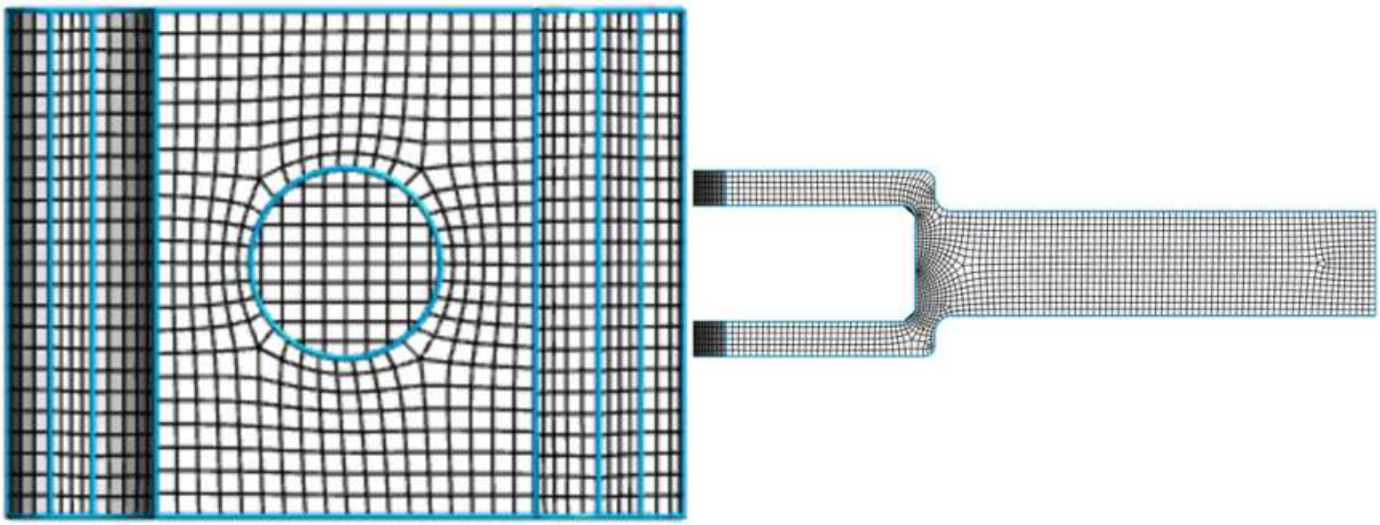
Model: 00004017 (from ABC dataset)
CAD: 78 corners, 125 curves, 46 faces
Cross field: 54 singularities detected
Timings: 10.5208 sec to generate the unstructured mesh, 9.54929 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20656	23021	836	90
Quasi-structured	20189	22554	200	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.012626	0.384365	0.923316	0.0504297	0.936015	0.975486
Quasi-structured	0.012446	0.391307	1.00865	0.0582776	0.955892	0.985548



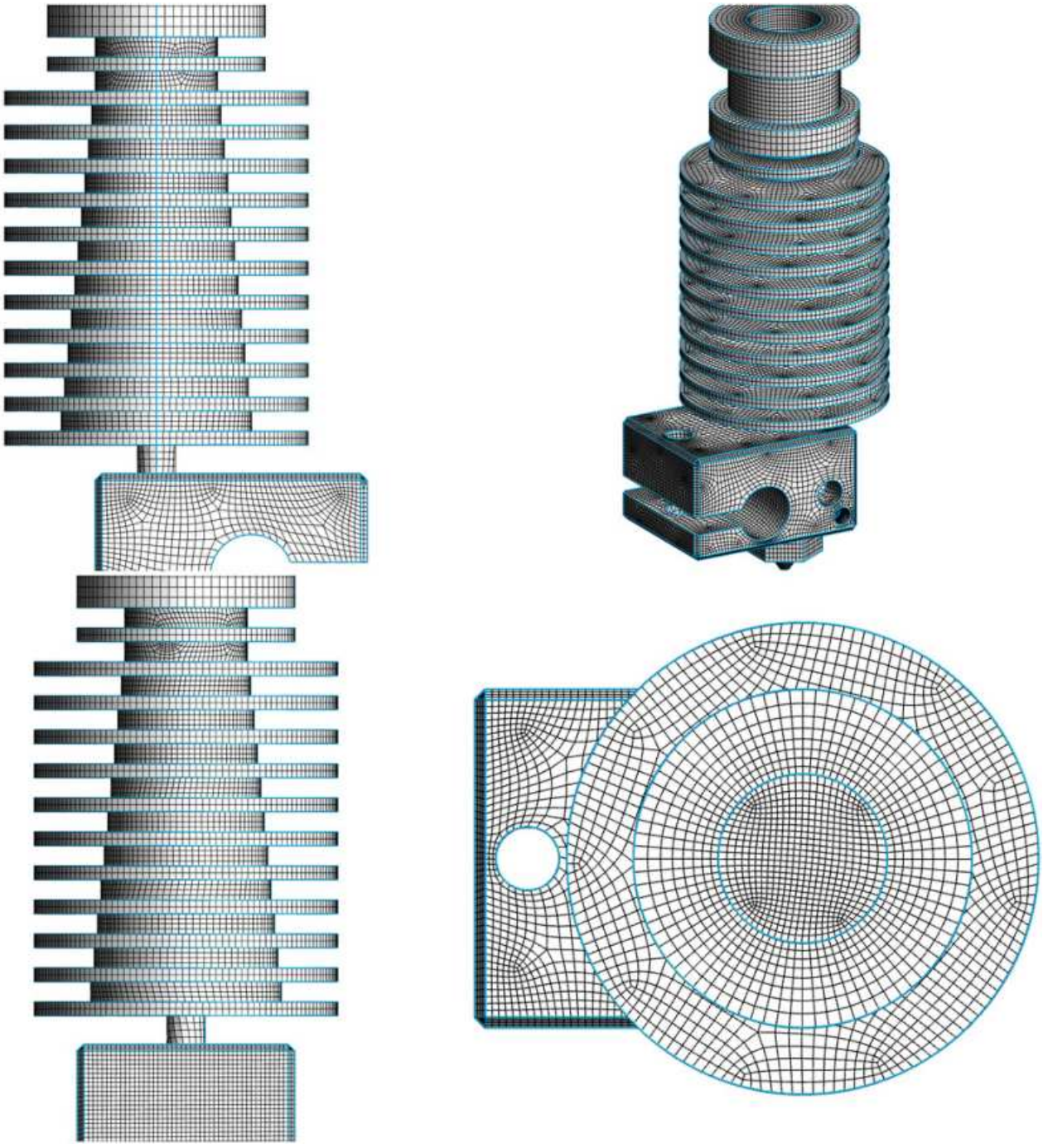


Model: 00004018 (from ABC dataset)
CAD: 122 corners, 195 curves, 111 faces
Cross field: 82 singularities detected
Timings: 20.2528 sec to generate the unstructured mesh, 37.5074 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	49772	57720	2185	330
Quasi-structured	51588	59536	711	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00492398	0.46677	1.13018	0.0276048	0.939349	0.984247
Quasi-structured	0.00492398	0.457861	1.16614	0.0276048	0.96248	0.981385

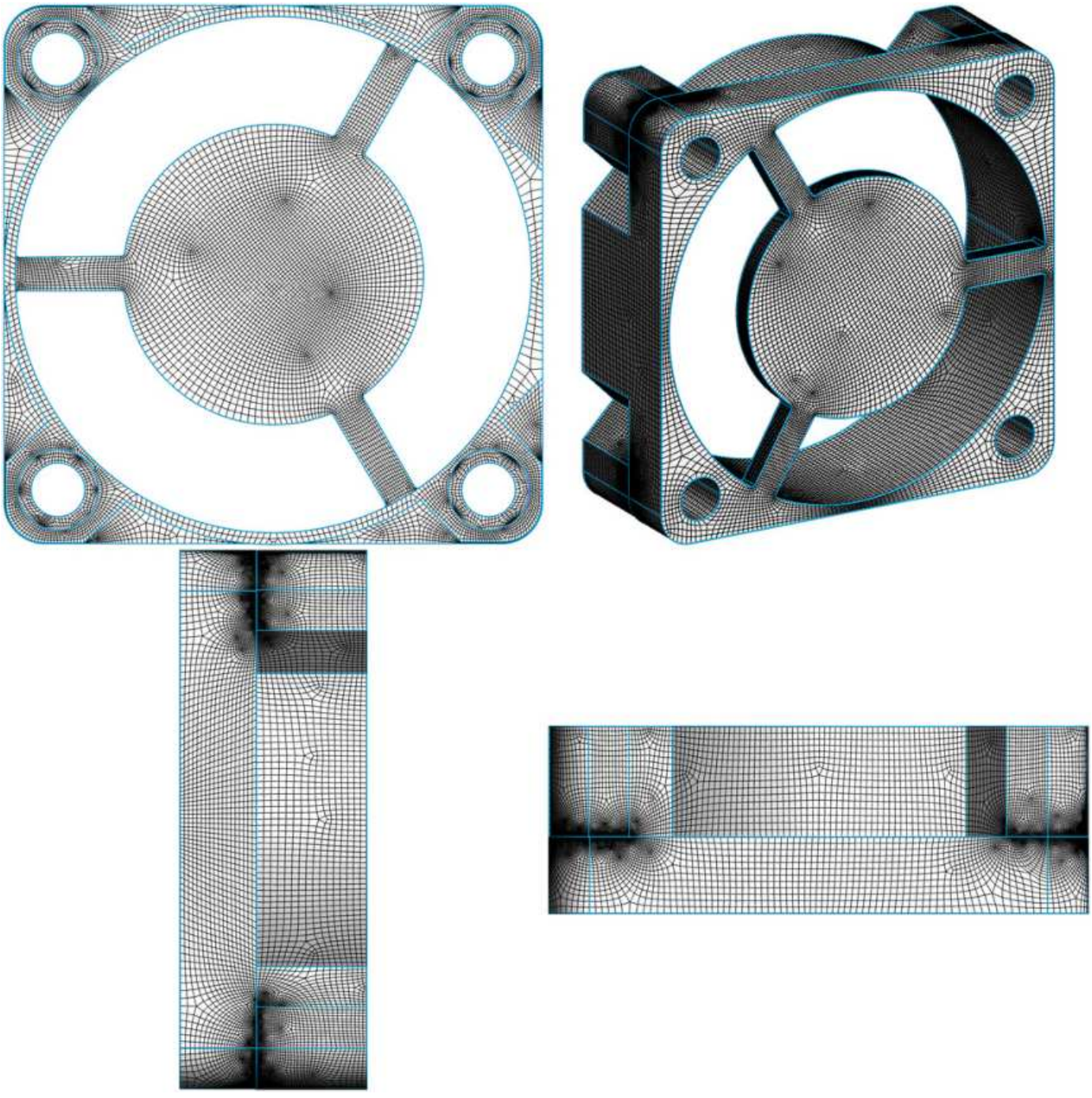


Model: 00004023 (from ABC dataset)
CAD: 156 corners, 236 curves, 84 faces
Cross field: 74 singularities detected
Timings: 19.5912 sec to generate the unstructured mesh, 74.8325 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	77626	85526	4123	130
Quasi-structured	80068	87968	990	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00822056	0.185416	0.714461	6.29903e-05	0.927452	0.971215
Quasi-structured	0.0103281	0.183165	1.26953	0.0103266	0.947591	0.98147

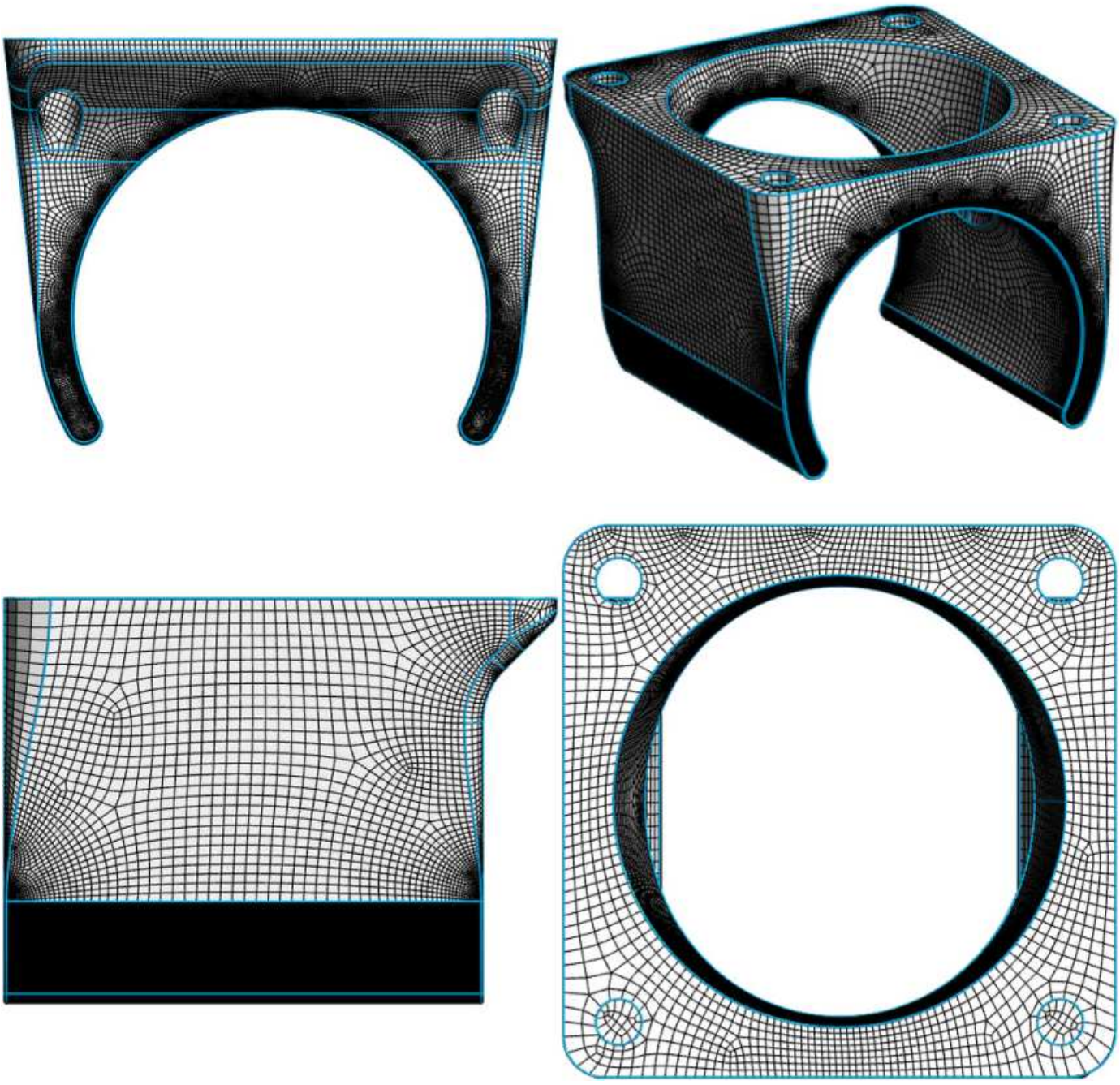


Model: 00004025 (from ABC dataset)
CAD: 75 corners, 124 curves, 51 faces
Cross field: 49 singularities detected
Timings: 20.2339 sec to generate the unstructured mesh, 251.54 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	77094	83450	3421	313
Quasi-structured	78598	84954	1432	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00760134	0.181066	1.21895	0.172818	0.81987	0.935548
Quasi-structured	0.00455443	0.178501	1.37797	0.189955	0.851252	0.962999

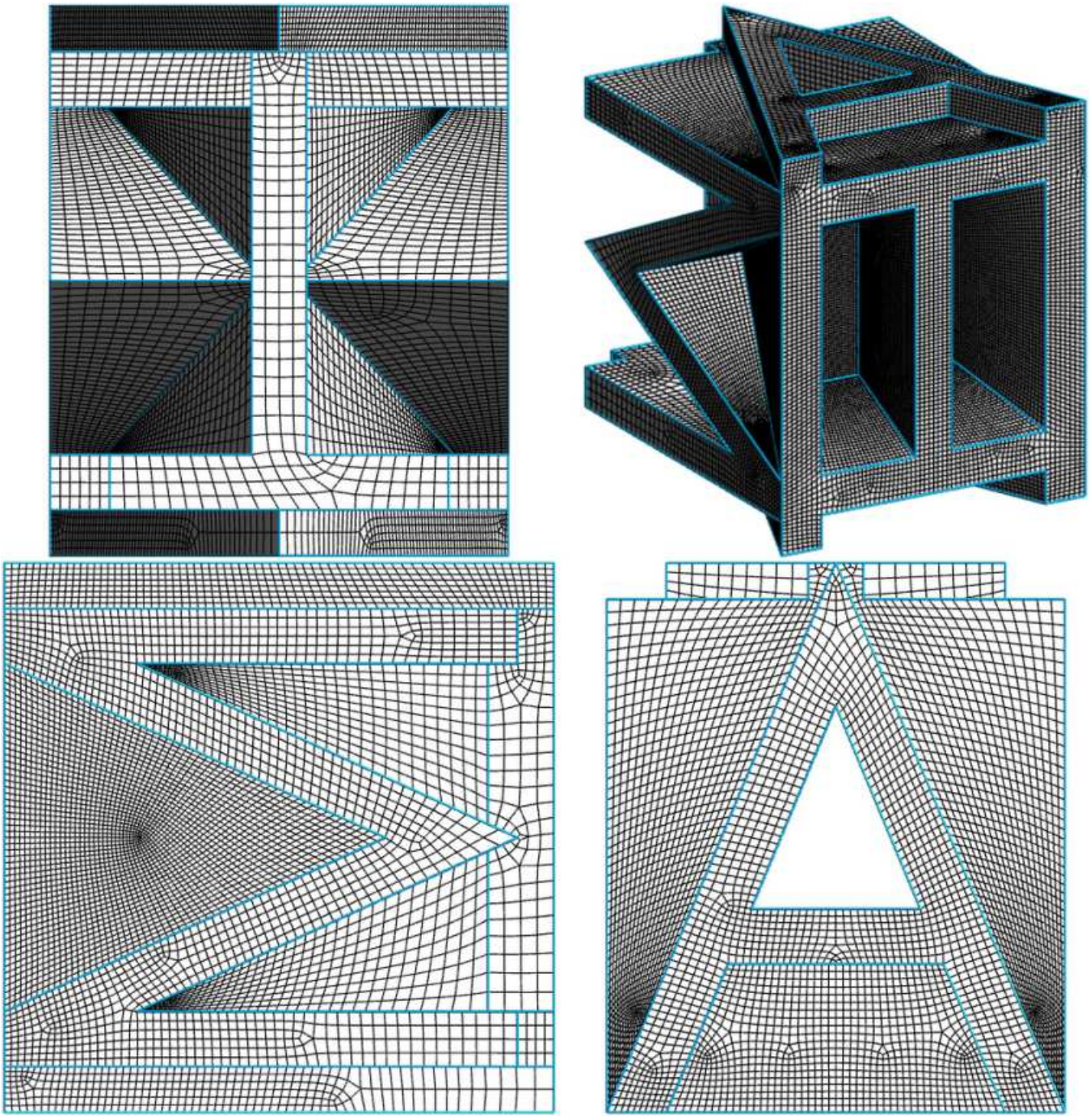


Model: 00004035 (from ABC dataset)
CAD: 126 corners, 195 curves, 81 faces
Cross field: 22 singularities detected
Timings: 25.6021 sec to generate the unstructured mesh, 6.59176 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	43888	48563	837	12
Quasi-structured	50484	55159	155	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0543713	0.388539	1.58218	0.354402	0.963188	0.989074
Quasi-structured	0.0417798	0.369239	1.40993	0.311541	0.927181	0.980514



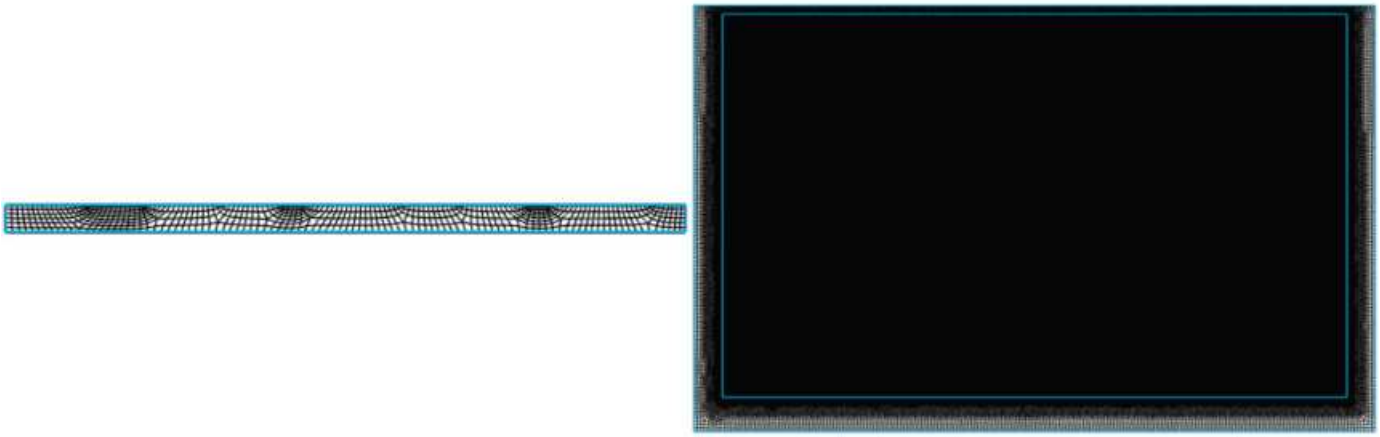
Model: 00004040 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 40.1988 sec to generate the unstructured mesh, 809.225 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	1910882	1923774	4568	400
Quasi-structured	1912109	1925001	4354	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0212531	0.0715213	1.9387	0.320793	0.996754	1
Quasi-structured	0.0356018	0.0714718	2.13999	0.399876	0.998553	1





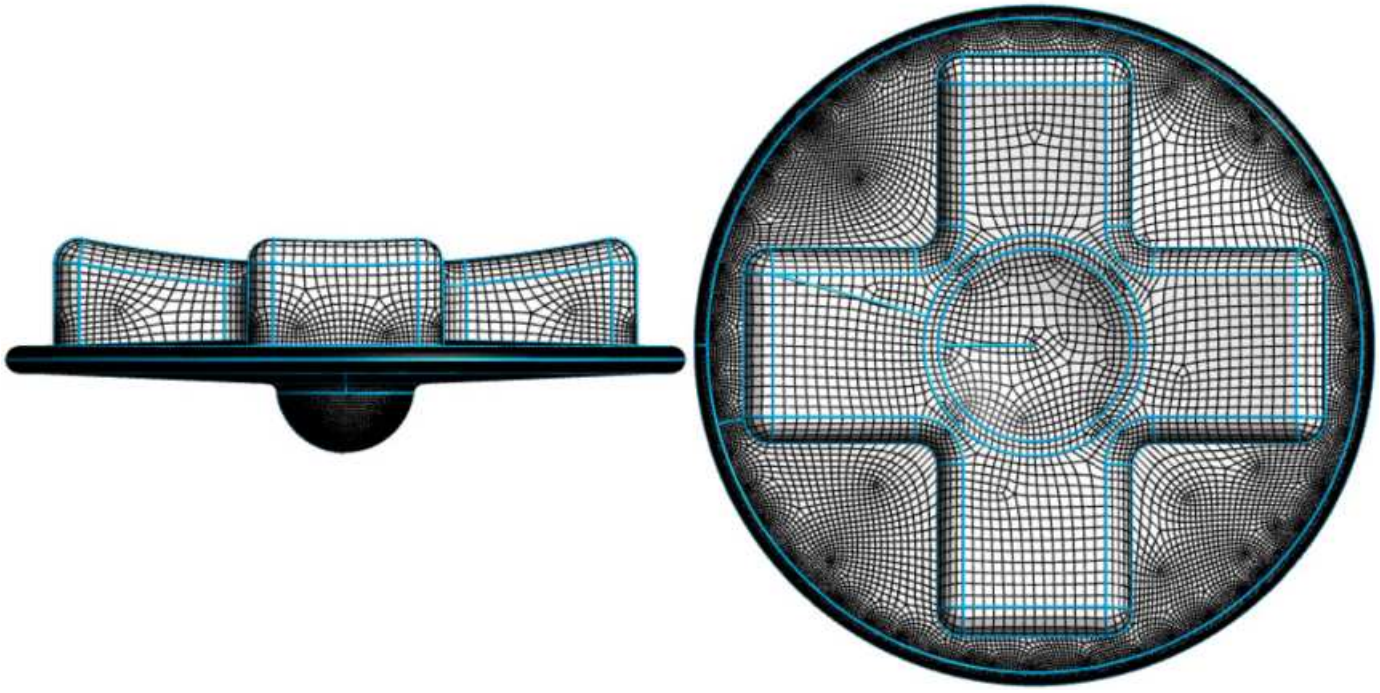
Model: 00004042 (from ABC dataset)
CAD: 80 corners, 146 curves, 58 faces
Cross field: 40 singularities detected
Timings: 25.6854 sec to generate the unstructured mesh, 2614.2 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	80884	89938	5380	560
Quasi-structured	82165	91219	4216	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0129765	0.105908	1.01322	0.0973081	0.891294	0.965563
Quasi-structured	0.0115594	0.103971	0.950276	0.143281	0.951141	0.97386



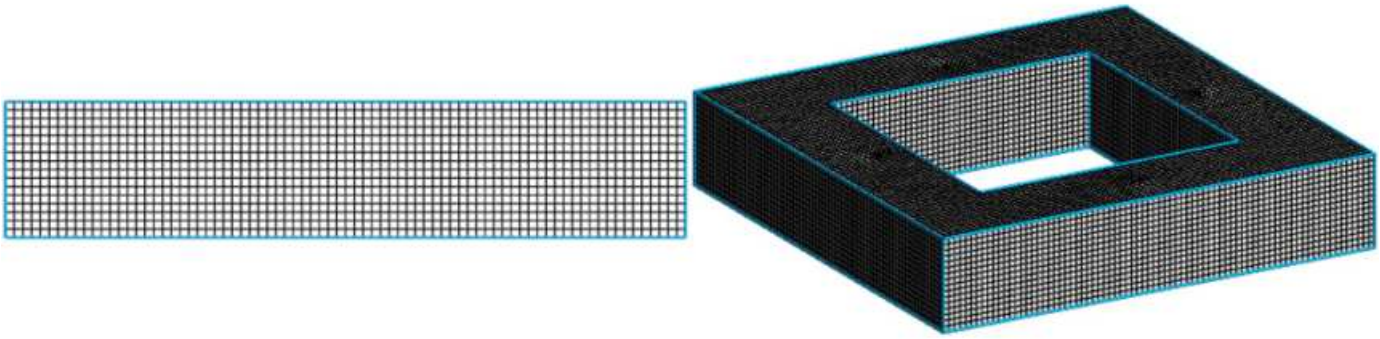


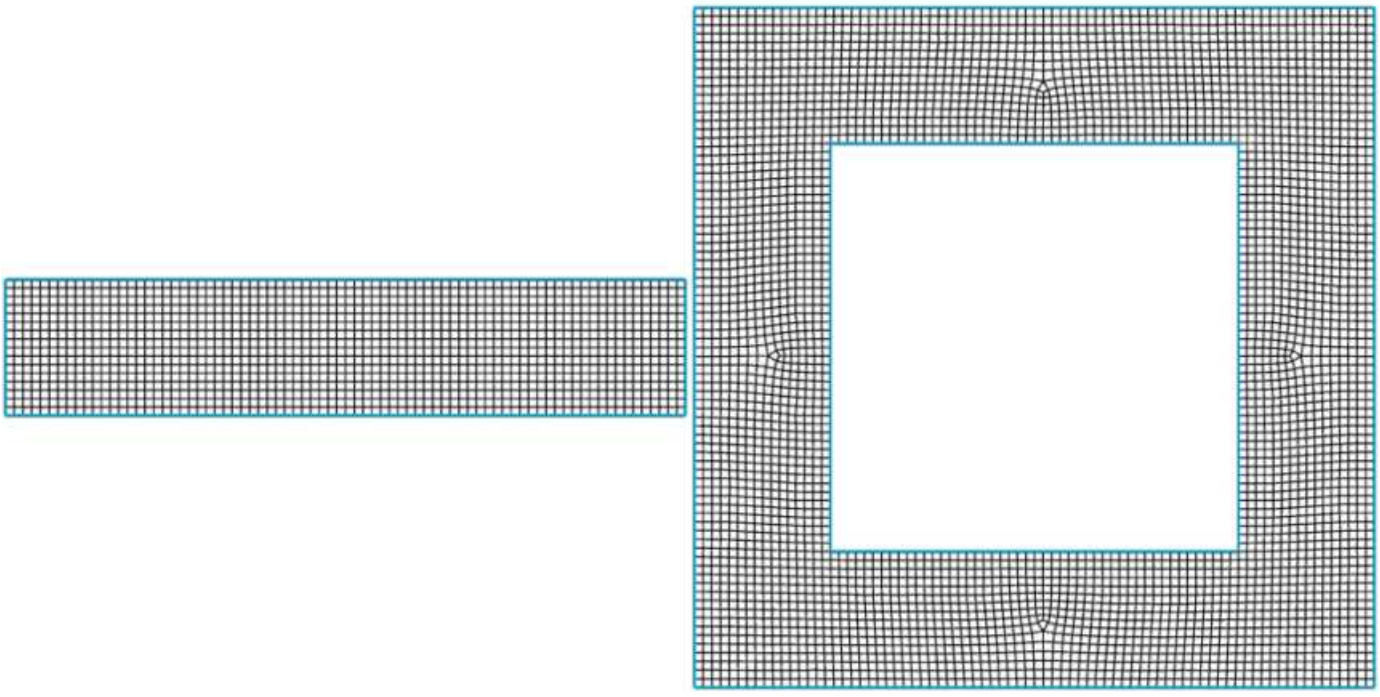
Model: 00004054 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 6.51301 sec to generate the unstructured mesh, 0.705911 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16132	17276	16	0
Quasi-structured	16132	17276	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.163447	0.320464	0.375819	0.827731	0.995304	0.99968
Quasi-structured	0.19534	0.320029	0.422131	0.834758	0.998746	0.99968



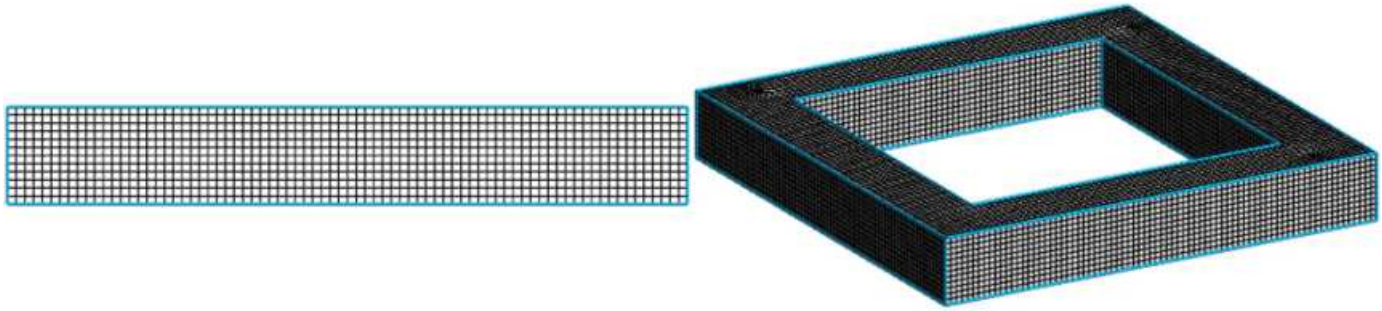


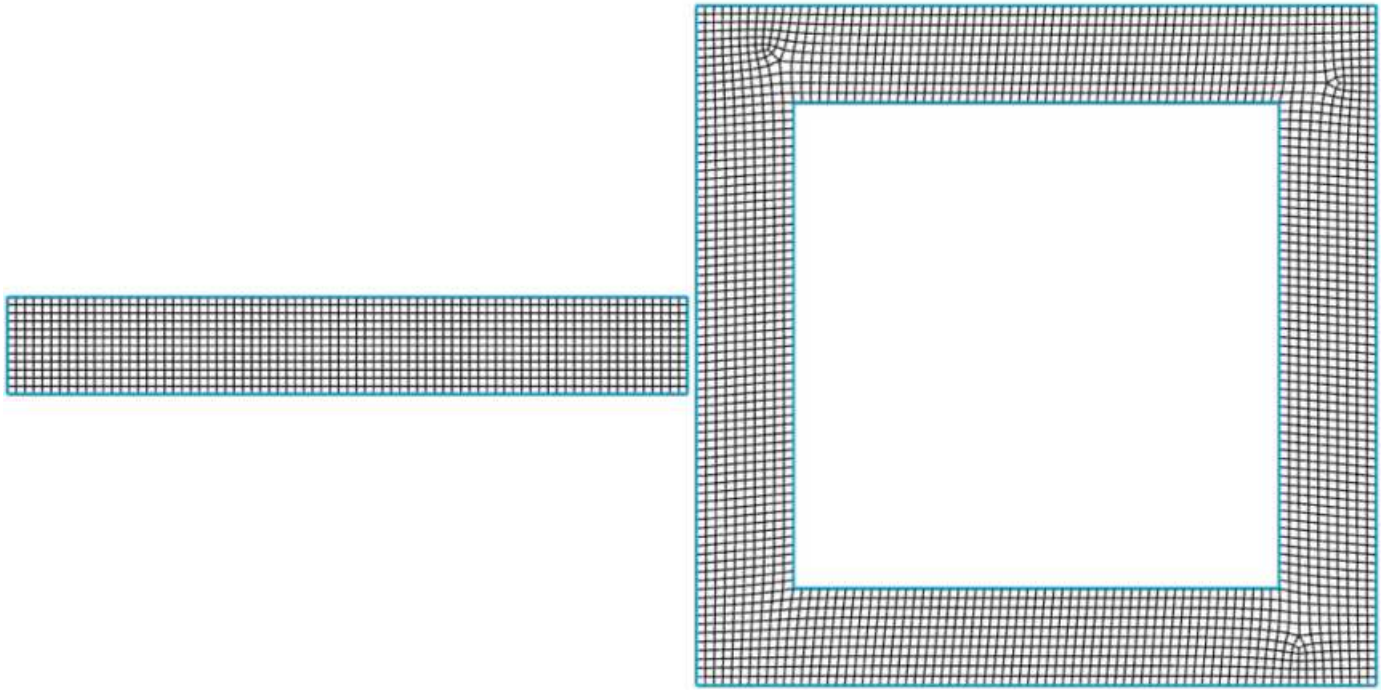
Model: 00004055 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 5.08787 sec to generate the unstructured mesh, 0.705533 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11816	12992	48	0
Quasi-structured	11816	12992	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.257117	0.459037	0.736657	0.667908	0.985503	0.997625
Quasi-structured	0.271794	0.45822	0.642137	0.84149	0.993941	0.99726



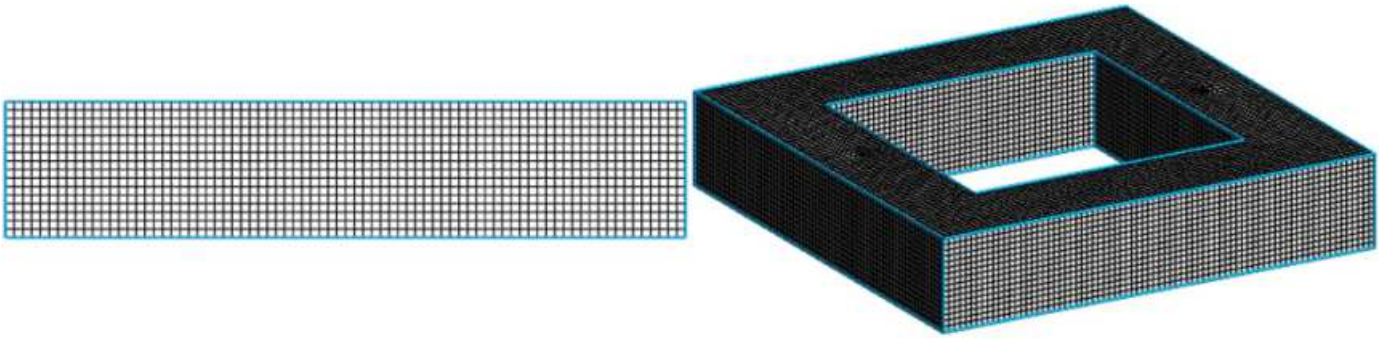


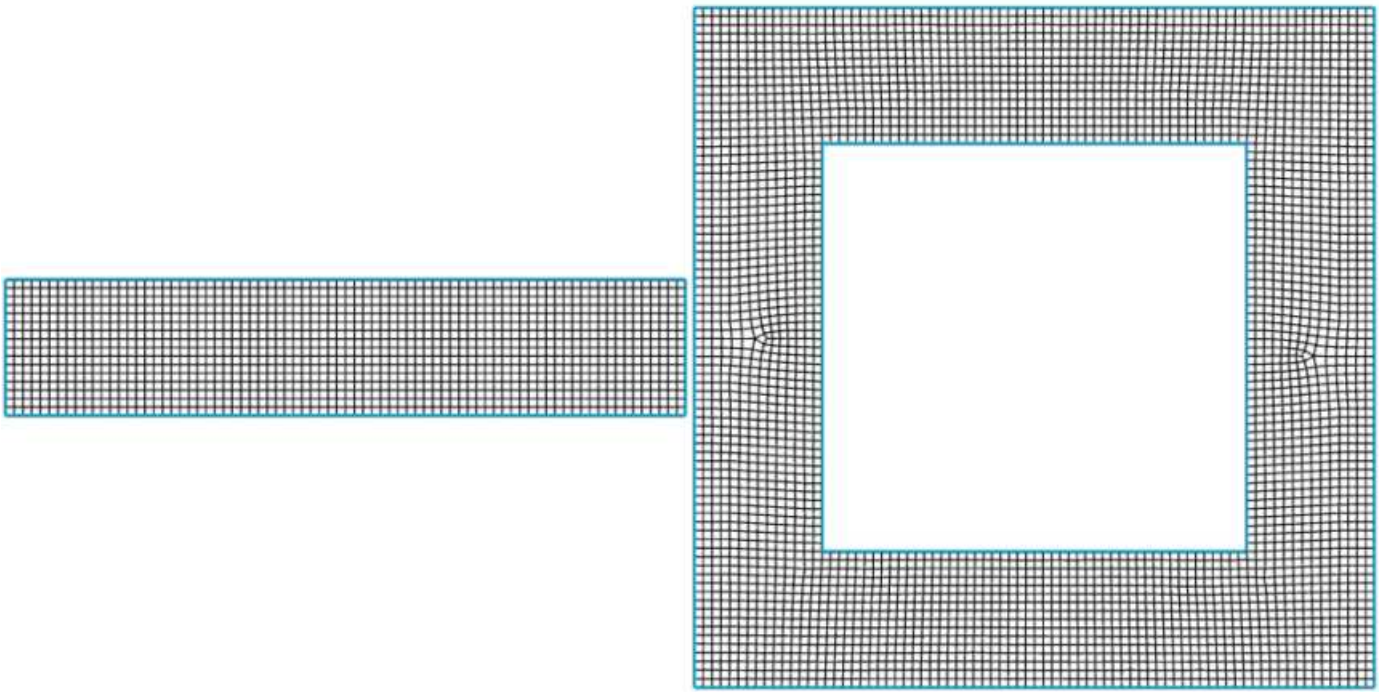
Model: 00004056 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 6.37435 sec to generate the unstructured mesh, 0.62975 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15756	16908	8	0
Quasi-structured	15756	16908	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.193827	0.32284	0.440926	0.704025	0.995921	0.99968
Quasi-structured	0.207361	0.3226	0.46925	0.846893	0.998695	0.99968



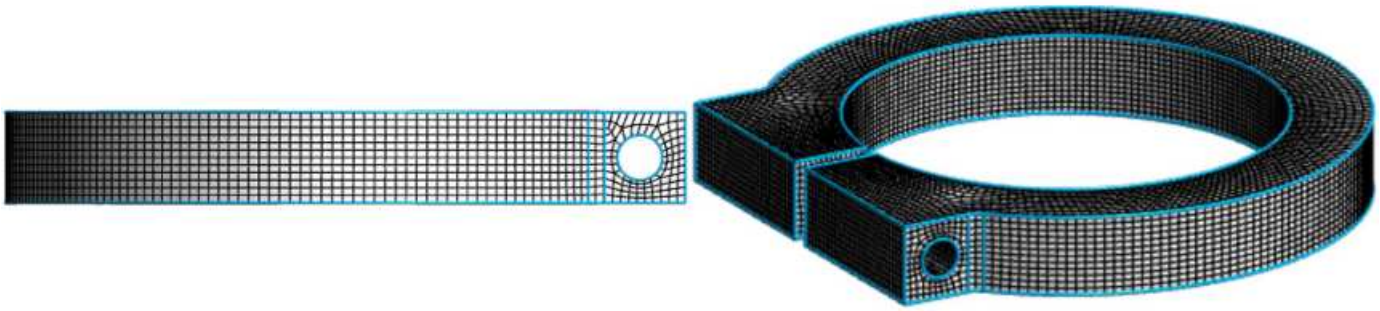


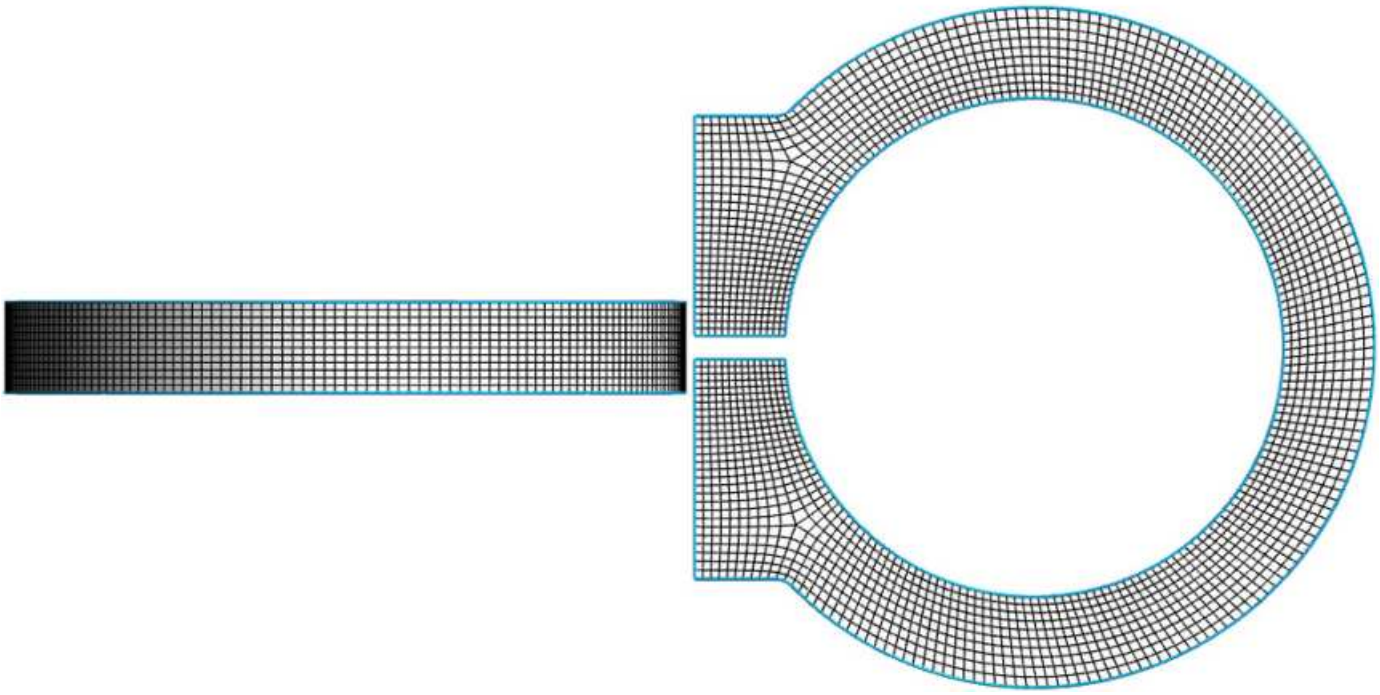
Model: 00004064 (from ABC dataset)
CAD: 26 corners, 38 curves, 14 faces
Cross field: 20 singularities detected
Timings: 9.26154 sec to generate the unstructured mesh, 1.61904 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12358	13514	106	78
Quasi-structured	12341	13497	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.372861	1.09992	1.82545	0.339953	0.975773	0.990296
Quasi-structured	0.371573	1.09926	2.46418	0.68991	0.979636	0.986763



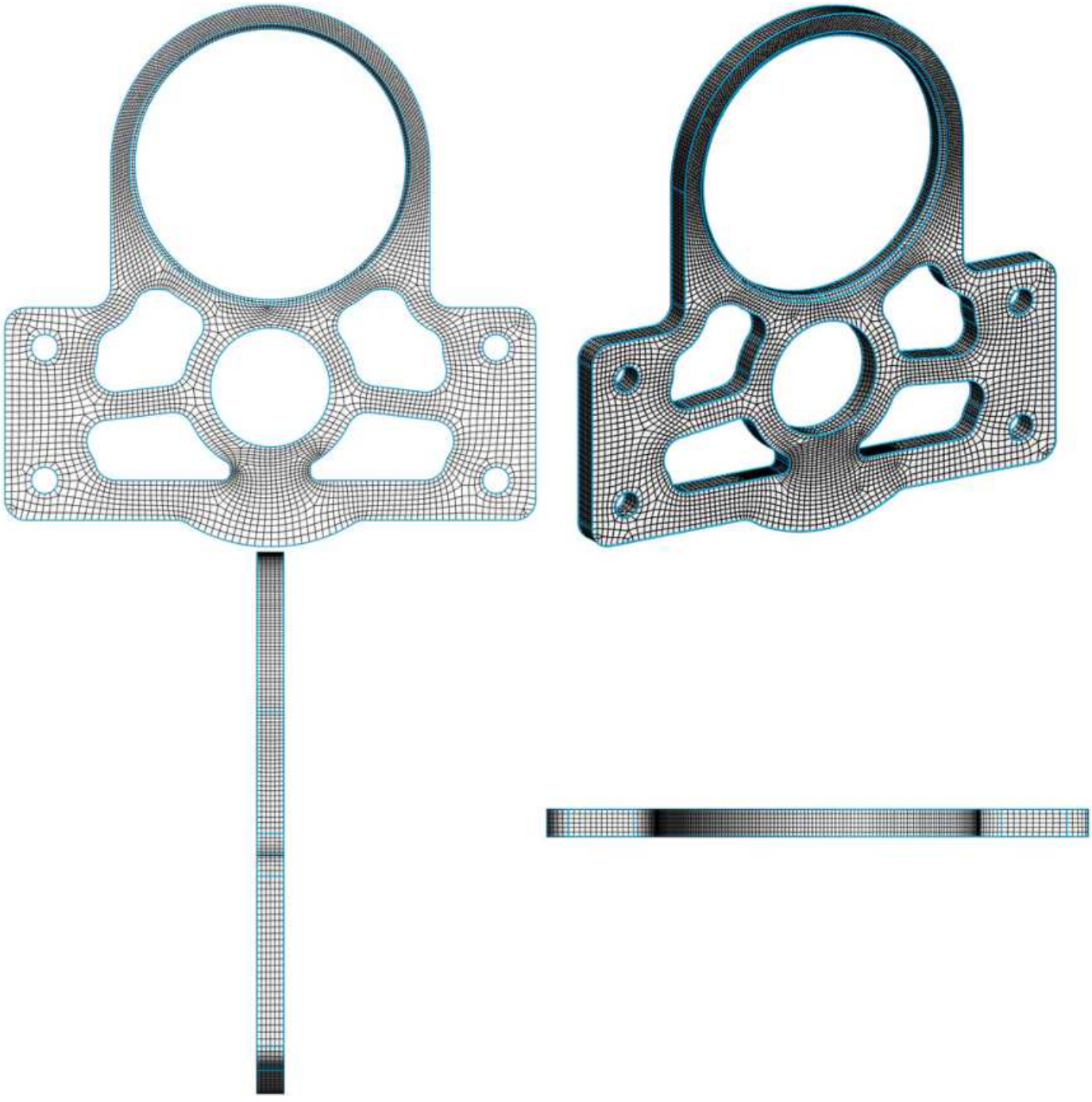


Model: 00004068 (from ABC dataset)
CAD: 143 corners, 213 curves, 72 faces
Cross field: 88 singularities detected
Timings: 12.8696 sec to generate the unstructured mesh, 6.2373 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14838	18032	638	68
Quasi-structured	16669	19863	178	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.12961	1.08971	2.61019	0.0942557	0.939692	0.976741
Quasi-structured	0.198831	1.02757	3.07213	0.338596	0.916025	0.960114

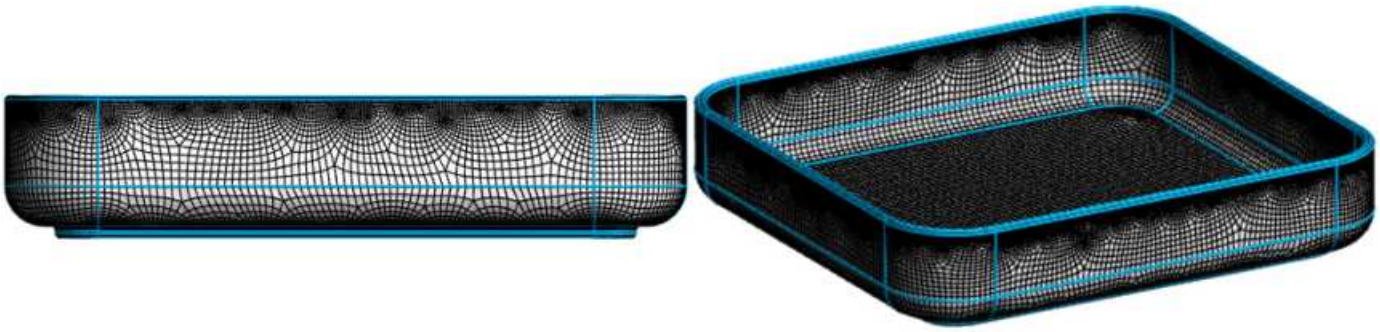


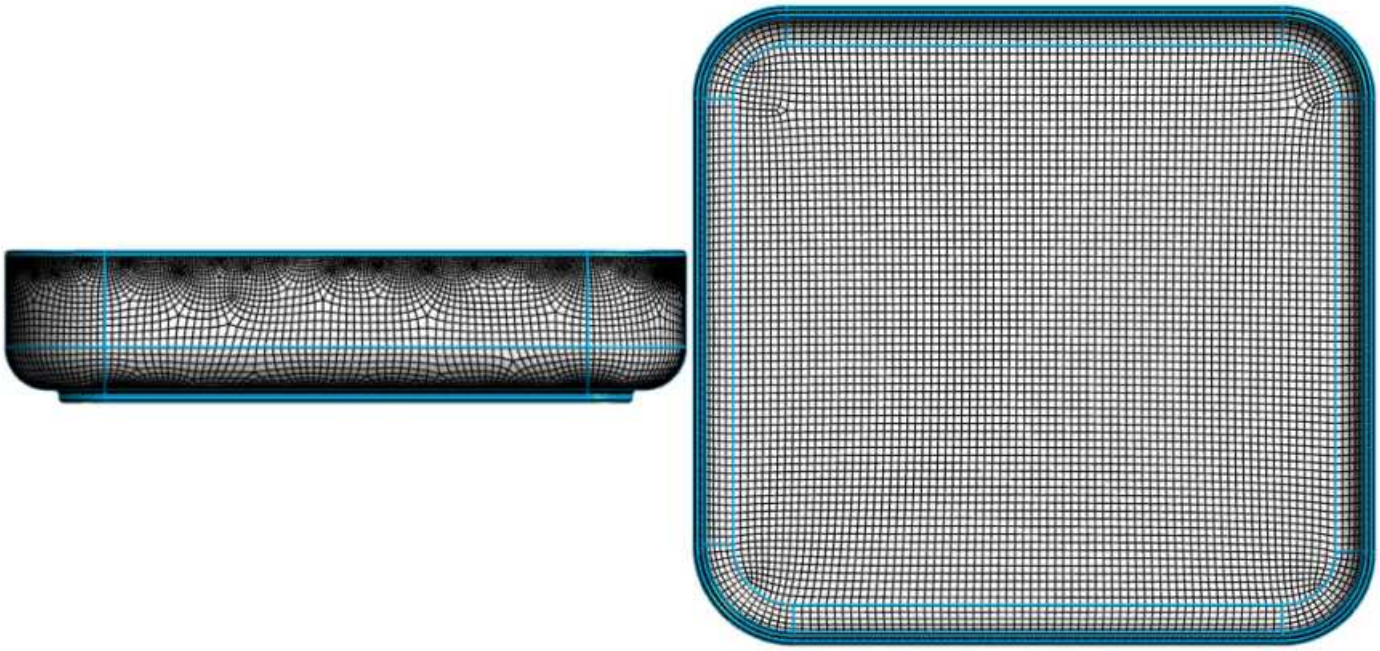
Model: 00004085 (from ABC dataset)
CAD: 128 corners, 224 curves, 101 faces
Cross field: 12 singularities detected
Timings: 20.2217 sec to generate the unstructured mesh, 268.807 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	107552	126908	4359	260
Quasi-structured	111595	130951	1228	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0145194	0.378003	1.71366	0.105769	0.931955	0.984366
Quasi-structured	0.0460945	0.364749	2.72328	0.34053	0.951121	0.983627



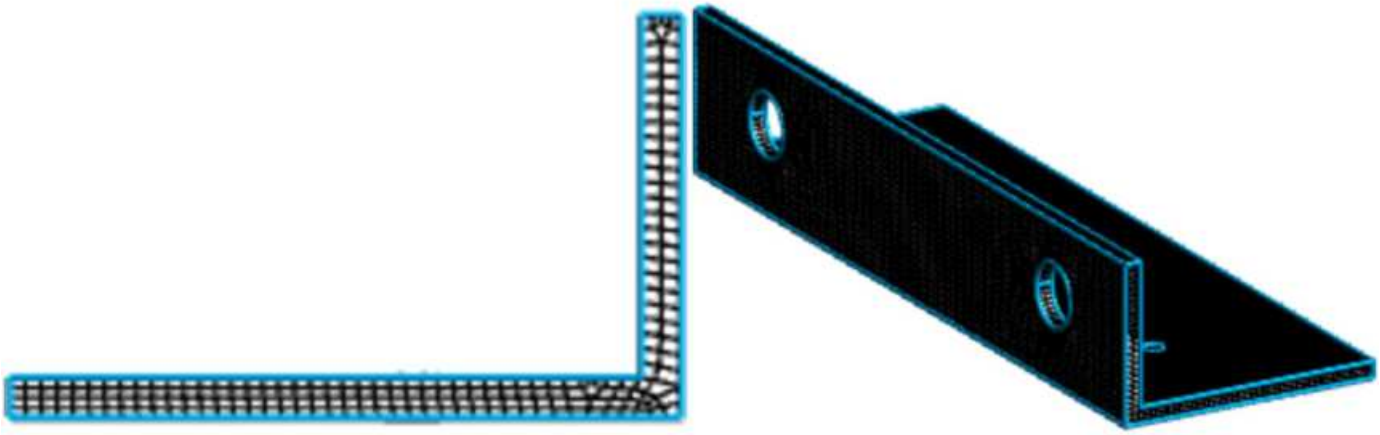


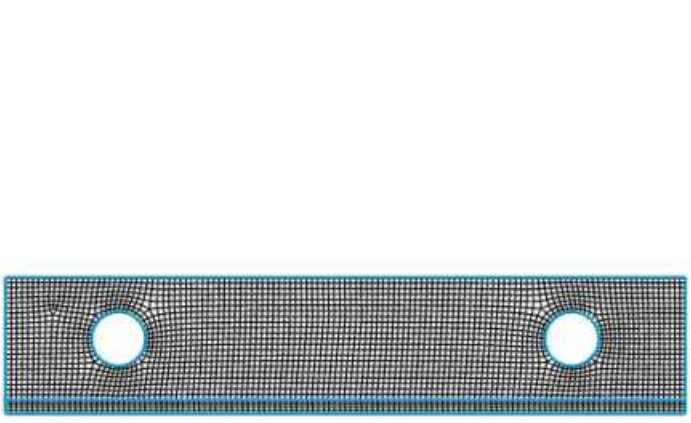
Model: 00004116 (from ABC dataset)
CAD: 24 corners, 35 curves, 13 faces
Cross field: 40 singularities detected
Timings: 11.0002 sec to generate the unstructured mesh, 1.84803 sec to make it quasi-structured
Mesh topology:

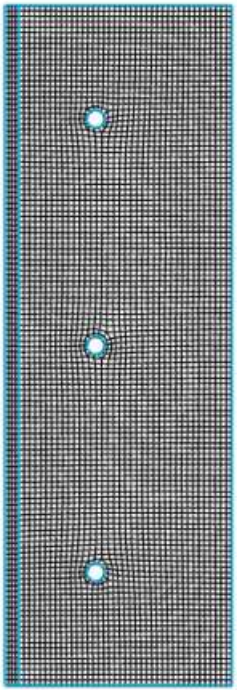
	# quads	# vertices	# irregular	# very irregular
Unstructured	17486	18758	290	22
Quasi-structured	17316	18588	54	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.336143	1.18136	1.97173	0.215391	0.965368	0.997816
Quasi-structured	0.42877	1.18465	2.079	0.578551	0.983913	0.997961





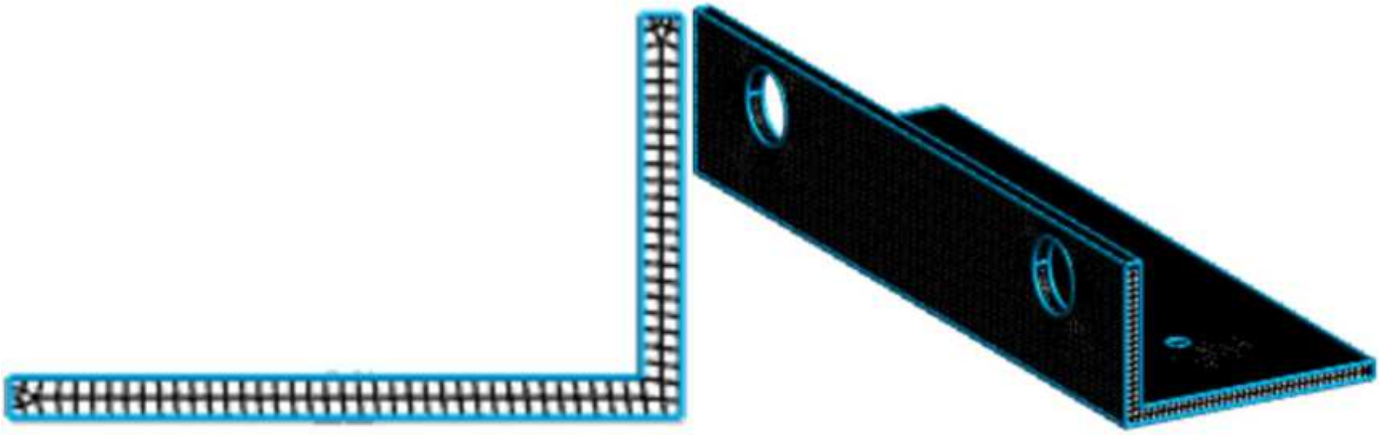


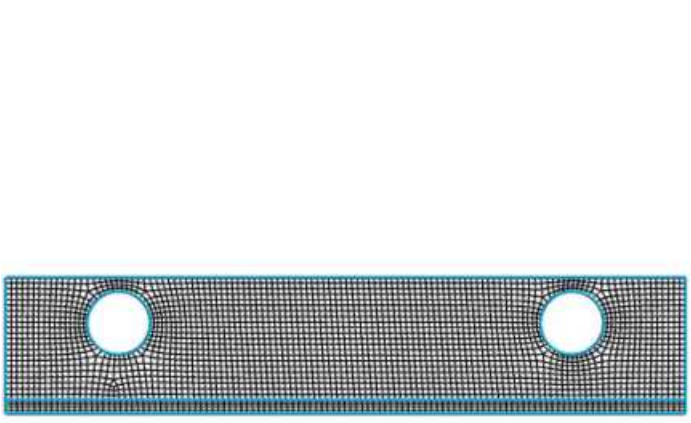
Model: 00004117 (from ABC dataset)
CAD: 22 corners, 32 curves, 12 faces
Cross field: 32 singularities detected
Timings: 11.4141 sec to generate the unstructured mesh, 1.87147 sec to make it quasi-structured
Mesh topology:

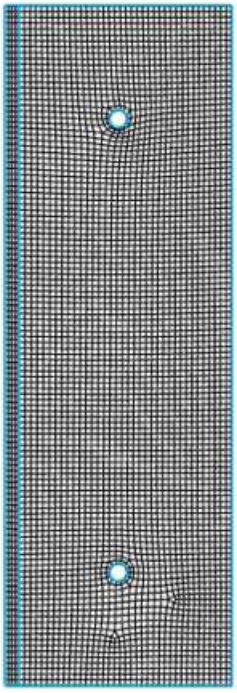
	# quads	# vertices	# irregular	# very irregular
Unstructured	15646	16852	208	21
Quasi-structured	15922	17128	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.37994	1.24492	2.09391	0.461844	0.965633	0.995421
Quasi-structured	0.403877	1.23009	2.05767	0.592324	0.985825	0.998626





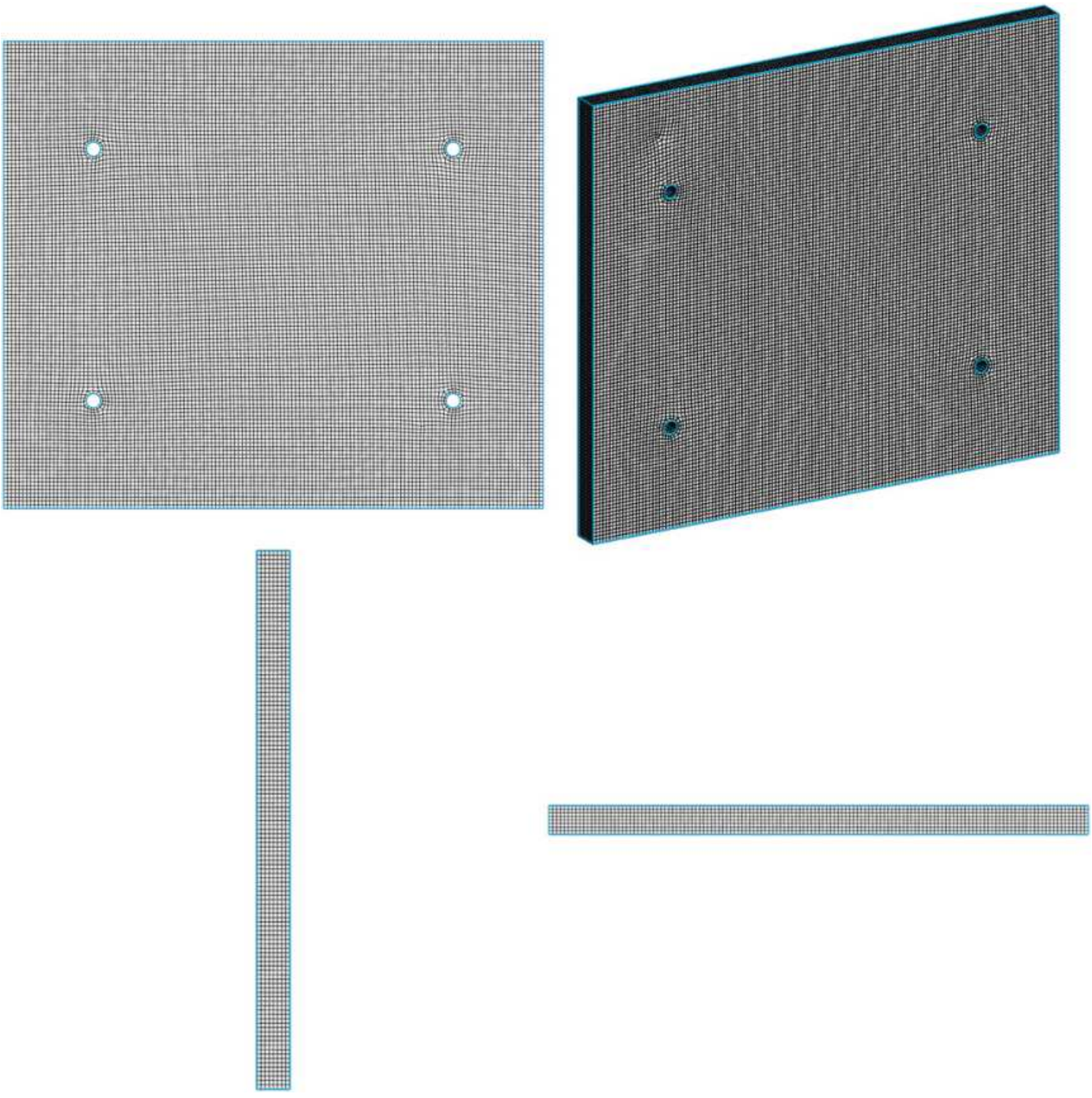


Model: 00004118 (from ABC dataset)
CAD: 20 corners, 28 curves, 10 faces
Cross field: 32 singularities detected
Timings: 36.0434 sec to generate the unstructured mesh, 6.05848 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37996	39202	137	45
Quasi-structured	38454	39660	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.335945	1.07534	1.76778	0.471714	0.988403	0.999855
Quasi-structured	0.526046	1.06667	1.59115	0.70665	0.997545	0.99953

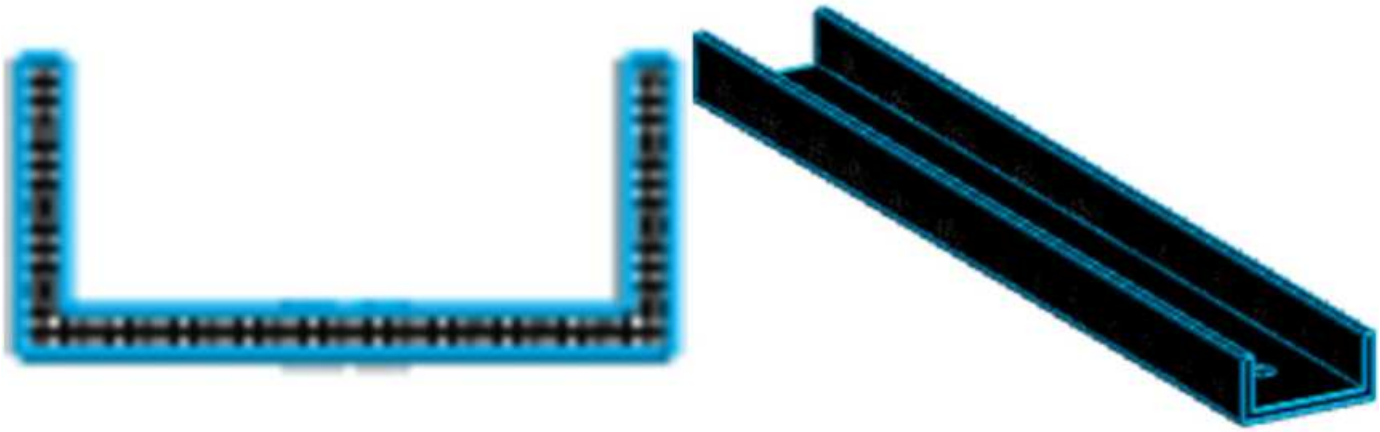


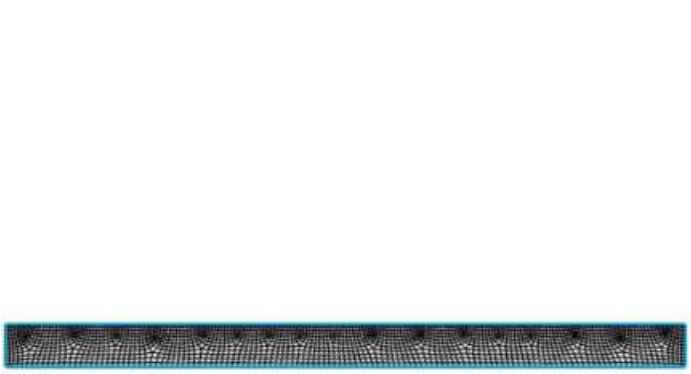
Model: 00004125 (from ABC dataset)
CAD: 25 corners, 36 curves, 13 faces
Cross field: 24 singularities detected
Timings: 5.04248 sec to generate the unstructured mesh, 14.898 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12268	13976	604	17
Quasi-structured	13704	15412	142	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.309999	1.00936	2.05713	0.397398	0.951065	0.992629
Quasi-structured	0.28524	0.968622	2.65877	0.533511	0.953165	0.962459







Model: 00004126 (from ABC dataset)
CAD: 25 corners, 36 curves, 13 faces
Cross field: 24 singularities detected
Timings: 2.30373 sec to generate the unstructured mesh, 6.14159 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19414	22012	570	51
Quasi-structured	23195	25793	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.255592	1.60634	5.18363	0.273547	0.803415	0.765481
Quasi-structured	0.344924	1.50544	3.1893	0.474521	0.843787	0.903705

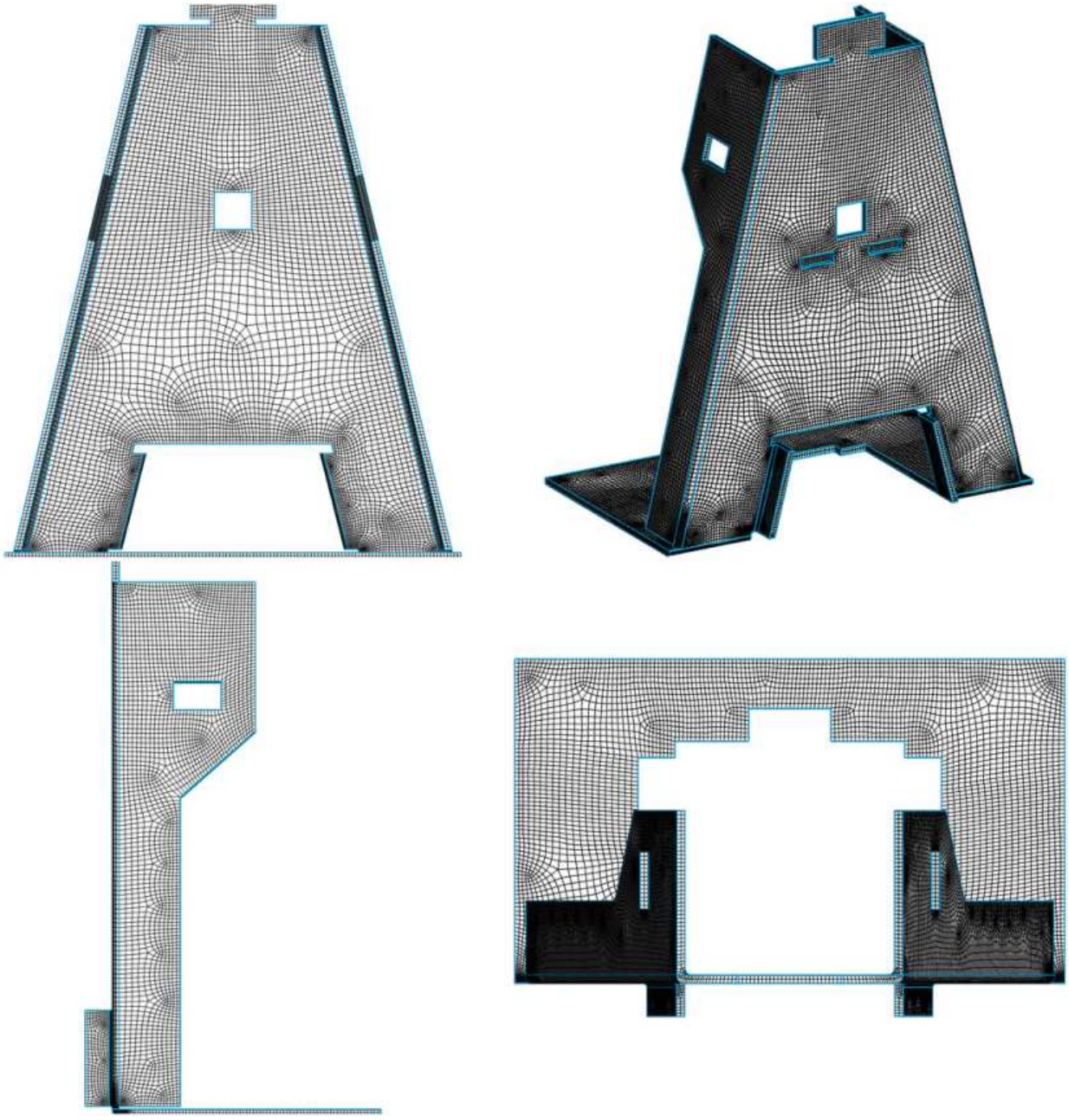


Model: 00004135 (from ABC dataset)
CAD: 166 corners, 254 curves, 90 faces
Cross field: 22 singularities detected
Timings: 17.3911 sec to generate the unstructured mesh, 53.7769 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	45960	51420	2042	91
Quasi-structured	47211	52671	474	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0165807	1.04169	3.45028	0.000581073	0.918385	0.970713
Quasi-structured	0.00605178	1.02994	4.47052	0.0159582	0.928538	0.968145

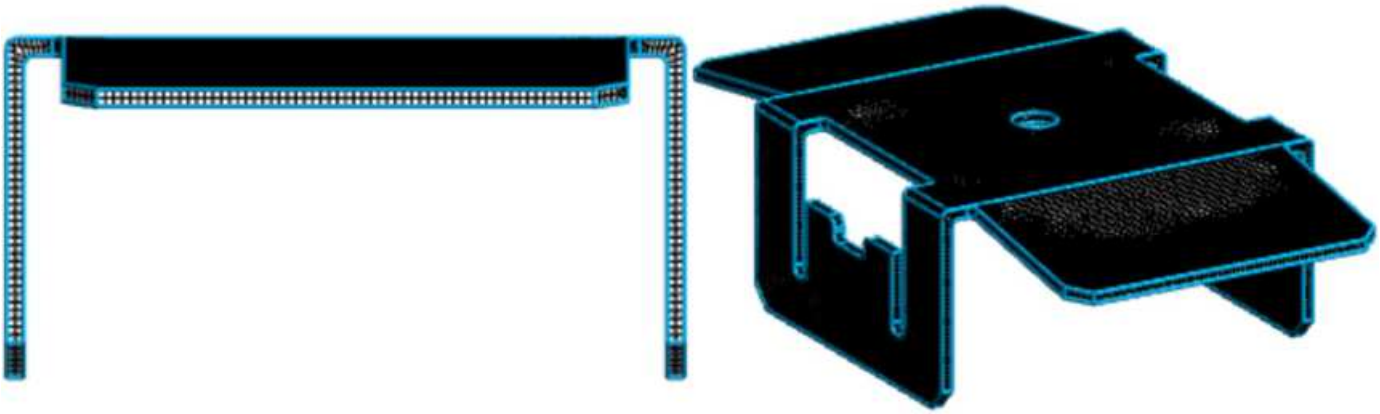


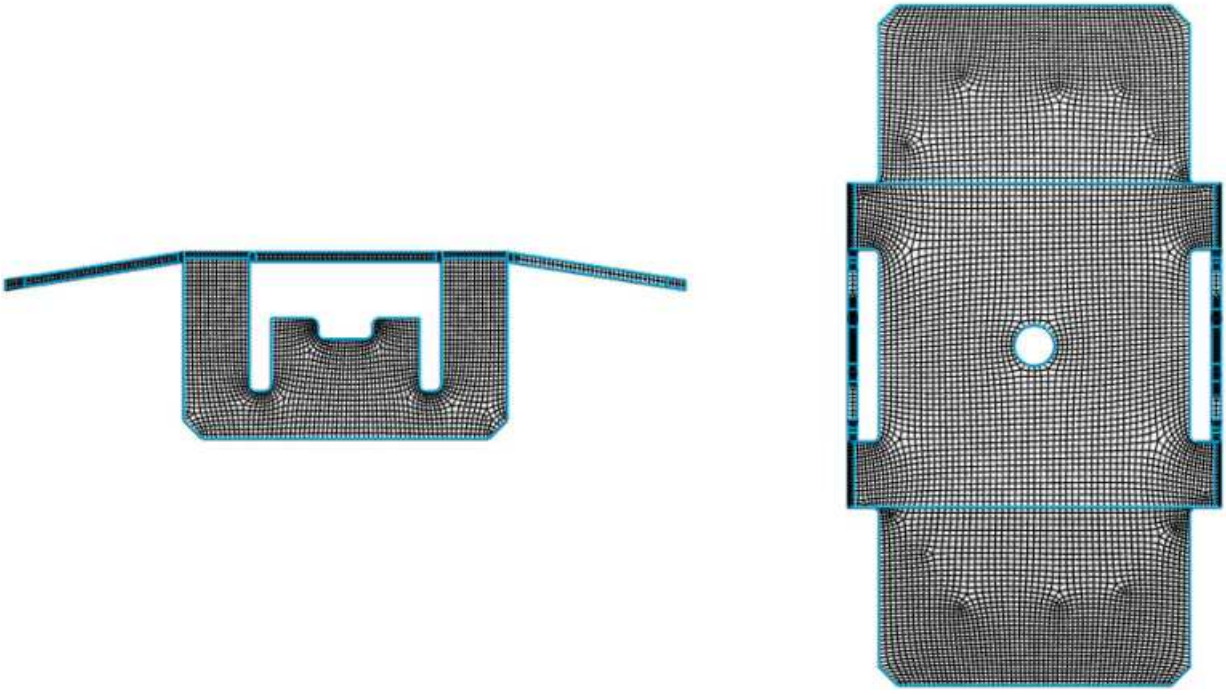
Model: 00004137 (from ABC dataset)
CAD: 171 corners, 260 curves, 87 faces
Cross field: 76 singularities detected
Timings: 16.5931 sec to generate the unstructured mesh, 12.1416 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26650	29782	917	22
Quasi-structured	28265	31397	228	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0976311	0.779374	1.66103	0.056016	0.943605	0.972858
Quasi-structured	0.0601418	0.75623	2.02438	0.17342	0.966077	0.987566



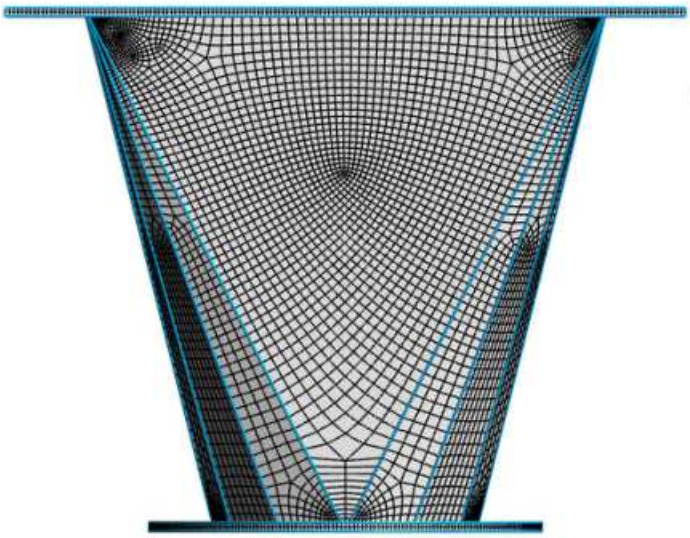


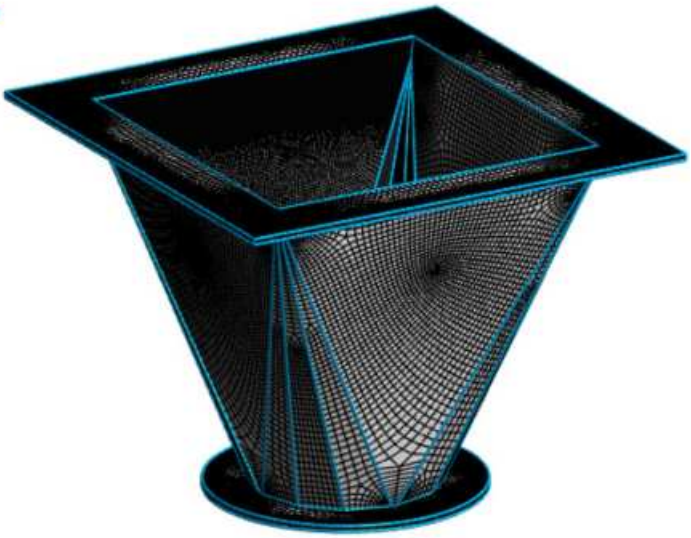
Model: 00004158 (from ABC dataset)
CAD: 142 corners, 223 curves, 85 faces
Cross field: 64 singularities detected
Timings: 15.335 sec to generate the unstructured mesh, 92.8061 sec to make it quasi-structured
Mesh topology:

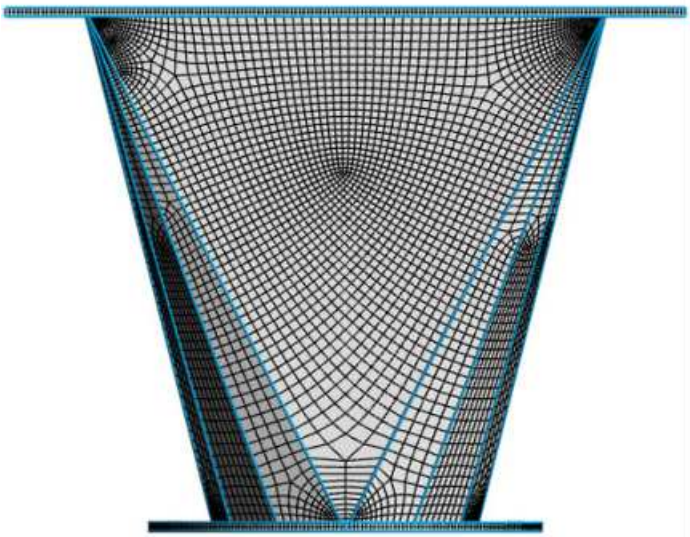
	# quads	# vertices	# irregular	# very irregular
Unstructured	69254	77312	4117	127
Quasi-structured	92858	100916	1214	0

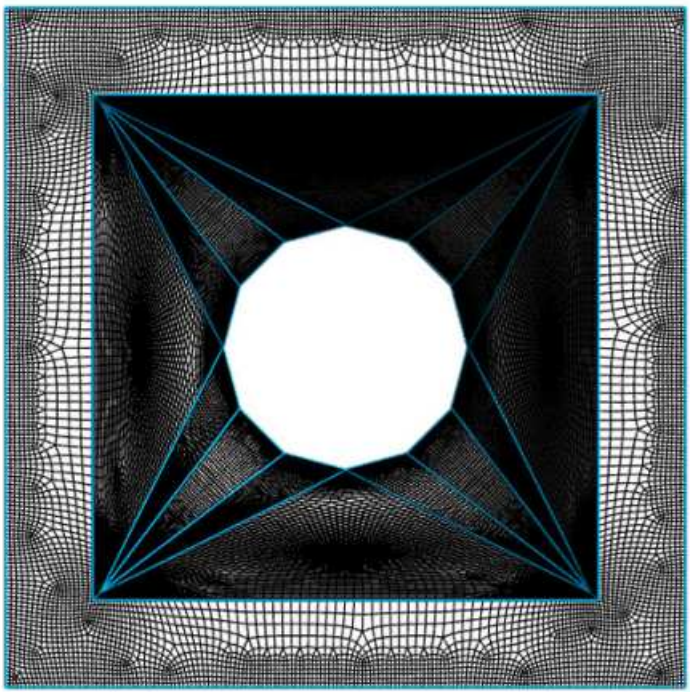
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0129983	0.910867	3.38688	0.00433824	0.924407	0.972845
Quasi-structured	0.00132422	0.827626	7.0306	0.00433824	0.771273	0.951373







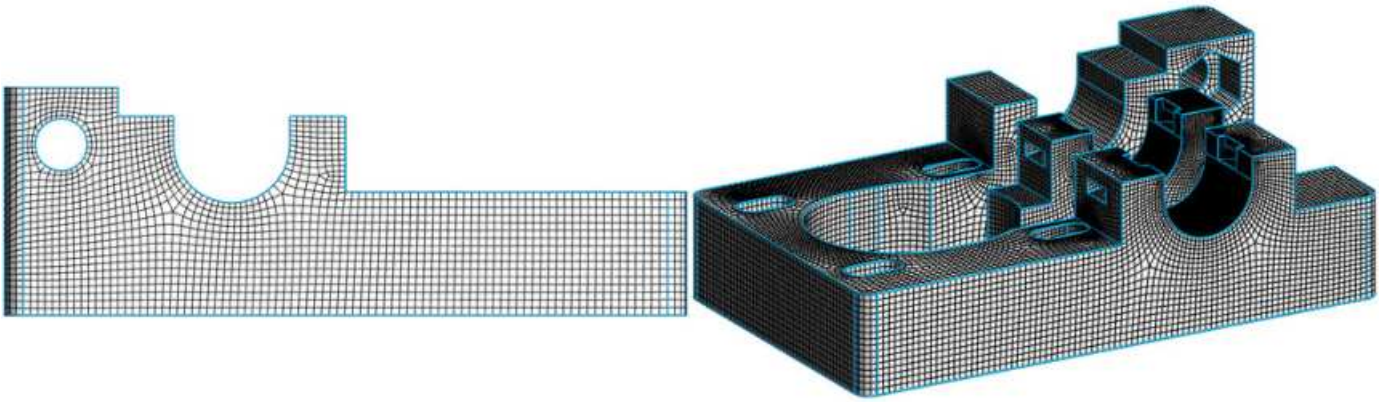


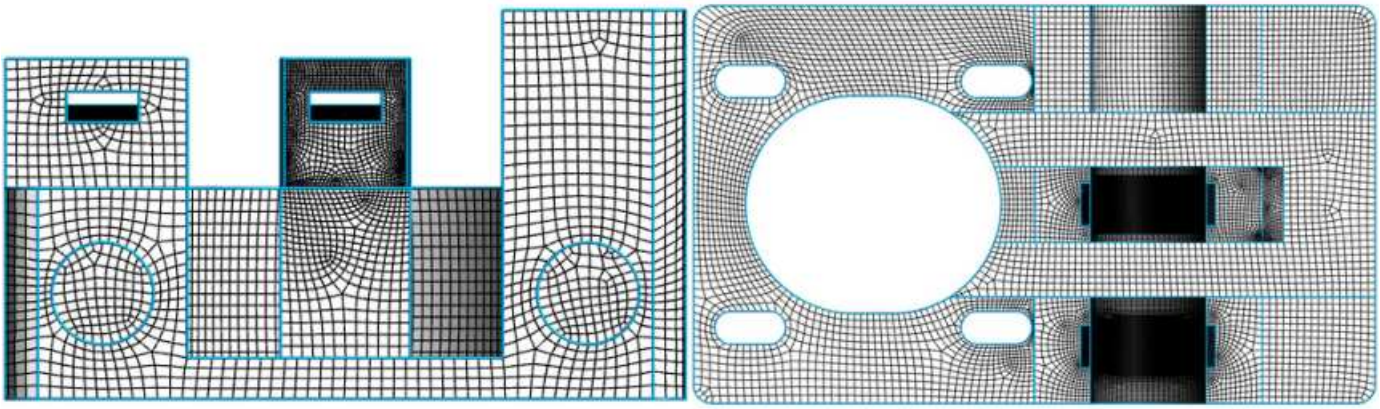
Model: 00004222 (from ABC dataset)
CAD: 192 corners, 287 curves, 95 faces
Cross field: 90 singularities detected
Timings: 18.7094 sec to generate the unstructured mesh, 11.6725 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	59250	64882	1894	181
Quasi-structured	60368	66000	438	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0184315	0.434665	1.37913	0.0594277	0.830551	0.973854
Quasi-structured	0.0218813	0.432926	1.95377	0.165163	0.844789	0.978544



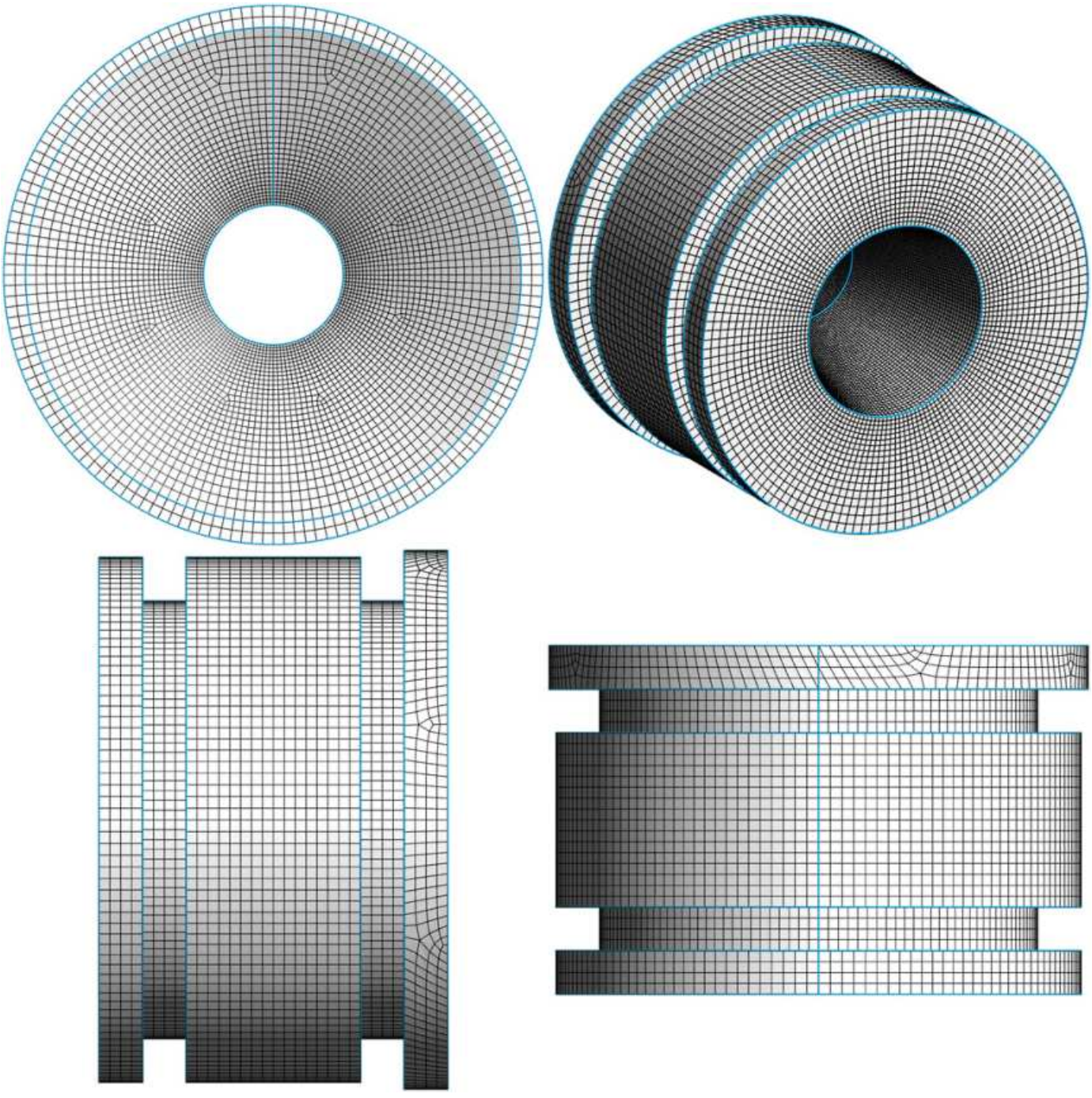


Model: 00004238 (from ABC dataset)
CAD: 14 corners, 22 curves, 14 faces
Cross field: 0 singularities detected
Timings: 13.1342 sec to generate the unstructured mesh, 5.20383 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24302	26294	72	136
Quasi-structured	24074	26066	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.165766	0.994835	2.29269	0.462067	0.989162	0.998459
Quasi-structured	0.456656	1.00243	2.54075	0.683891	0.995085	0.998082

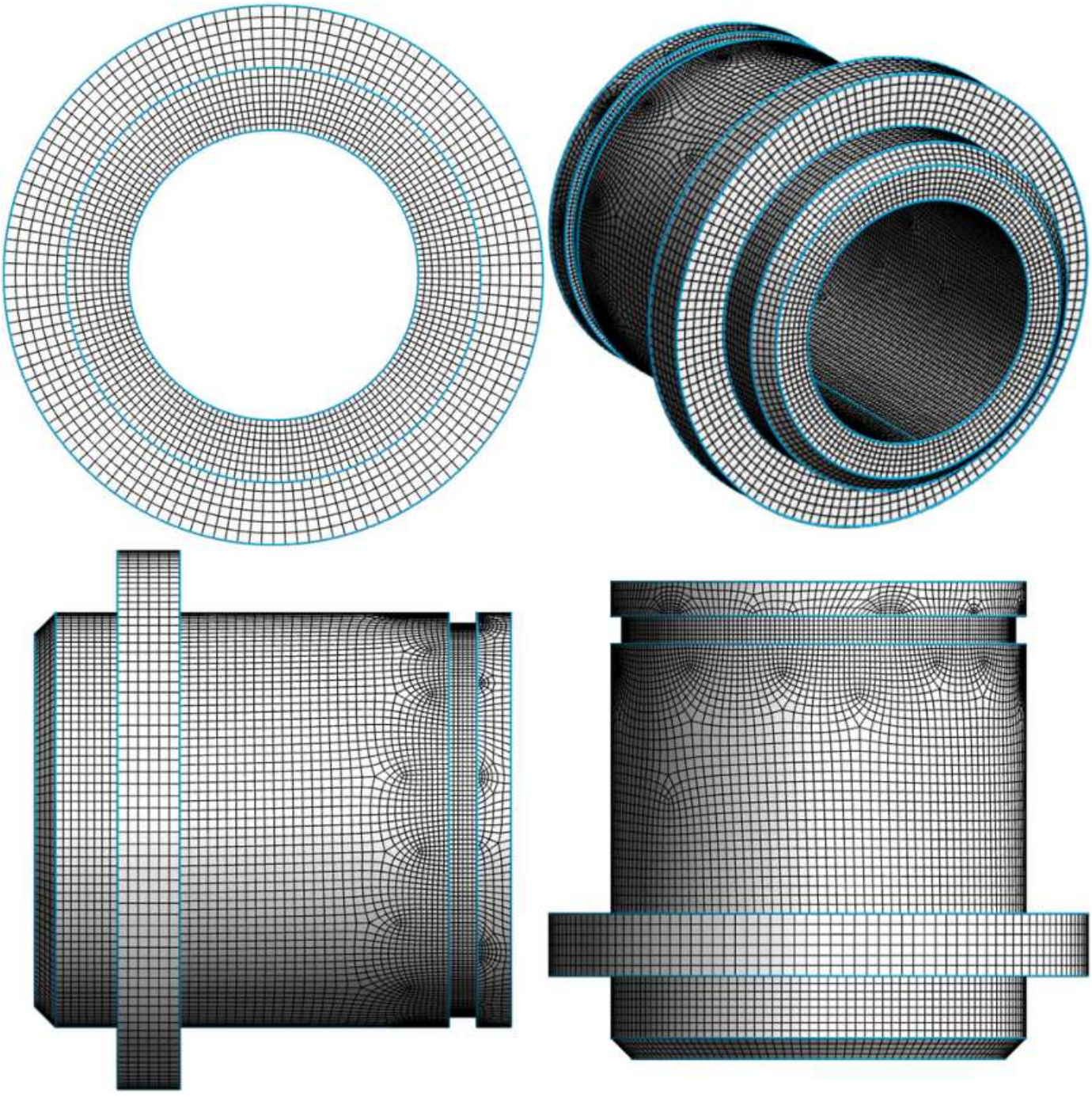


Model: 00004250 (from ABC dataset)
CAD: 13 corners, 20 curves, 13 faces
Cross field: 0 singularities detected
Timings: 17.9202 sec to generate the unstructured mesh, 24.1765 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25546	27858	264	173
Quasi-structured	26100	28412	102	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.127004	0.350473	0.713571	0.47529	0.974887	0.995664
Quasi-structured	0.104166	0.344974	0.696966	0.438012	0.988386	0.997613

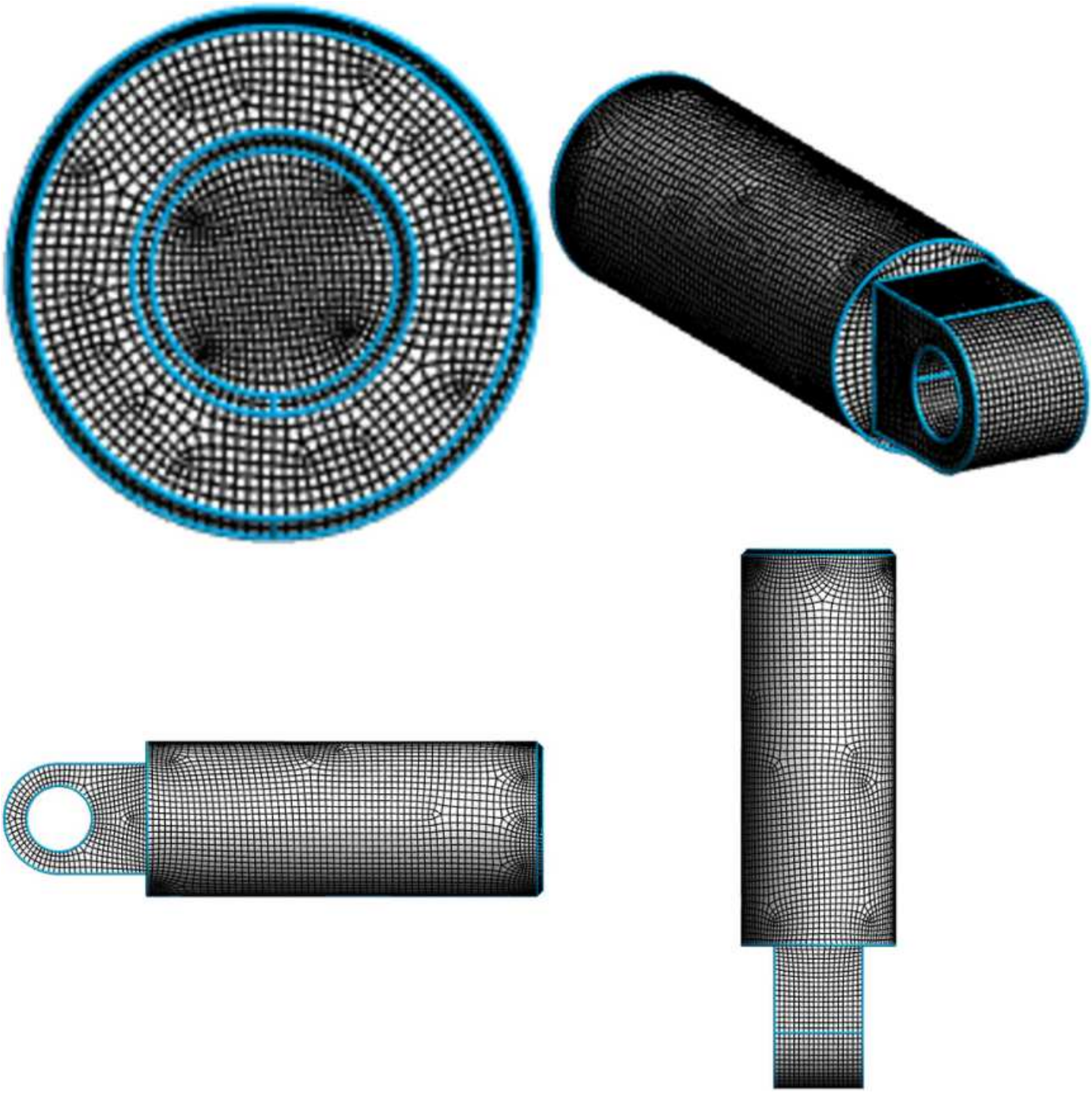


Model: 00004251 (from ABC dataset)
CAD: 18 corners, 27 curves, 13 faces
Cross field: 12 singularities detected
Timings: 9.7519 sec to generate the unstructured mesh, 17.2185 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13020	13944	257	132
Quasi-structured	13160	14084	106	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0962783	0.429343	0.928929	0.421501	0.966783	0.991328
Quasi-structured	0.0704572	0.423839	0.899451	0.323987	0.978434	0.997294

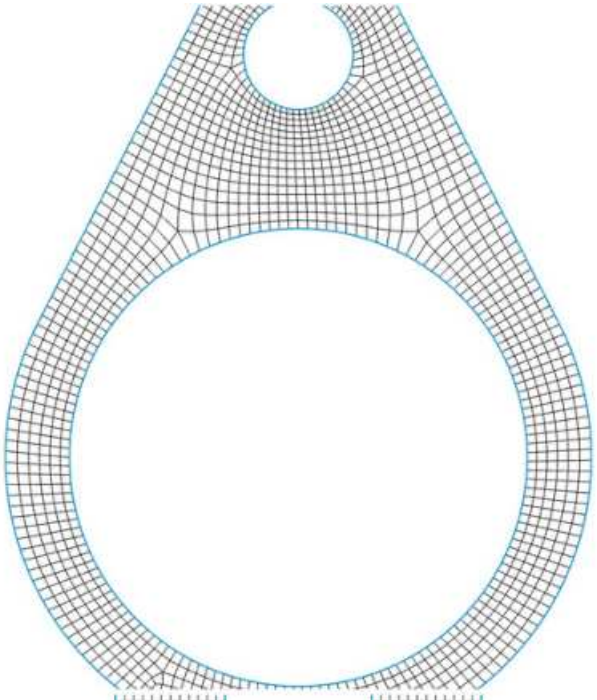


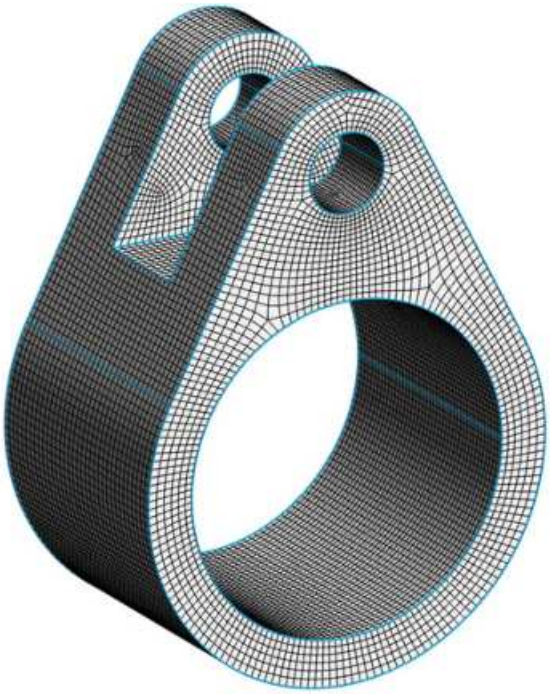
Model: 00004252 (from ABC dataset)
CAD: 24 corners, 35 curves, 13 faces
Cross field: 12 singularities detected
Timings: 16.0316 sec to generate the unstructured mesh, 4.0549 sec to make it quasi-structured
Mesh topology:

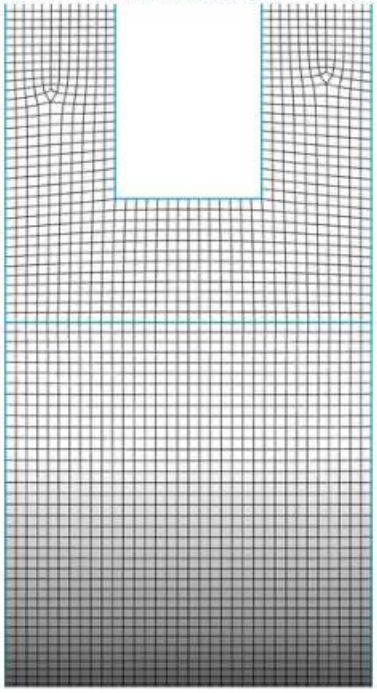
	# quads	# vertices	# irregular	# very irregular
Unstructured	19700	21008	194	77
Quasi-structured	19646	20954	54	0

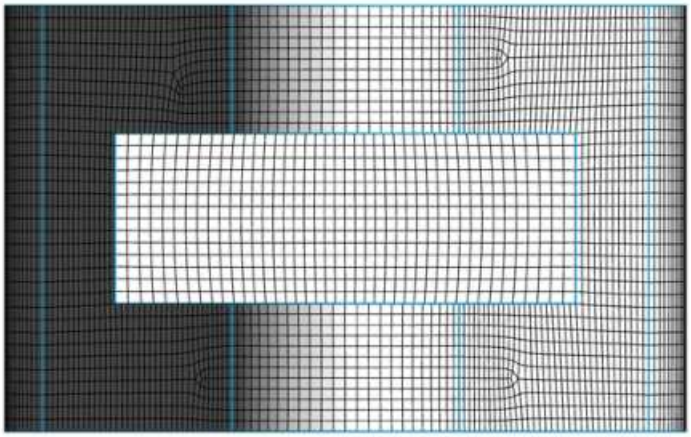
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.117042	0.514513	0.93052	0.364487	0.985406	0.998431
Quasi-structured	0.20798	0.51435	1.53338	0.628324	0.991868	0.999029







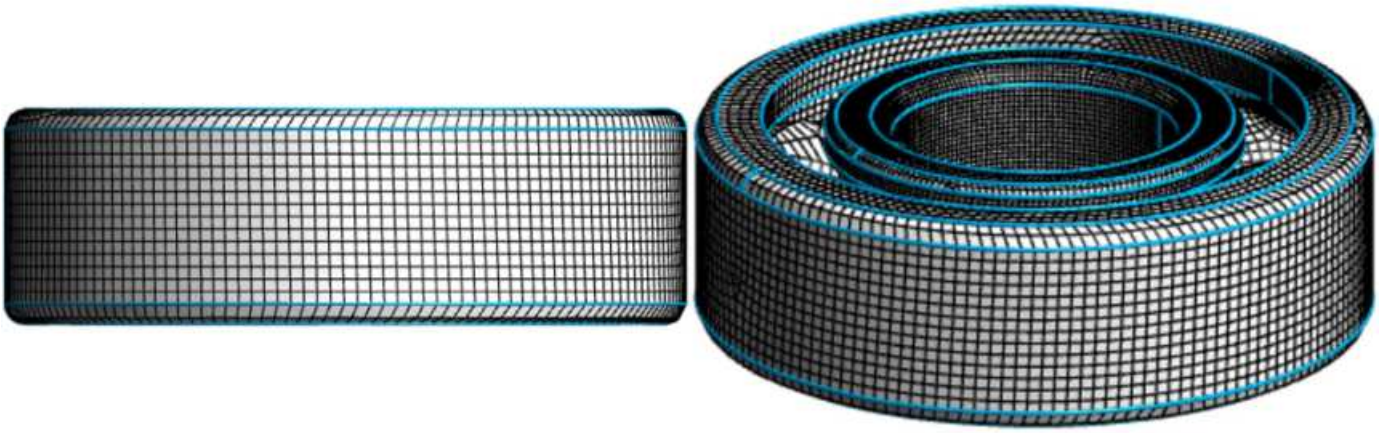


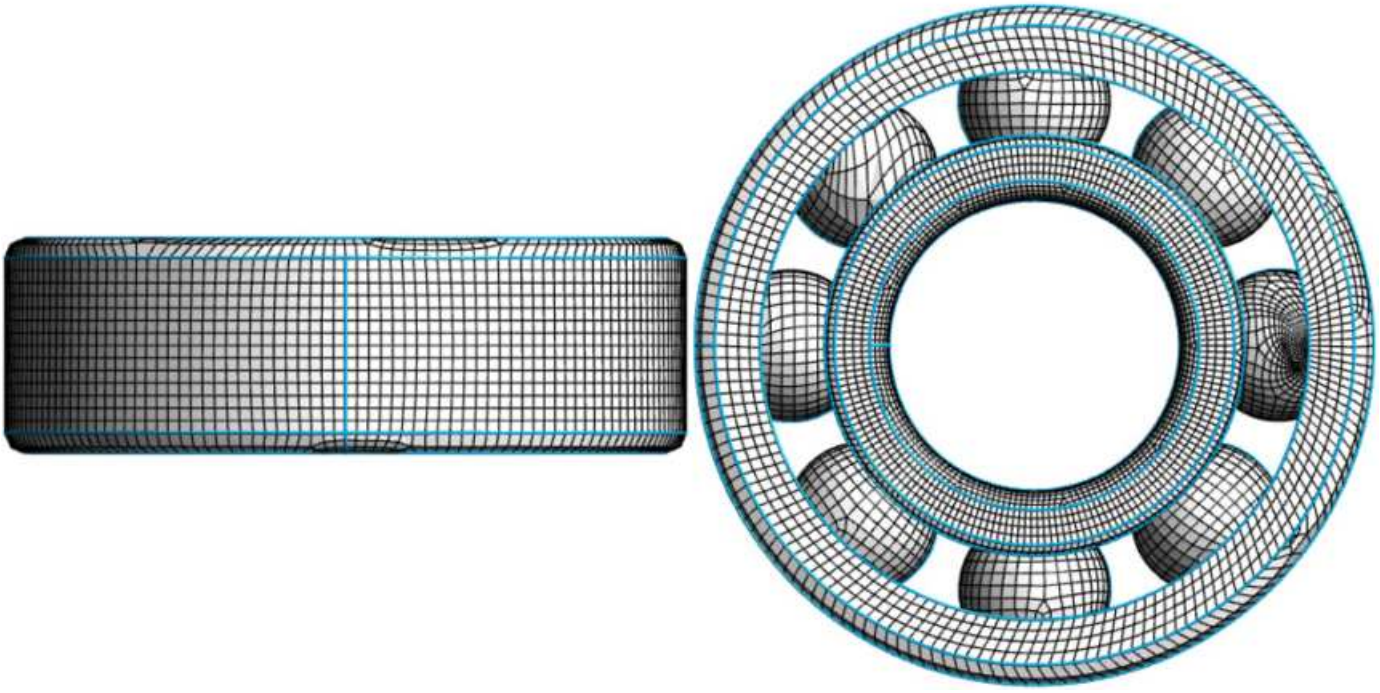
Model: 00004260 (from ABC dataset)
CAD: 87 corners, 131 curves, 34 faces
Cross field: 64 singularities detected
Timings: 20.8855 sec to generate the unstructured mesh, 18.9363 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32006	37290	1083	278
Quasi-structured	32146	37430	326	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0530347	0.413322	1.06181	0.191567	0.943703	0.978001
Quasi-structured	0.0384078	0.412598	1.96995	0.327126	0.948424	0.983138



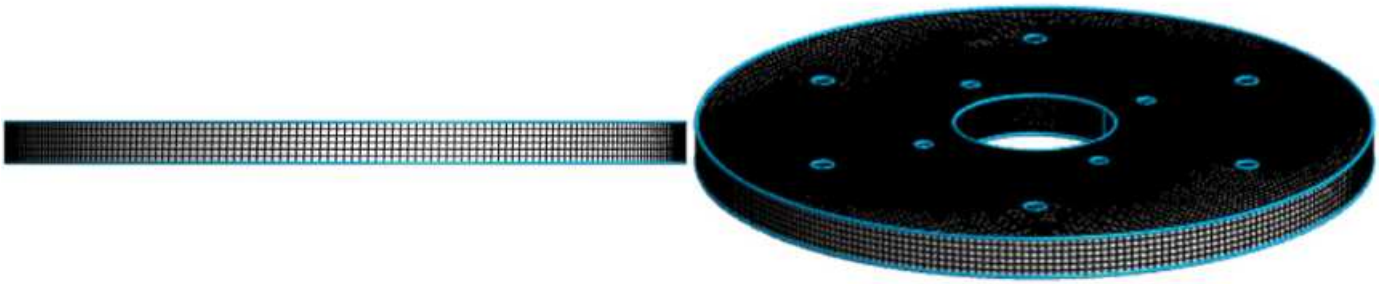


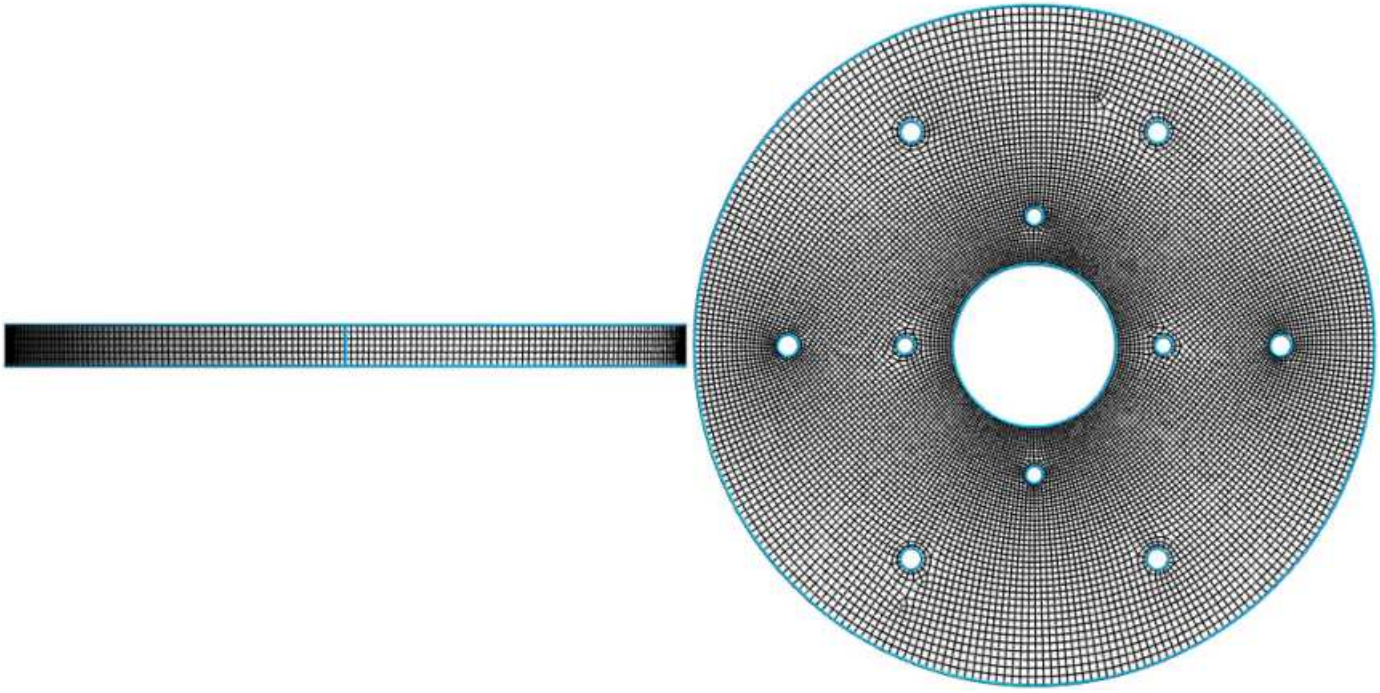
Model: 00004261 (from ABC dataset)
CAD: 32 corners, 44 curves, 14 faces
Cross field: 93 singularities detected
Timings: 25.7411 sec to generate the unstructured mesh, 5.53966 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32152	33464	501	143
Quasi-structured	31866	33178	114	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.376116	1.76753	4.61148	0.212898	0.972135	0.996039
Quasi-structured	0.536018	1.77688	4.07761	0.561738	0.990513	0.996896



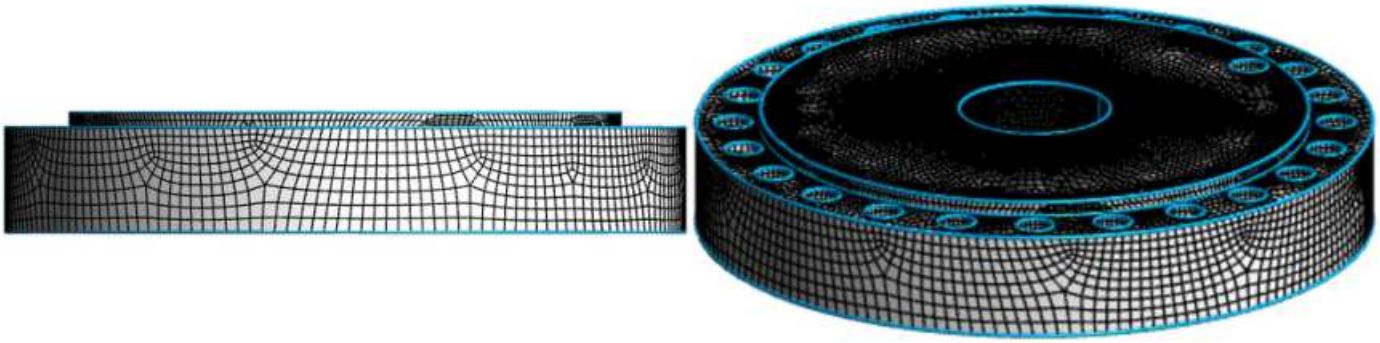


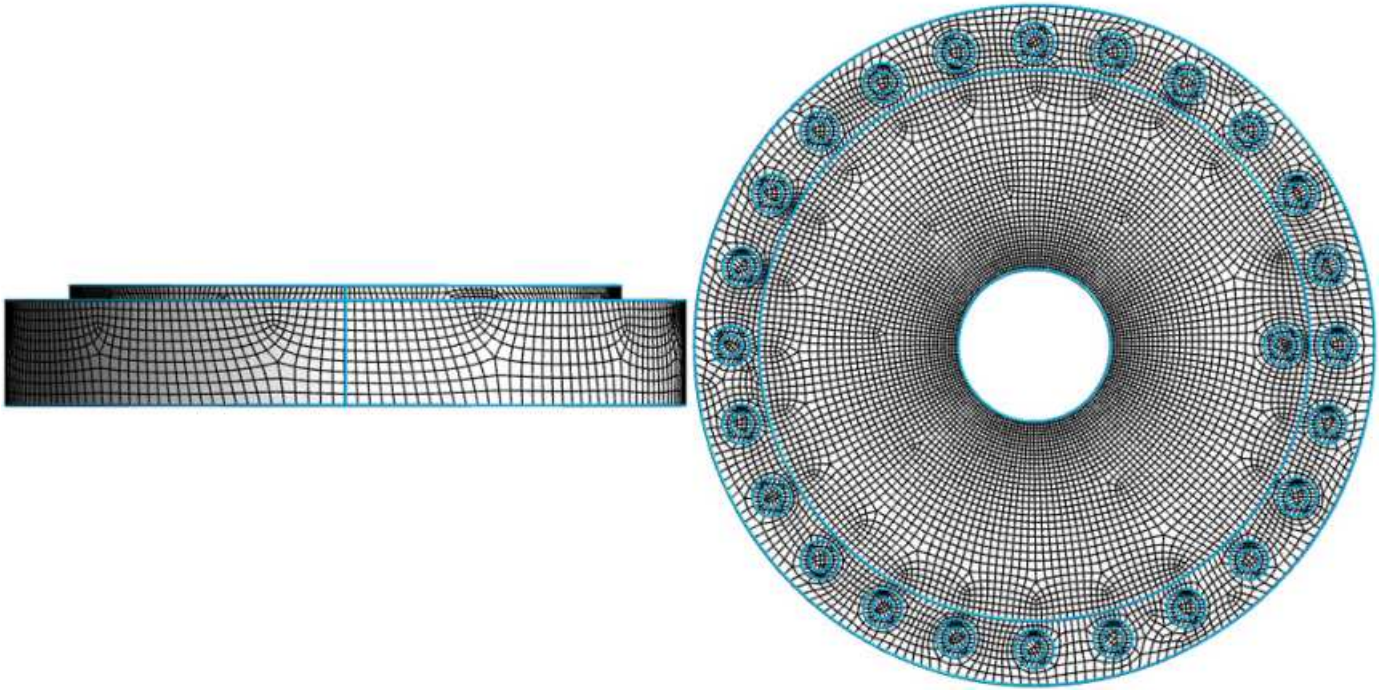
Model: 00004275 (from ABC dataset)
CAD: 106 corners, 159 curves, 106 faces
Cross field: 200 singularities detected
Timings: 22.9803 sec to generate the unstructured mesh, 35.7112 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32394	35674	1247	350
Quasi-structured	32578	35858	910	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0784118	0.399311	1.49475	0.161977	0.959552	0.99579
Quasi-structured	0.0826653	0.398183	1.42505	0.23806	0.961294	0.997205



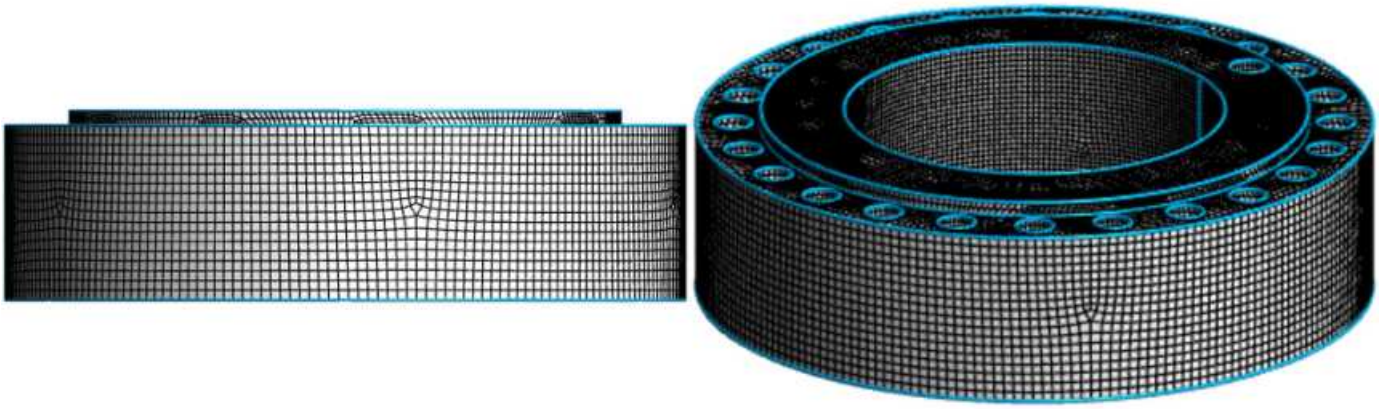


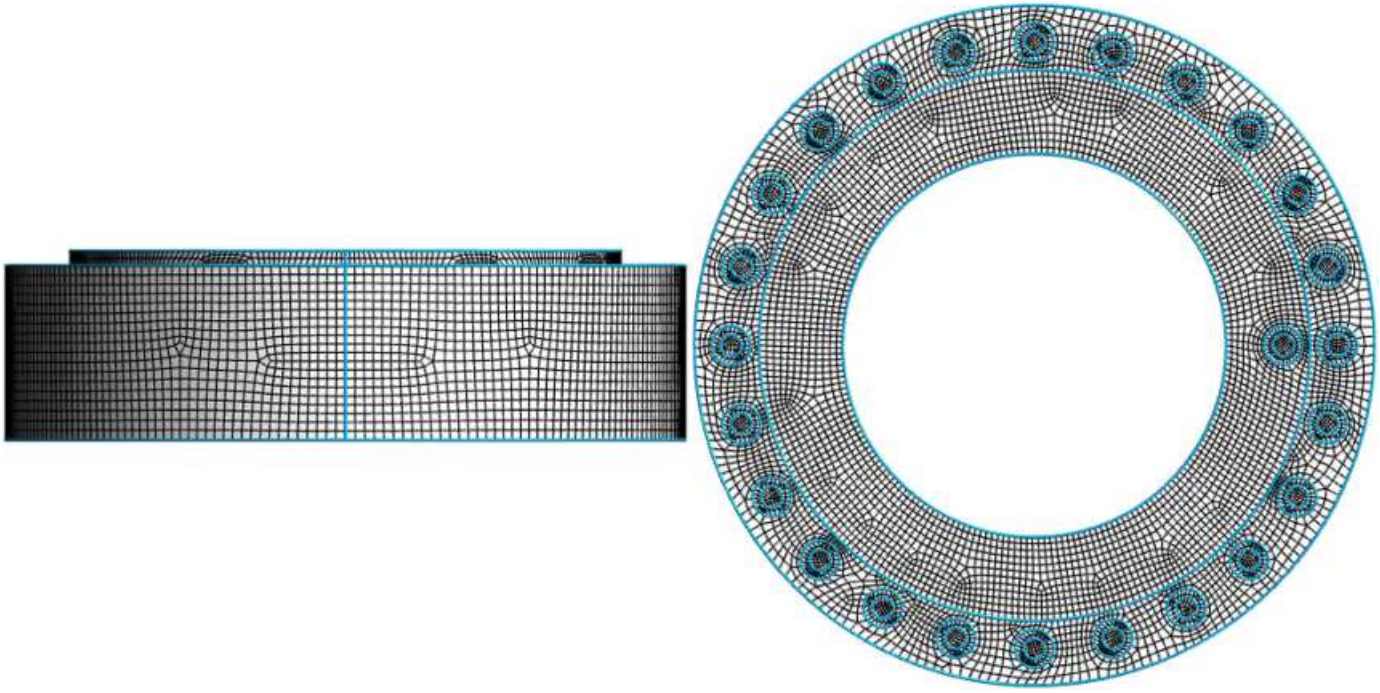
Model: 00004276 (from ABC dataset)
CAD: 106 corners, 159 curves, 106 faces
Cross field: 200 singularities detected
Timings: 22.6414 sec to generate the unstructured mesh, 25.5498 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30758	34372	1135	396
Quasi-structured	31231	34845	766	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0756993	0.451951	1.00632	0.211329	0.960945	0.996922
Quasi-structured	0.0874773	0.448446	1.10755	0.24335	0.962068	0.99757



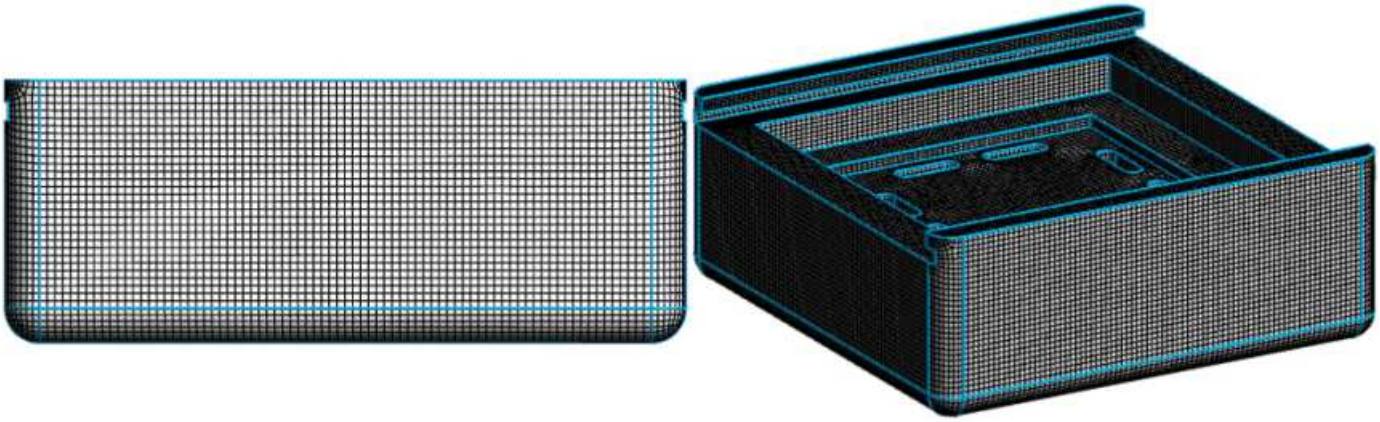


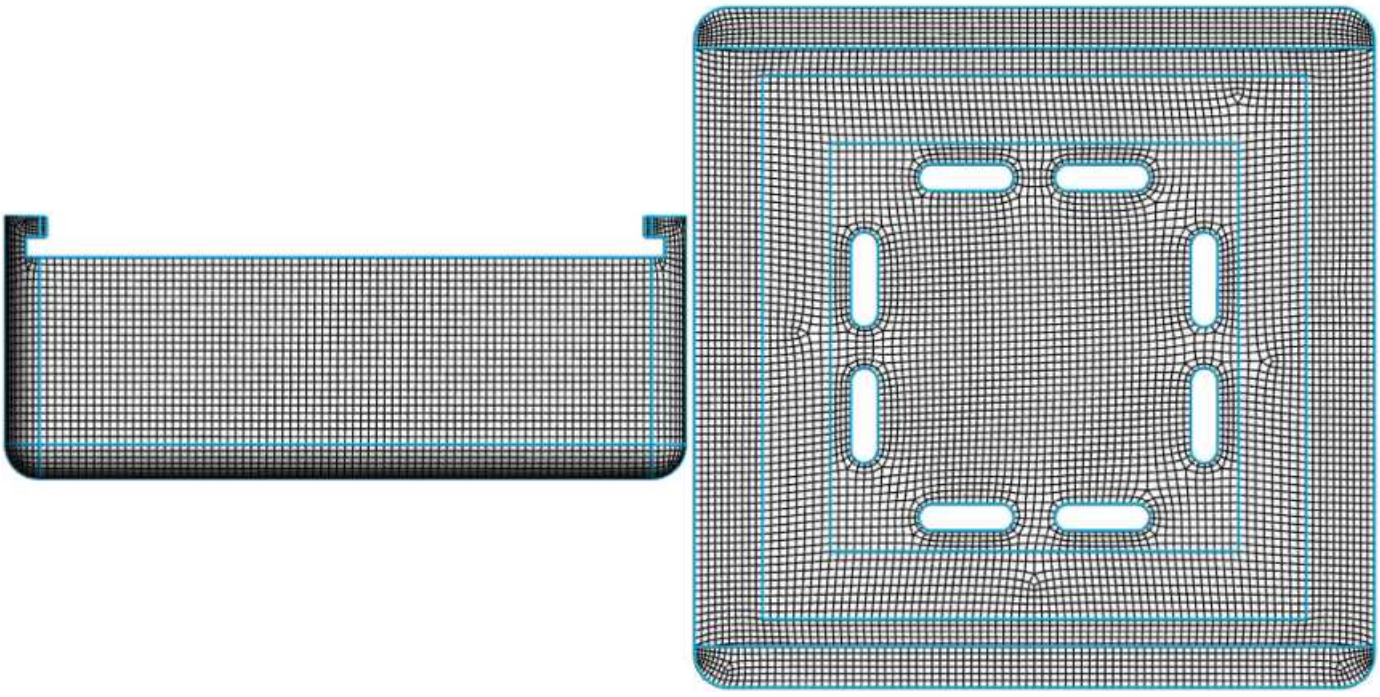
Model: 00004291 (from ABC dataset)
CAD: 132 corners, 208 curves, 77 faces
Cross field: 72 singularities detected
Timings: 24.1642 sec to generate the unstructured mesh, 4.78651 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36662	41280	384	19
Quasi-structured	38001	42619	120	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.227478	1.08535	1.8784	0.138544	0.966337	0.995064
Quasi-structured	0.266654	1.06426	1.90937	0.649522	0.974749	0.992818



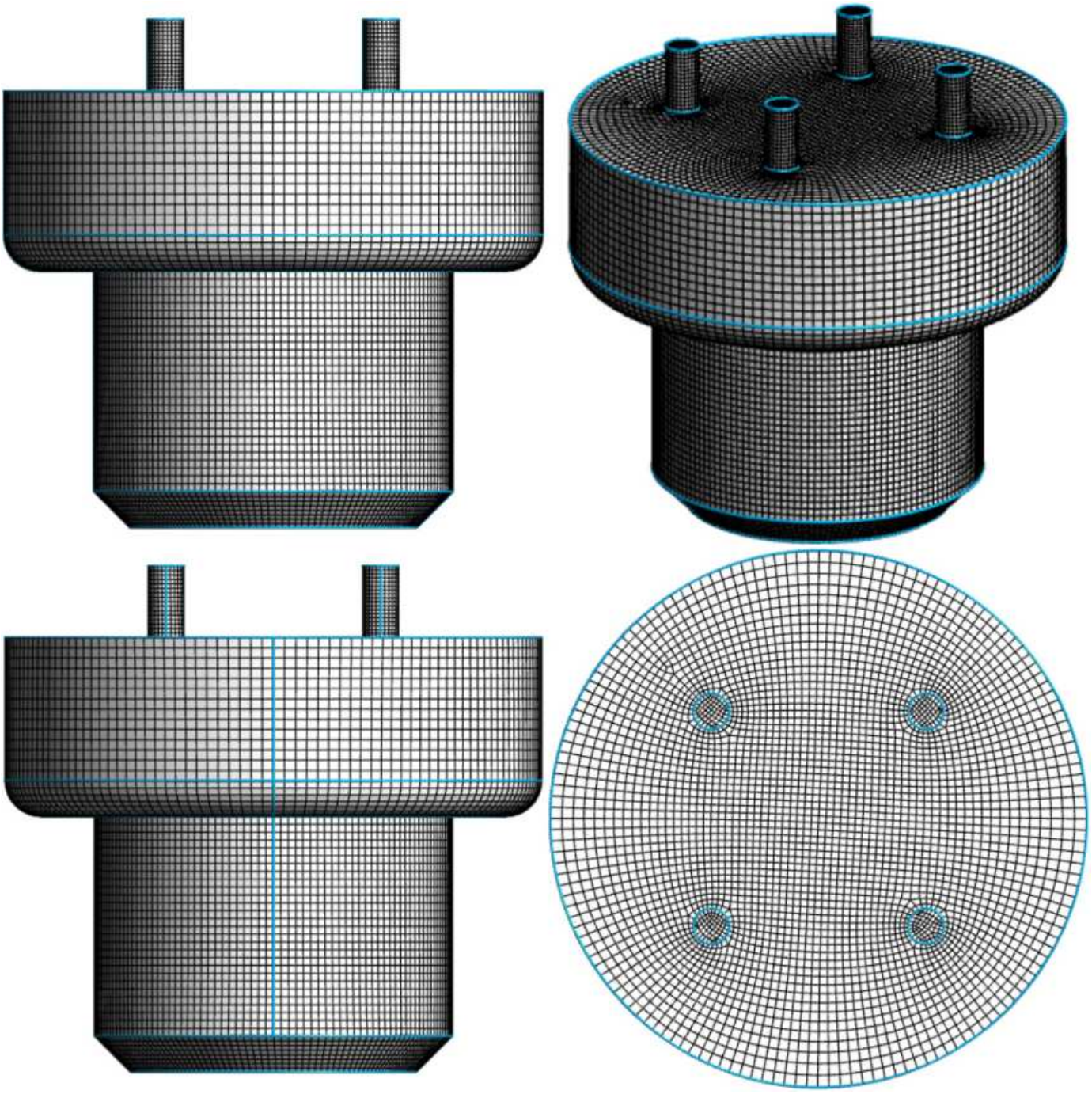


Model: 00004313 (from ABC dataset)
CAD: 15 corners, 23 curves, 15 faces
Cross field: 32 singularities detected
Timings: 15.3672 sec to generate the unstructured mesh, 2.20649 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18160	19282	159	121
Quasi-structured	17706	18828	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.12628	2.03294	4.2365	0.0827376	0.960122	0.996135
Quasi-structured	0.519911	2.05066	3.4759	0.687556	0.989608	0.997262

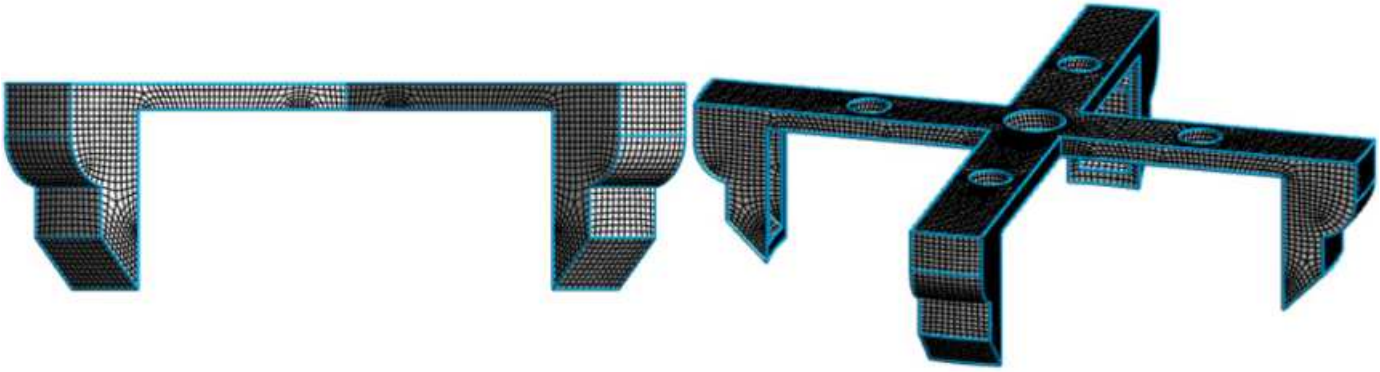


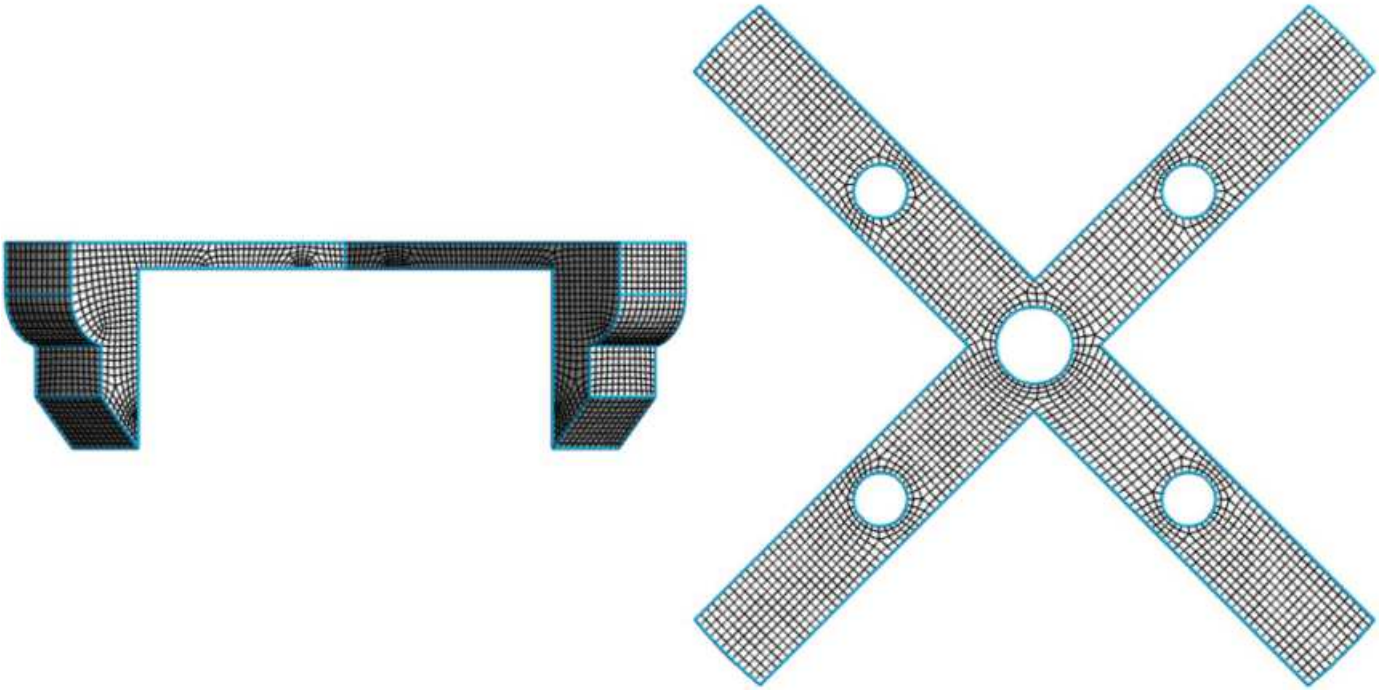
Model: 00004315 (from ABC dataset)
CAD: 167 corners, 248 curves, 87 faces
Cross field: 49 singularities detected
Timings: 7.03682 sec to generate the unstructured mesh, 80.4189 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16146	19898	671	34
Quasi-structured	16987	20739	262	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.220991	1.30866	2.55662	0.0870197	0.936678	0.97577
Quasi-structured	0.227137	1.2815	3.28514	0.12937	0.932392	0.974398



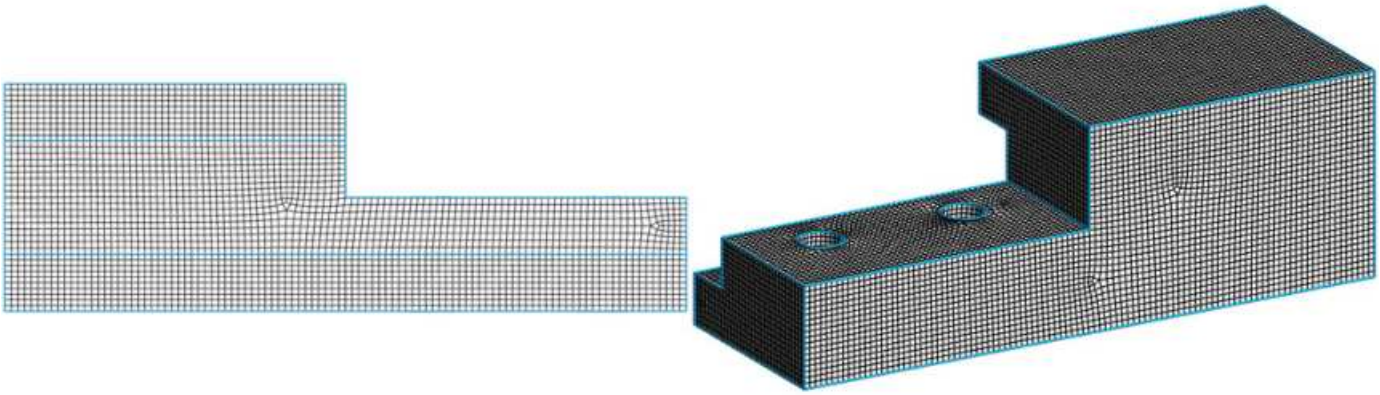


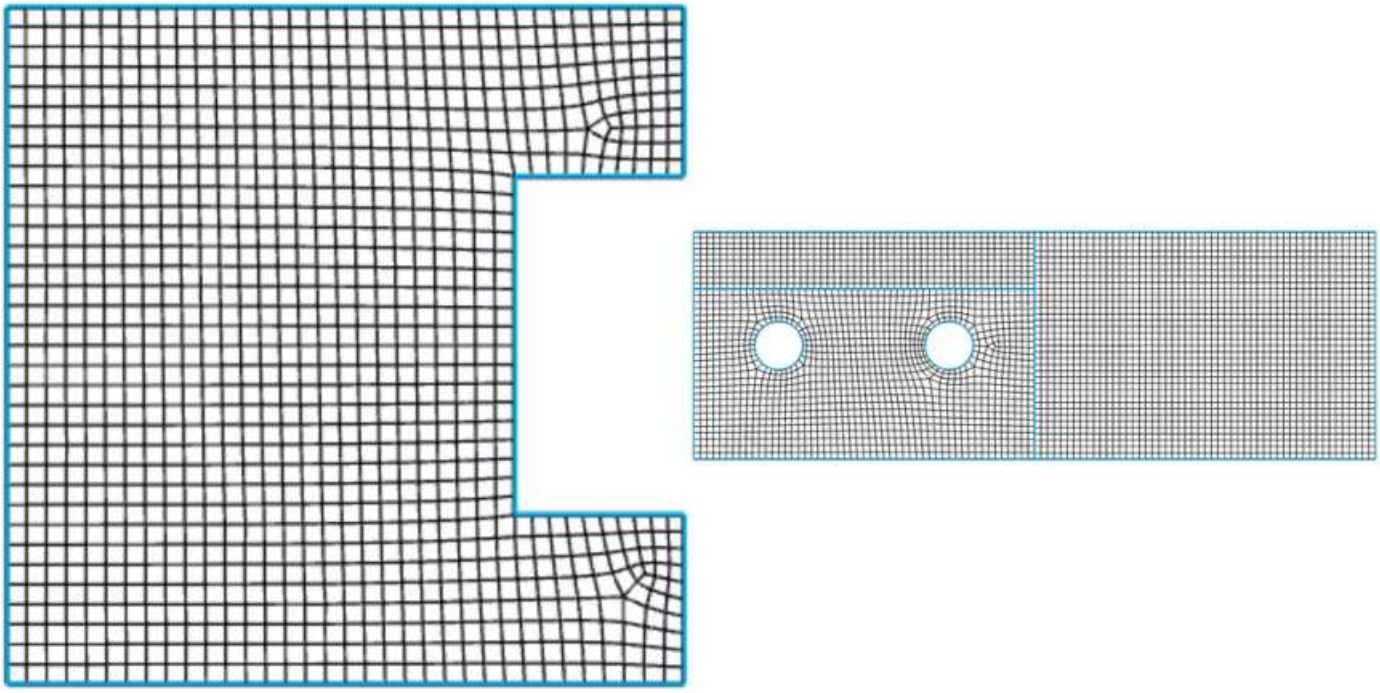
Model: 00004341 (from ABC dataset)
CAD: 26 corners, 38 curves, 14 faces
Cross field: 16 singularities detected
Timings: 9.56172 sec to generate the unstructured mesh, 1.5523 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17042	18274	122	45
Quasi-structured	17144	18376	38	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.138252	0.357825	0.579291	0.572667	0.985664	0.998227
Quasi-structured	0.145099	0.356256	0.618058	0.700868	0.993932	0.998481



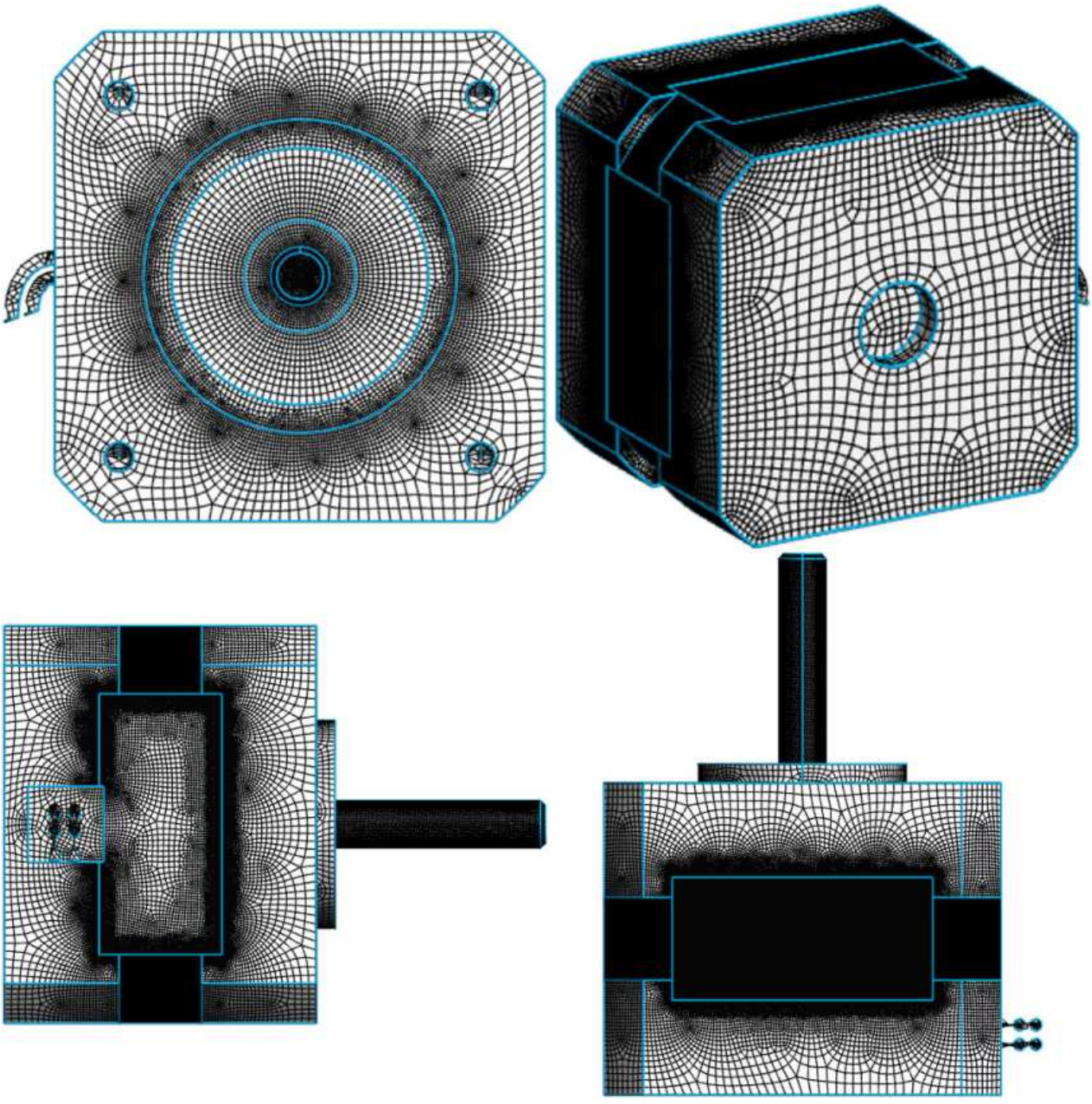


Model: 00004359 (from ABC dataset)
CAD: 127 corners, 199 curves, 83 faces
Cross field: 84 singularities detected
Timings: 27.8854 sec to generate the unstructured mesh, 650.774 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	349734	362339	5534	494
Quasi-structured	350168	362773	2608	35

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0224938	0.116541	2.32987	0.166337	0.955516	0.998597
Quasi-structured	0.0159632	0.115587	2.28096	0.149012	0.965815	0.997772

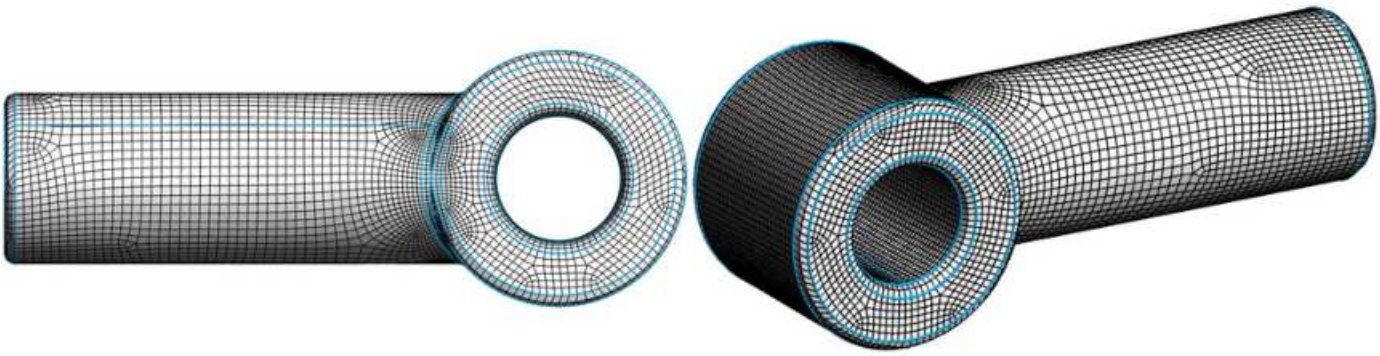


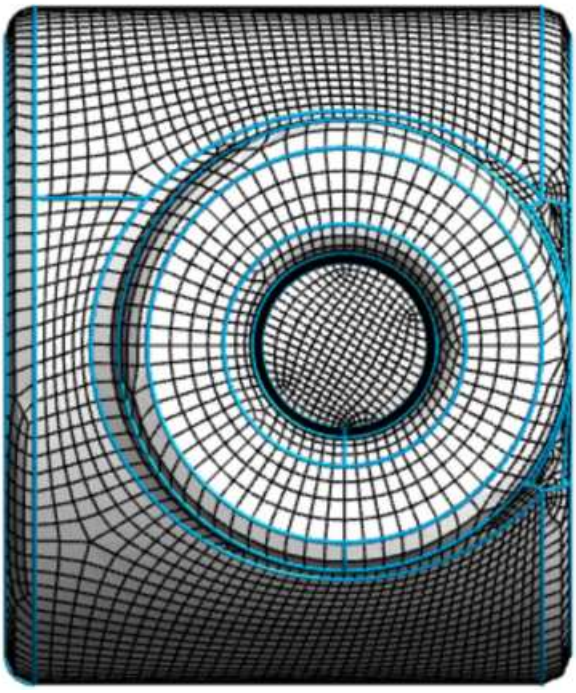
Model: 00004360 (from ABC dataset)
CAD: 30 corners, 48 curves, 21 faces
Cross field: 12 singularities detected
Timings: 13.3823 sec to generate the unstructured mesh, 18.1216 sec to make it quasi-structured
Mesh topology:

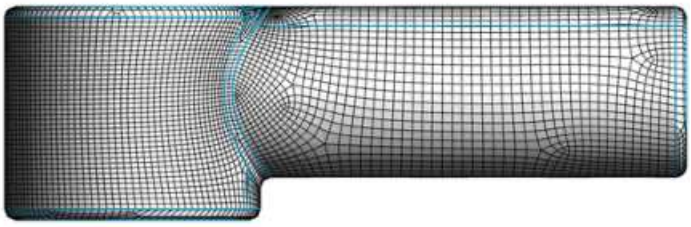
	# quads	# vertices	# irregular	# very irregular
Unstructured	16836	18165	395	221
Quasi-structured	18716	20045	133	3

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.028755	0.274636	0.688161	0.0820349	0.967049	0.995825
Quasi-structured	0.0221958	0.263039	0.752801	0.138128	0.965545	0.995841





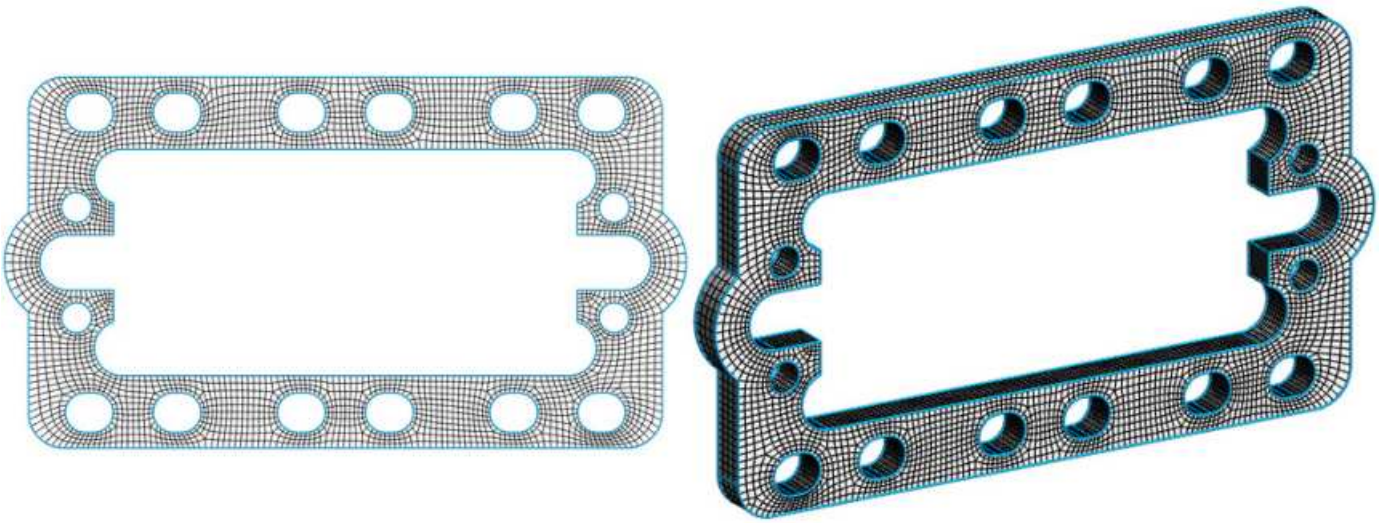


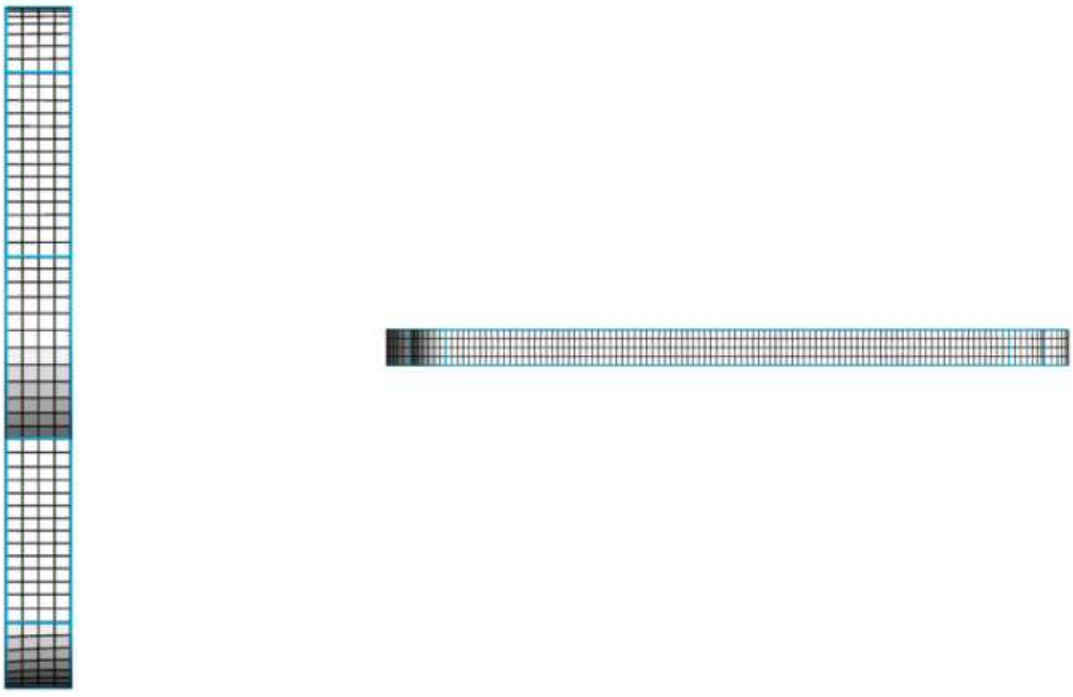
Model: 00004367 (from ABC dataset)
CAD: 160 corners, 240 curves, 82 faces
Cross field: 136 singularities detected
Timings: 13.3803 sec to generate the unstructured mesh, 3.088 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14530	17436	459	61
Quasi-structured	14637	17543	154	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.141223	0.465473	1.02241	0.322274	0.946185	0.969738
Quasi-structured	0.200599	0.463506	1.19857	0.420958	0.955215	0.969883



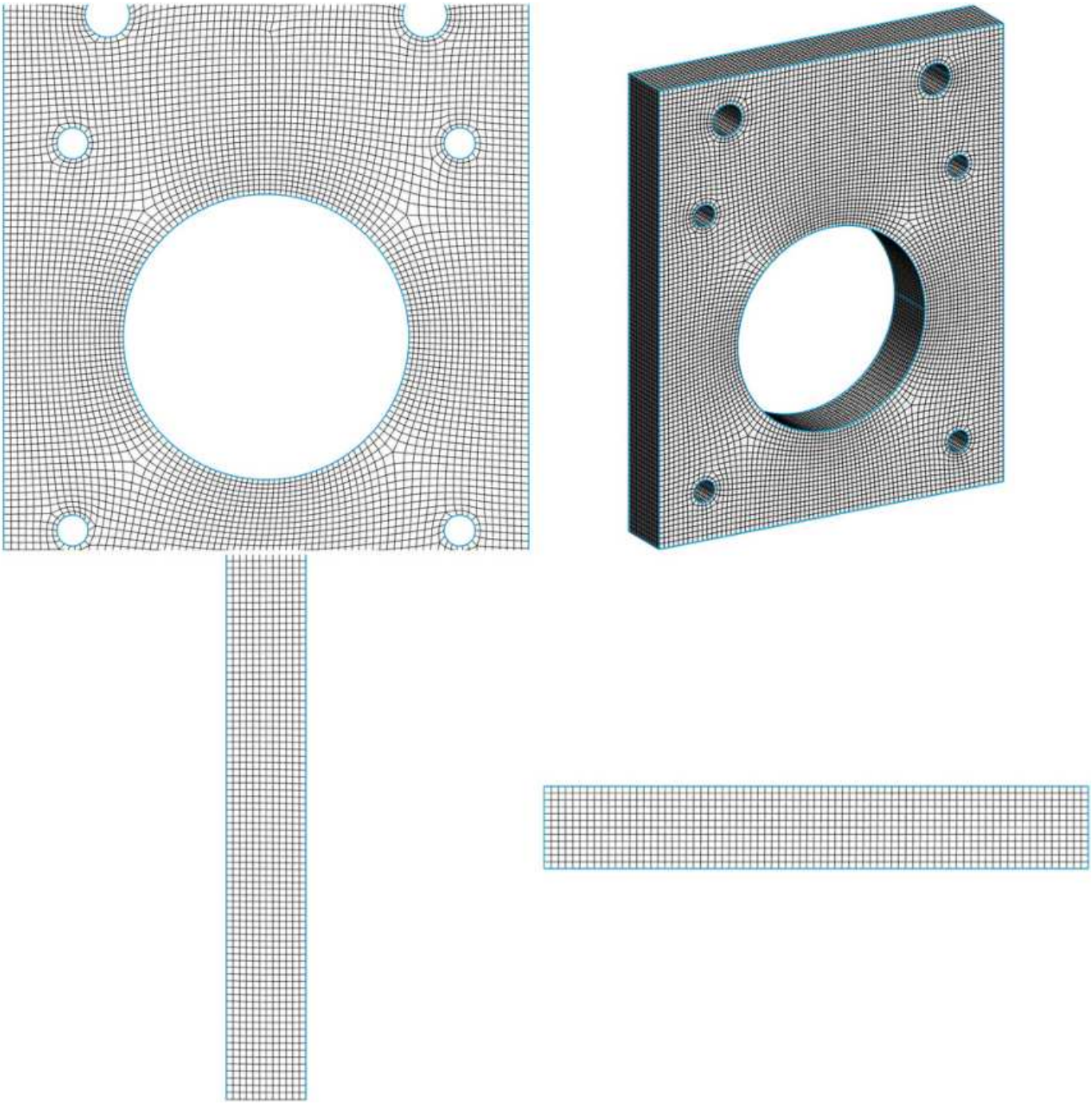


Model: 00004373 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 56 singularities detected
Timings: 17.4321 sec to generate the unstructured mesh, 2.73048 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19422	20694	312	113
Quasi-structured	19769	21041	56	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.138853	0.526498	0.969365	0.250878	0.978388	0.996928
Quasi-structured	0.269296	0.520696	1.08863	0.592109	0.990335	0.996527

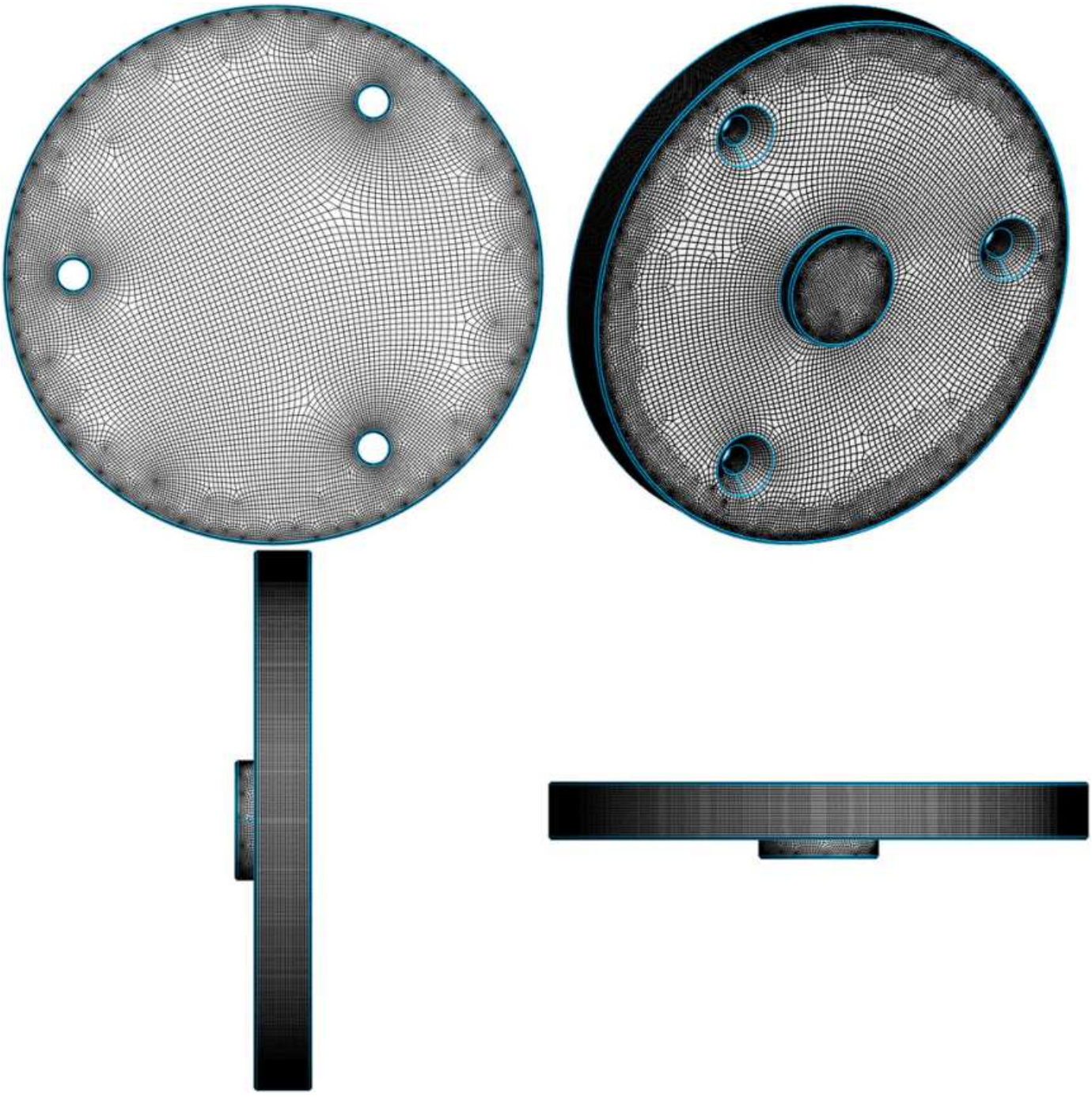


Model: 00004375 (from ABC dataset)
CAD: 20 corners, 34 curves, 17 faces
Cross field: 26 singularities detected
Timings: 18.423 sec to generate the unstructured mesh, 192.817 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	63464	68862	3035	321
Quasi-structured	67570	72968	844	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.223483	0.894866	4.10258	0.263491	0.933907	0.978072
Quasi-structured	0.132186	0.874007	4.47087	0.313908	0.951412	0.952595

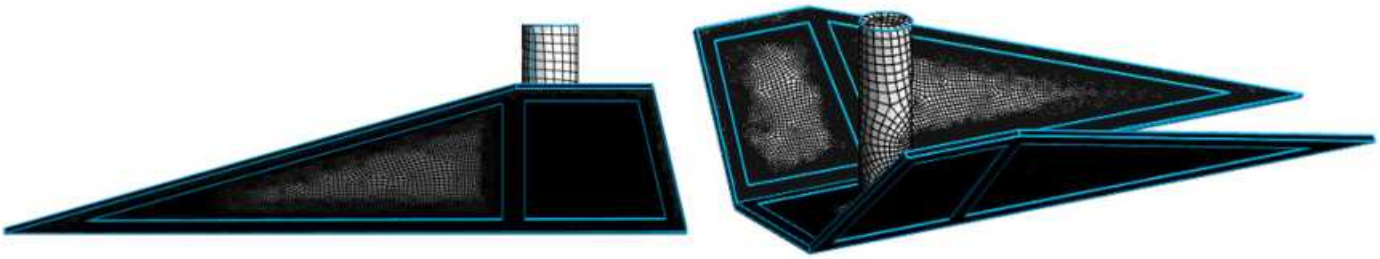


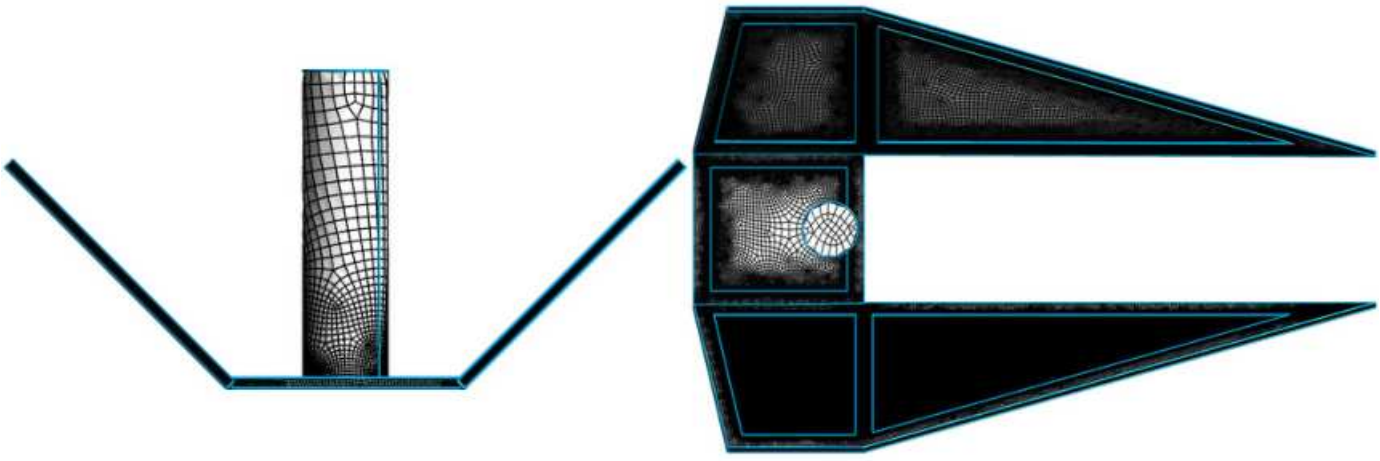
Model: 00004377 (from ABC dataset)
CAD: 127 corners, 196 curves, 81 faces
Cross field: 28 singularities detected
Timings: 22.2061 sec to generate the unstructured mesh, 1427.31 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	306408	332078	9011	737
Quasi-structured	384579	410249	4661	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00271639	1.63591	20.0809	0.00283214	0.943507	0.990613
Quasi-structured	0.00271639	1.48378	21.512	0.00418964	0.913255	0.984667



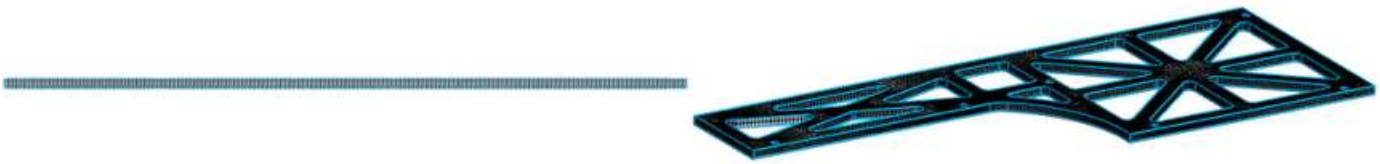


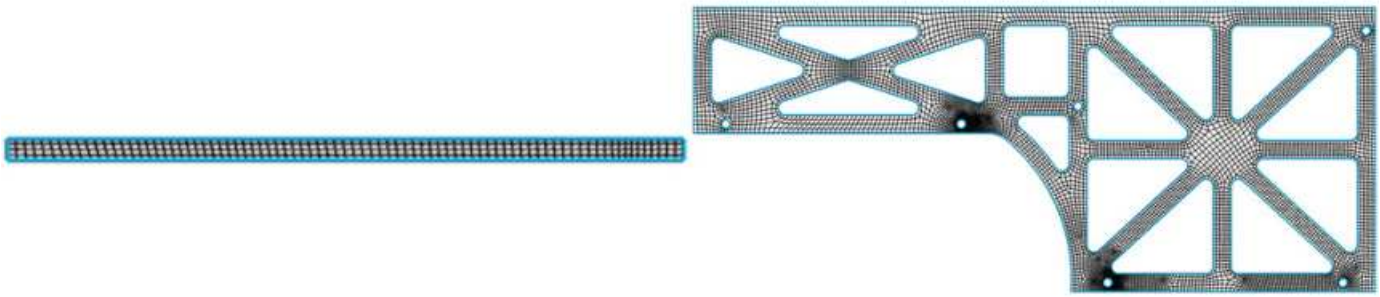
Model: 00004404 (from ABC dataset)
CAD: 201 corners, 300 curves, 101 faces
Cross field: 162 singularities detected
Timings: 13.7544 sec to generate the unstructured mesh, 21.3413 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23264	27683	996	106
Quasi-structured	23693	28112	370	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000121649	0.977158	2.67393	0.00236268	0.91223	0.947518
Quasi-structured	0.000121649	0.973953	2.87987	0.042112	0.931164	0.966378



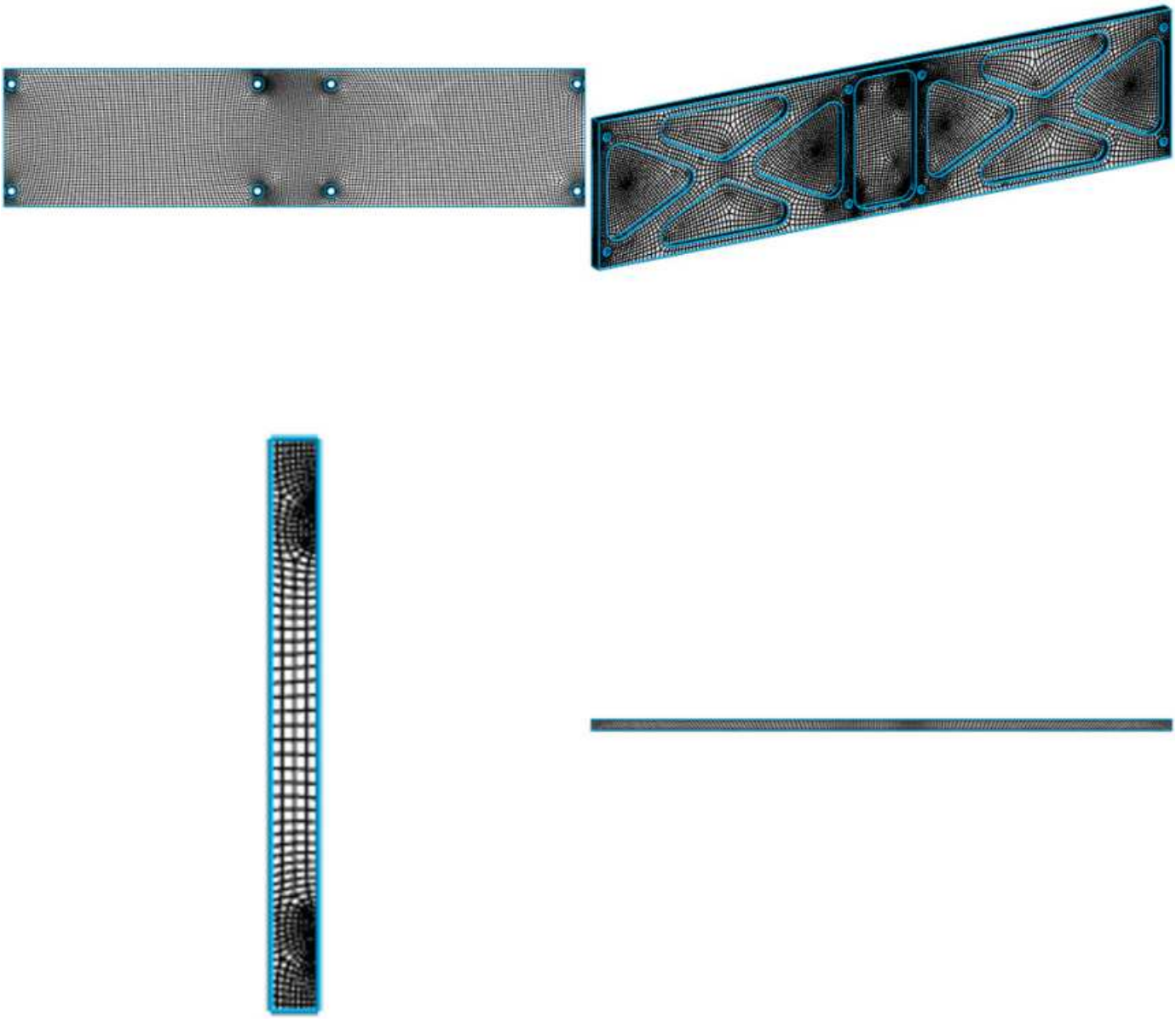


Model: 00004412 (from ABC dataset)
CAD: 176 corners, 260 curves, 95 faces
Cross field: 136 singularities detected
Timings: 10.8474 sec to generate the unstructured mesh, 16.573 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30638	34846	1767	150
Quasi-structured	34069	38277	474	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00977902	0.970724	2.73867	0.094942	0.891952	0.954882
Quasi-structured	0.0101546	0.952767	4.43321	0.185609	0.894127	0.936141

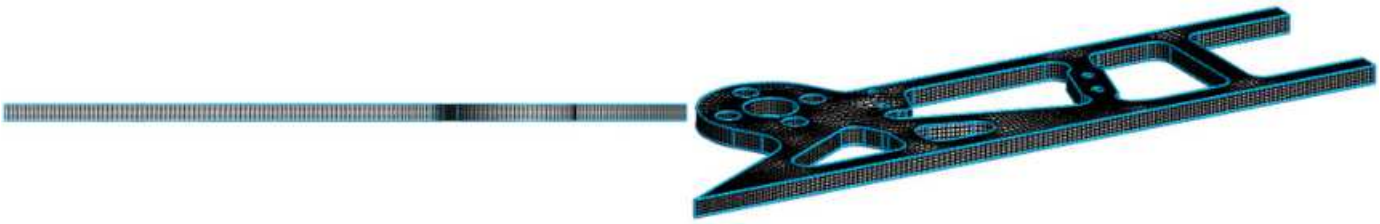


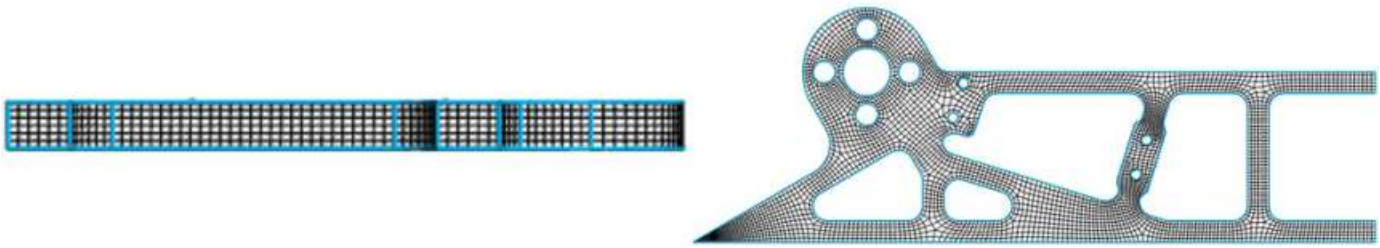
Model: 00004413 (from ABC dataset)
CAD: 142 corners, 213 curves, 73 faces
Cross field: 114 singularities detected
Timings: 11.4018 sec to generate the unstructured mesh, 10.8743 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13282	15836	459	70
Quasi-structured	13915	16469	152	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.26107	1.06806	2.49301	0.162435	0.931479	0.957676
Quasi-structured	0.183606	1.04438	3.3847	0.111747	0.934976	0.959419



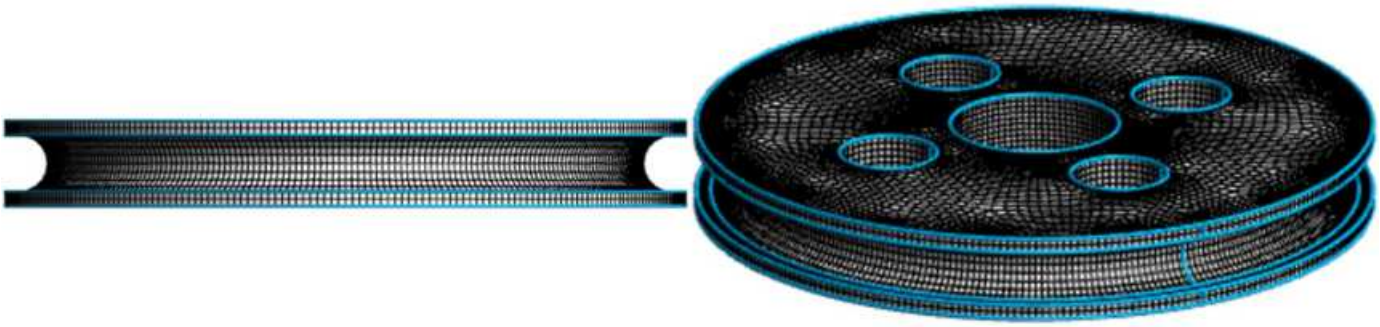


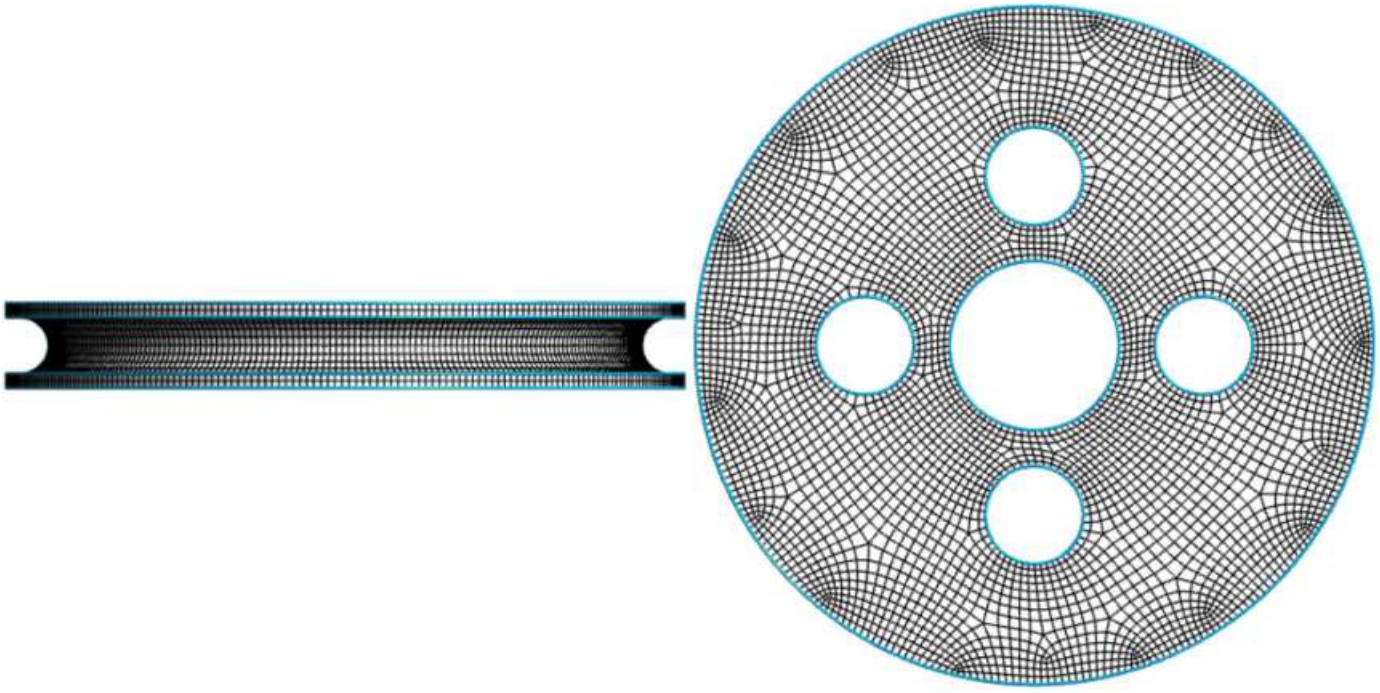
Model: 00004415 (from ABC dataset)
CAD: 20 corners, 28 curves, 12 faces
Cross field: 32 singularities detected
Timings: 6.45206 sec to generate the unstructured mesh, 8.4772 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17386	19734	601	142
Quasi-structured	17554	19902	158	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.130373	0.434579	0.934638	0.450299	0.953198	0.990976
Quasi-structured	0.170563	0.430173	0.926797	0.669101	0.979773	0.991937



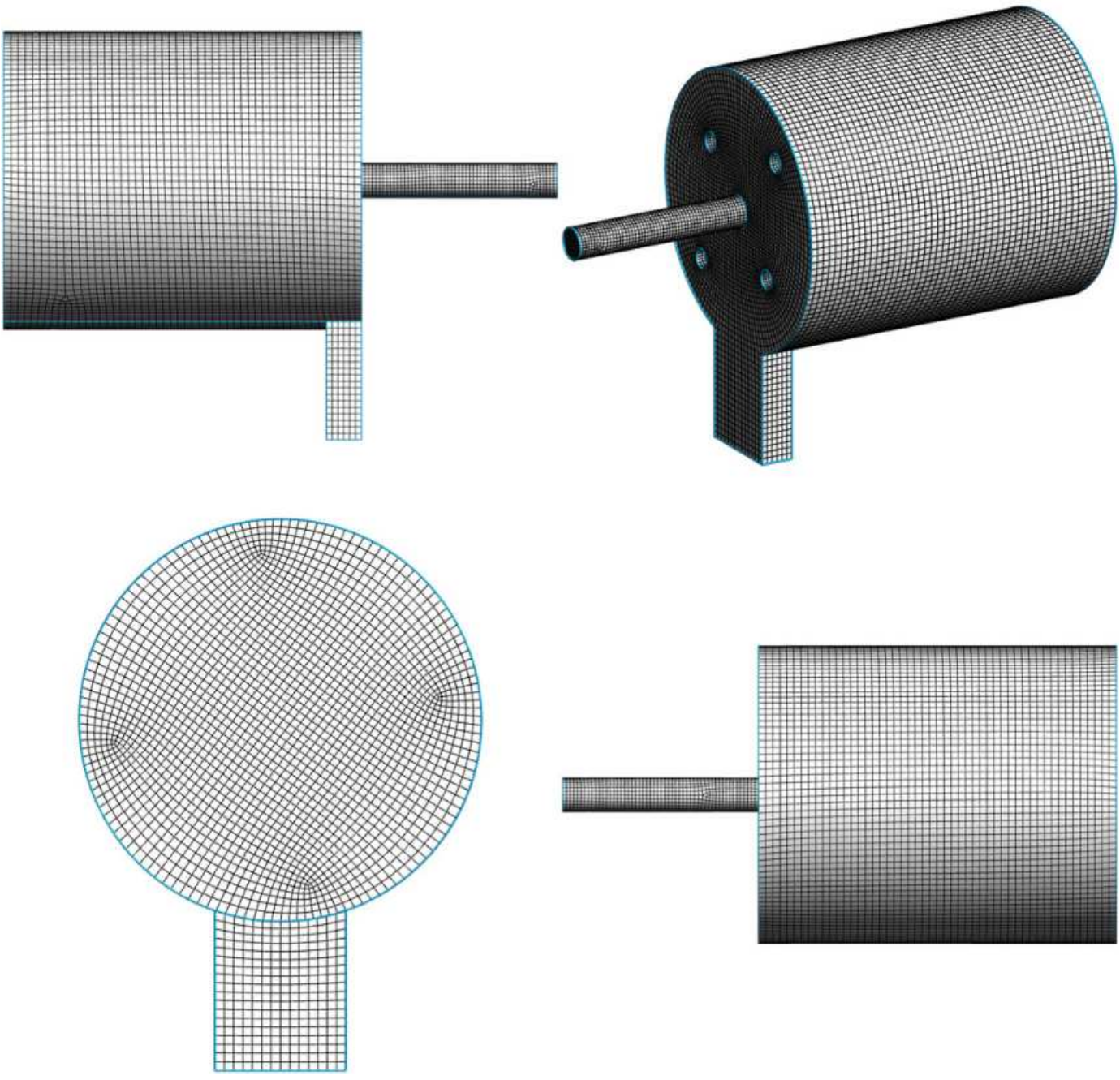


Model: 00004416 (from ABC dataset)
CAD: 25 corners, 39 curves, 17 faces
Cross field: 36 singularities detected
Timings: 13.7952 sec to generate the unstructured mesh, 2.3052 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15644	16286	190	202
Quasi-structured	15772	16414	62	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.149378	0.66648	1.35966	0.250076	0.978804	0.993928
Quasi-structured	0.144226	0.660842	1.10659	0.565825	0.993035	0.998574

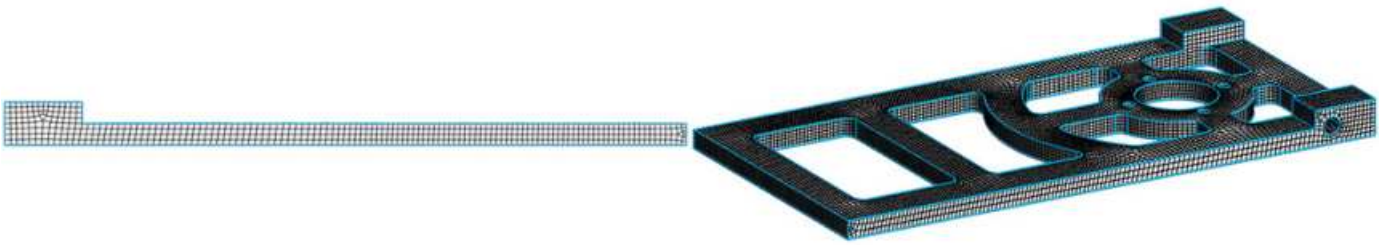


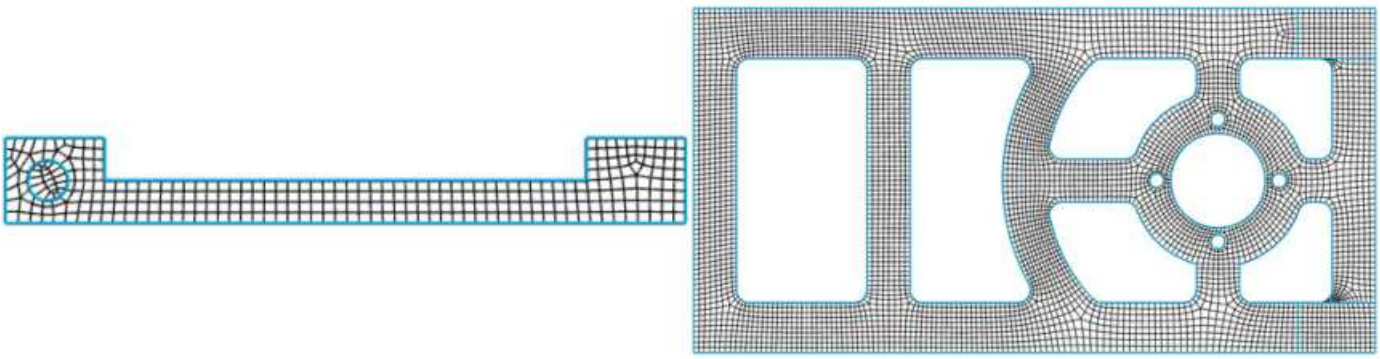
Model: 00004417 (from ABC dataset)
CAD: 148 corners, 220 curves, 72 faces
Cross field: 99 singularities detected
Timings: 11.3313 sec to generate the unstructured mesh, 4.02437 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16888	19719	387	60
Quasi-structured	16942	19773	136	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.149217	0.718407	1.5698	0.031294	0.961144	0.984404
Quasi-structured	0.183958	0.715894	1.62741	0.187818	0.969684	0.985305



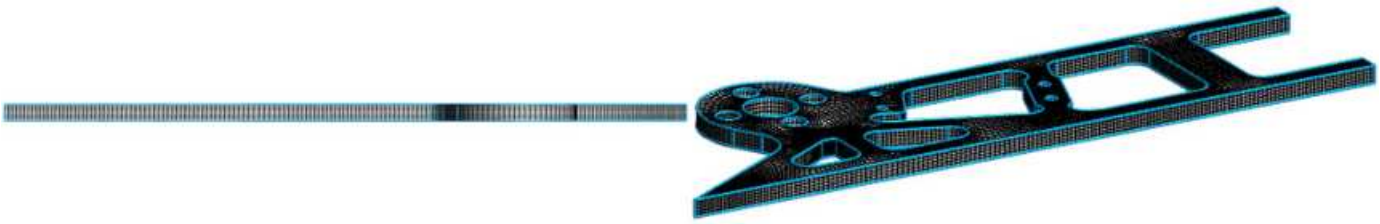


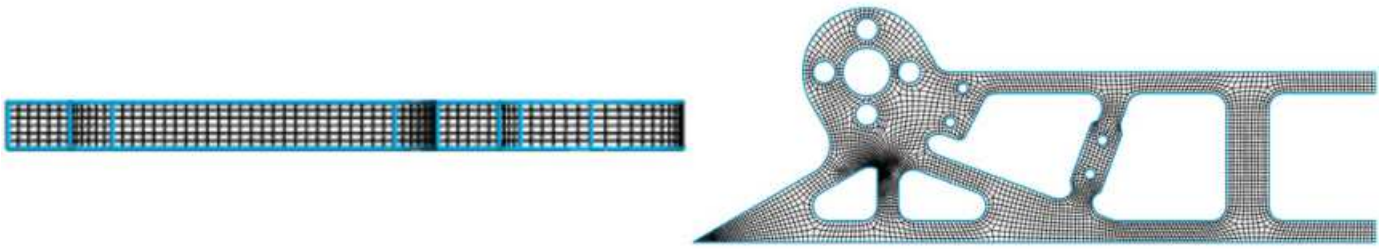
Model: 00004419 (from ABC dataset)
CAD: 140 corners, 210 curves, 72 faces
Cross field: 112 singularities detected
Timings: 14.1581 sec to generate the unstructured mesh, 16.1945 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17368	20169	844	88
Quasi-structured	17816	20617	196	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0272927	0.882916	2.36092	0.140744	0.924614	0.95677
Quasi-structured	0.0325439	0.874756	2.82542	0.201983	0.944846	0.96666





Model: 00004432 (from ABC dataset)
CAD: 122 corners, 204 curves, 79 faces
Cross field: 60 singularities detected
Timings: 14.017 sec to generate the unstructured mesh, 6.10512 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18270	20242	329	16
Quasi-structured	18861	20833	196	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0424969	0.532675	0.962808	0.0525511	0.964466	0.99134
Quasi-structured	0.0396175	0.522011	0.954166	0.310596	0.981085	0.996494



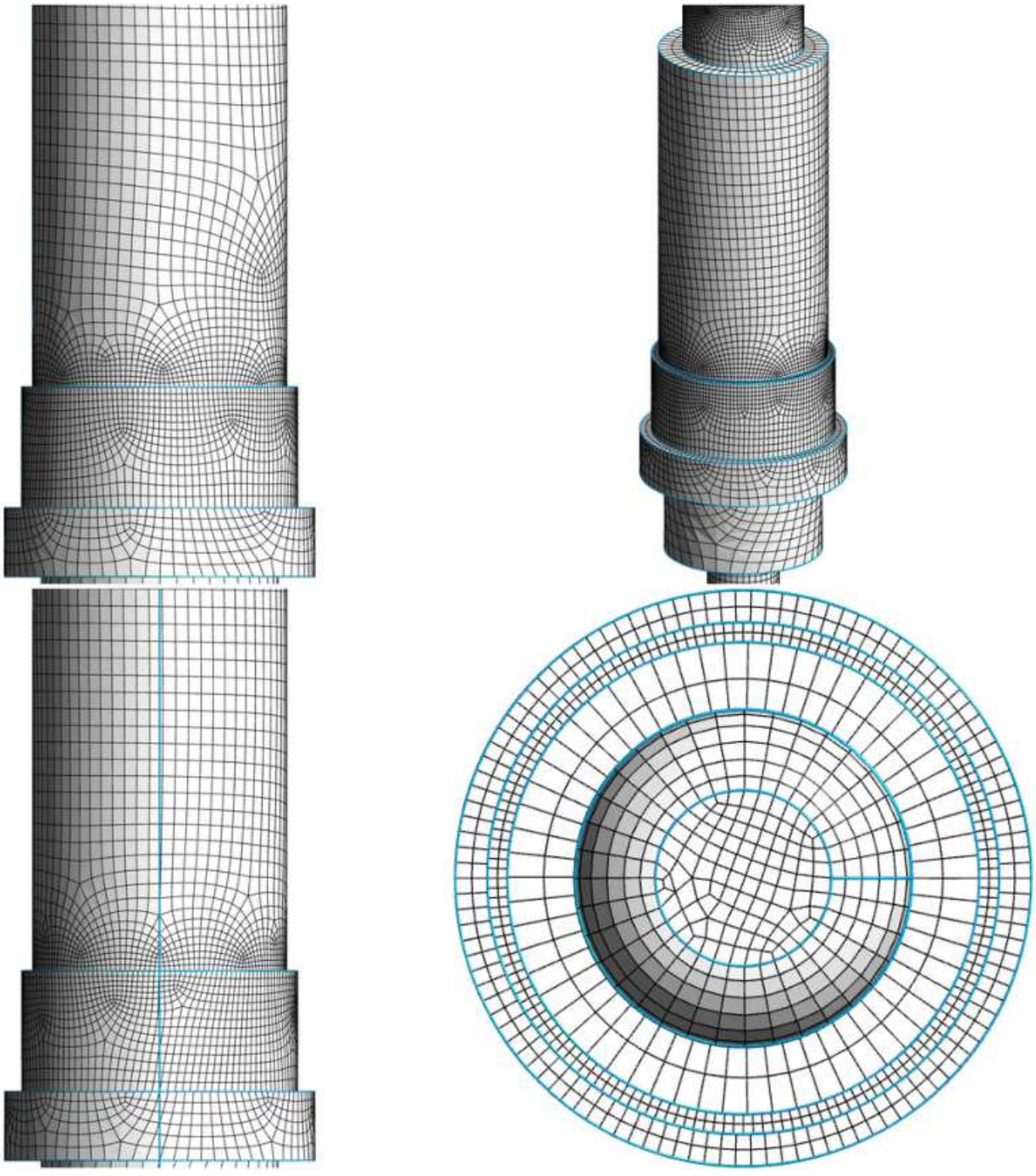


Model: 00004449 (from ABC dataset)
CAD: 17 corners, 26 curves, 16 faces
Cross field: 8 singularities detected
Timings: 5.39328 sec to generate the unstructured mesh, 229.473 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32030	34420	1501	359
Quasi-structured	32358	34748	803	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00124935	0.0245455	0.174864	0.172185	0.915919	0.981793
Quasi-structured	0.00126849	0.0248333	0.200826	0.44525	0.954566	0.989758

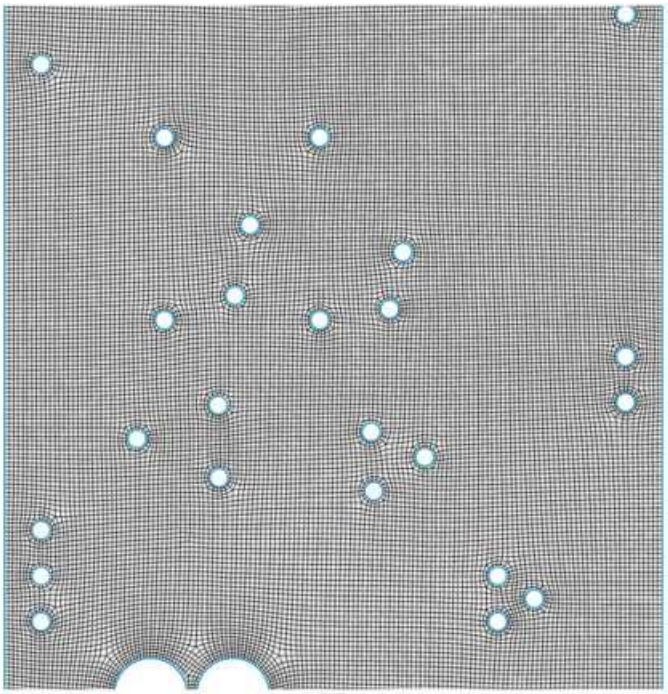


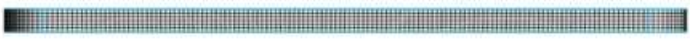
Model: 00004457 (from ABC dataset)
CAD: 156 corners, 234 curves, 80 faces
Cross field: 358 singularities detected
Timings: 113.98 sec to generate the unstructured mesh, 71.9728 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	109102	113864	1795	365
Quasi-structured	108578	113340	394	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.048994	0.595186	1.03938	0.151548	0.96978	0.995164
Quasi-structured	0.0859073	0.594566	1.33828	0.386913	0.985457	0.99701



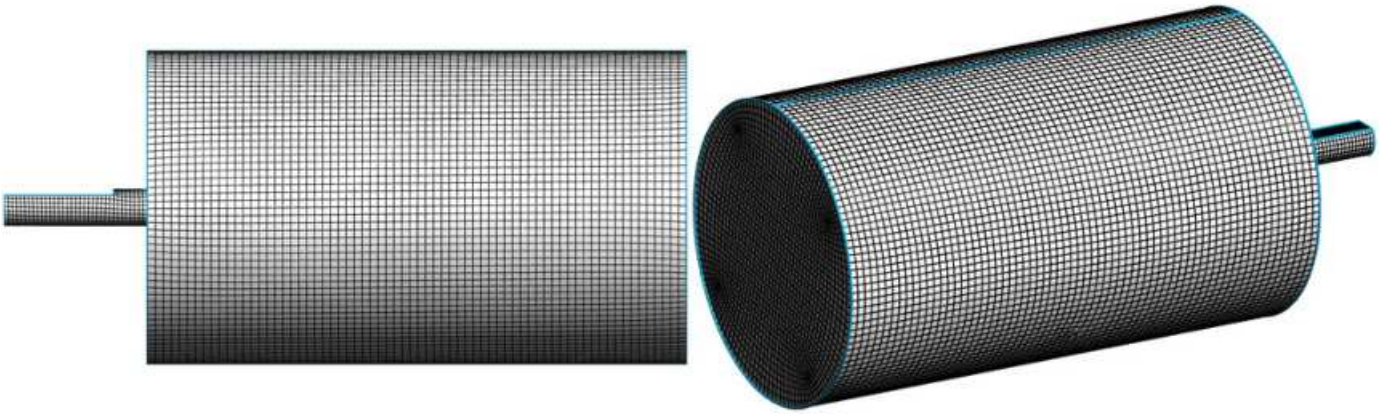



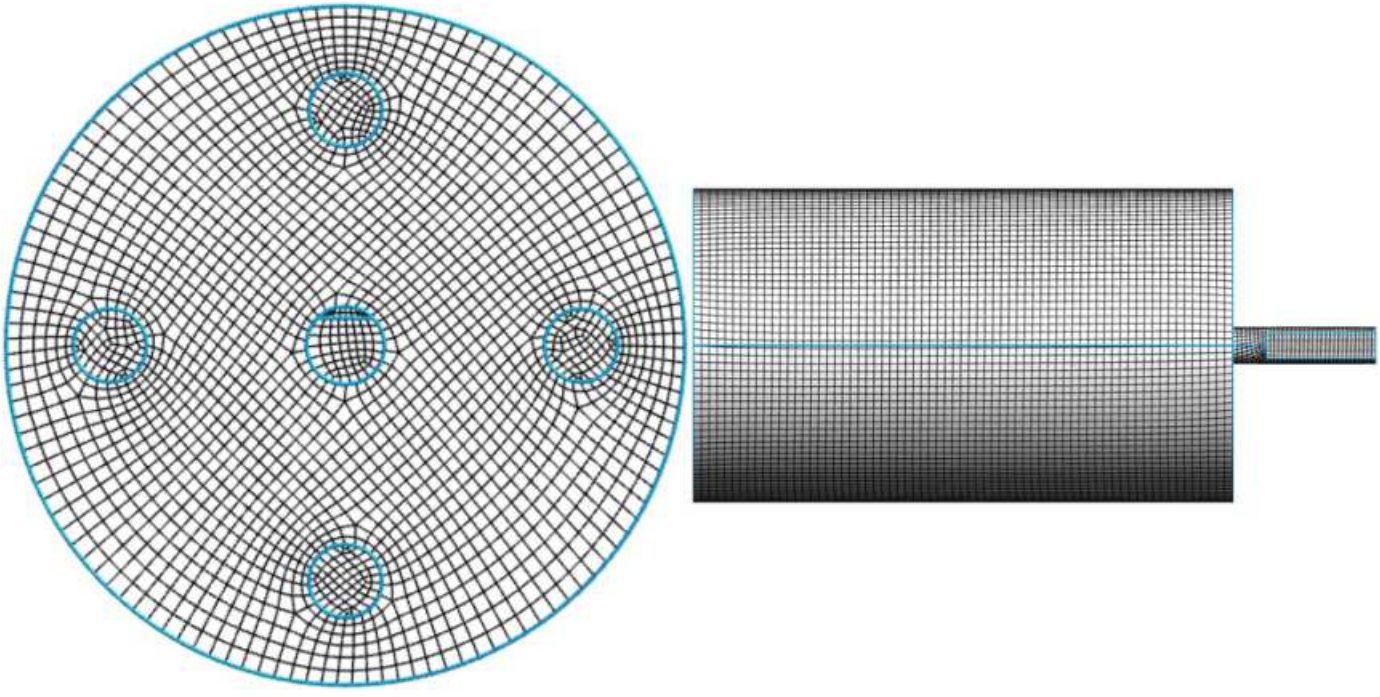
Model: 00004473 (from ABC dataset)
CAD: 16 corners, 24 curves, 15 faces
Cross field: 38 singularities detected
Timings: 13.3896 sec to generate the unstructured mesh, 2.04175 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15832	16430	184	157
Quasi-structured	15760	16358	76	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.127002	0.590861	1.17894	0.138507	0.980031	0.994628
Quasi-structured	0.0822215	0.589914	0.90602	0.526874	0.992438	0.999142



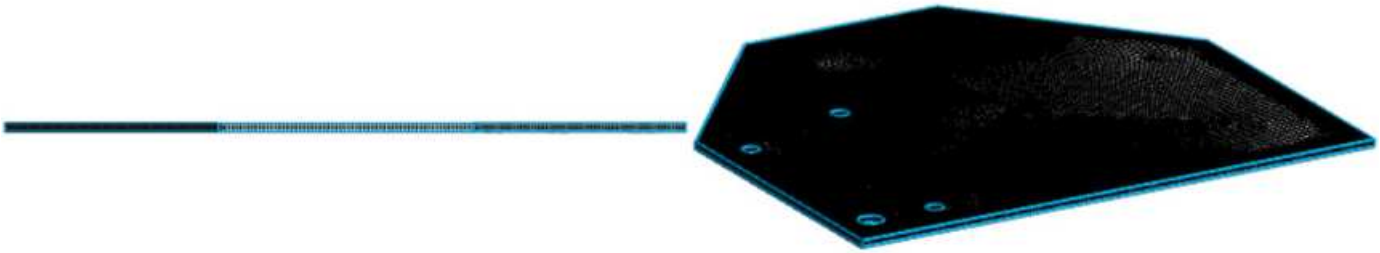


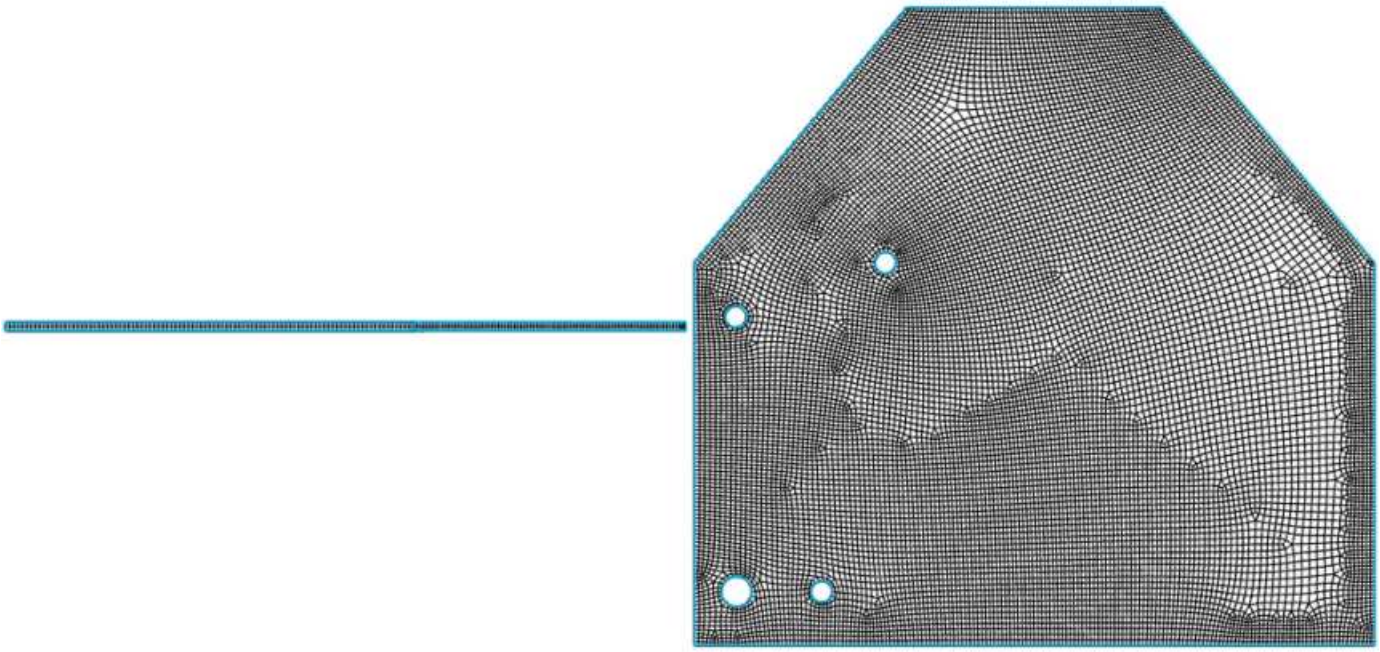
Model: 00004512 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 32 singularities detected
Timings: 17.2073 sec to generate the unstructured mesh, 30.6888 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30536	31894	623	42
Quasi-structured	30020	31378	292	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.334796	1.18372	2.66498	0.451876	0.943784	0.954439
Quasi-structured	0.338485	1.18734	3.22536	0.544859	0.972528	0.982169



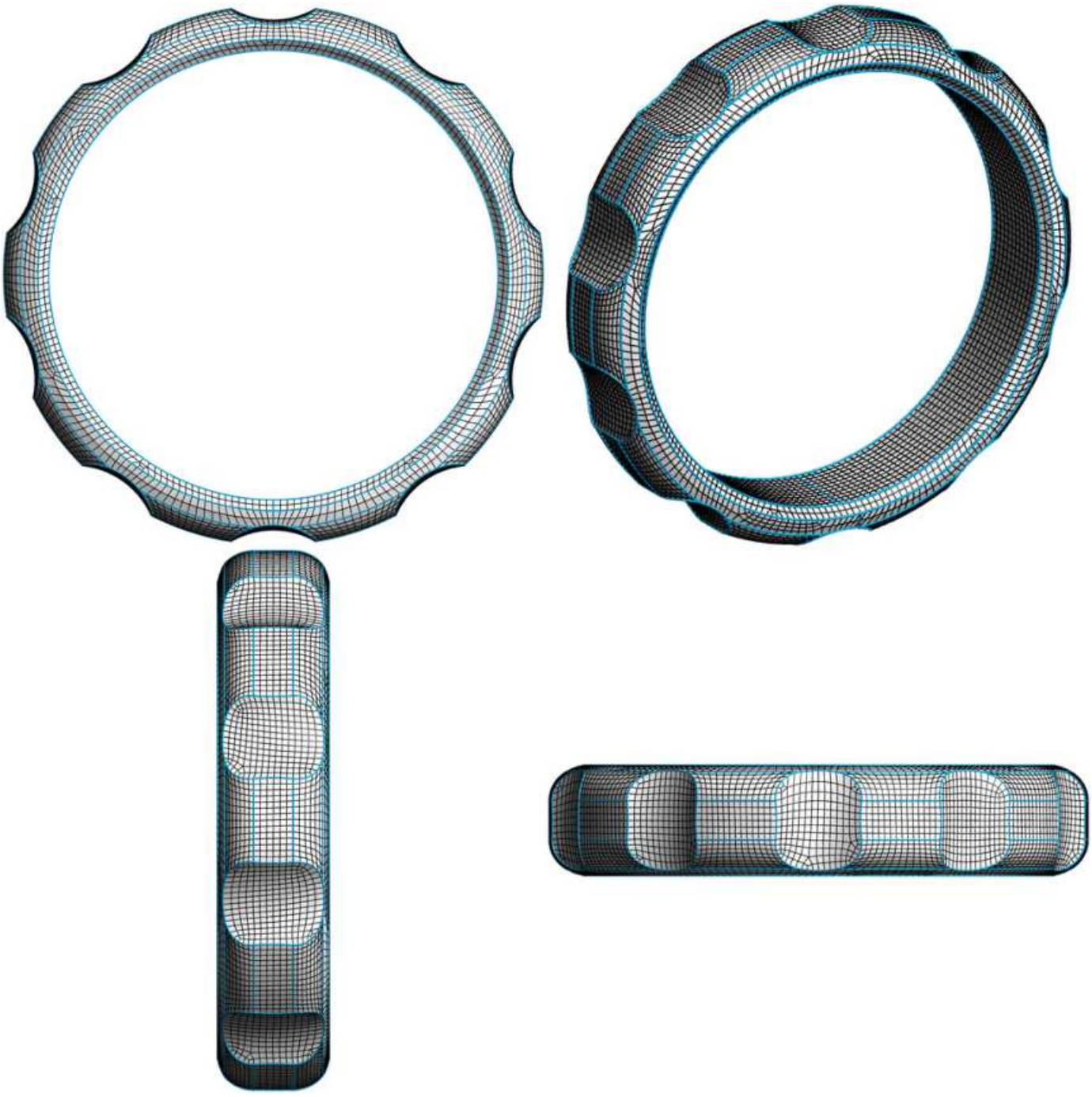


Model: 00004513 (from ABC dataset)
CAD: 87 corners, 132 curves, 45 faces
Cross field: 120 singularities detected
Timings: 6.19543 sec to generate the unstructured mesh, 2.31042 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9140	11104	244	32
Quasi-structured	9324	11288	154	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0970064	0.383641	0.677748	0.155251	0.919717	0.971718
Quasi-structured	0.124586	0.379734	0.807047	0.322375	0.927574	0.982303



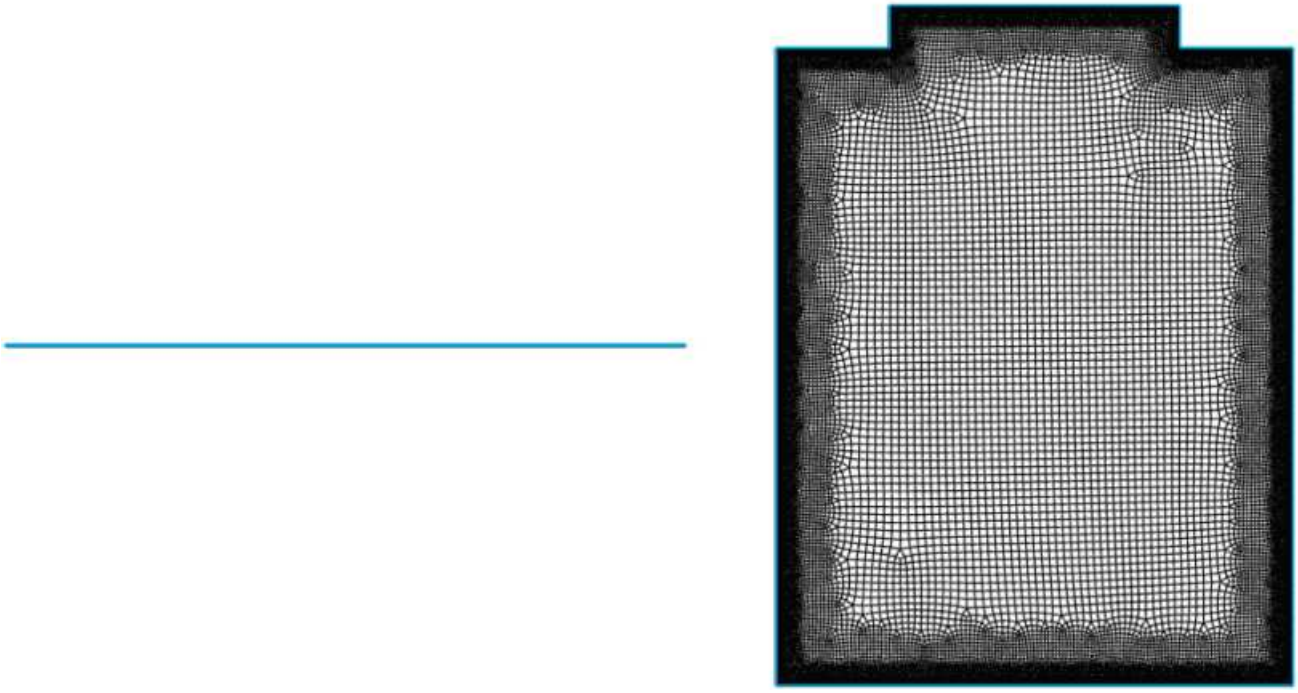
Model: 00004519 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 14.0141 sec to generate the unstructured mesh, 424.817 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	84958	90392	3662	427
Quasi-structured	85702	91136	3590	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.719084	3.86694	21.5035	0.461609	0.938913	0.985369
Quasi-structured	0.671616	3.76016	19.5	0.718831	0.981188	0.997695



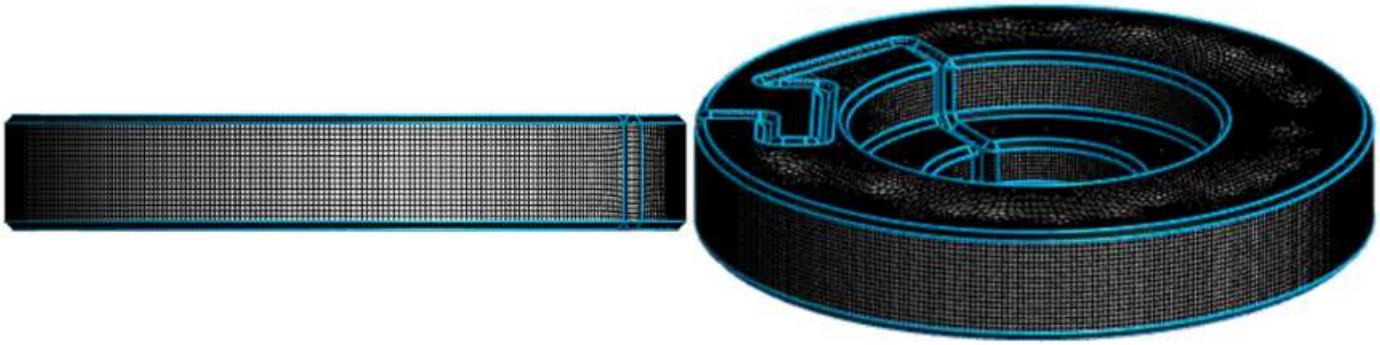


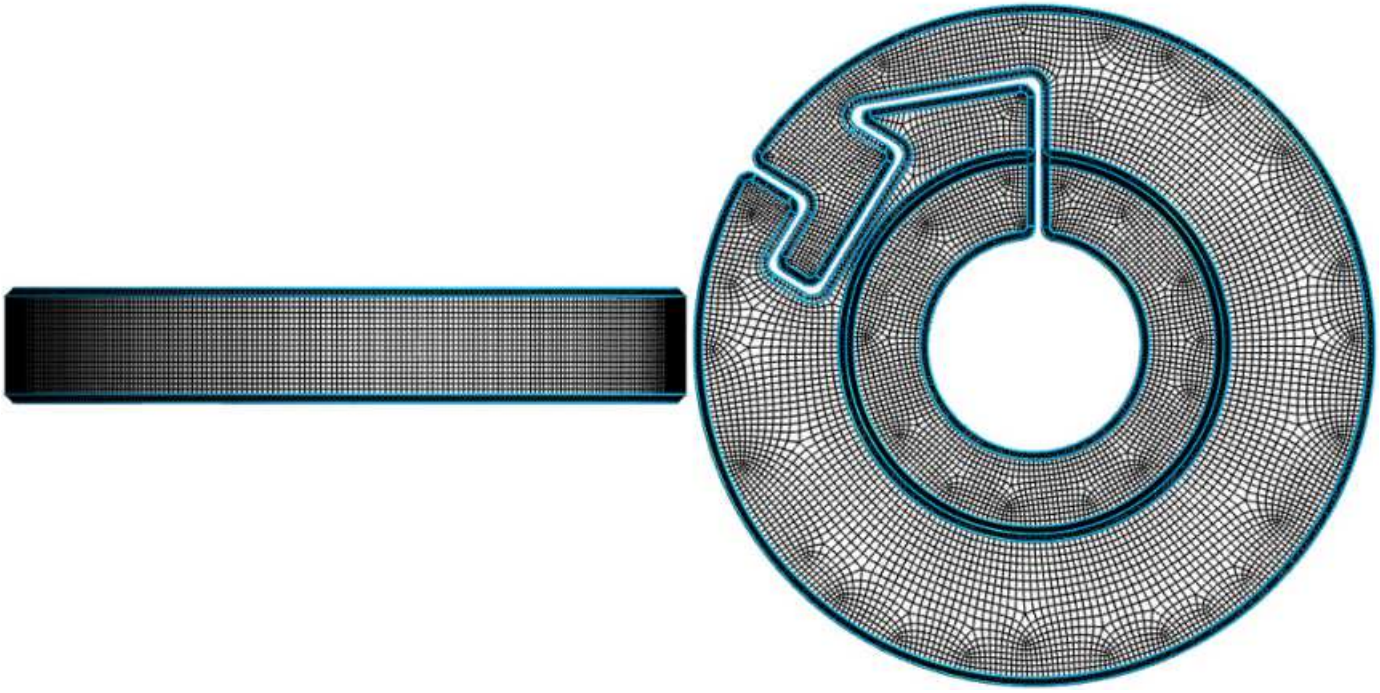
Model: 00004545 (from ABC dataset)
CAD: 140 corners, 249 curves, 110 faces
Cross field: 37 singularities detected
Timings: 12.8268 sec to generate the unstructured mesh, 109.353 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	39676	45110	715	49
Quasi-structured	40283	45717	328	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00663402	0.206258	0.550697	0	0	0.973241
Quasi-structured	0.0165748	0.204334	0.563725	0.255897	0.93601	0.984434



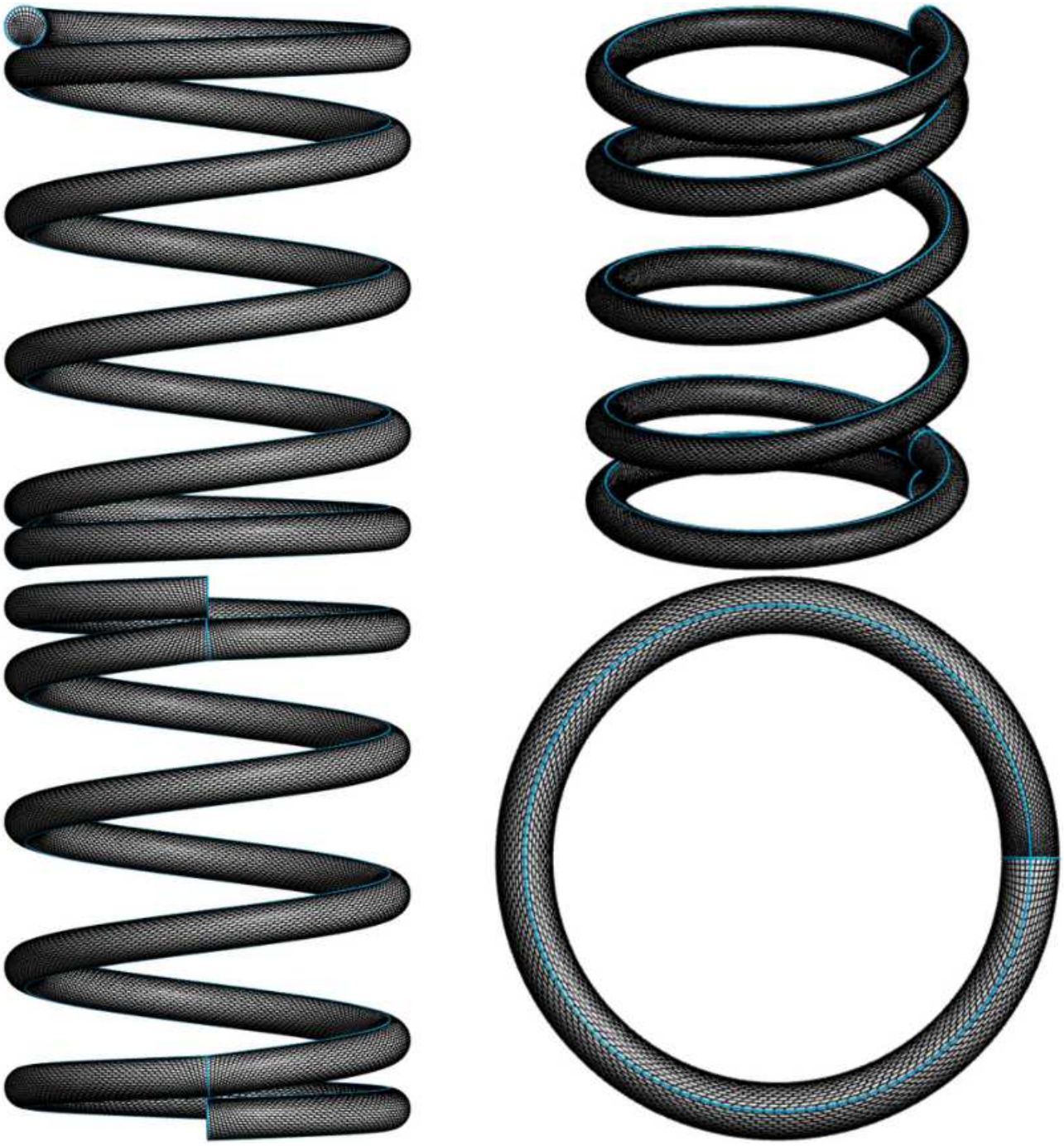


Model: 00004561 (from ABC dataset)
CAD: 8 corners, 14 curves, 8 faces
Cross field: 8 singularities detected
Timings: 99.6459 sec to generate the unstructured mesh, 3.18105 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	38548	40336	50	1
Quasi-structured	38610	40398	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00550133	0.0687774	0.114257	0.0464886	0.488373	0.459555
Quasi-structured	0.00755225	0.0680306	0.097681	0.30721	0.502061	0.465425

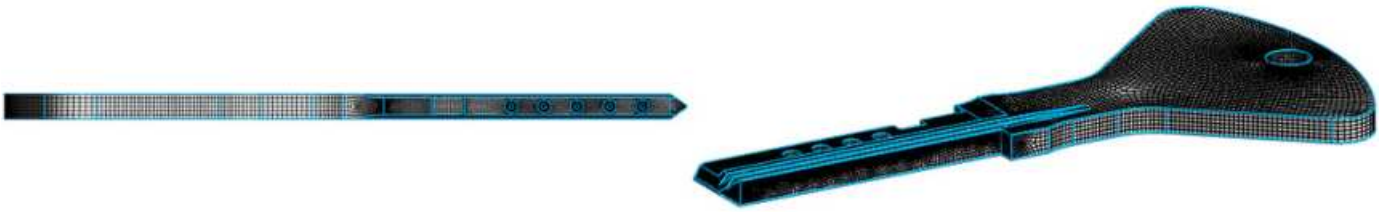


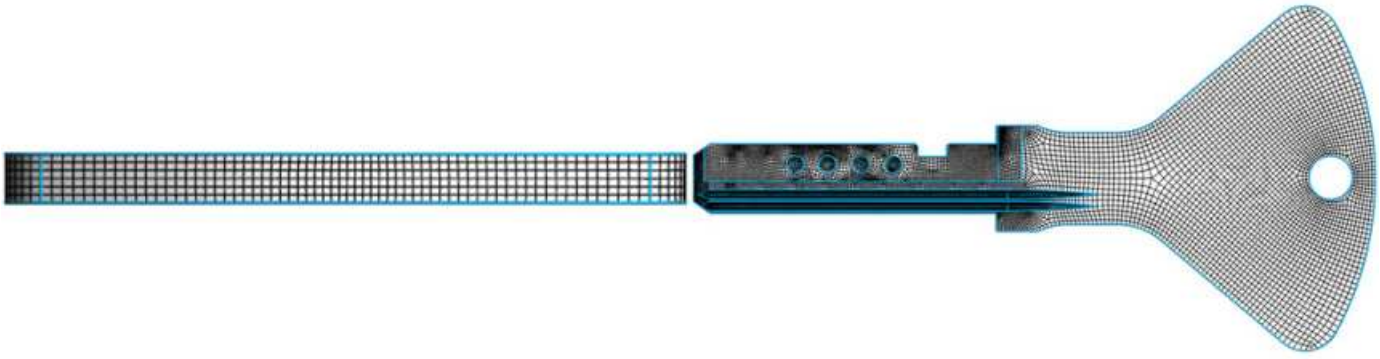
Model: 00004564 (from ABC dataset)
CAD: 139 corners, 204 curves, 80 faces
Cross field: 142 singularities detected
Timings: 14.1355 sec to generate the unstructured mesh, 124.829 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40570	47363	2653	178
Quasi-structured	41942	48735	979	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0249803	0.378784	1.58109	0.0741523	0.927821	0.975943
Quasi-structured	0.018313	0.374225	1.69351	0.180552	0.926367	0.959062



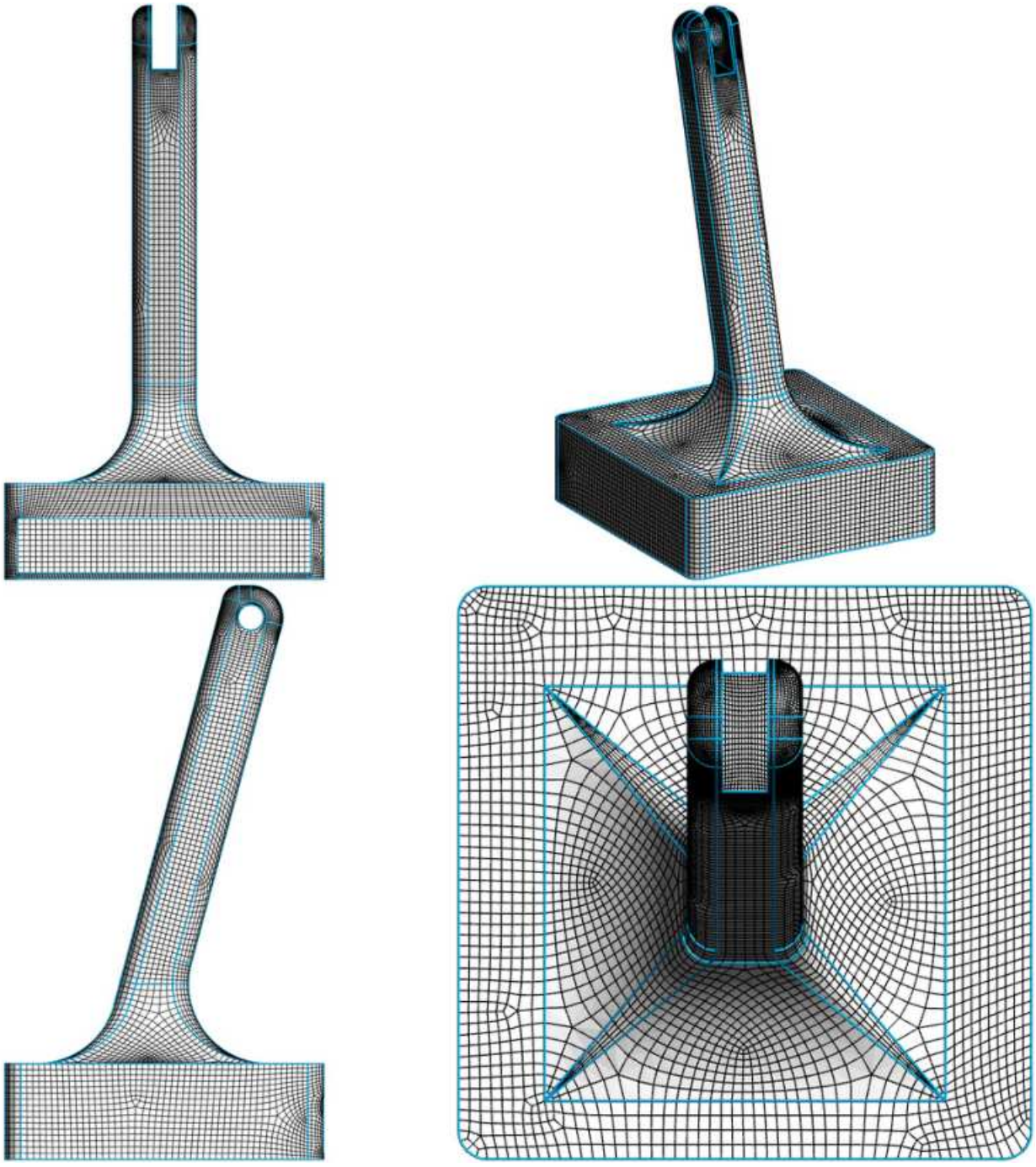


Model: 00004569 (from ABC dataset)
CAD: 80 corners, 136 curves, 53 faces
Cross field: 40 singularities detected
Timings: 13.2068 sec to generate the unstructured mesh, 12.0666 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24160	27162	985	60
Quasi-structured	26566	29568	240	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0279185	1.44326	3.74281	0.0311101	0.928531	0.984538
Quasi-structured	0.161661	1.38789	6.46698	0.159112	0.928891	0.976057

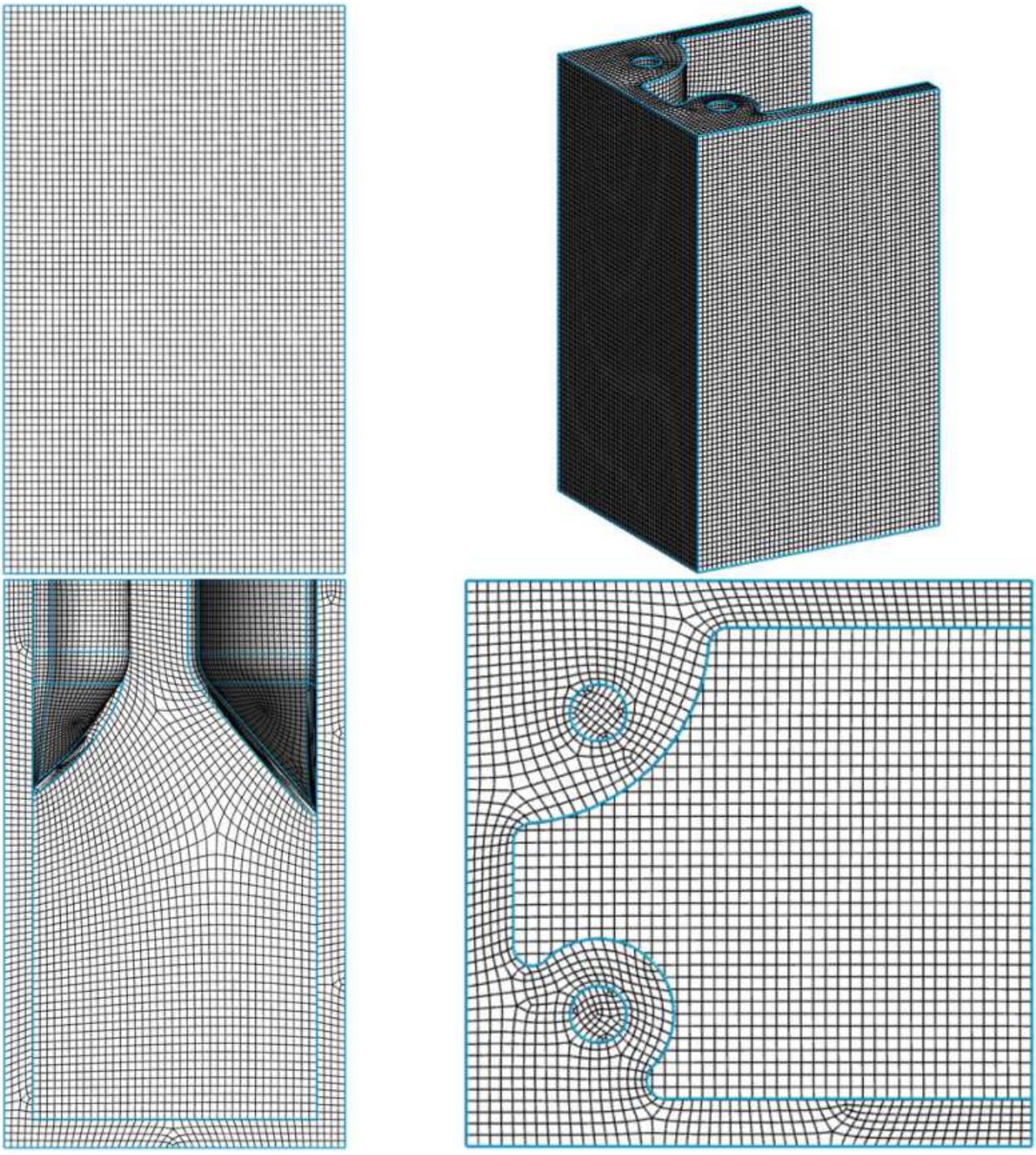


Model: 00004572 (from ABC dataset)
CAD: 46 corners, 74 curves, 32 faces
Cross field: 29 singularities detected
Timings: 19.6496 sec to generate the unstructured mesh, 4.4029 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29324	31170	361	47
Quasi-structured	29356	31202	161	6

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0225021	0.610673	7.48924	0.00384321	0.978878	0.999138
Quasi-structured	0.0225021	0.607802	7.48755	0.00384321	0.98198	0.99917

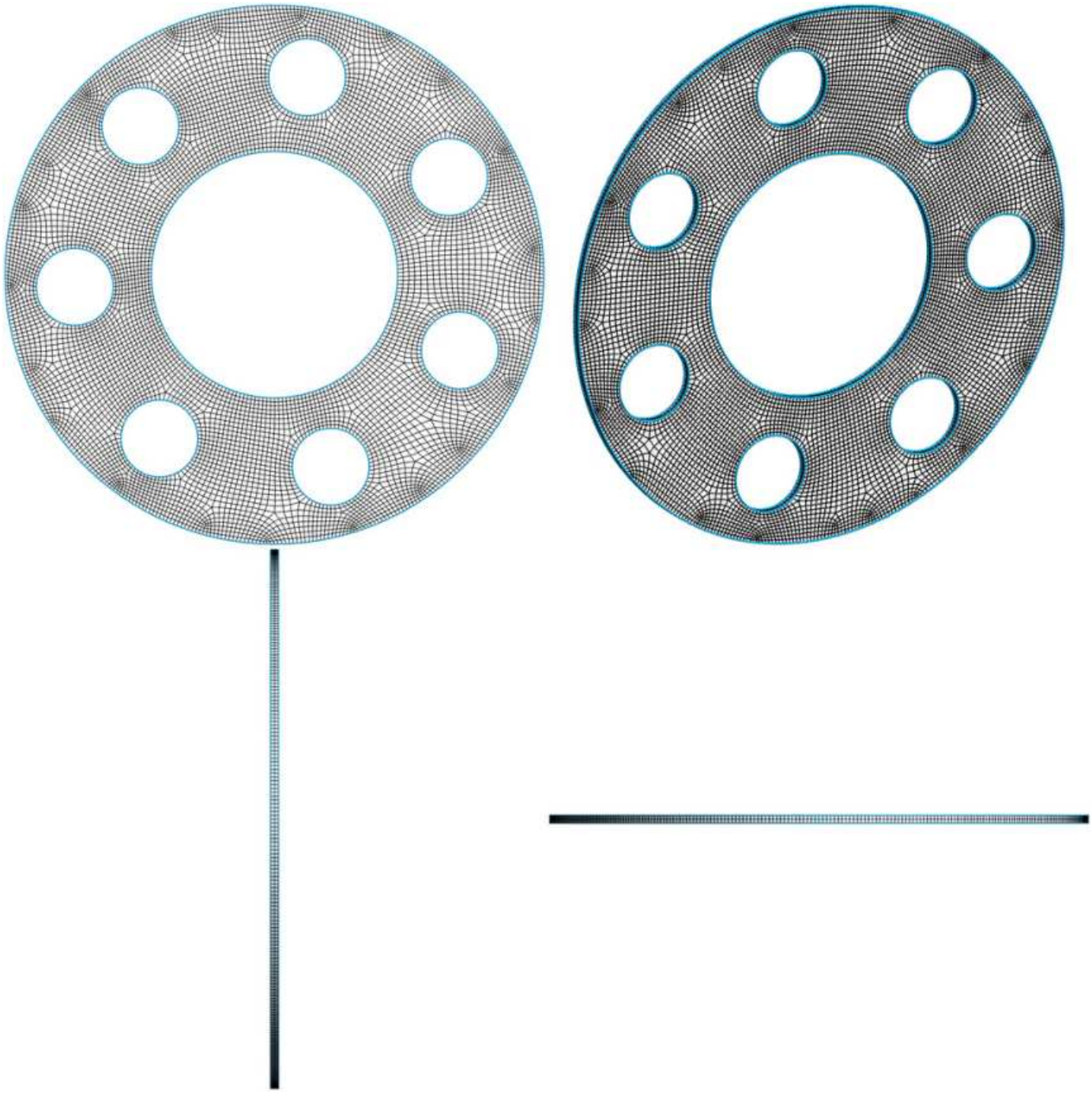


Model: 00004585 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 56 singularities detected
Timings: 5.16572 sec to generate the unstructured mesh, 7.36975 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16270	18436	742	66
Quasi-structured	16976	19142	140	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.02397	2.90331	5.89733	0.390396	0.950469	0.983563
Quasi-structured	0.971255	2.83204	7.67725	0.674652	0.977122	0.988309

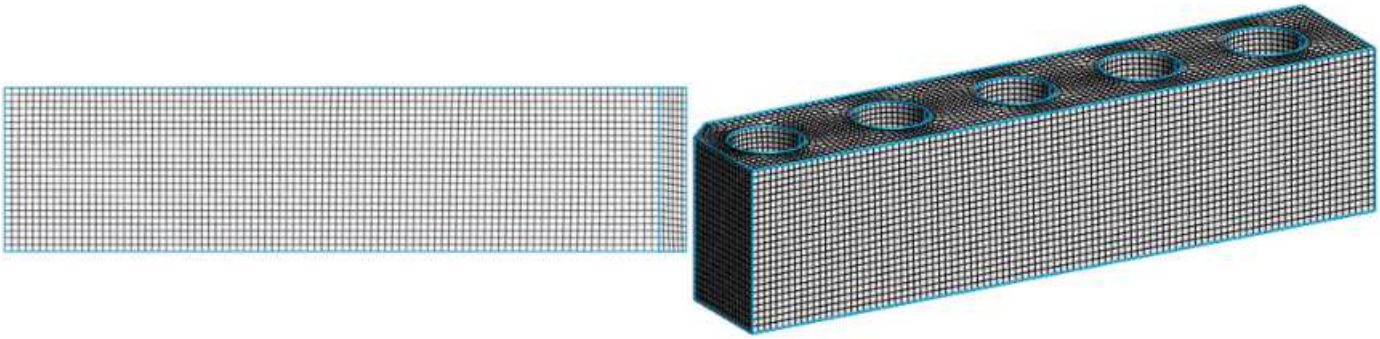


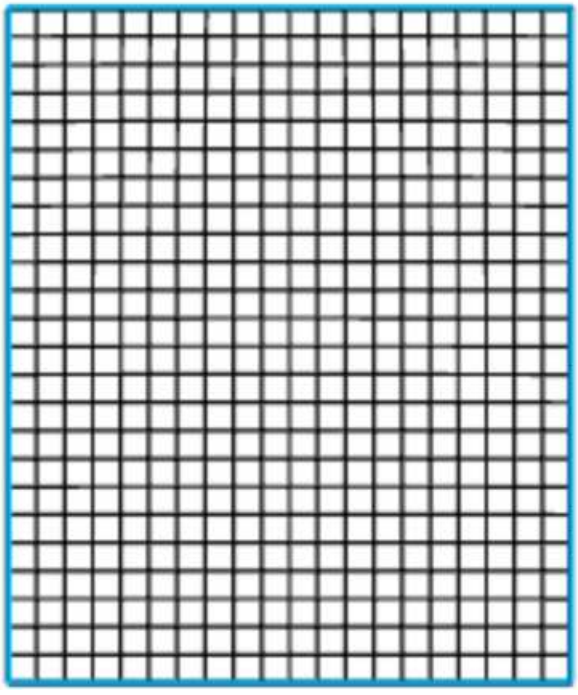
Model: 00004595 (from ABC dataset)
CAD: 20 corners, 30 curves, 17 faces
Cross field: 40 singularities detected
Timings: 10.4015 sec to generate the unstructured mesh, 1.40152 sec to make it quasi-structured
Mesh topology:

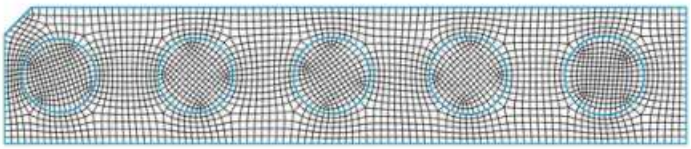
	# quads	# vertices	# irregular	# very irregular
Unstructured	15670	16701	164	119
Quasi-structured	15762	16793	42	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0633982	0.227987	0.39196	0.403155	0.983989	0.998129
Quasi-structured	0.0847141	0.22696	0.421257	0.773959	0.99385	0.99934





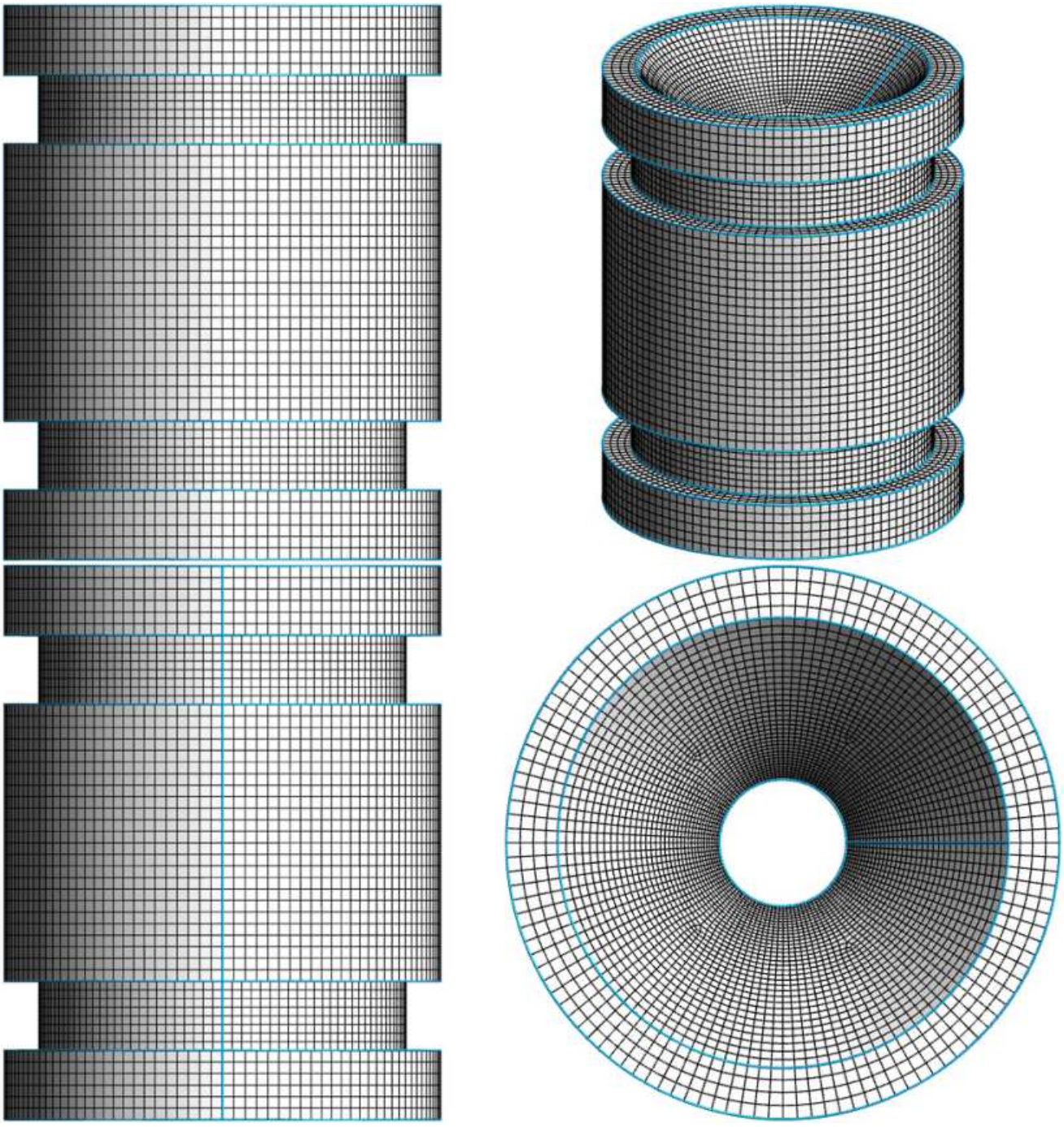


Model: 00004628 (from ABC dataset)
CAD: 14 corners, 23 curves, 14 faces
Cross field: 0 singularities detected
Timings: 13.9928 sec to generate the unstructured mesh, 2.22763 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25344	27008	56	195
Quasi-structured	25148	26812	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0933075	0.62375	1.40262	0.481102	0.989688	0.998459
Quasi-structured	0.194547	0.627216	1.06066	0.833567	0.9953	0.99804

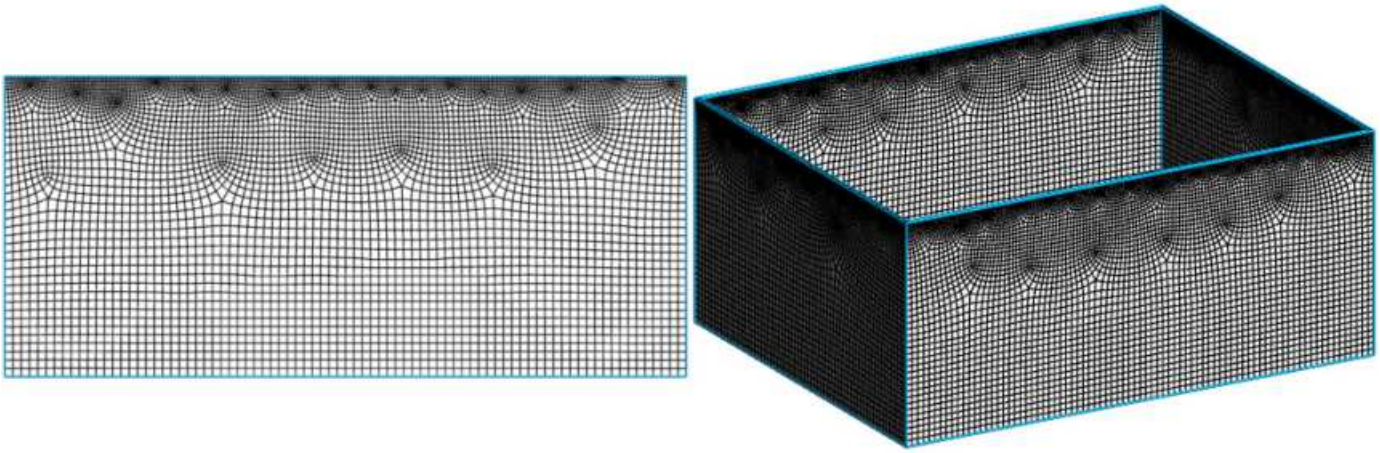


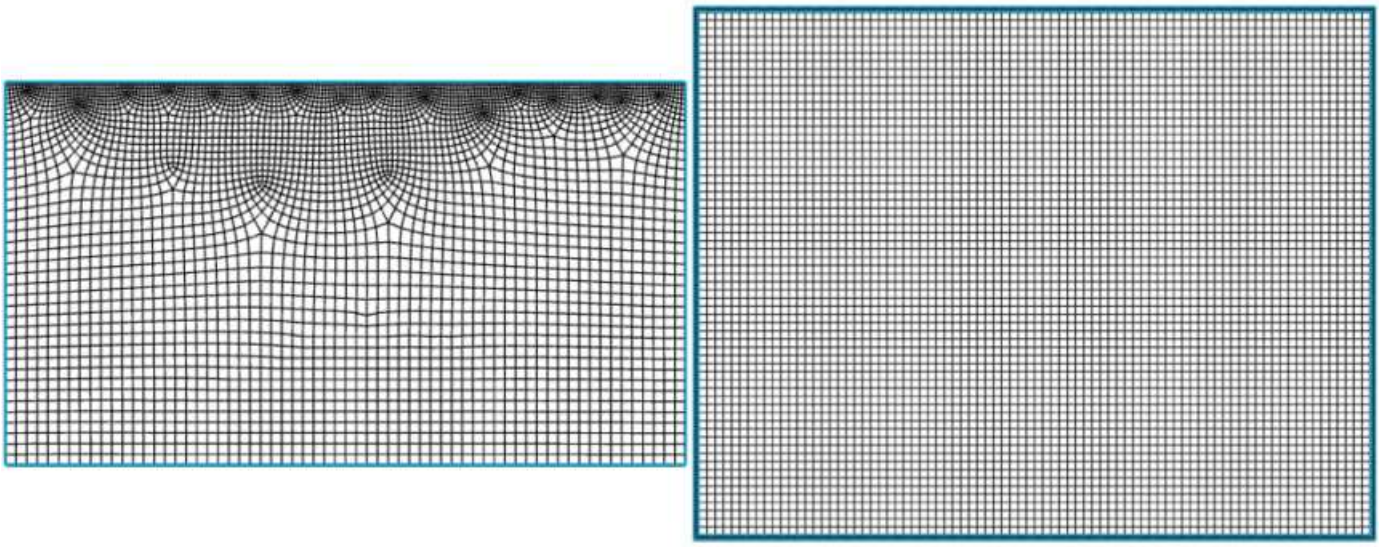
Model: 00004629 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 28.3146 sec to generate the unstructured mesh, 80.4863 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	49402	52244	1200	131
Quasi-structured	51426	54268	342	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.144599	0.909024	1.86454	0.447827	0.966196	0.999653
Quasi-structured	0.157376	0.881569	2.25383	0.768678	0.990213	0.995555



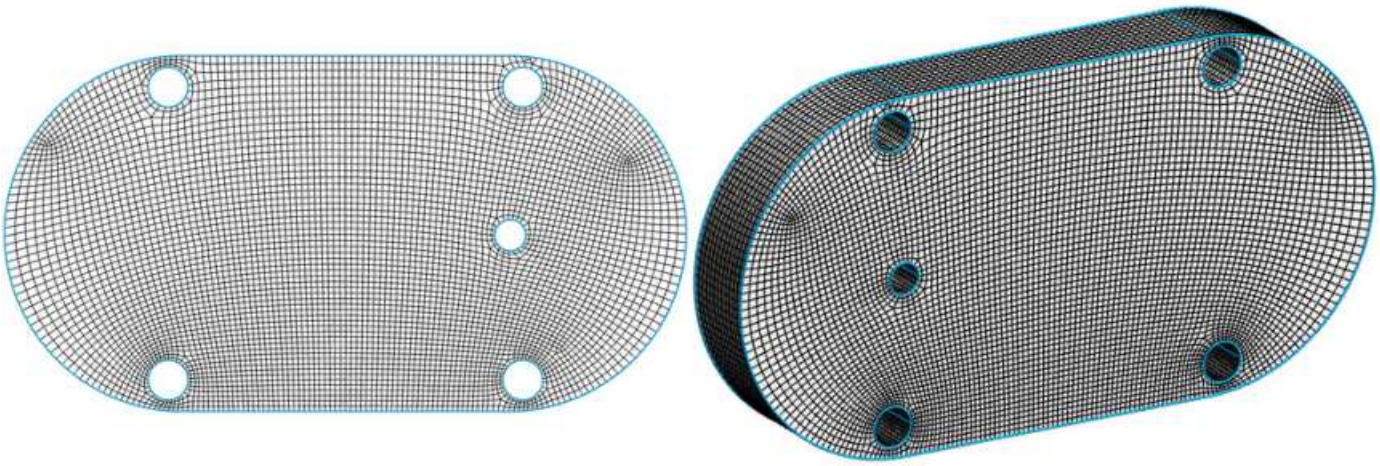


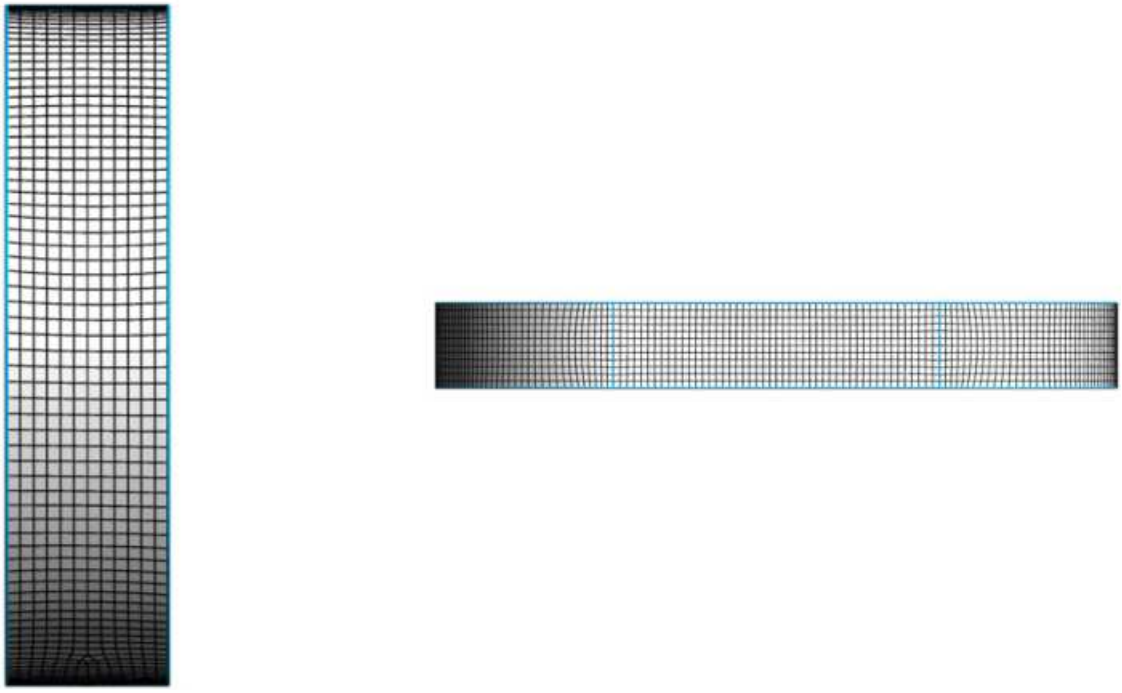
Model: 00004638 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 40 singularities detected
Timings: 11.3561 sec to generate the unstructured mesh, 3.34874 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17698	18560	299	103
Quasi-structured	17493	18355	60	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.268527	1.17897	2.42139	0.293595	0.974538	0.995385
Quasi-structured	0.419155	1.18212	2.5385	0.611377	0.986496	0.996378



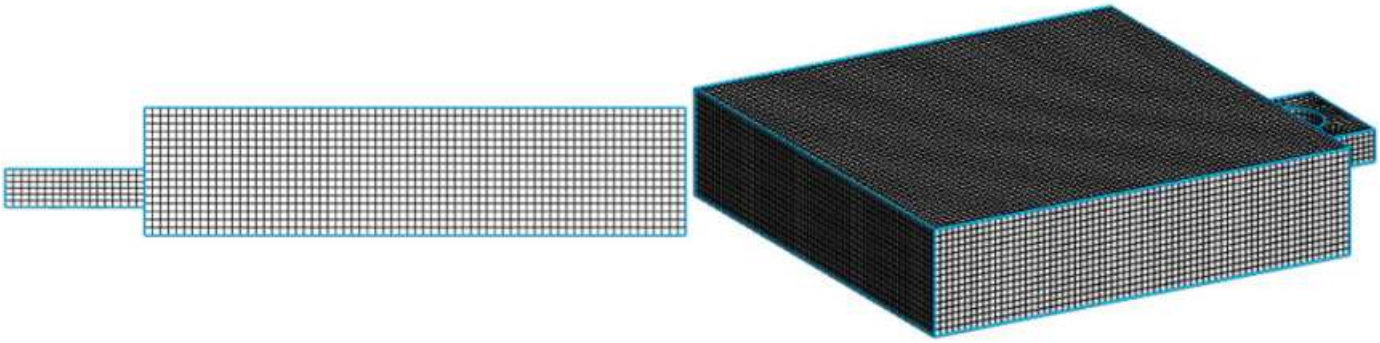


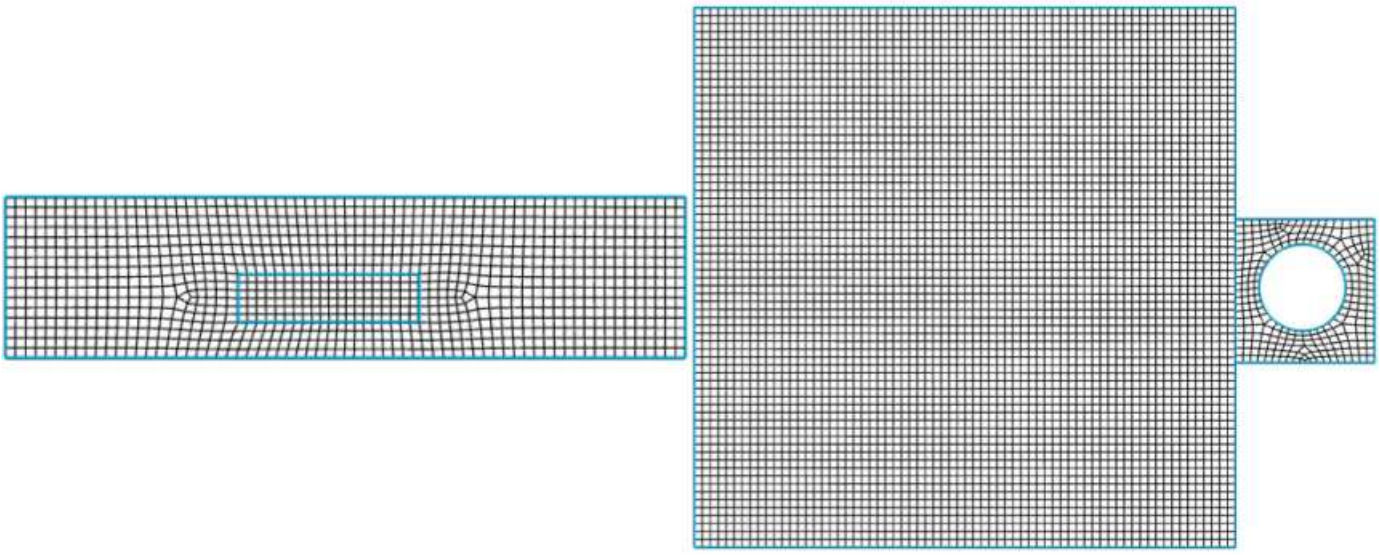
Model: 00004640 (from ABC dataset)
CAD: 19 corners, 28 curves, 12 faces
Cross field: 8 singularities detected
Timings: 13.3151 sec to generate the unstructured mesh, 1.2896 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14646	15522	58	7
Quasi-structured	14686	15562	22	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.380288	1.10626	1.70392	0.605568	0.995595	0.999993
Quasi-structured	0.363429	1.10443	1.8089	0.678989	0.996791	0.999992



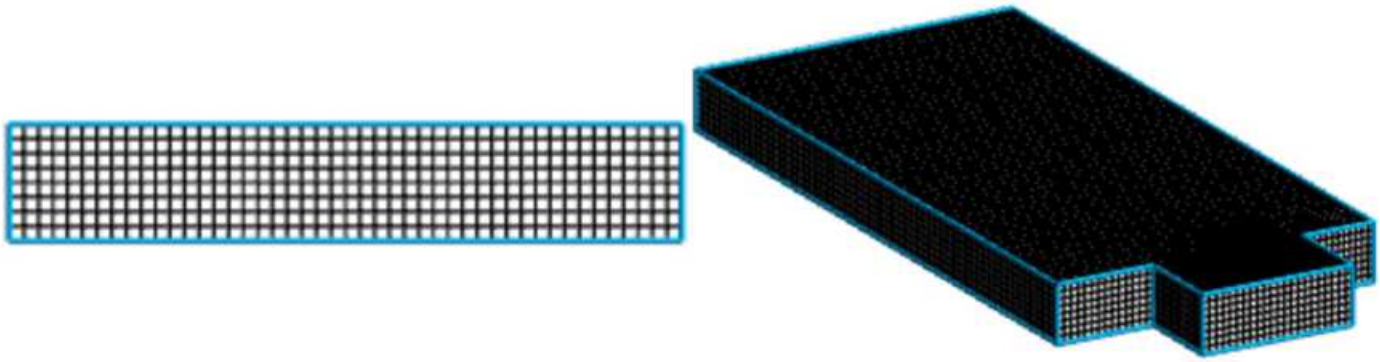


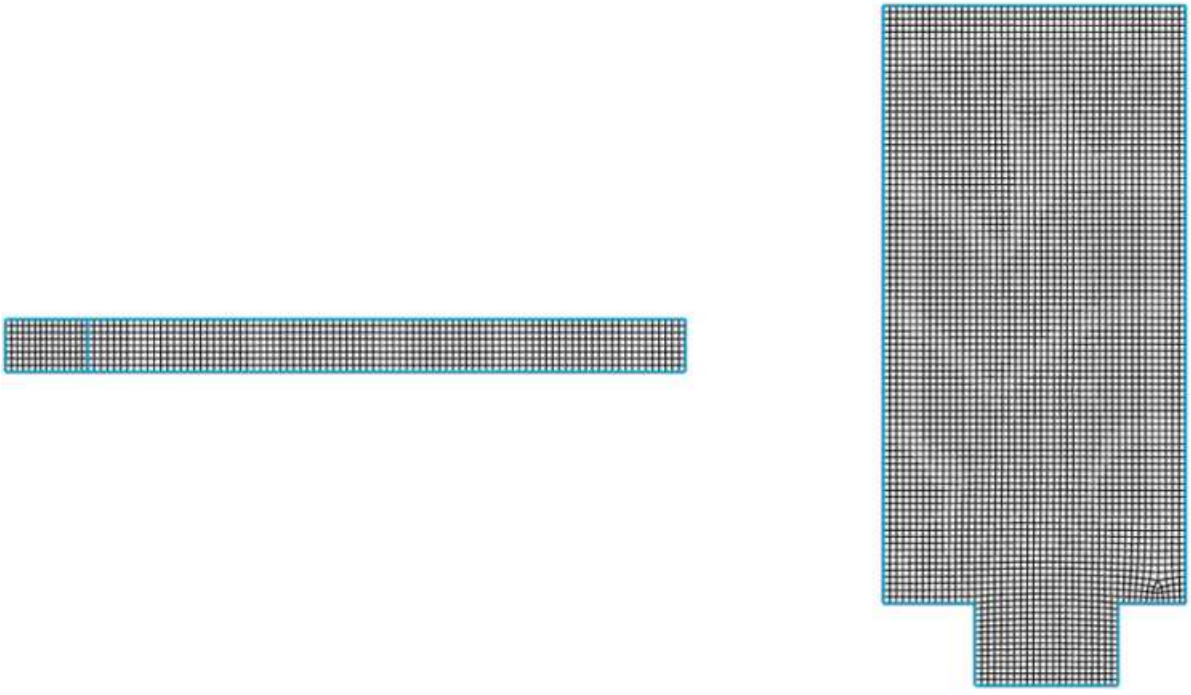
Model: 00004643 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 7.34851 sec to generate the unstructured mesh, 1.44079 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11294	11972	12	0
Quasi-structured	11326	12004	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.664453	1.43057	1.94981	0.676228	0.997064	0.99999
Quasi-structured	0.851825	1.42832	1.83096	0.843048	0.999248	0.999936



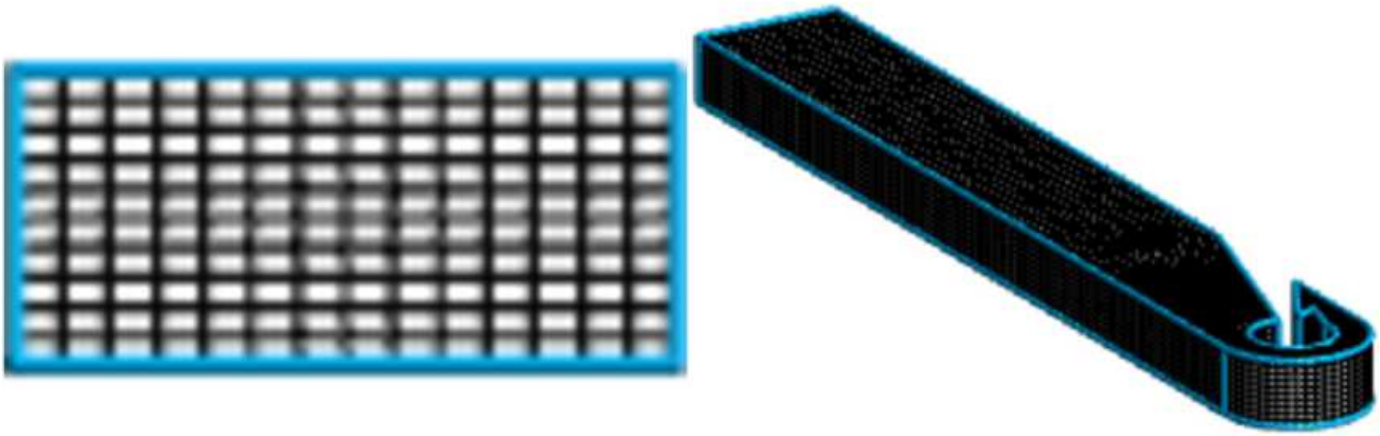


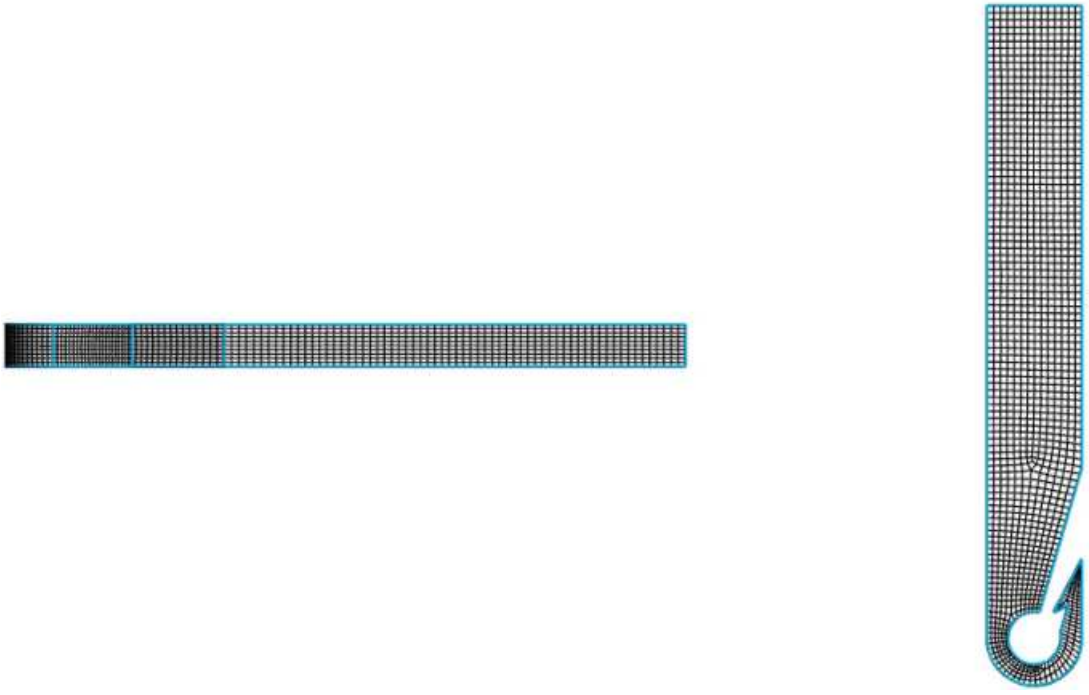
Model: 00004646 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 6 singularities detected
Timings: 3.80056 sec to generate the unstructured mesh, 1.26907 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6014	6762	35	0
Quasi-structured	6075	6823	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.101415	0.532957	0.870645	0.467508	0.94784	0.967596
Quasi-structured	0.0717995	0.529201	0.858788	0.467508	0.949411	0.972457





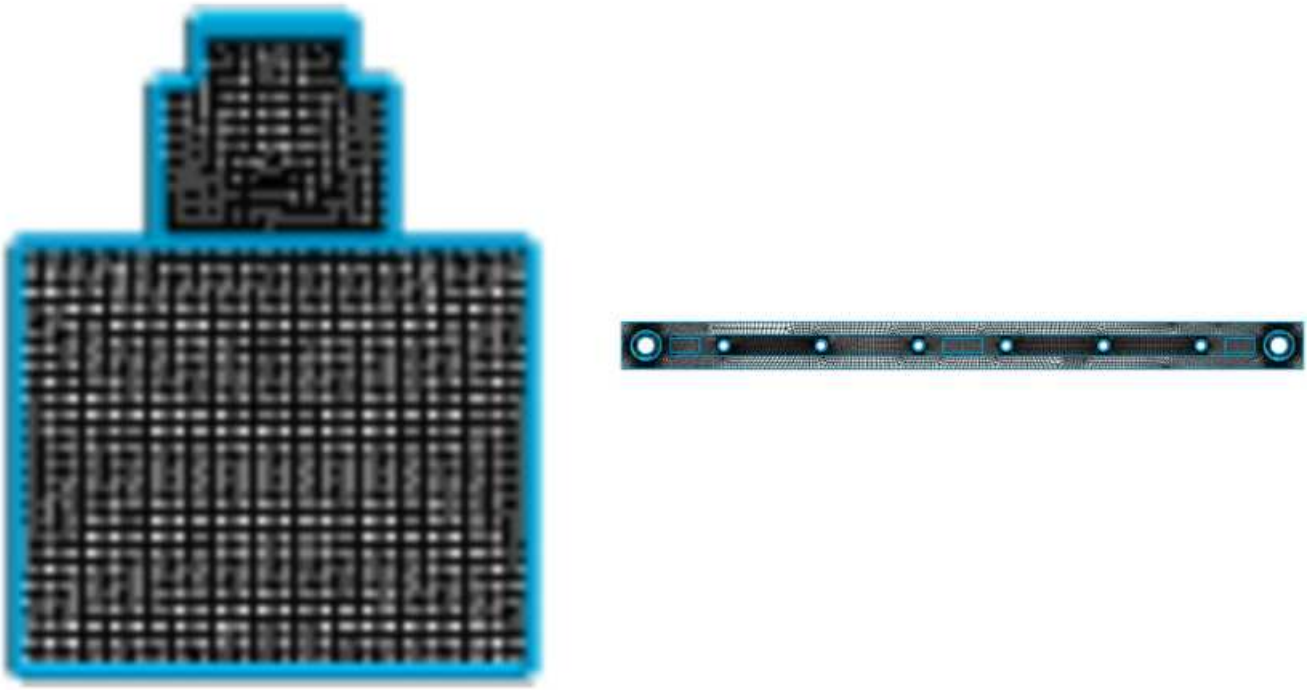
Model: 00004650 (from ABC dataset)
CAD: 166 corners, 266 curves, 104 faces
Cross field: 139 singularities detected
Timings: 8.89535 sec to generate the unstructured mesh, 57.1792 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	54354	62110	3688	541
Quasi-structured	57708	65464	1140	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0778951	0.414005	1.7712	0.107256	0.932598	0.976024
Quasi-structured	0.0520962	0.416962	2.15361	0.208403	0.91073	0.953489



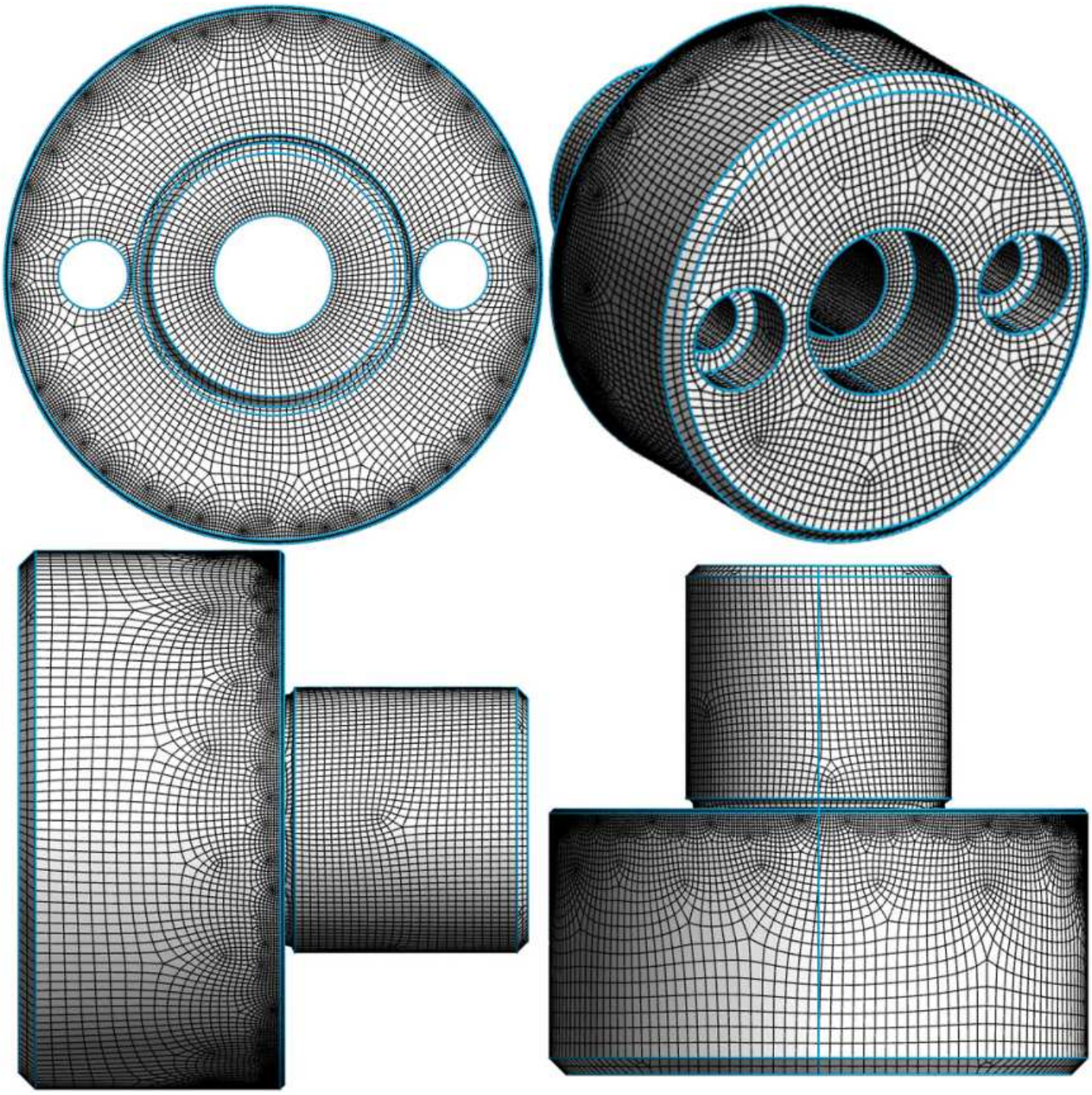


Model: 00004654 (from ABC dataset)
CAD: 20 corners, 32 curves, 18 faces
Cross field: 17 singularities detected
Timings: 16.7019 sec to generate the unstructured mesh, 128.79 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	35932	38558	1108	321
Quasi-structured	35867	38493	416	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.103015	0.540545	2.02907	0.287325	0.94858	0.990709
Quasi-structured	0.101491	0.539993	2.60941	0.399736	0.974727	0.989576

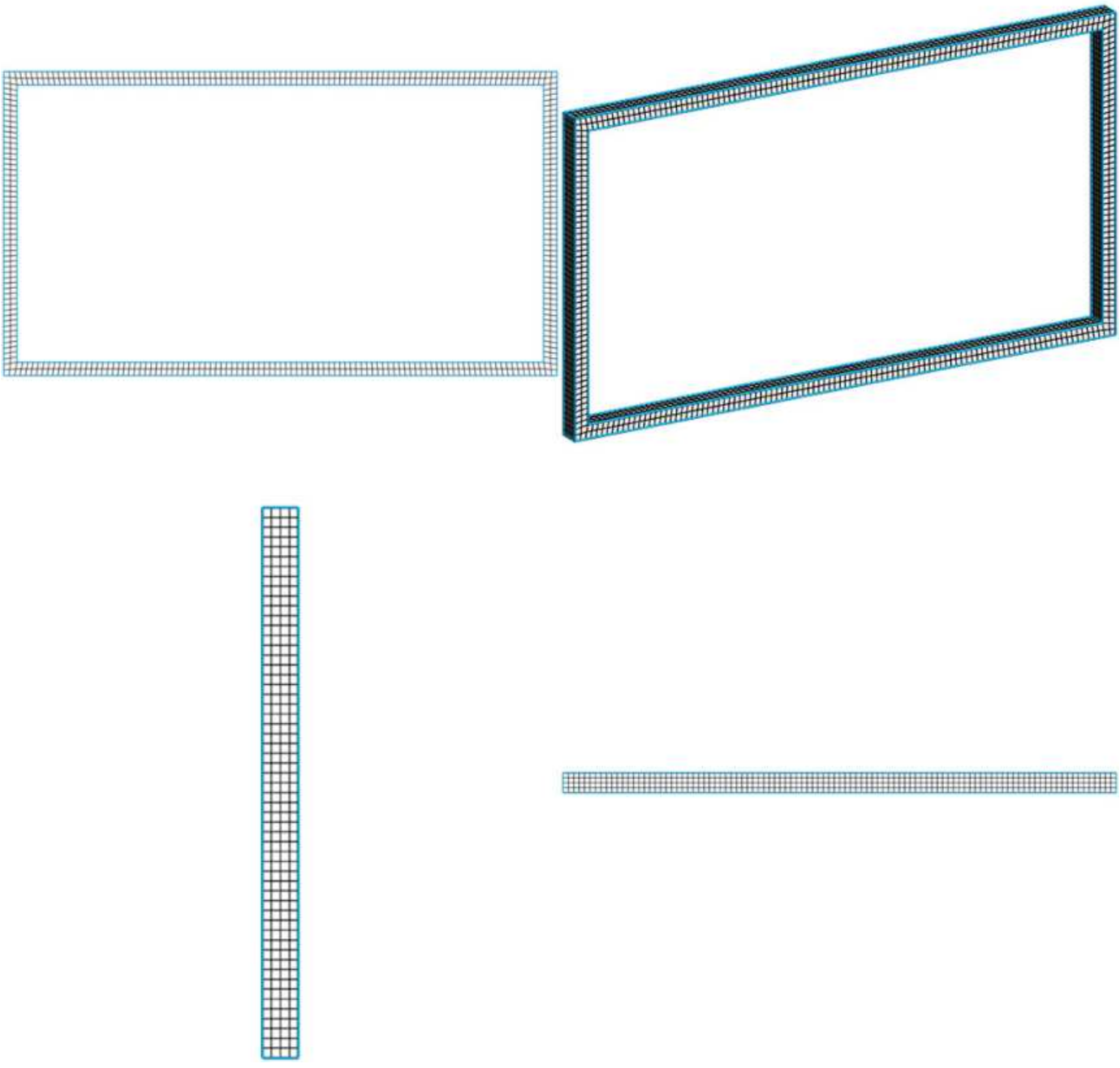


Model: 00004657 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 2.40427 sec to generate the unstructured mesh, 0.336231 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	3718	4990	12	0
Quasi-structured	3696	4968	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.258376	0.847535	1.05088	0.292407	0.984363	0.996201
Quasi-structured	0.772689	0.849938	1.08335	0.925861	0.987964	0.996201

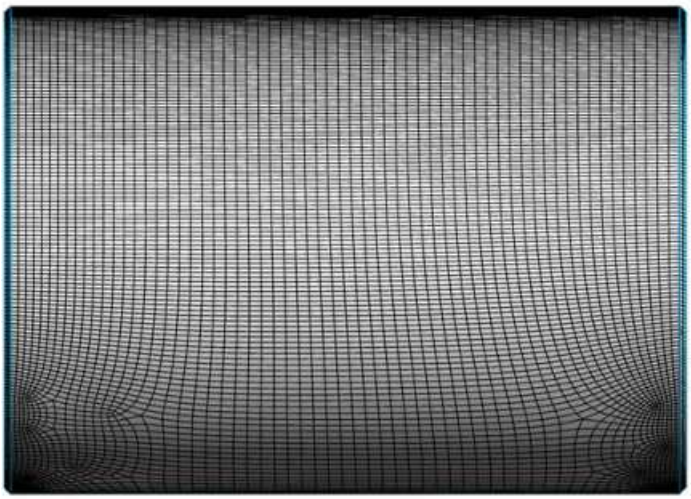


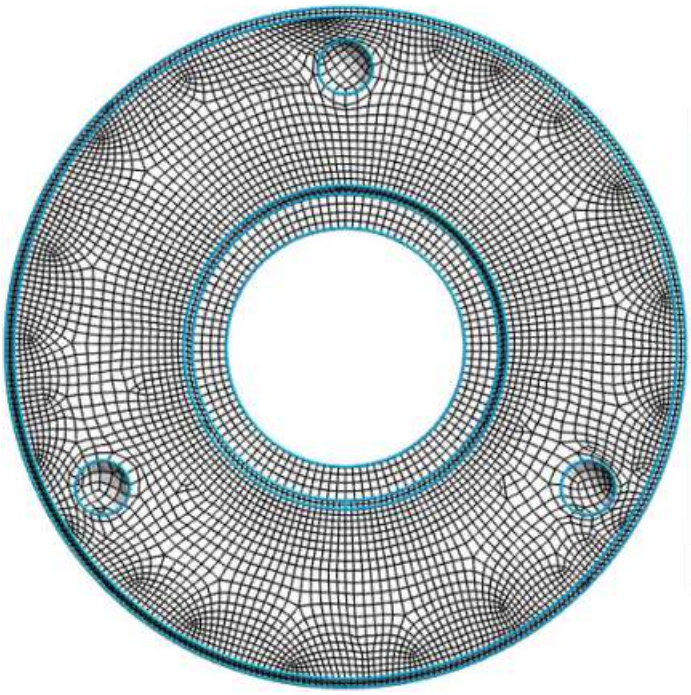
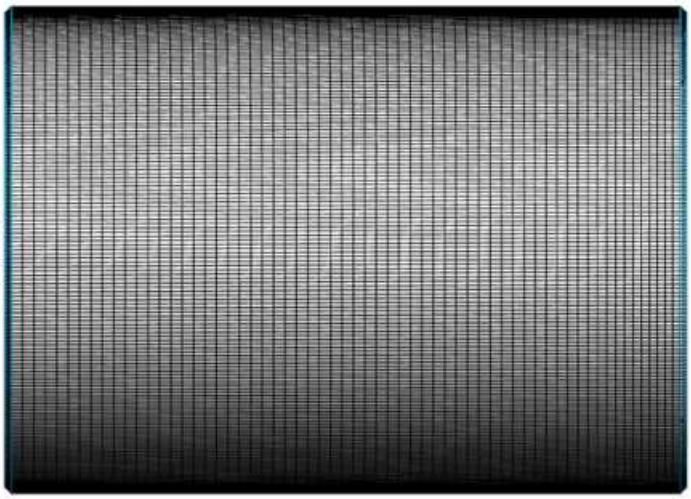
Model: 00004668 (from ABC dataset)
CAD: 15 corners, 22 curves, 13 faces
Cross field: 24 singularities detected
Timings: 22.5047 sec to generate the unstructured mesh, 121.334 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37960	40242	988	271
Quasi-structured	45493	47775	272	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.246146	0.82027	3.34937	0.155586	0.954579	0.987725
Quasi-structured	0.0826091	0.817956	3.09014	0.205217	0.880849	0.971491



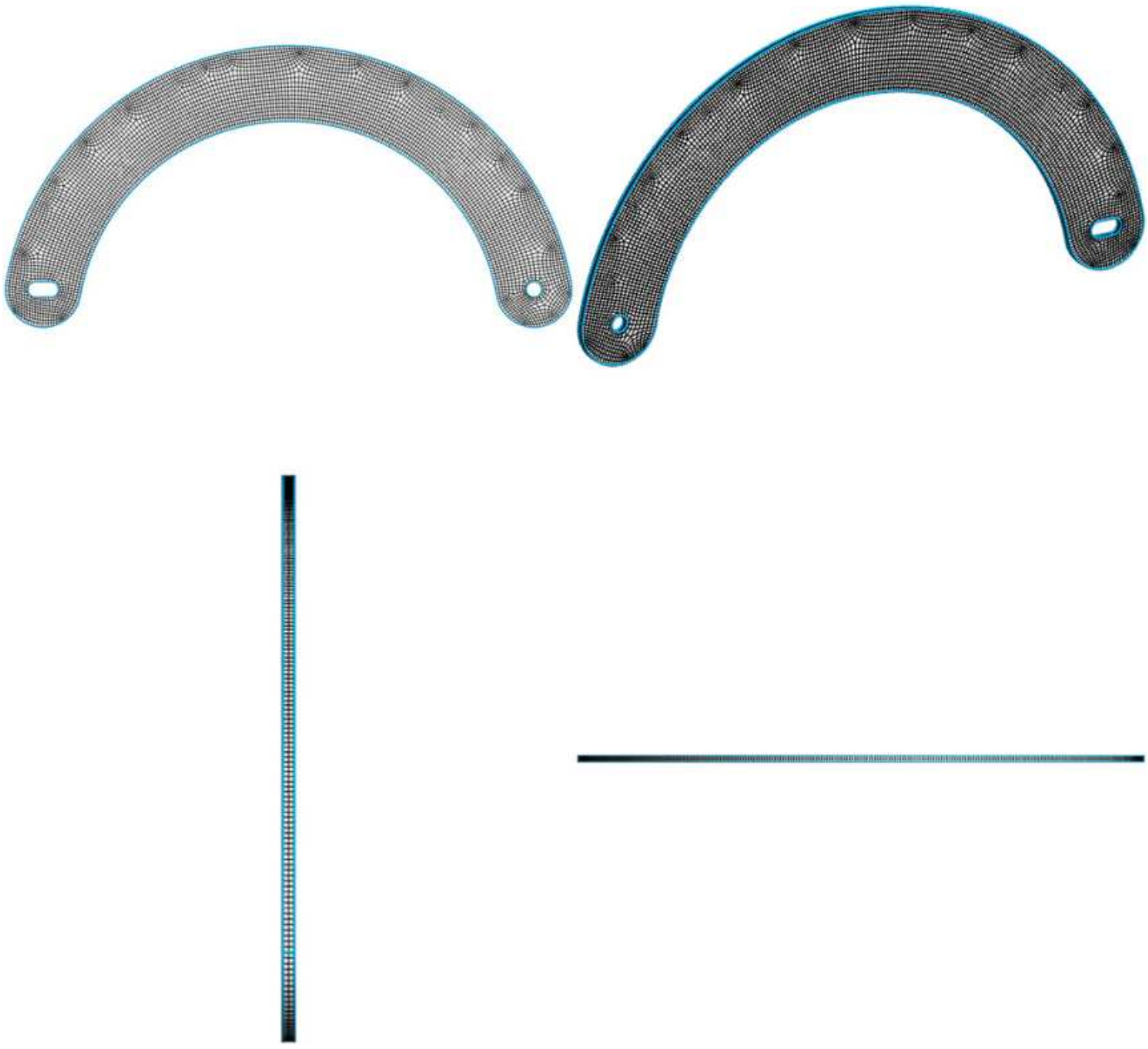



Model: 00004670 (from ABC dataset)
CAD: 19 corners, 28 curves, 11 faces
Cross field: 8 singularities detected
Timings: 4.73137 sec to generate the unstructured mesh, 24.5347 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11104	12384	475	55
Quasi-structured	11574	12854	98	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.887559	2.78838	6.13904	0.539966	0.938735	0.978044
Quasi-structured	0.878156	2.7348	6.29089	0.476818	0.971385	0.975738

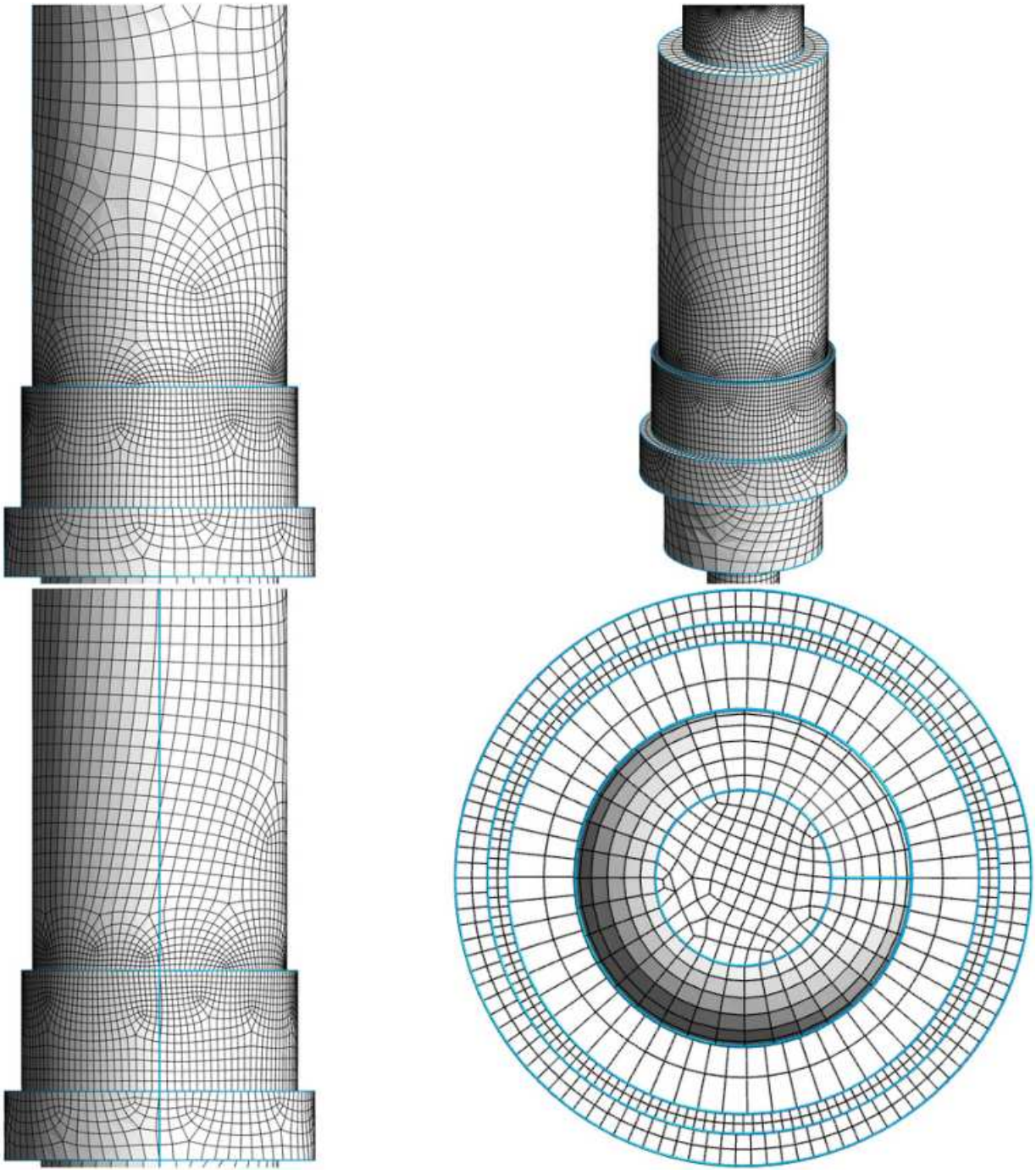


Model: 00004675 (from ABC dataset)
CAD: 17 corners, 26 curves, 16 faces
Cross field: 8 singularities detected
Timings: 5.51982 sec to generate the unstructured mesh, 180.744 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31970	34360	1494	373
Quasi-structured	32210	34600	391	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00124935	0.0245622	0.187087	0.172185	0.915394	0.982578
Quasi-structured	0.00126849	0.0246559	0.276423	0.134876	0.956125	0.987988

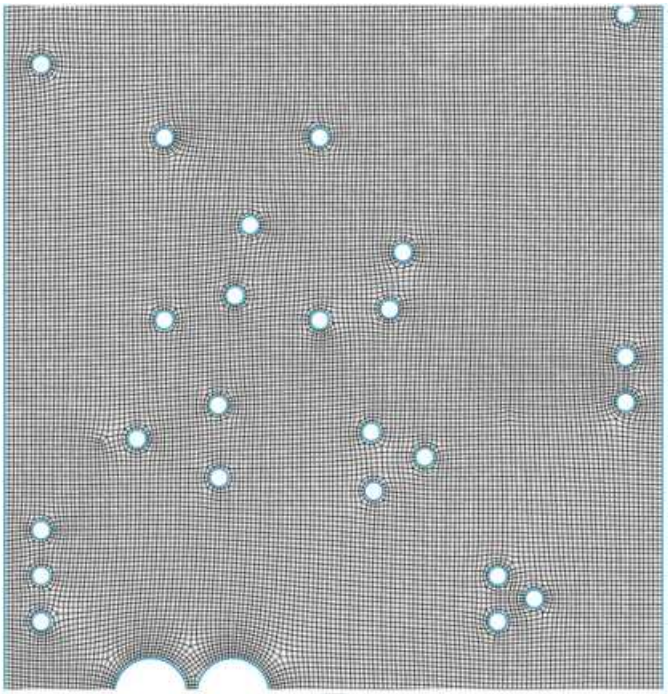


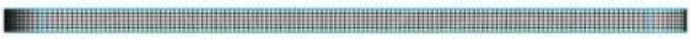
Model: 00004683 (from ABC dataset)
CAD: 156 corners, 234 curves, 80 faces
Cross field: 358 singularities detected
Timings: 109.895 sec to generate the unstructured mesh, 94.85 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	108994	113756	1817	356
Quasi-structured	108856	113618	388	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.048994	0.595454	1.08551	0.151548	0.969806	0.995119
Quasi-structured	0.0827963	0.59386	1.29326	0.445424	0.985588	0.9973



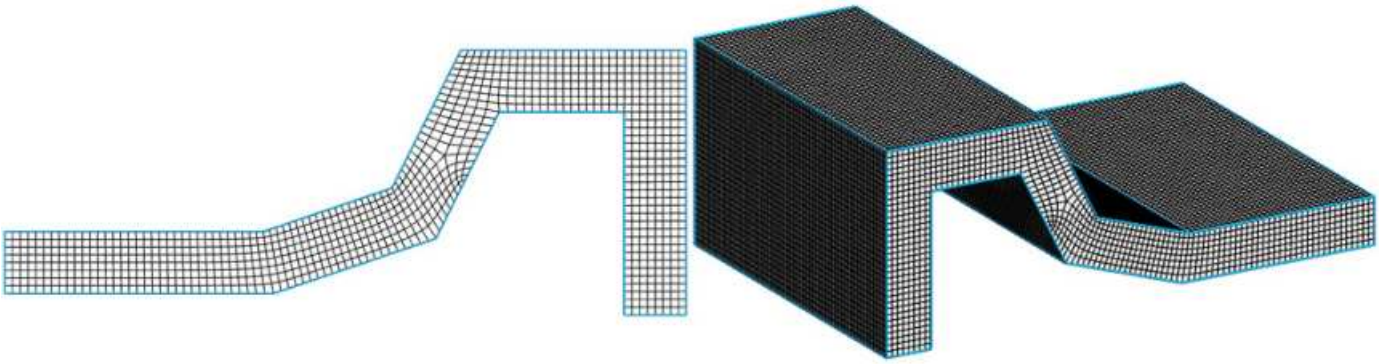



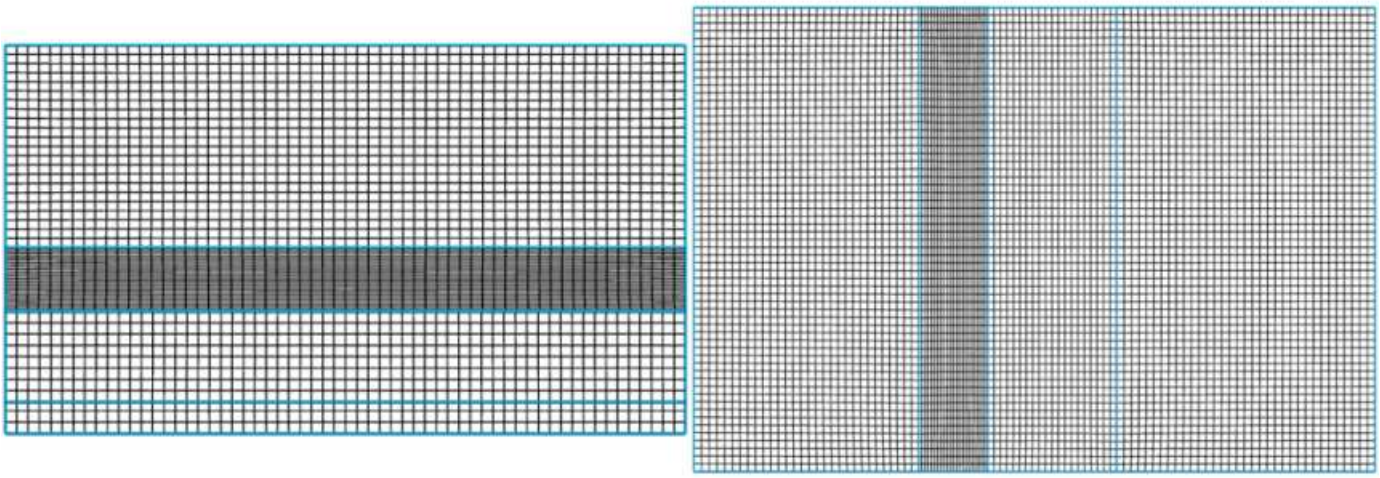
Model: 00004717 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 12.6493 sec to generate the unstructured mesh, 1.7061 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18366	19644	22	0
Quasi-structured	18312	19590	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.202169	0.496347	0.712017	0.599884	0.99745	0.999889
Quasi-structured	0.189179	0.497159	0.962225	0.657551	0.997285	0.999888



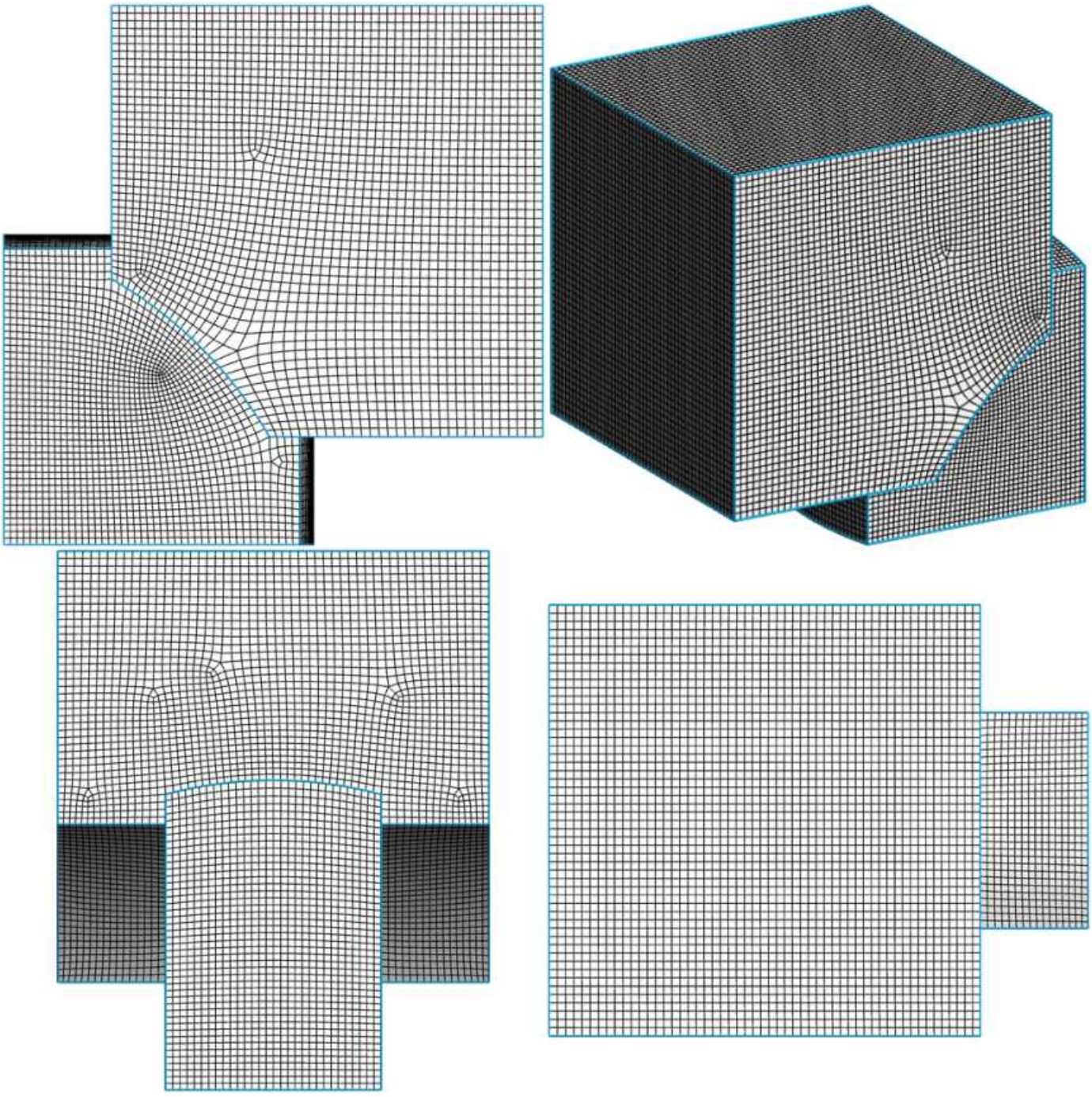


Model: 00004730 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 4 singularities detected
Timings: 15.8552 sec to generate the unstructured mesh, 2.95852 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21316	22420	153	1
Quasi-structured	21556	22660	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.102647	0.306391	0.5205	0.488921	0.988555	0.998396
Quasi-structured	0.0823183	0.303609	0.996365	0.564365	0.995429	0.998401

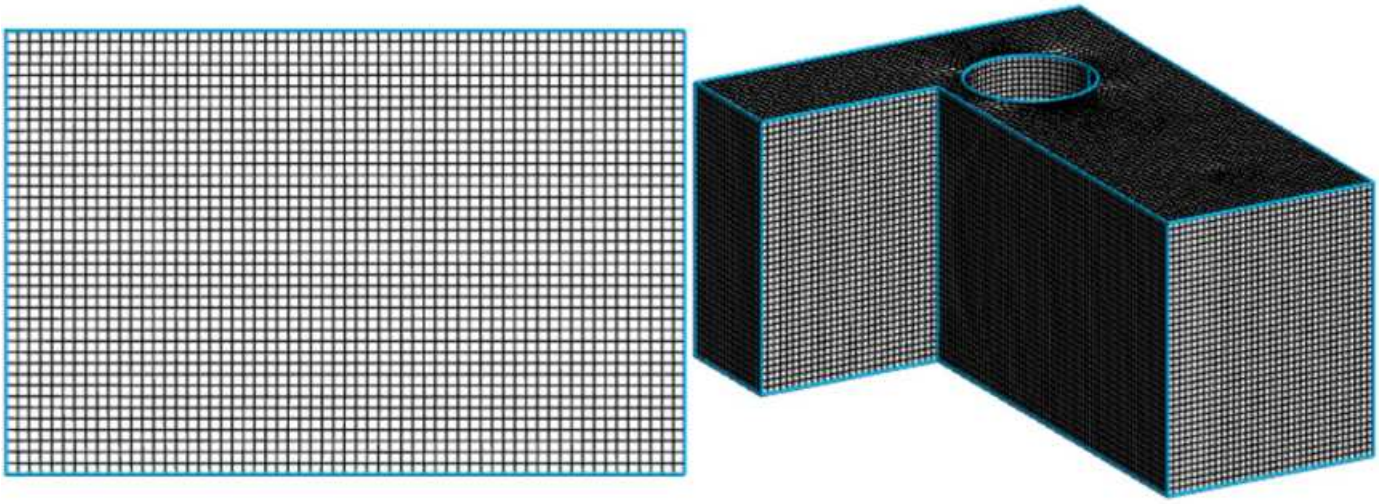


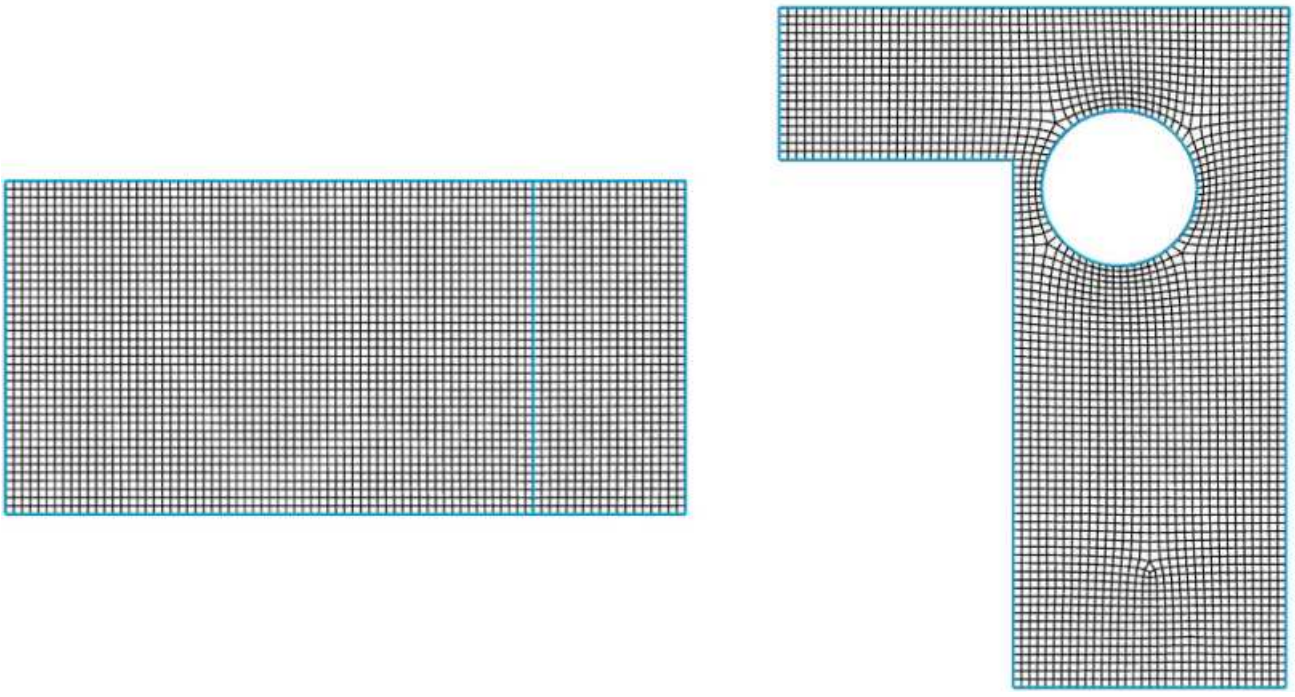
Model: 00004733 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 14.2635 sec to generate the unstructured mesh, 1.96045 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20468	21463	72	49
Quasi-structured	20646	21641	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.253725	0.62036	1.05604	0.583862	0.994297	0.999732
Quasi-structured	0.371308	0.617031	1.15519	0.803027	0.998442	0.999734



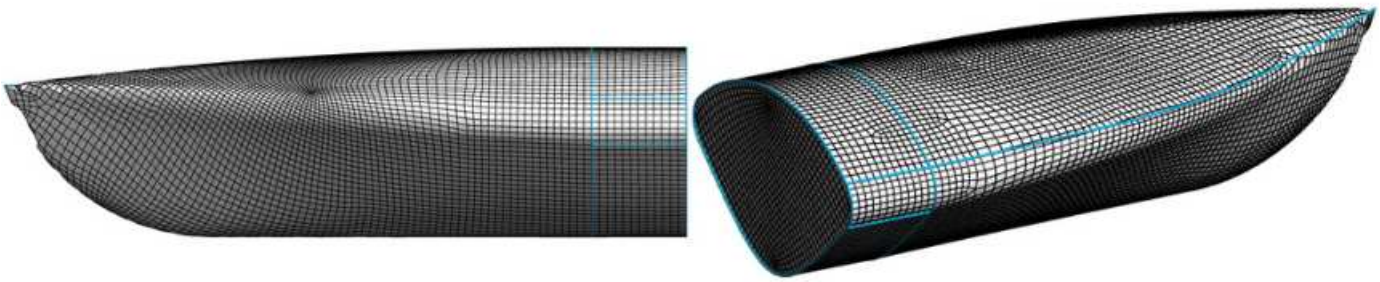


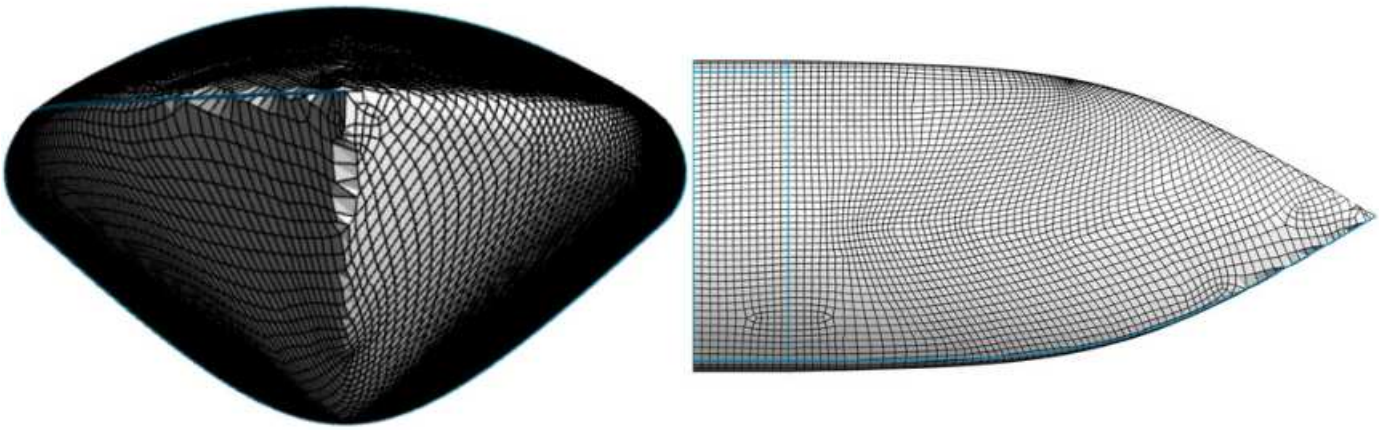
Model: 00004741 (from ABC dataset)
CAD: 11 corners, 16 curves, 6 faces
Cross field: 11 singularities detected
Timings: 53.9982 sec to generate the unstructured mesh, 13.1475 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8882	9150	192	92
Quasi-structured	8807	9075	35	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.4102	1.91592	7.32478	-0.317953	0.963133	0.991976
Quasi-structured	0.332634	1.9295	4.70032	0.319287	0.952187	0.973531



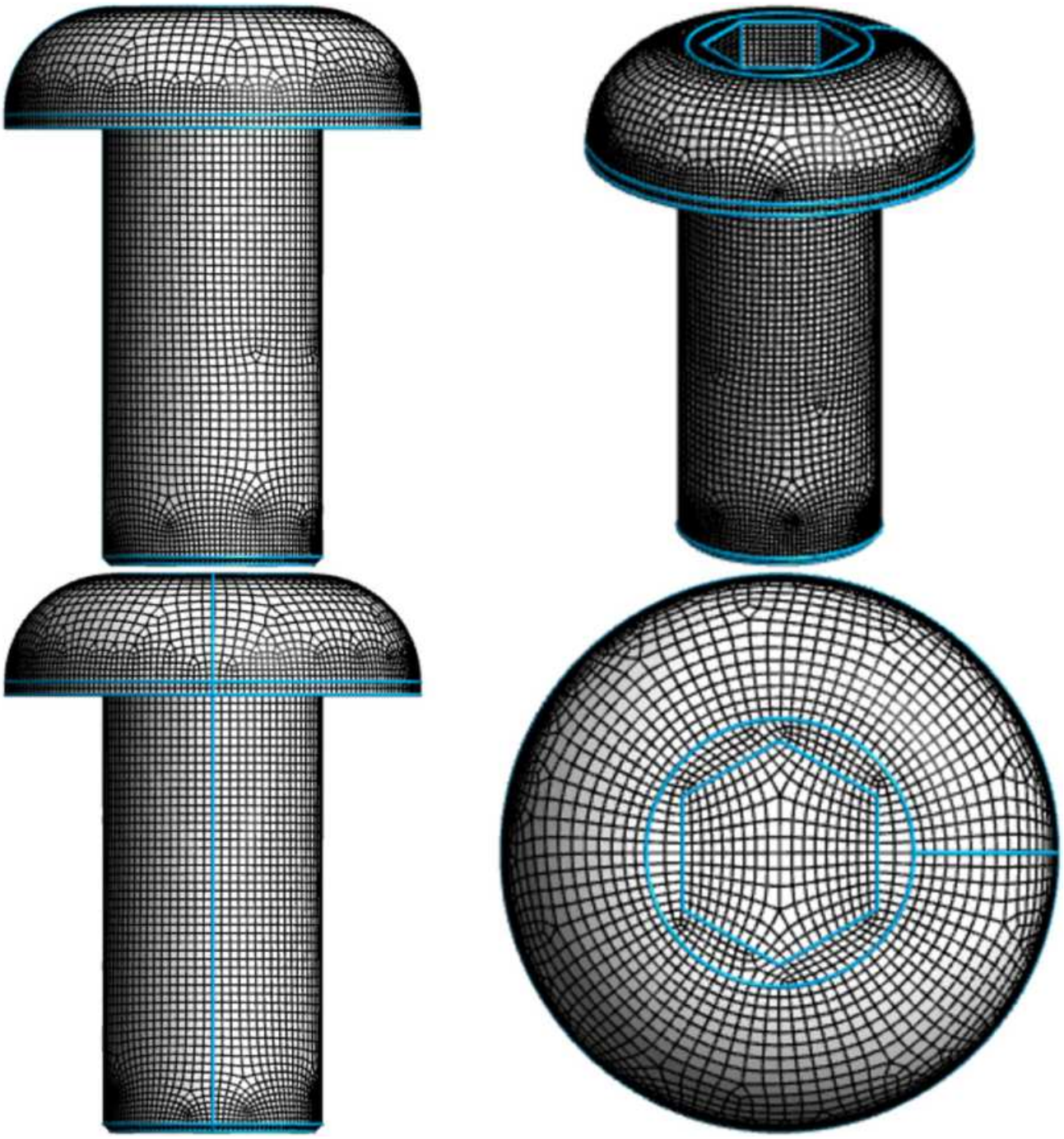


Model: 00004744 (from ABC dataset)
CAD: 18 corners, 28 curves, 14 faces
Cross field: 12 singularities detected
Timings: 8.1588 sec to generate the unstructured mesh, 8.21178 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11314	12370	415	104
Quasi-structured	11564	12620	192	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0308093	0.106224	0.244536	0.0781325	0.952466	0.989318
Quasi-structured	0.0252442	0.103949	0.246518	0.63511	0.98146	0.994458

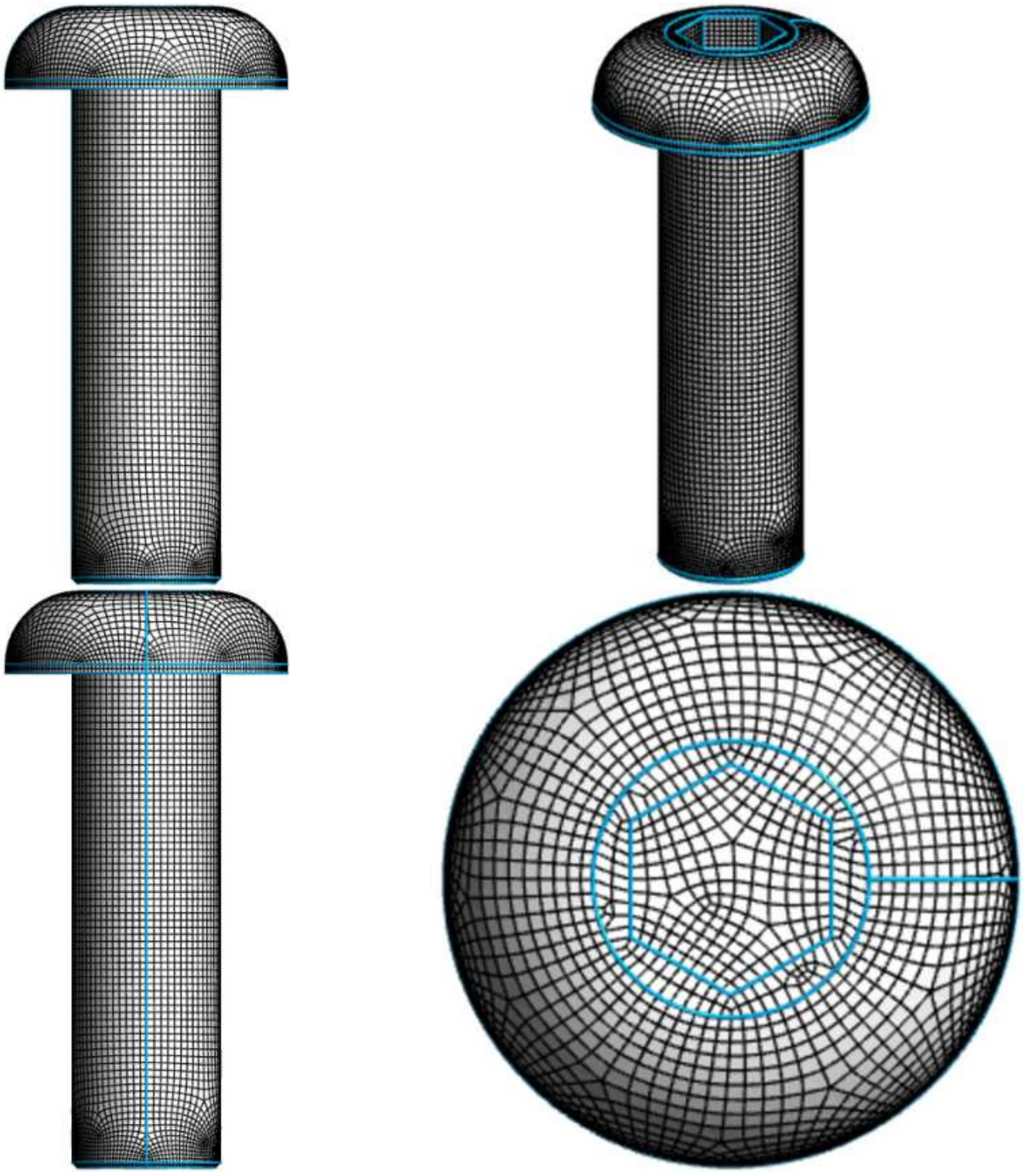


Model: 00004745 (from ABC dataset)
CAD: 18 corners, 28 curves, 14 faces
Cross field: 12 singularities detected
Timings: 7.12866 sec to generate the unstructured mesh, 7.94771 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11176	12170	364	150
Quasi-structured	11355	12349	112	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0293272	0.119963	0.297044	0.287054	0.94973	0.996156
Quasi-structured	0.0243362	0.118084	0.29902	0.481503	0.97656	0.992182

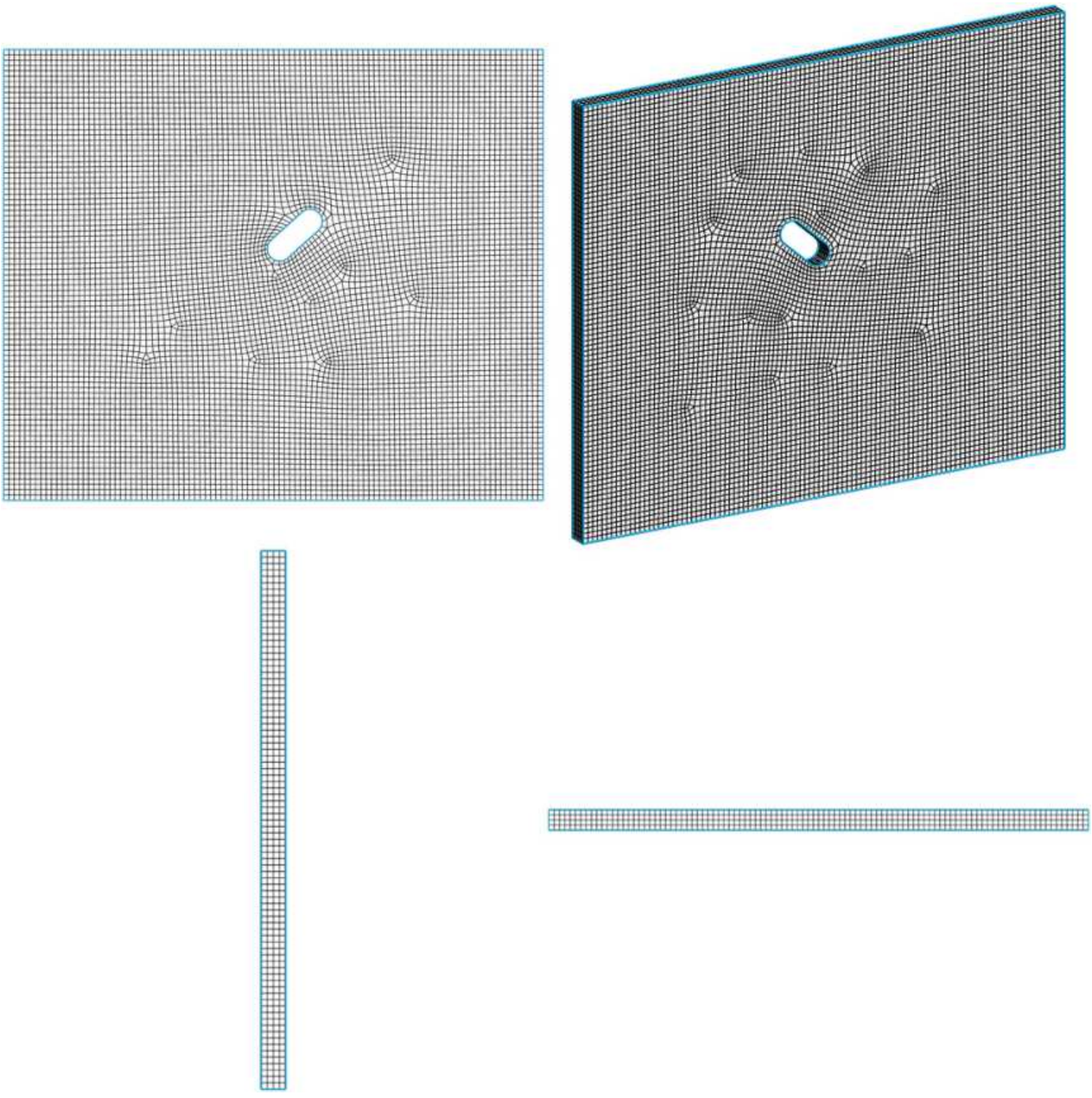


Model: 00004747 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 19.5861 sec to generate the unstructured mesh, 7.65124 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19002	19870	160	3
Quasi-structured	18916	19784	56	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.348127	1.28774	2.13776	0.509923	0.986461	0.999559
Quasi-structured	0.598904	1.28722	2.57494	0.518755	0.996119	0.9997

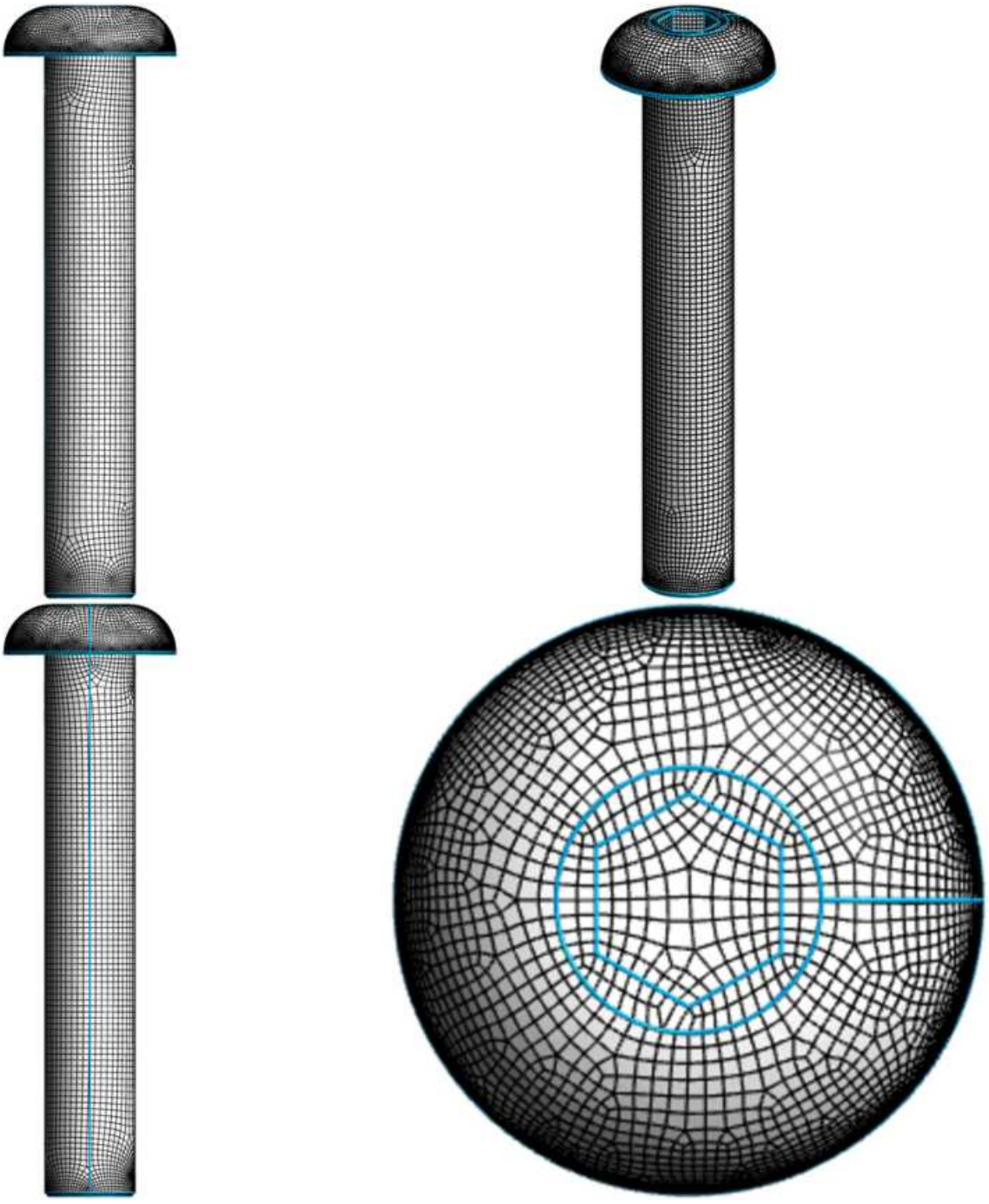


Model: 00004748 (from ABC dataset)
CAD: 18 corners, 28 curves, 14 faces
Cross field: 12 singularities detected
Timings: 5.86124 sec to generate the unstructured mesh, 31.8581 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15674	16956	776	154
Quasi-structured	15616	16898	306	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0345782	0.182895	0.53843	0.431283	0.94159	0.985117
Quasi-structured	0.030394	0.182566	0.540579	0.584014	0.974249	0.98844

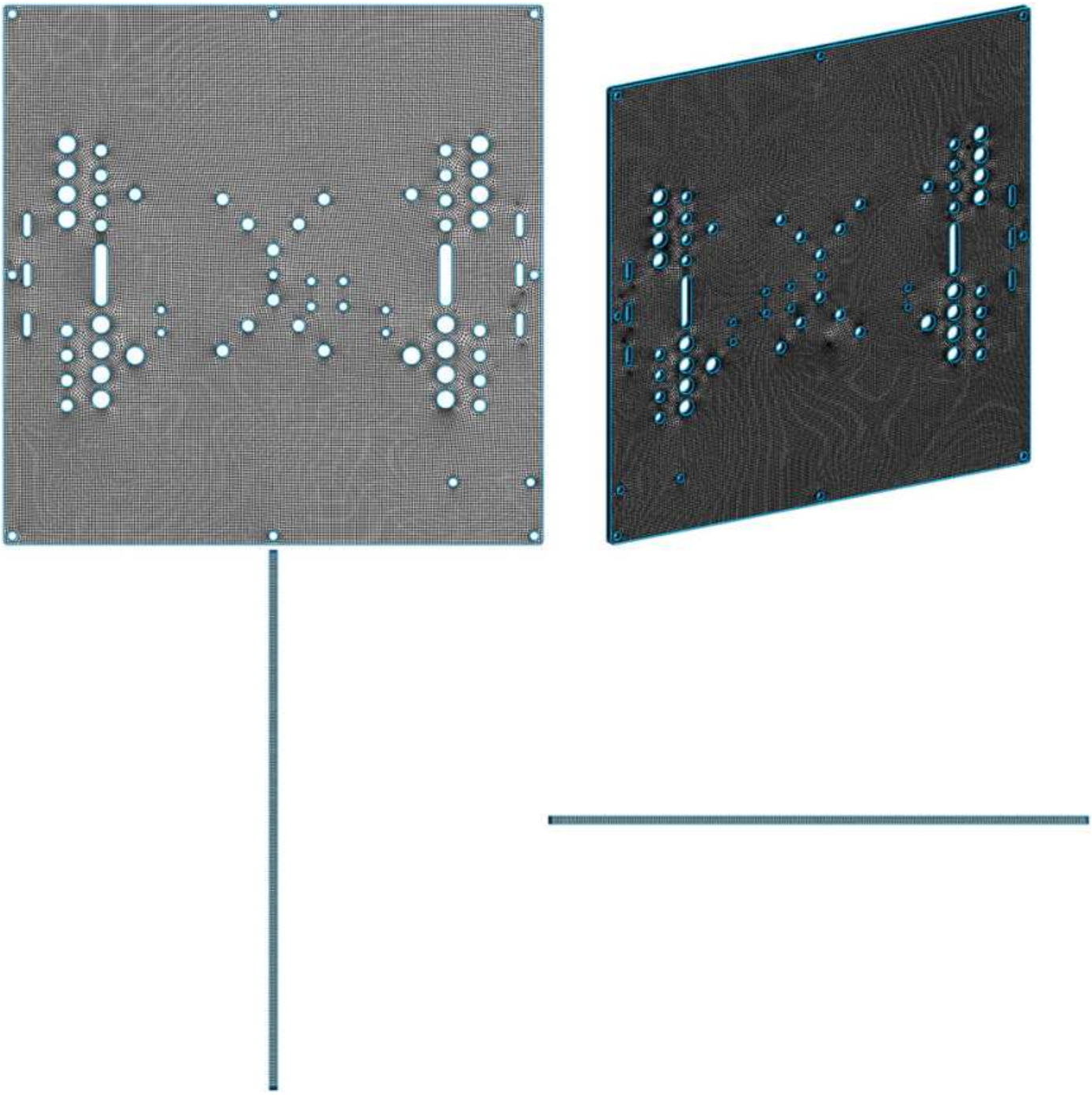


Model: 00004777 (from ABC dataset)
CAD: 210 corners, 315 curves, 107 faces
Cross field: 592 singularities detected
Timings: 167.723 sec to generate the unstructured mesh, 76.9478 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	115492	121308	2370	377
Quasi-structured	113678	119494	680	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.23259	0.91199	1.94754	0.246971	0.968516	0.995069
Quasi-structured	0.0805106	0.916827	1.87781	0.333046	0.986788	0.998122

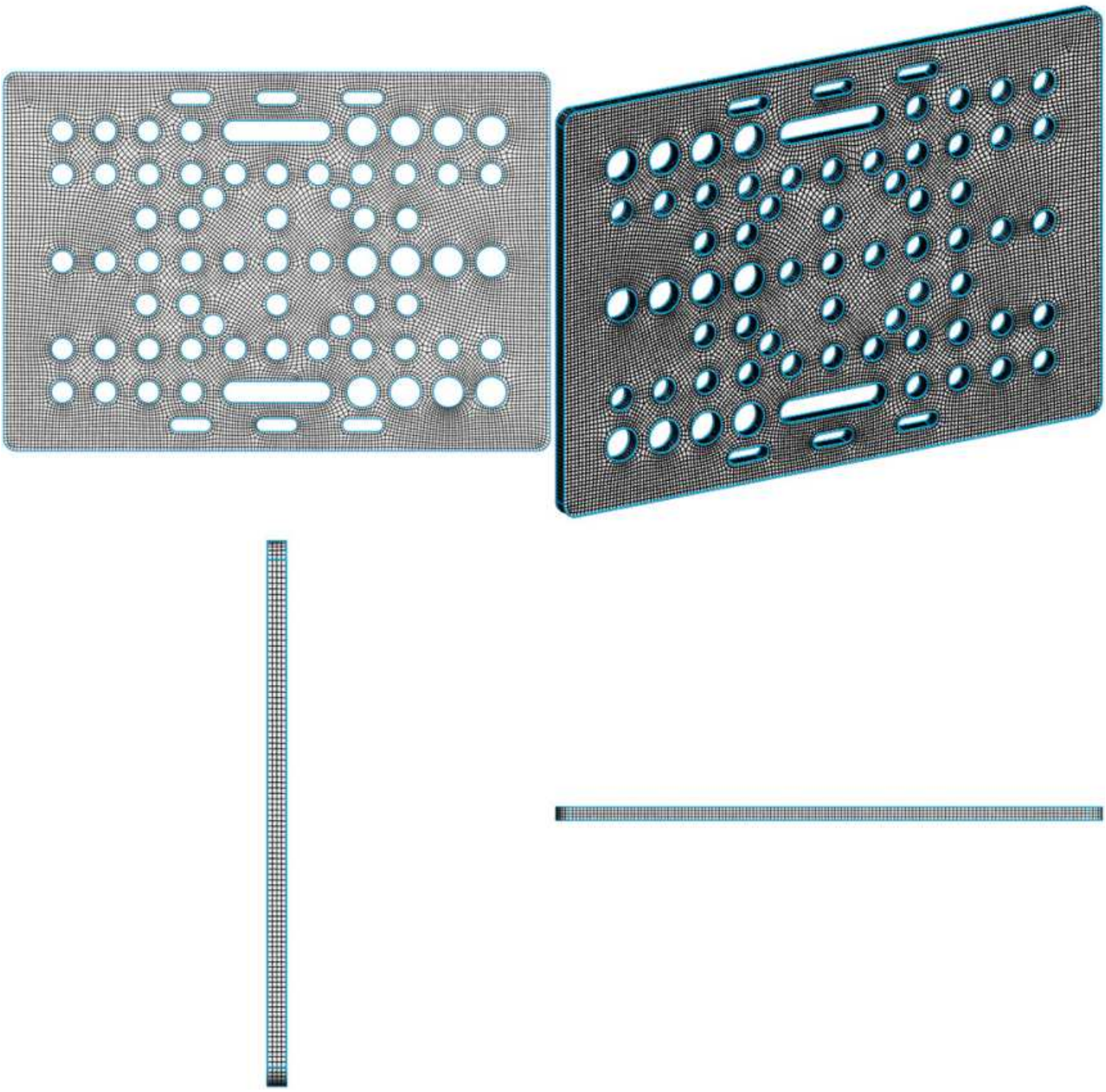


Model: 00004778 (from ABC dataset)
CAD: 206 corners, 309 curves, 105 faces
Cross field: 576 singularities detected
Timings: 50.5953 sec to generate the unstructured mesh, 15.2502 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	43792	49474	1769	400
Quasi-structured	44390	50072	612	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.198303	0.730881	1.65984	0.34052	0.946999	0.968988
Quasi-structured	0.310732	0.723473	1.66637	0.487156	0.97125	0.985189

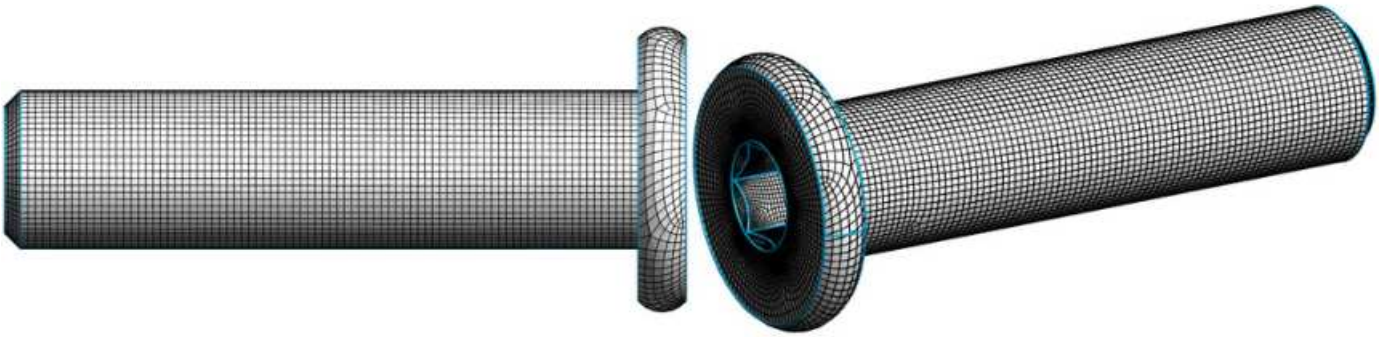


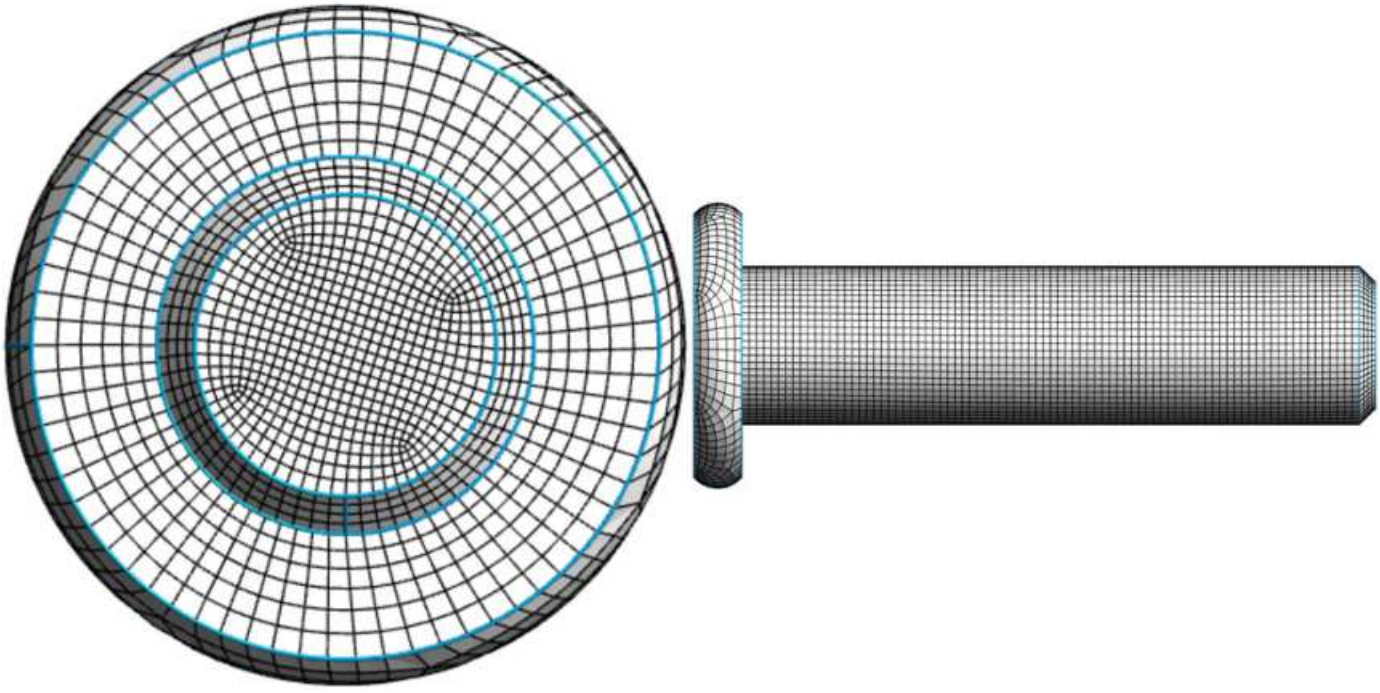
Model: 00004781 (from ABC dataset)
CAD: 19 corners, 29 curves, 14 faces
Cross field: 6 singularities detected
Timings: 8.88449 sec to generate the unstructured mesh, 7.68757 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13262	14236	439	106
Quasi-structured	13269	14243	100	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.015018	0.176809	0.630011	0.260187	0.961779	0.992744
Quasi-structured	0.0128868	0.176265	0.572727	0.639318	0.979635	0.996157



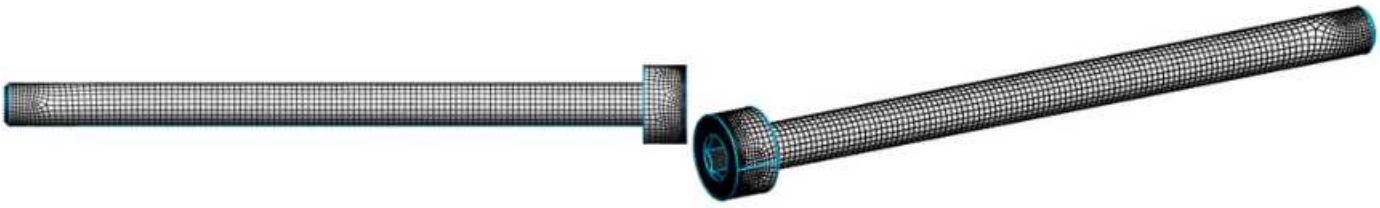


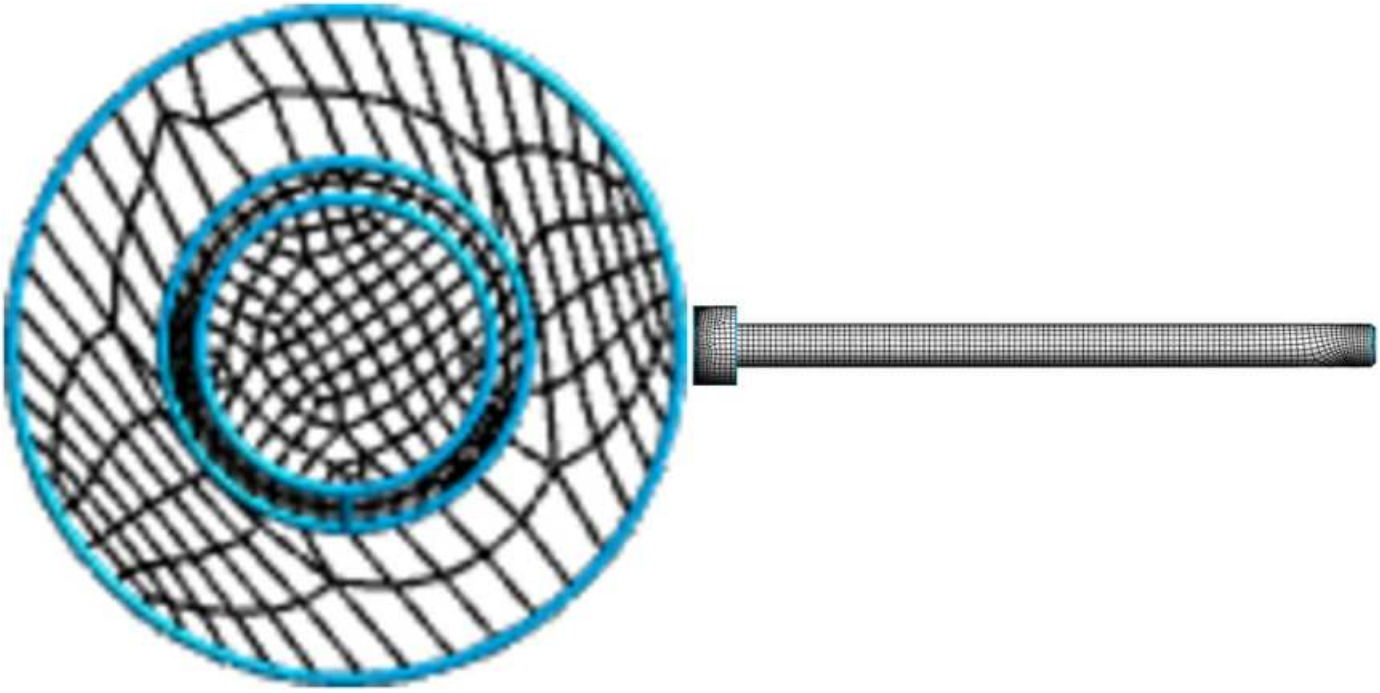
Model: 00004783 (from ABC dataset)
CAD: 19 corners, 29 curves, 14 faces
Cross field: 6 singularities detected
Timings: 3.22403 sec to generate the unstructured mesh, 2.04601 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8772	9584	443	140
Quasi-structured	8746	9558	180	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0141512	0.202872	0.680188	0.173638	0.941797	0.977133
Quasi-structured	0.0101857	0.204076	1.13546	0.142295	0.951371	0.976923



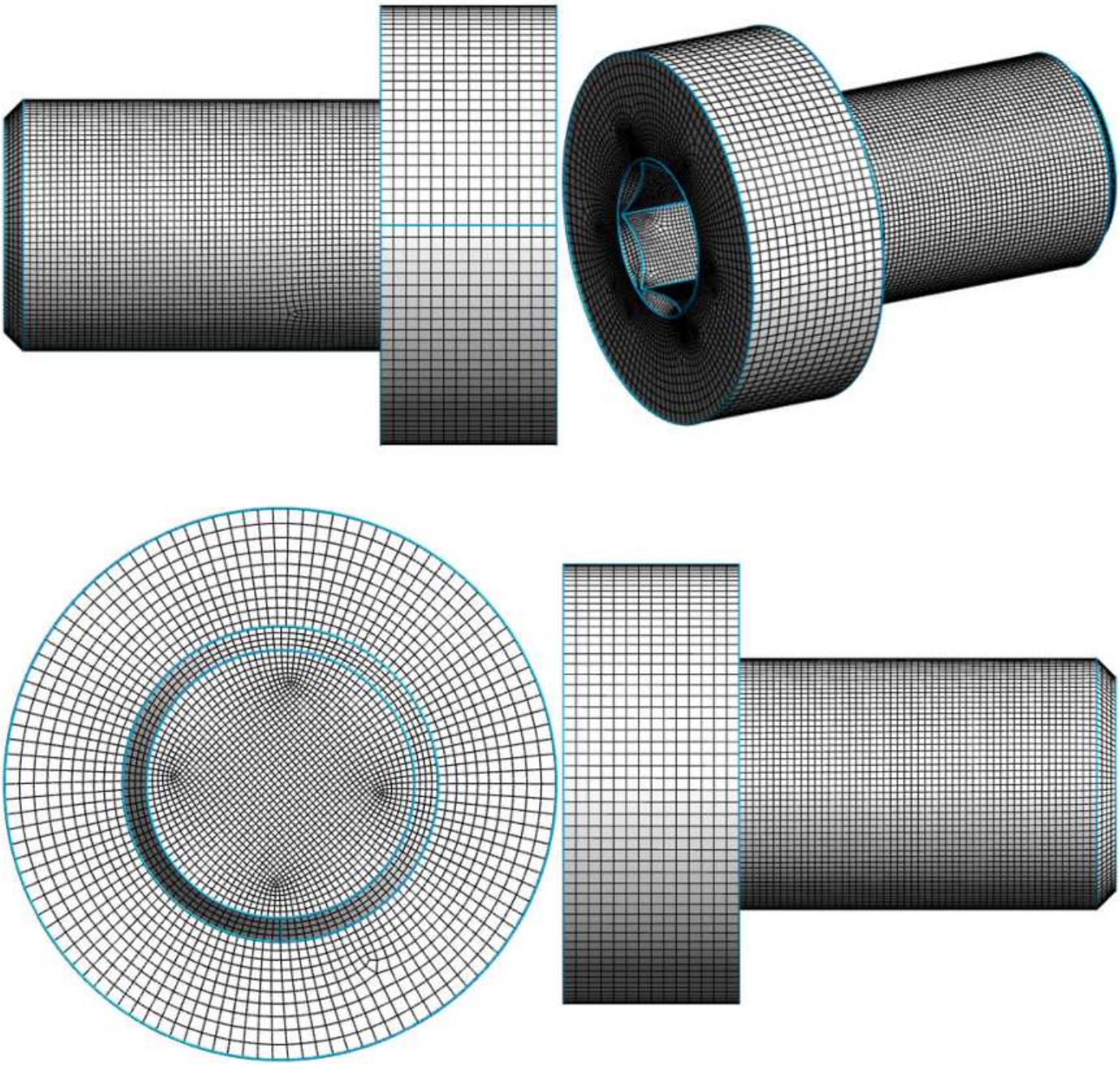


Model: 00004785 (from ABC dataset)
CAD: 19 corners, 29 curves, 14 faces
Cross field: 6 singularities detected
Timings: 24.2062 sec to generate the unstructured mesh, 5.05067 sec to make it quasi-structured
Mesh topology:

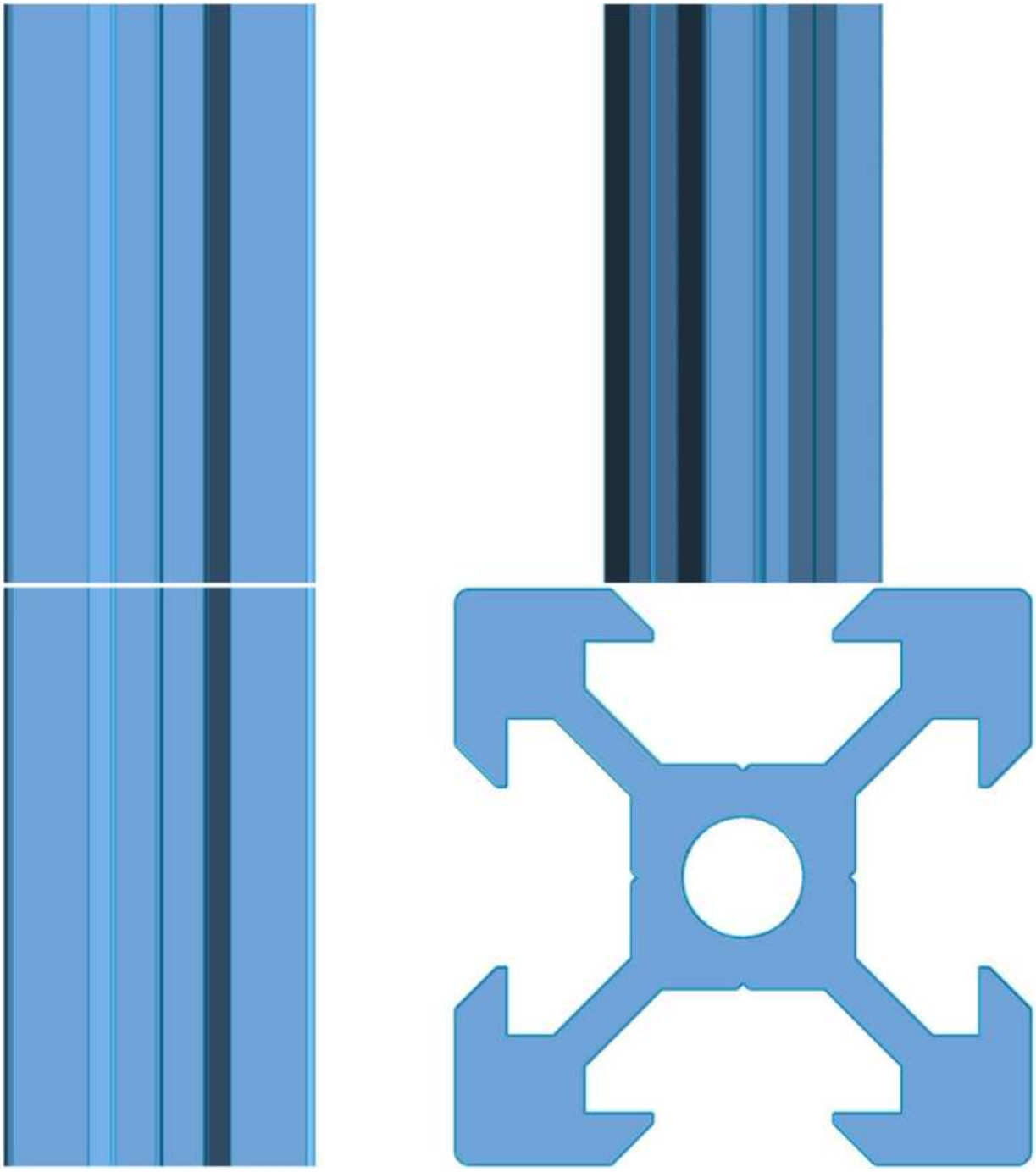
	# quads	# vertices	# irregular	# very irregular
Unstructured	17746	18908	213	74
Quasi-structured	17697	18859	64	1

Mesh geometry:

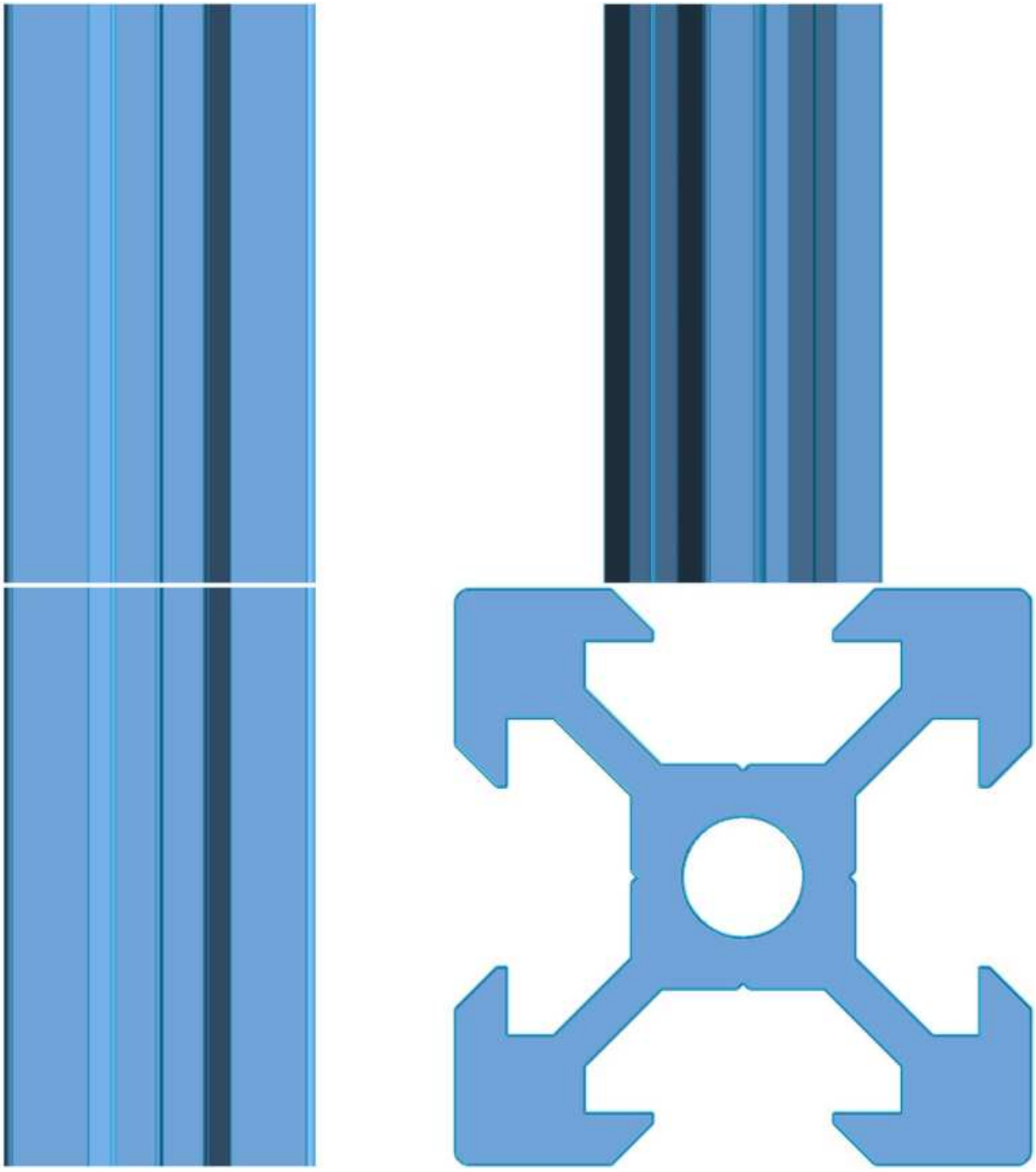
	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0139655	0.105151	0.239404	0.412328	0.971844	0.994874
Quasi-structured	0.00901754	0.104949	0.34657	0.383867	0.981884	0.99806



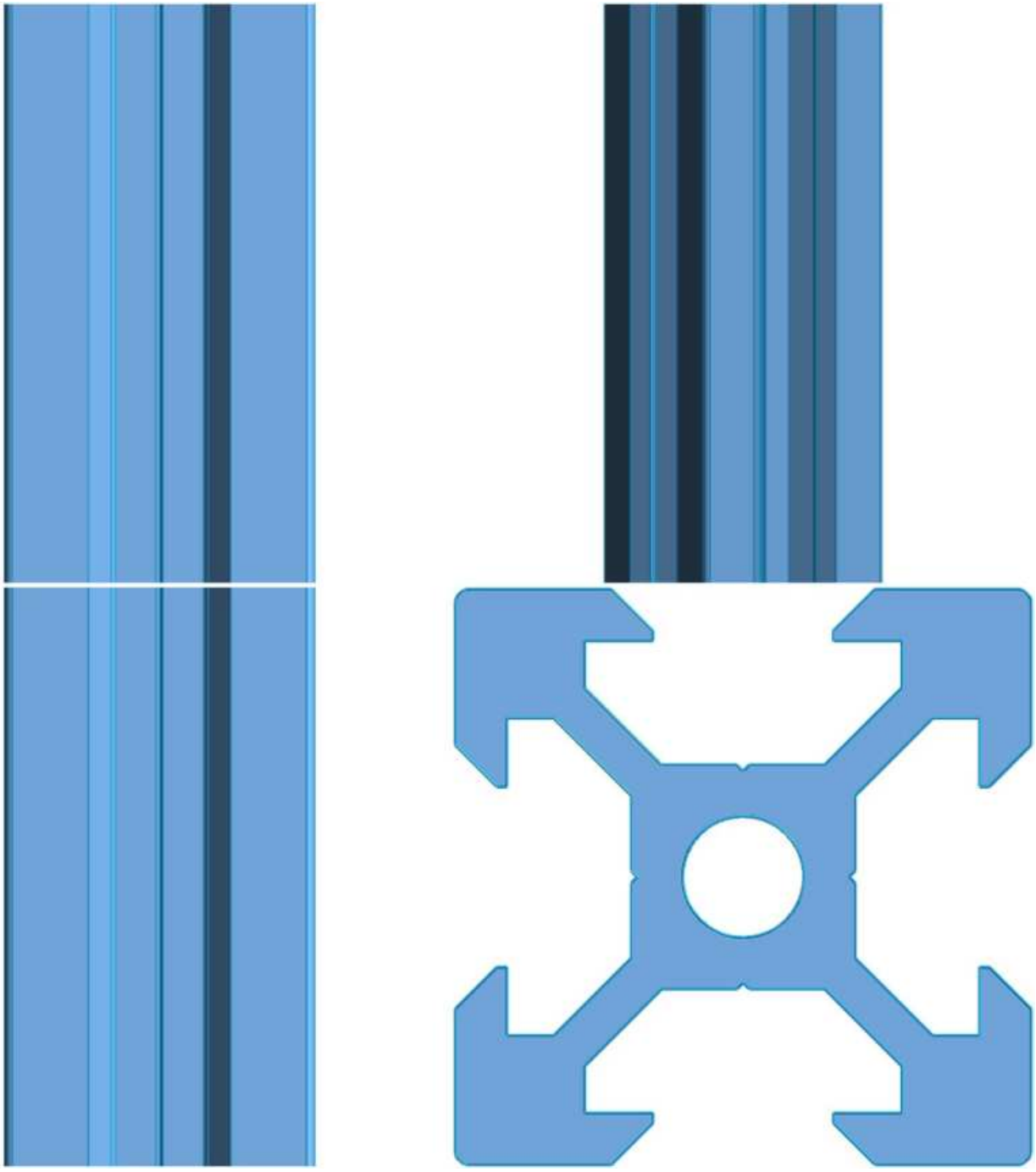
Model: 00004831 (from ABC dataset)
Error: failed to build quadrilateral mesh



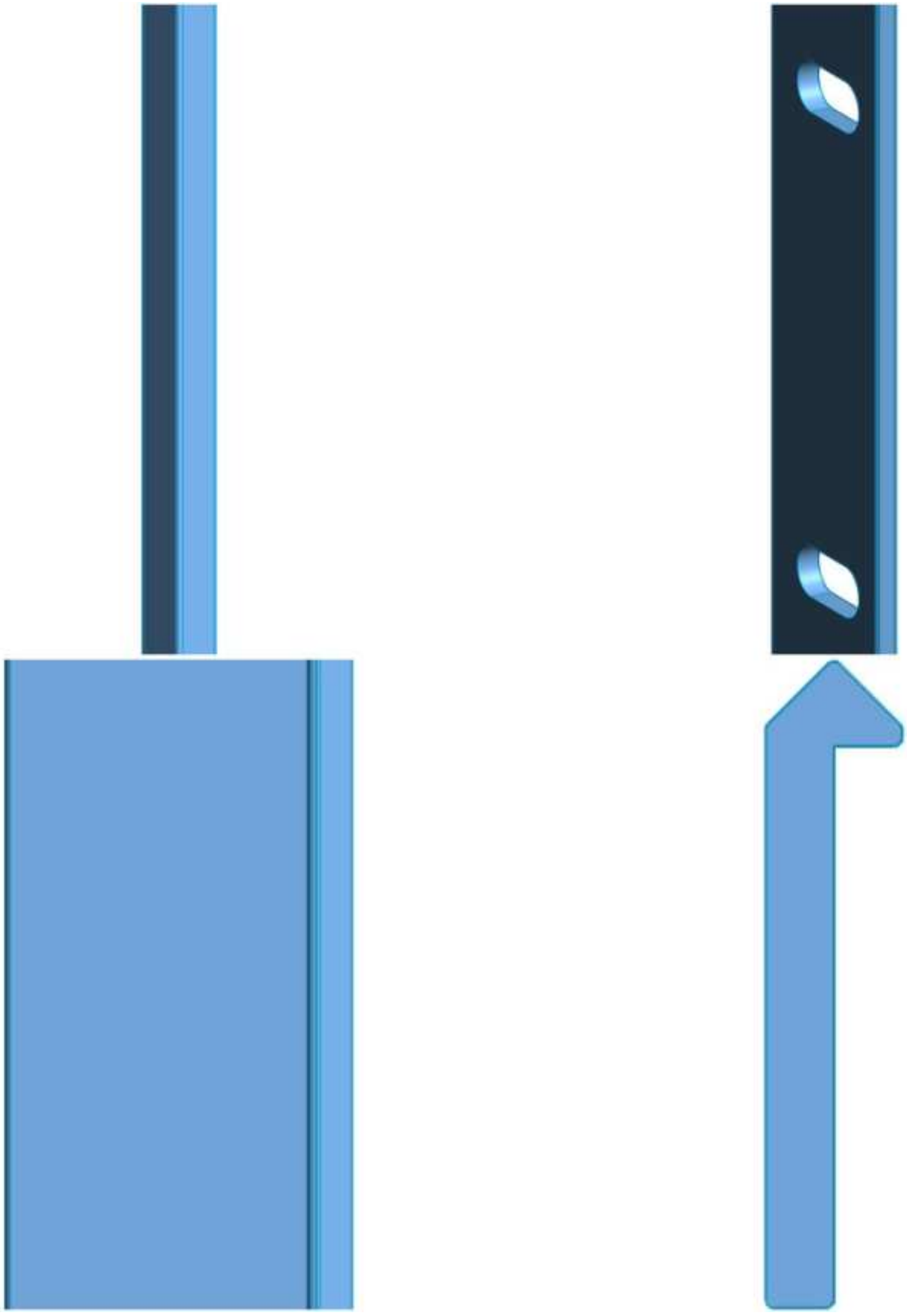
Model: 00004832 (from ABC dataset)
Error: failed to build quadrilateral mesh



Model: 00004833 (from ABC dataset)
Error: failed to build quadrilateral mesh



Model: 00004835 (from ABC dataset)
Error: failed to build quadrilateral mesh



Model: 00004842 (from ABC dataset)
CAD: 16 corners, 26 curves, 16 faces
Cross field: 0 singularities detected
Timings: 11.8677 sec to generate the unstructured mesh, 14.0779 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25220	28924	524	126
Quasi-structured	25406	29110	88	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0859261	0.266482	0.582874	0.346472	0.966003	0.998581
Quasi-structured	0.118601	0.26412	0.692158	0.788252	0.989971	0.997317

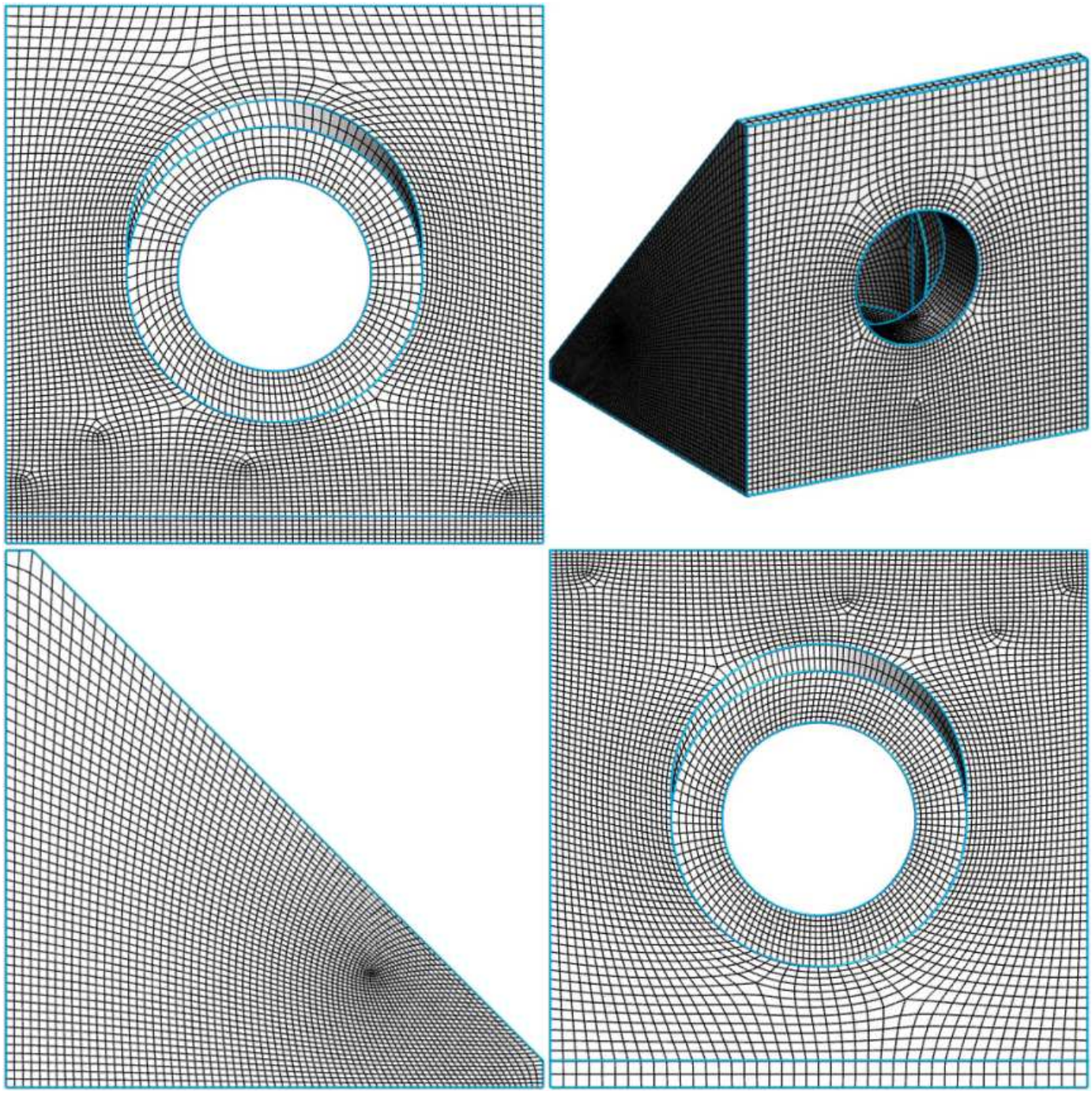


Model: 00004857 (from ABC dataset)
CAD: 20 corners, 32 curves, 15 faces
Cross field: 16 singularities detected
Timings: 13.9004 sec to generate the unstructured mesh, 6.20516 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22124	23826	469	75
Quasi-structured	26729	28431	70	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0745096	0.299233	0.816496	0.401877	0.975005	0.995281
Quasi-structured	0.0537936	0.275067	1.07335	0.530601	0.937085	0.983945

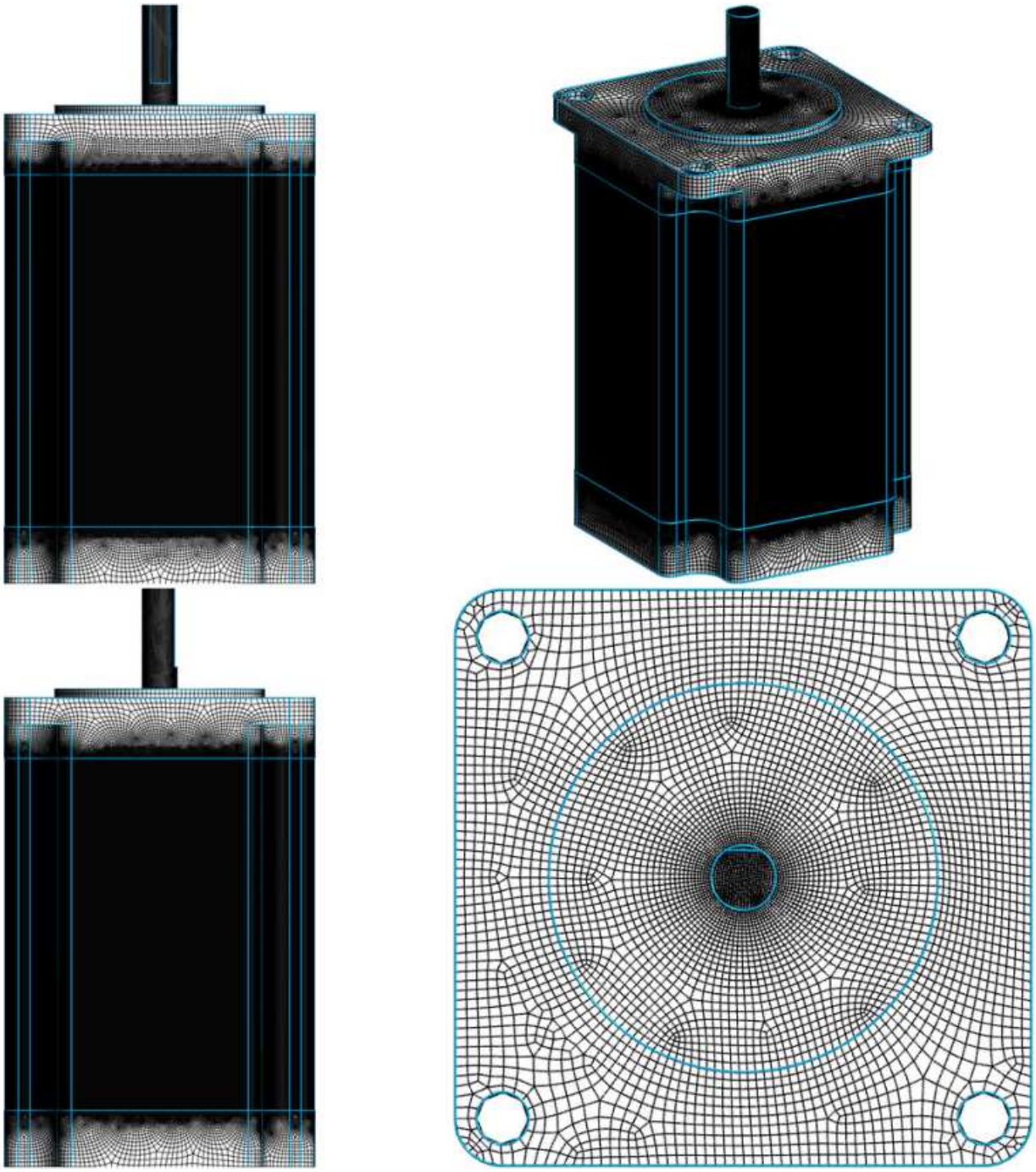


Model: 00004871 (from ABC dataset)
CAD: 178 corners, 266 curves, 94 faces
Cross field: 54 singularities detected
Timings: 28.9276 sec to generate the unstructured mesh, 871.928 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	392396	409084	5522	307
Quasi-structured	394736	411424	2372	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0252184	0.313351	2.33499	0.108976	0.557642	0.566542
Quasi-structured	0.0271846	0.312041	2.34447	0.108976	0.564136	0.575087

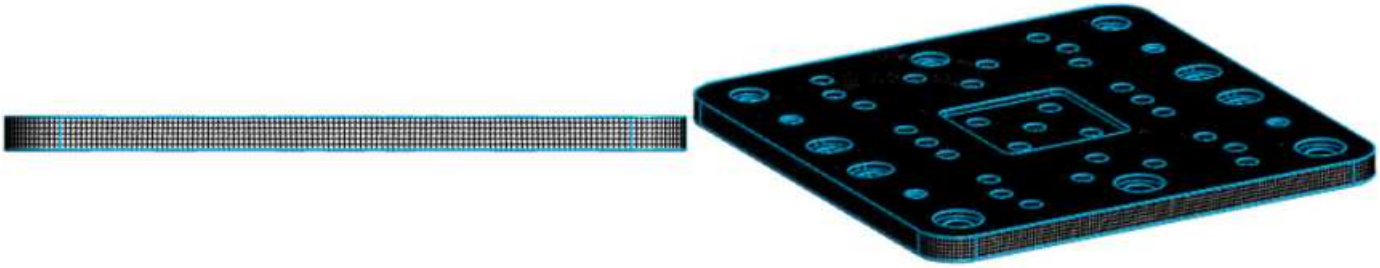


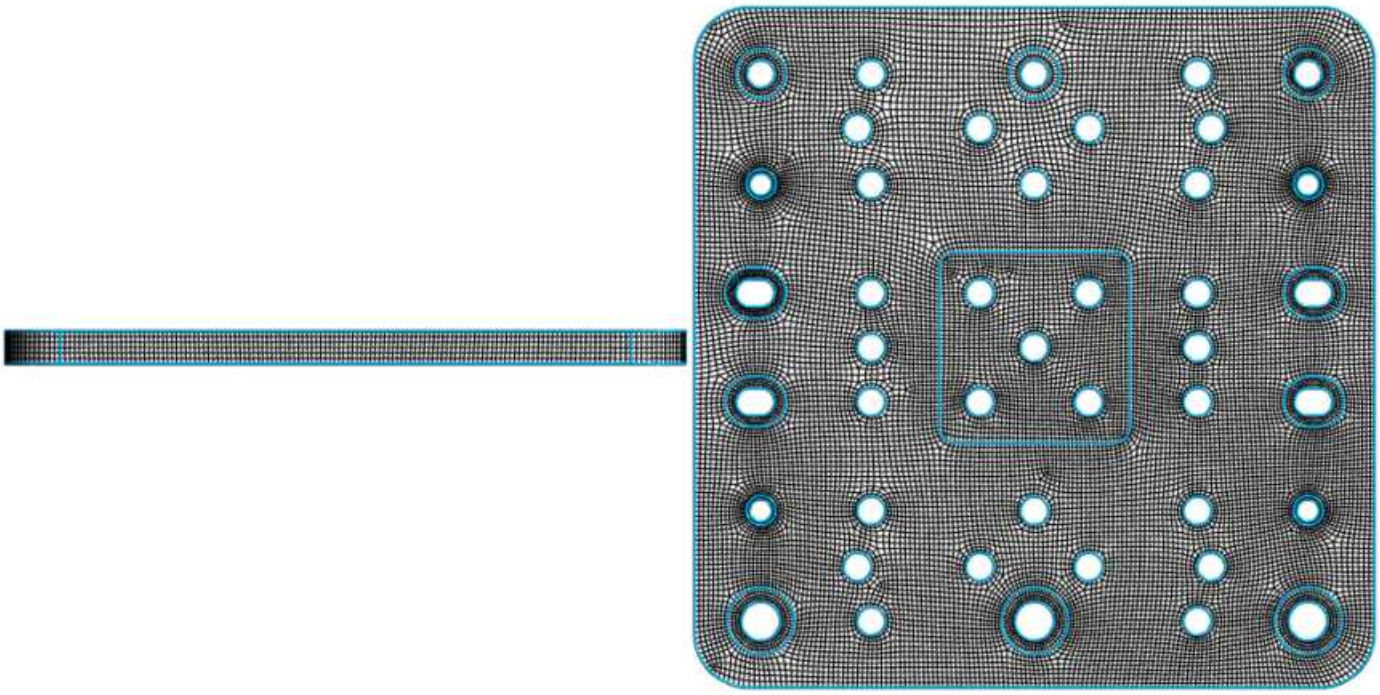
Model: 00004891 (from ABC dataset)
CAD: 192 corners, 289 curves, 110 faces
Cross field: 350 singularities detected
Timings: 72.2112 sec to generate the unstructured mesh, 37.1688 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	57160	62390	1897	394
Quasi-structured	57646	62876	550	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.195538	0.790095	1.65911	0.156542	0.954063	0.979122
Quasi-structured	0.190508	0.784935	1.83044	0.519429	0.974838	0.990881



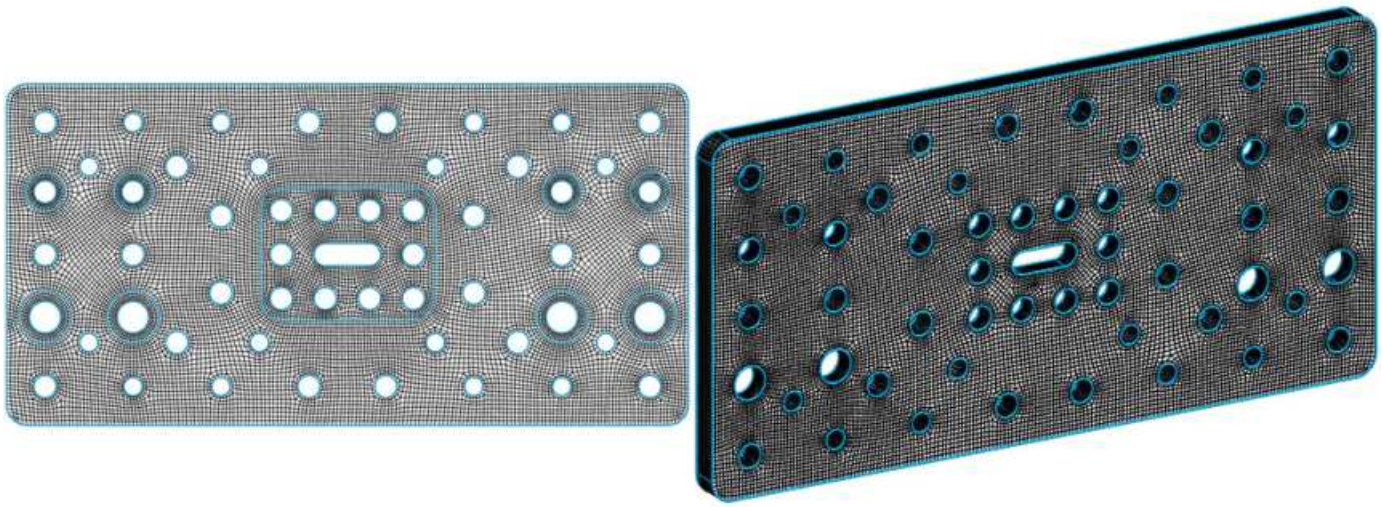


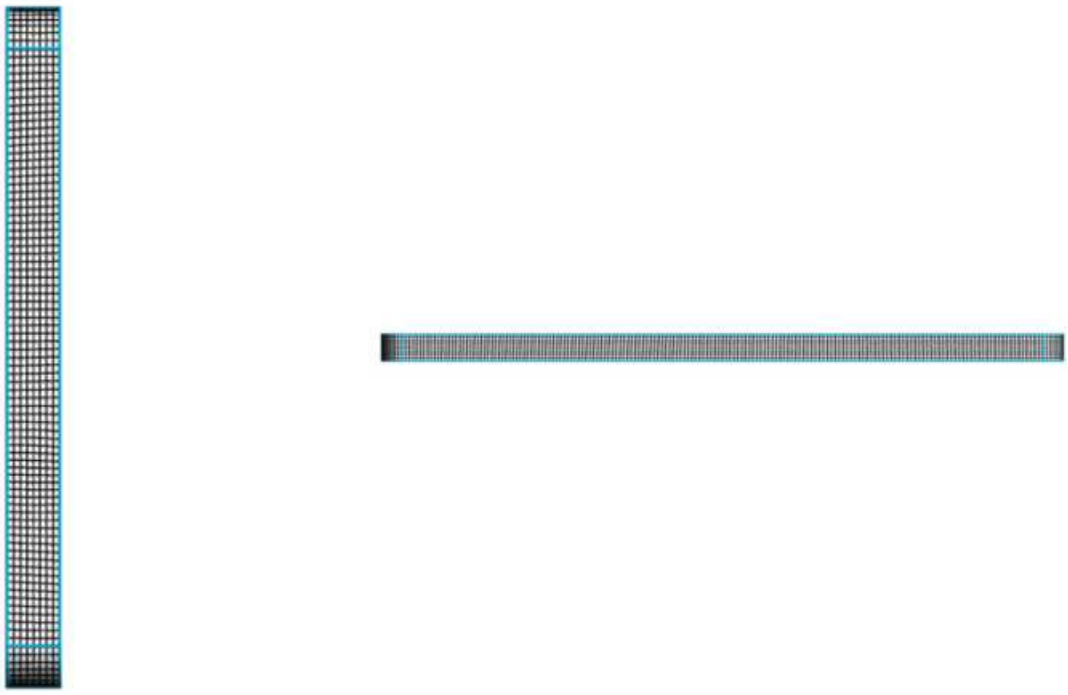
Model: 00004896 (from ABC dataset)
CAD: 174 corners, 256 curves, 93 faces
Cross field: 452 singularities detected
Timings: 45.8941 sec to generate the unstructured mesh, 16.7814 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	50740	55954	1929	555
Quasi-structured	50620	55834	610	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.190551	0.759435	1.67667	0.179009	0.951271	0.978535
Quasi-structured	0.192845	0.757436	1.86233	0.598503	0.974474	0.988747



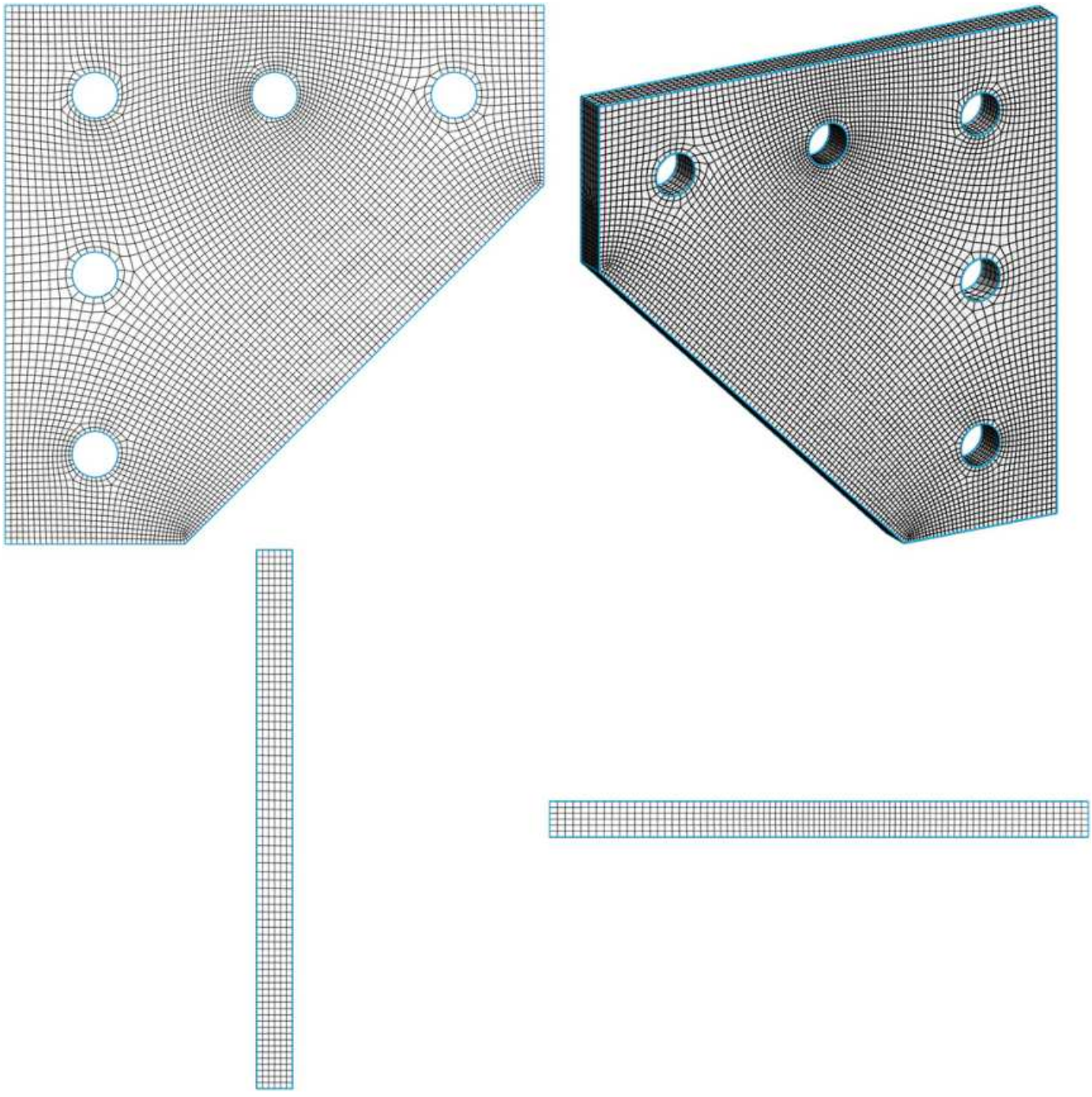


Model: 00004898 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 46 singularities detected
Timings: 8.63783 sec to generate the unstructured mesh, 1.75992 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13850	14787	264	39
Quasi-structured	14188	15125	55	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.123336	0.679915	1.51735	0.446559	0.966501	0.992719
Quasi-structured	0.195578	0.670816	1.83802	0.566353	0.980793	0.996007

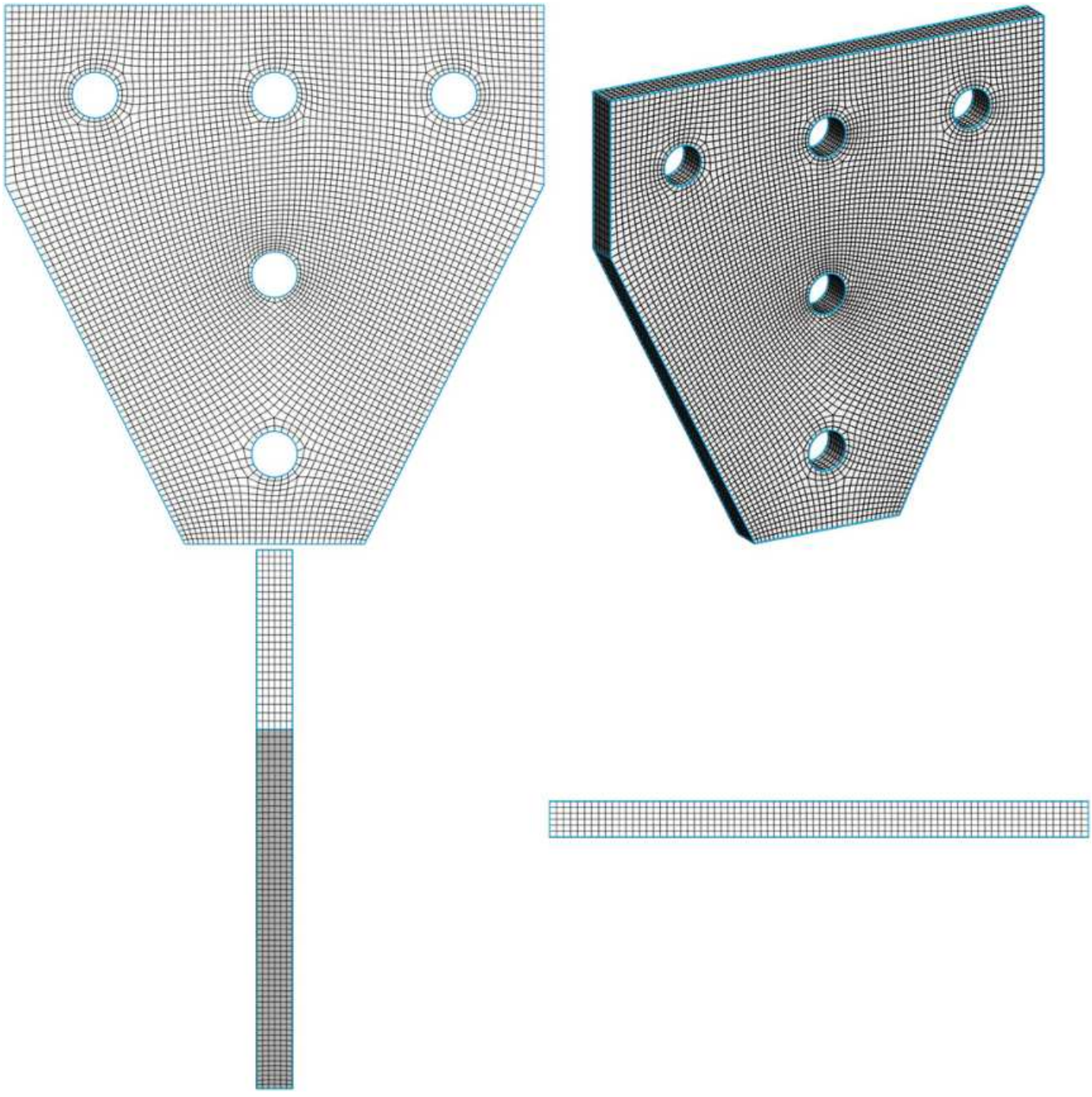


Model: 00004900 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 40 singularities detected
Timings: 12.2284 sec to generate the unstructured mesh, 2.06506 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13318	14204	214	40
Quasi-structured	13444	14330	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.196863	0.699248	1.2295	0.490458	0.971636	0.993477
Quasi-structured	0.290172	0.695301	1.56412	0.649058	0.985908	0.995145

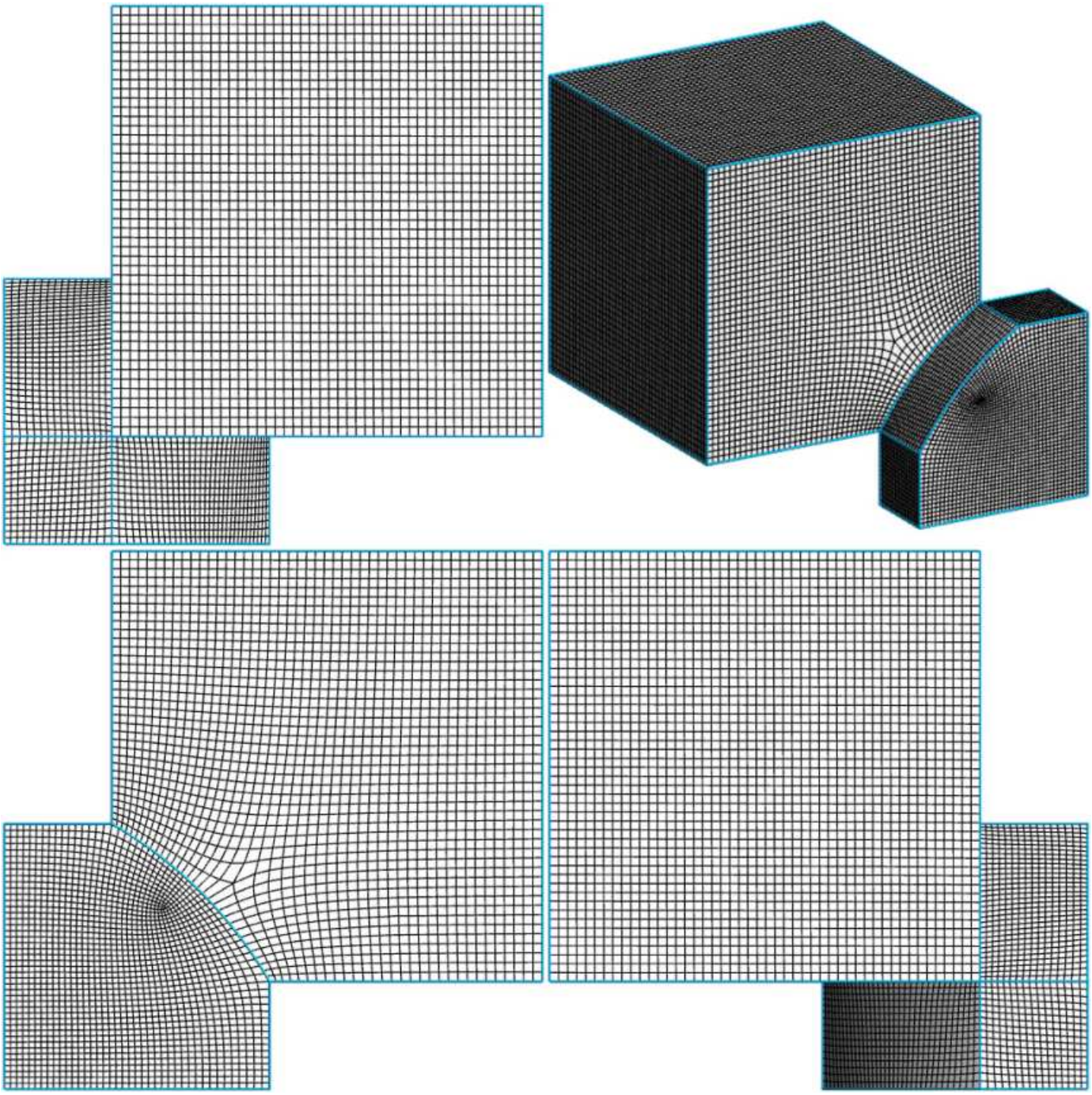


Model: 00004926 (from ABC dataset)
CAD: 20 corners, 33 curves, 15 faces
Cross field: 6 singularities detected
Timings: 18.4531 sec to generate the unstructured mesh, 2.43559 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20106	21161	144	4
Quasi-structured	20256	21311	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0858742	0.320359	0.631774	0.500688	0.989078	0.998856
Quasi-structured	0.0732274	0.317608	1.18221	0.472894	0.994297	0.998897

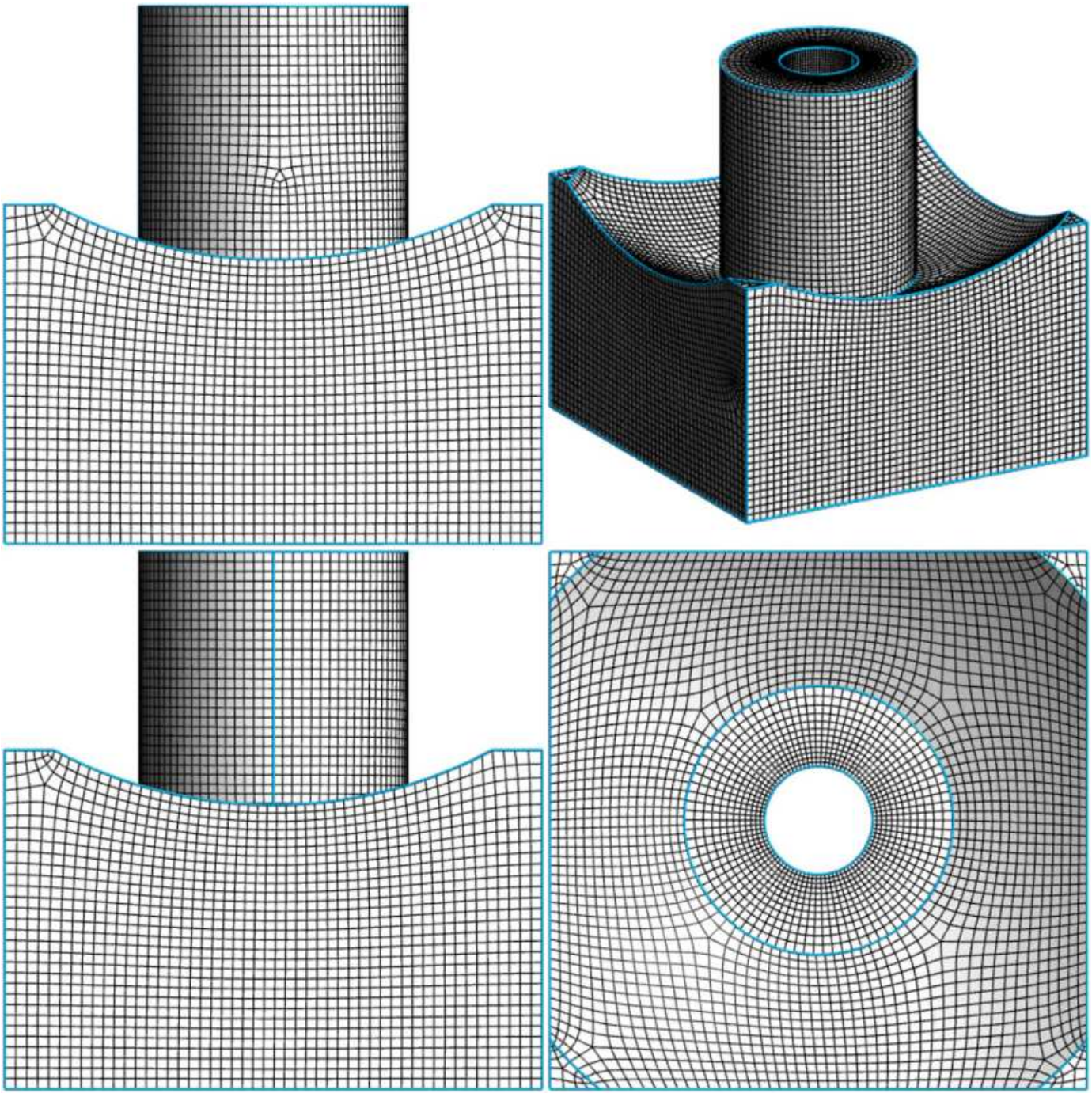


Model: 00004927 (from ABC dataset)
CAD: 22 corners, 33 curves, 15 faces
Cross field: 16 singularities detected
Timings: 19.8323 sec to generate the unstructured mesh, 4.31793 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23268	24344	196	145
Quasi-structured	23942	25018	44	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0607936	0.25672	0.660125	0.278497	0.987374	0.998876
Quasi-structured	0.0788956	0.254059	0.745335	0.579607	0.994271	0.998955

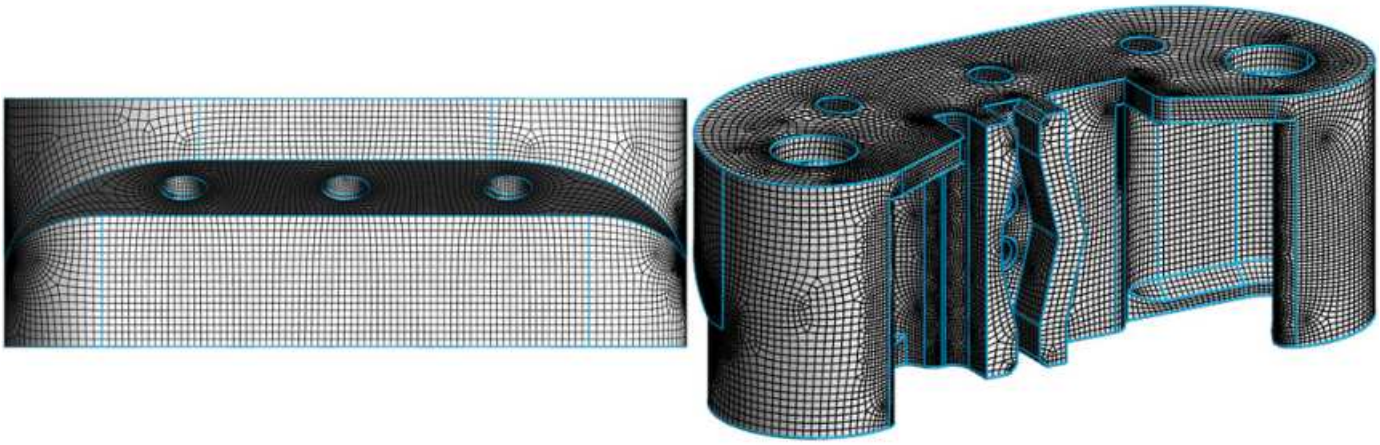


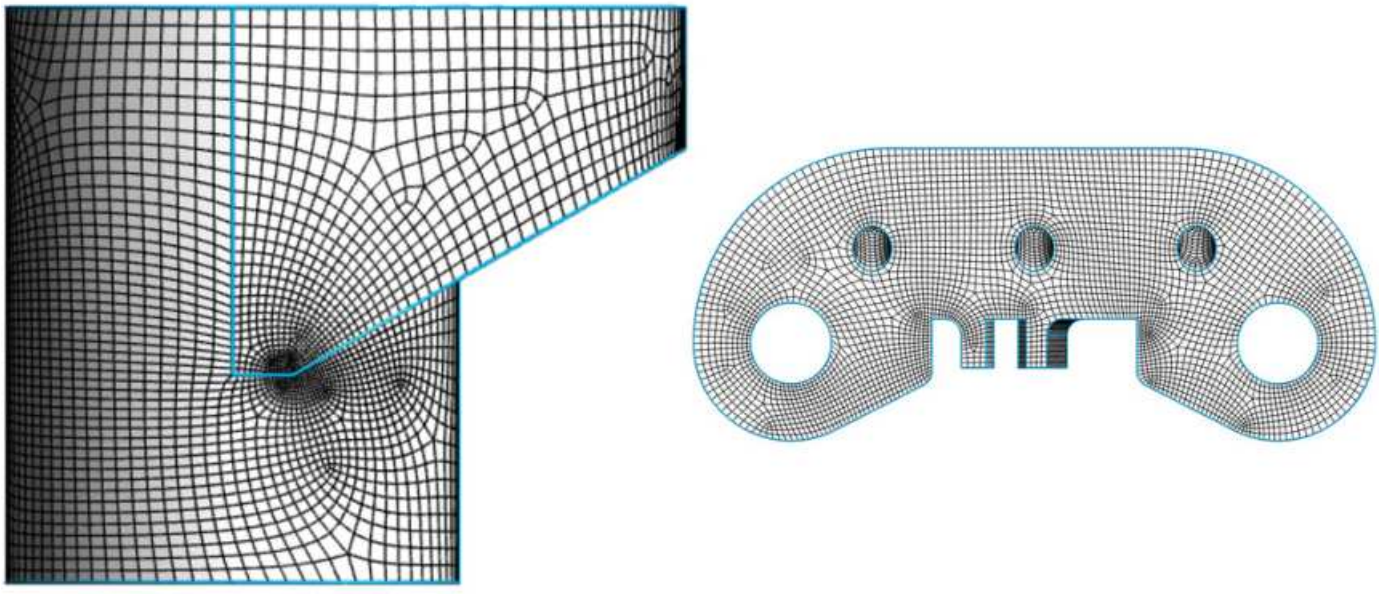
Model: 00004936 (from ABC dataset)
CAD: 154 corners, 237 curves, 87 faces
Cross field: 80 singularities detected
Timings: 23.3219 sec to generate the unstructured mesh, 39.7258 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	38850	43937	2275	174
Quasi-structured	41839	46926	644	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00495199	0.550967	1.5701	8.29657e-06	0.922819	0.972467
Quasi-structured	0.00557493	0.524942	3.36507	0.019886	0.949733	0.976187



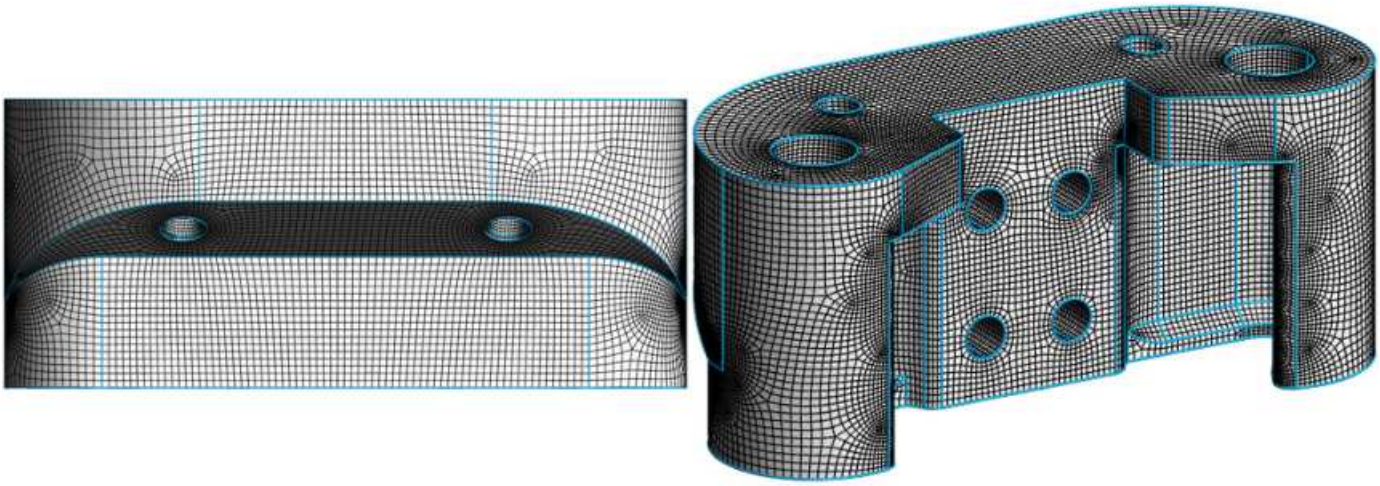


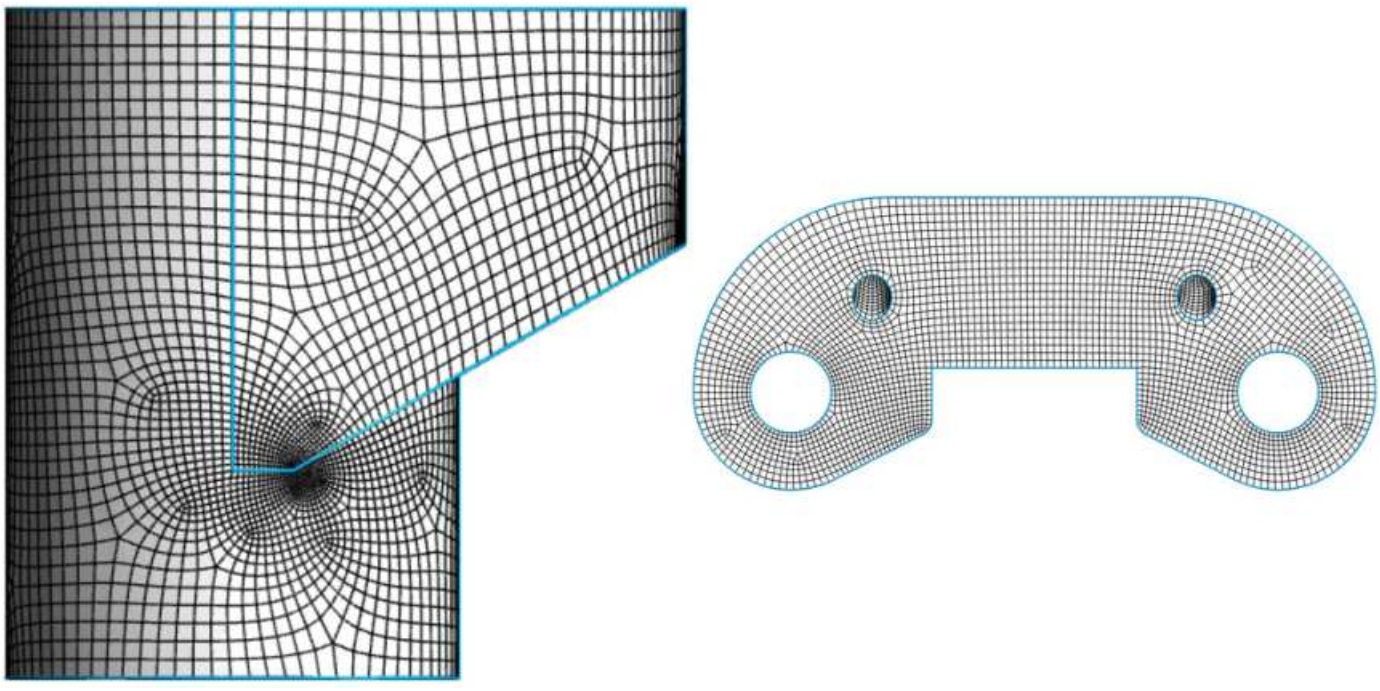
Model: 00004937 (from ABC dataset)
CAD: 102 corners, 158 curves, 62 faces
Cross field: 82 singularities detected
Timings: 15.4848 sec to generate the unstructured mesh, 16.3395 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36344	40398	1893	189
Quasi-structured	38432	42486	450	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00560885	0.588811	1.87257	0.00033157	0.928969	0.97796
Quasi-structured	0.00889515	0.565059	2.37577	0.0198847	0.959134	0.982422



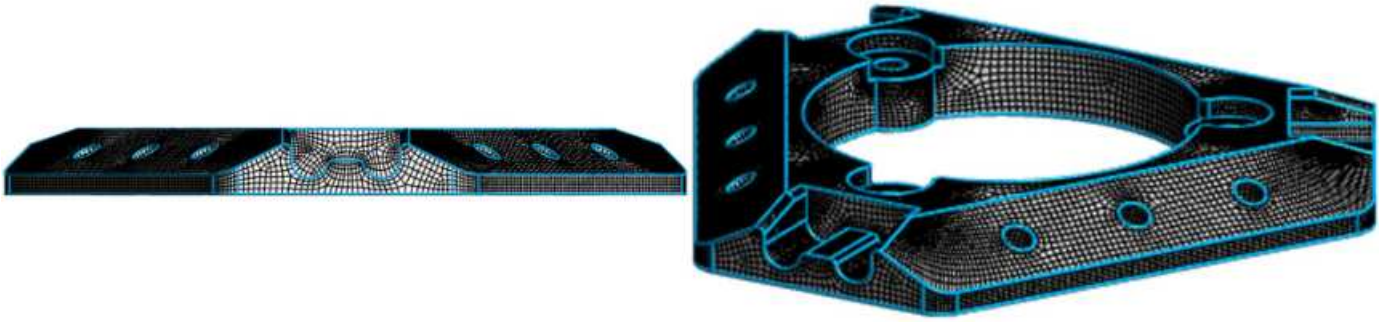


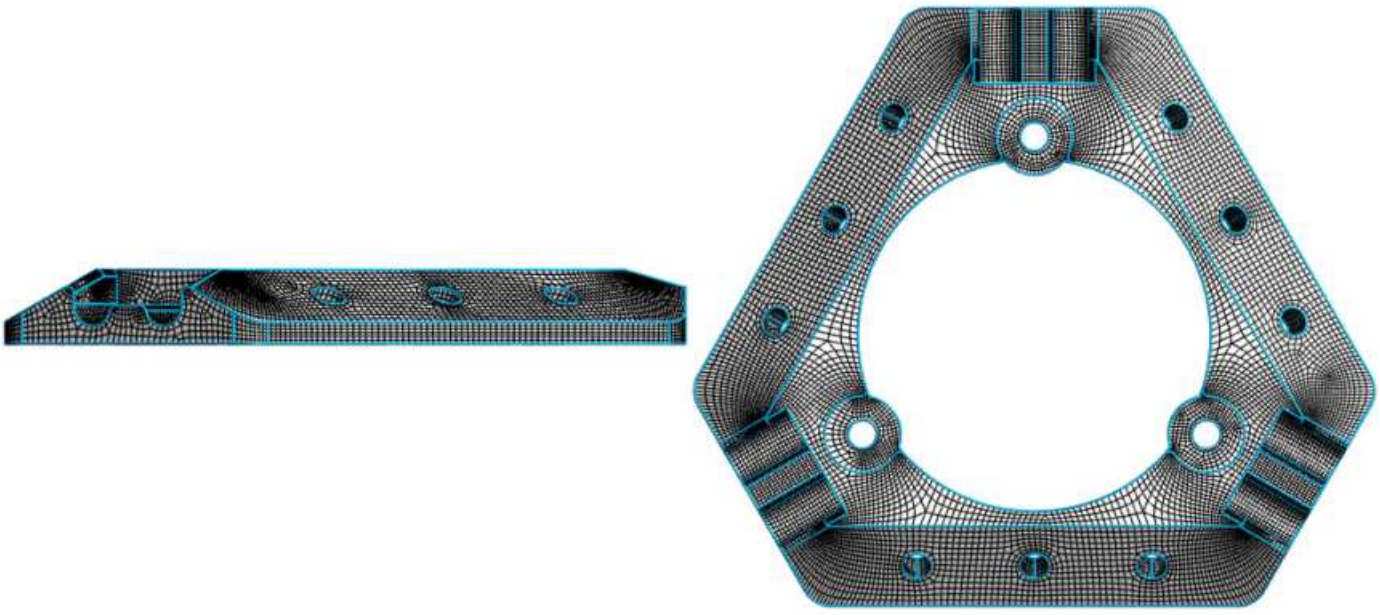
Model: 00004939 (from ABC dataset)
CAD: 174 corners, 255 curves, 83 faces
Cross field: 171 singularities detected
Timings: 14.5689 sec to generate the unstructured mesh, 8.49878 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27104	30779	1503	168
Quasi-structured	27696	31371	462	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0429702	0.782619	2.0644	0.0441944	0.92096	0.964604
Quasi-structured	0.0335757	0.774015	2.69647	0.102617	0.93242	0.968623



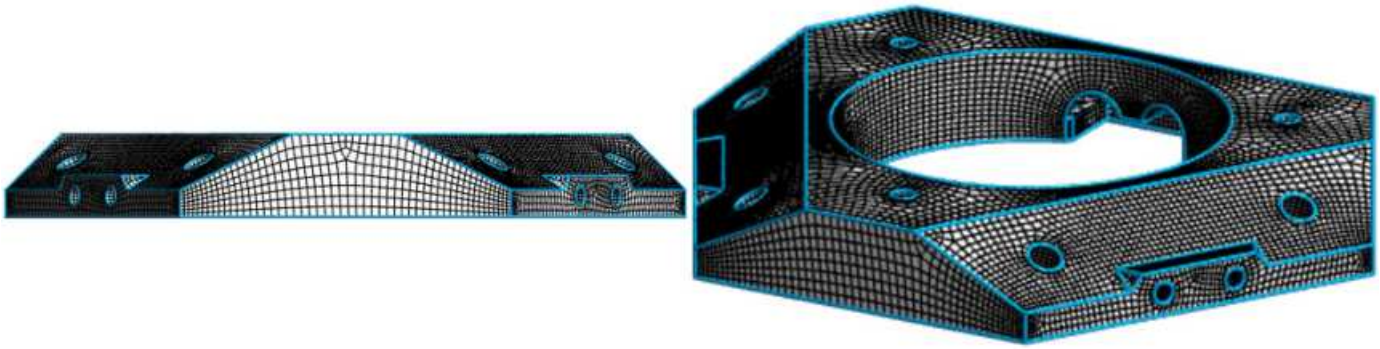


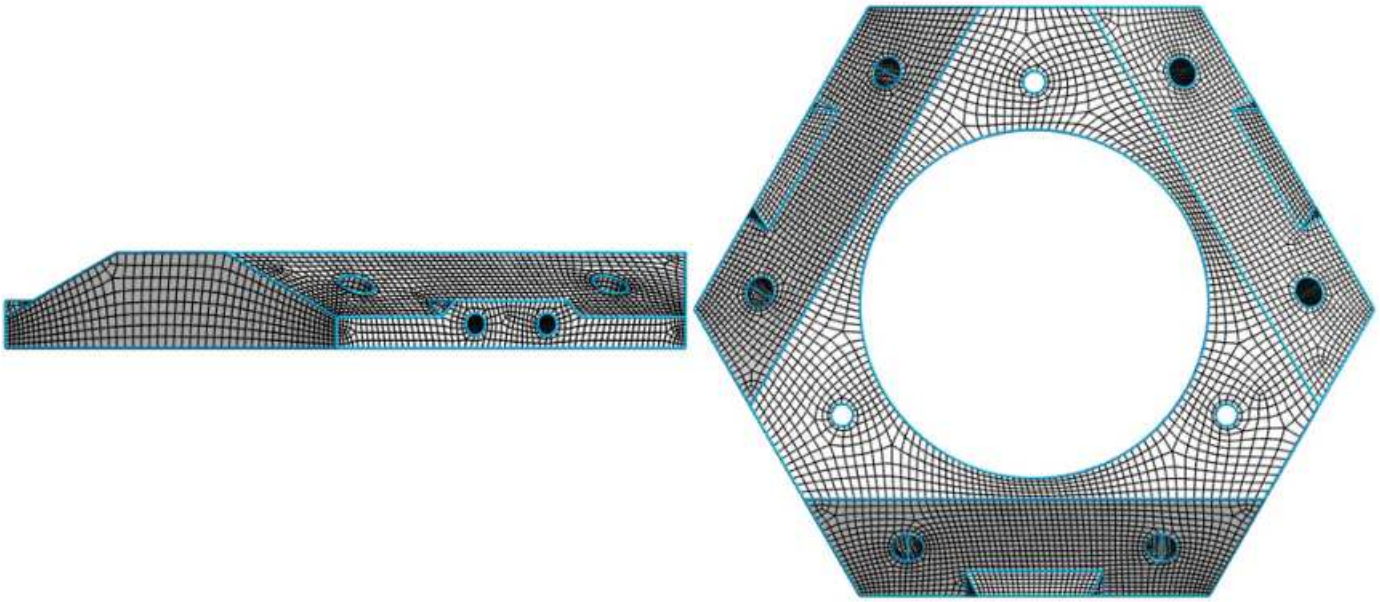
Model: 00004940 (from ABC dataset)
CAD: 146 corners, 219 curves, 75 faces
Cross field: 150 singularities detected
Timings: 19.8844 sec to generate the unstructured mesh, 24.6633 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21294	24322	1199	296
Quasi-structured	22139	25167	438	5

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0176956	0.868657	3.11115	0.0325218	0.931189	0.973796
Quasi-structured	0.0531122	0.844031	3.14727	0.0697	0.950624	0.977474



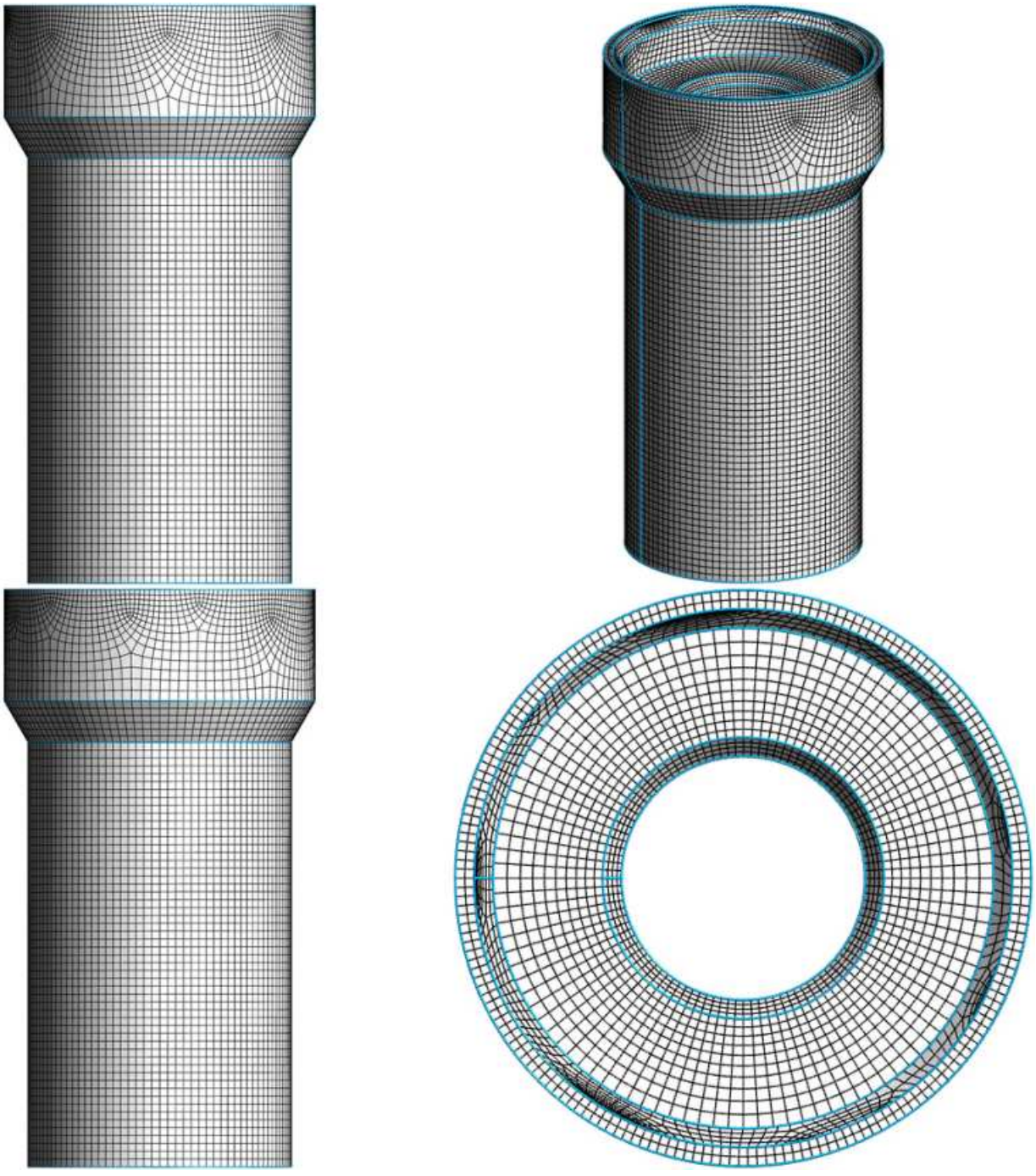


Model: 00004946 (from ABC dataset)
CAD: 14 corners, 24 curves, 13 faces
Cross field: 0 singularities detected
Timings: 18.1987 sec to generate the unstructured mesh, 12.5505 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22456	24020	220	190
Quasi-structured	22772	24336	66	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.095797	0.303806	0.64313	0.382322	0.984336	0.998988
Quasi-structured	0.0395398	0.301381	1.05502	0.274046	0.98416	0.999472

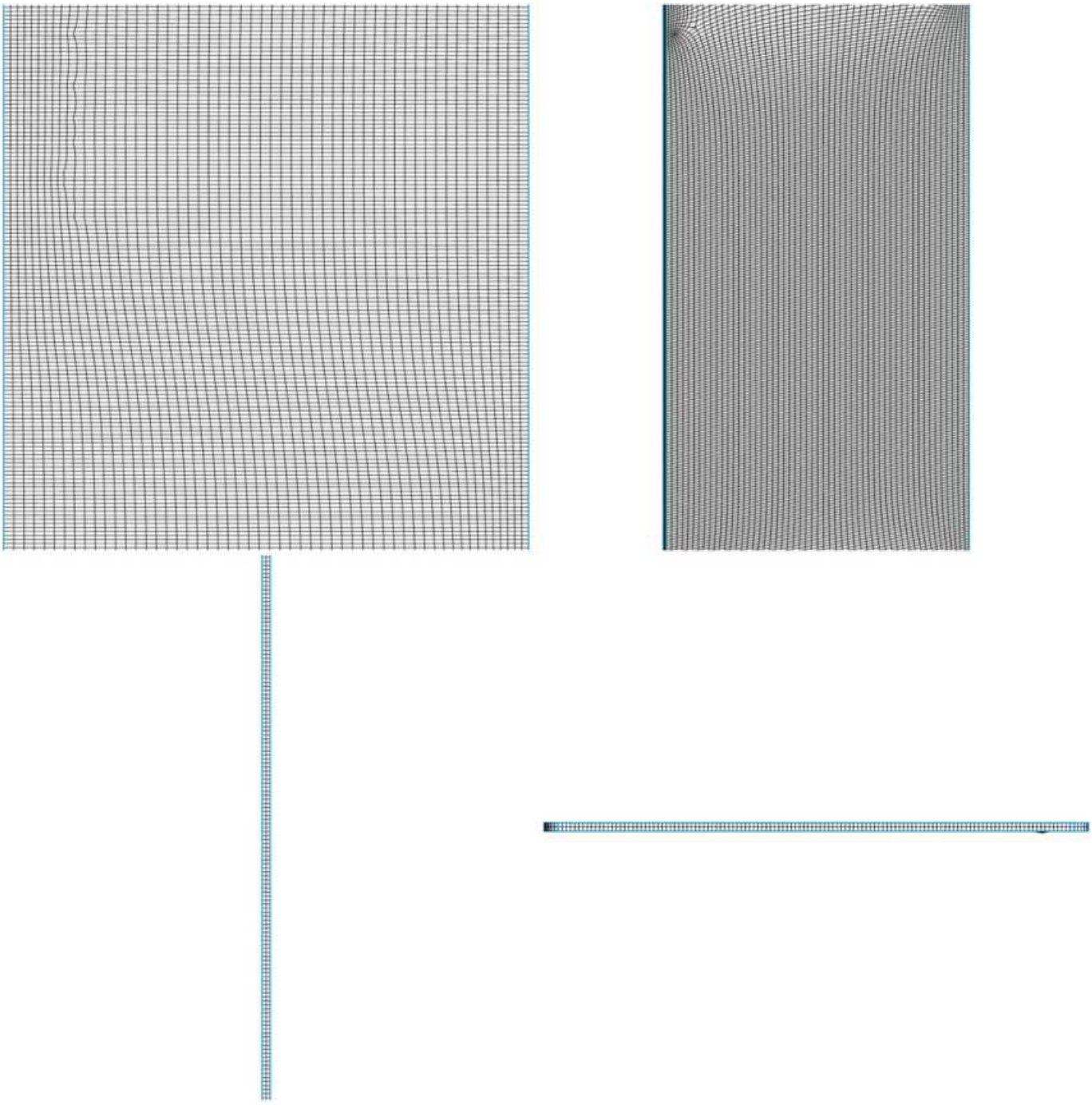


Model: 00004962 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 40 singularities detected
Timings: 6.54263 sec to generate the unstructured mesh, 239.588 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30960	33042	950	136
Quasi-structured	39682	41764	372	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.636221	2.53385	7.23633	0.258821	0.929457	0.957175
Quasi-structured	0.251451	2.43578	7.36033	0.149988	0.817274	0.75352

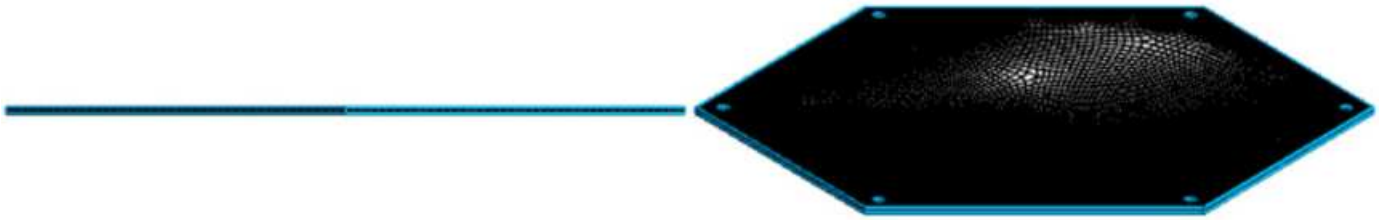


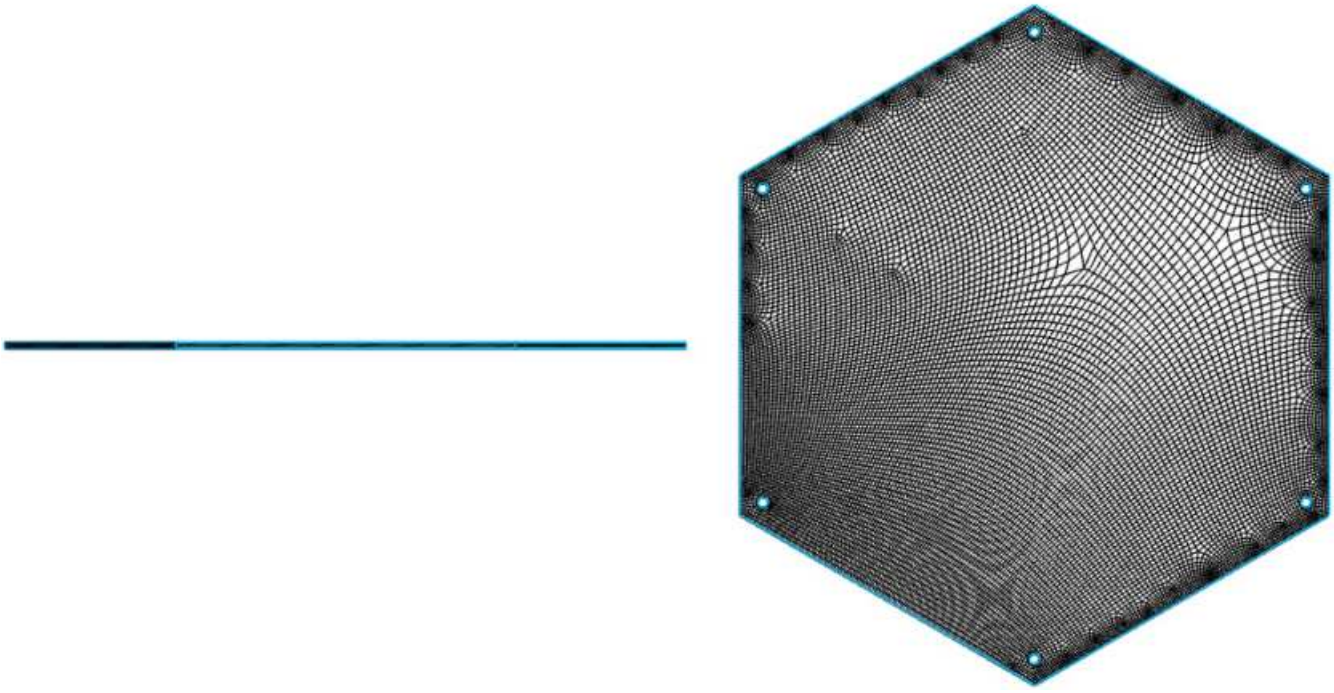
Model: 00004963 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 52 singularities detected
Timings: 13.5508 sec to generate the unstructured mesh, 111.148 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28104	29864	928	68
Quasi-structured	29552	31312	260	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.320428	1.35621	4.18225	0.441265	0.945396	0.978546
Quasi-structured	0.325964	1.327	7.498	0.381558	0.954835	0.981543



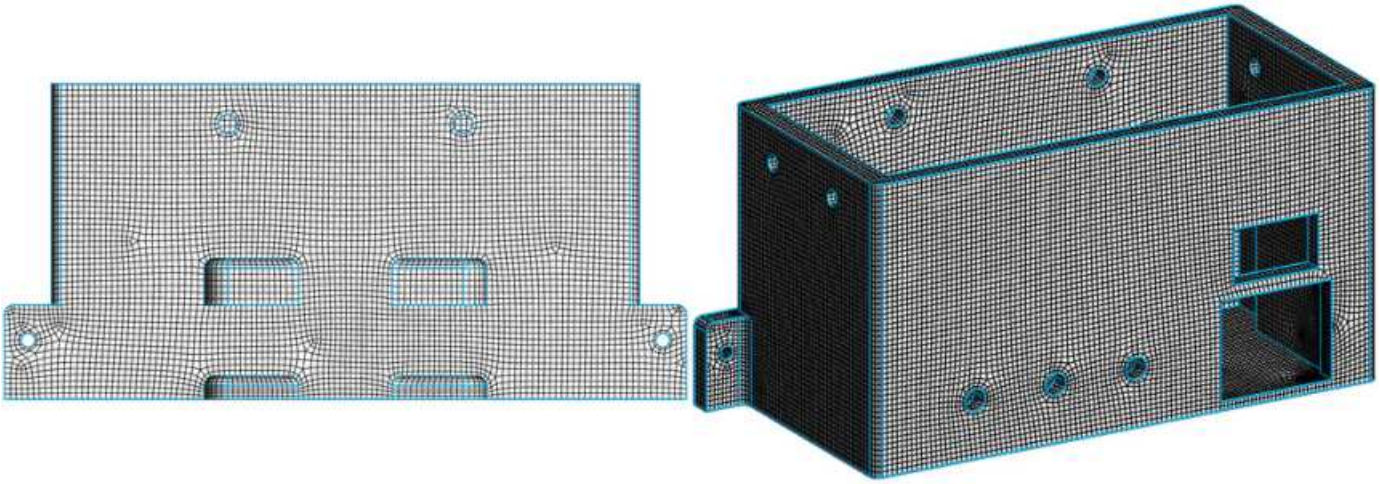


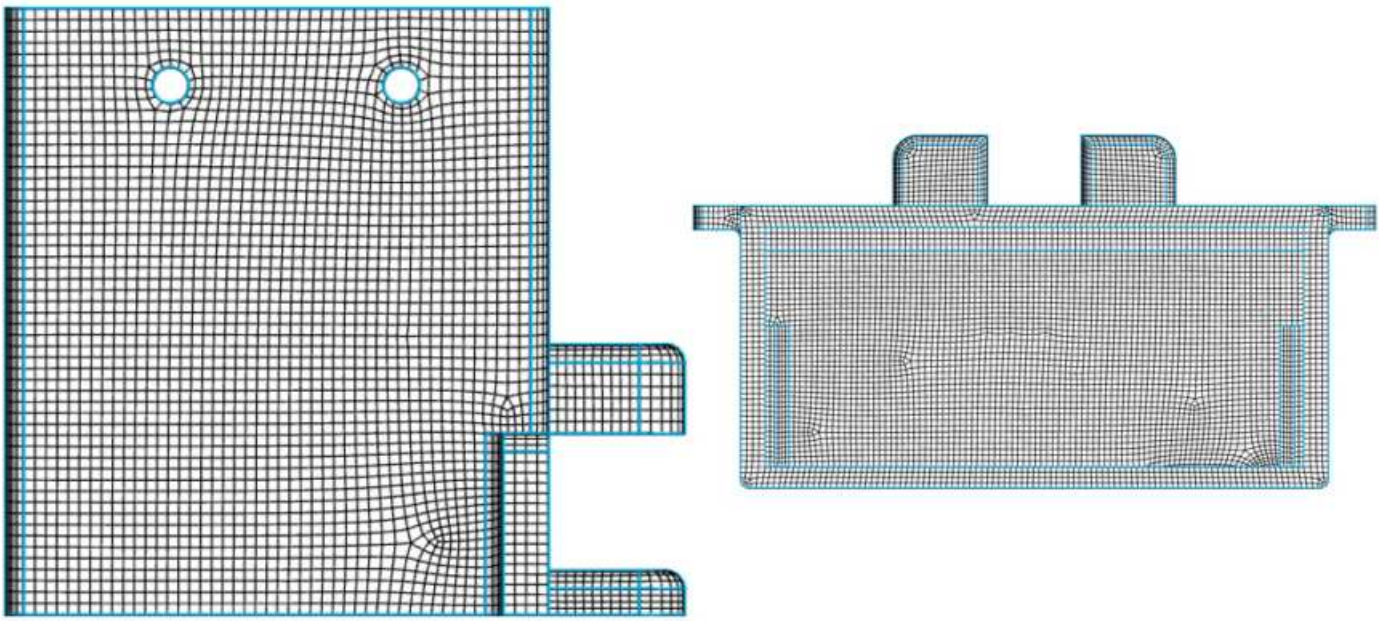
Model: 00004966 (from ABC dataset)
CAD: 177 corners, 268 curves, 95 faces
Cross field: 149 singularities detected
Timings: 30.0189 sec to generate the unstructured mesh, 7.6541 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	46906	51068	682	95
Quasi-structured	47794	51956	314	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.208626	1.18607	2.0781	0.021028	0.972822	0.996024
Quasi-structured	0.107383	1.17229	2.18432	0.180822	0.98557	0.997231



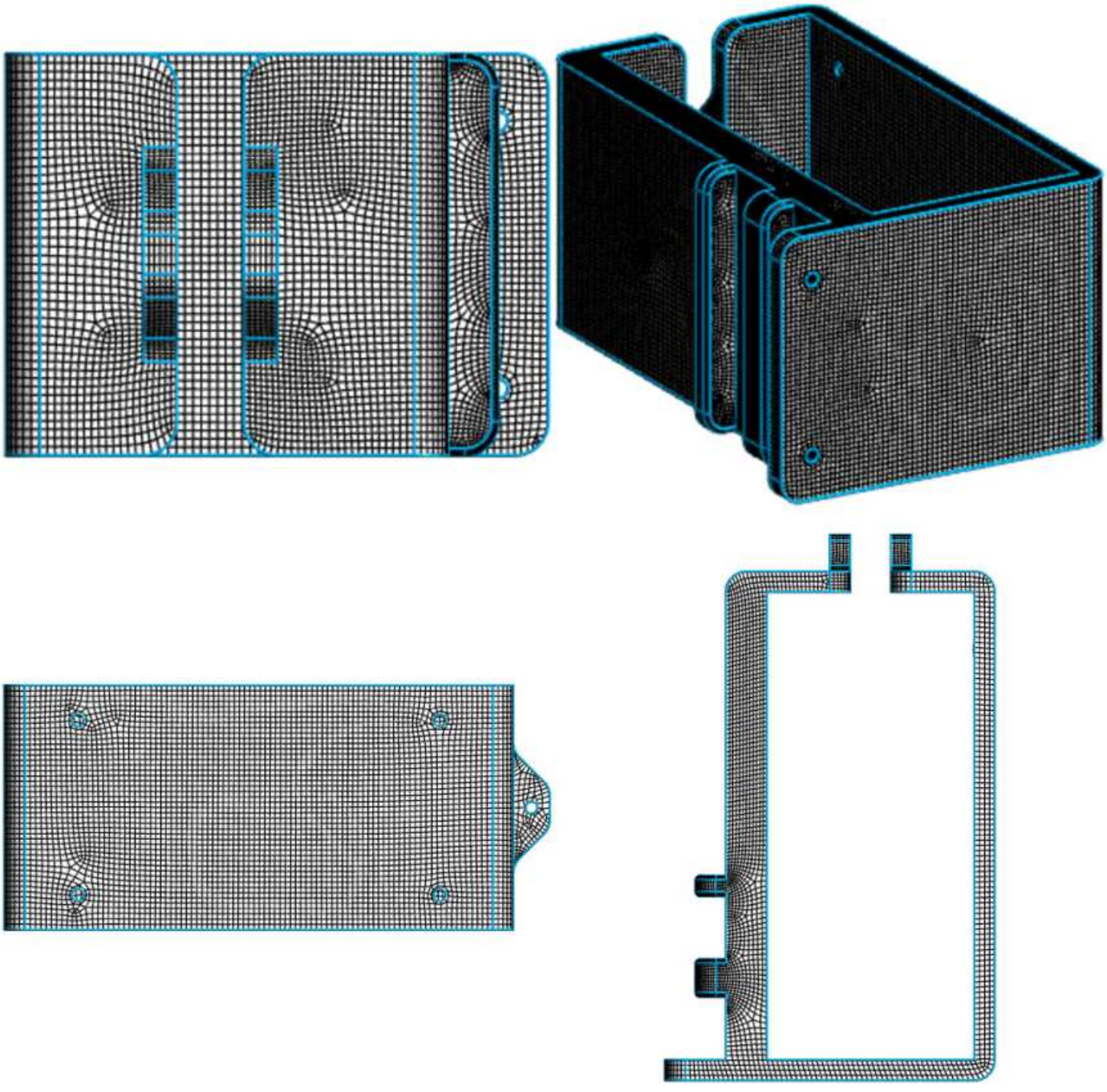


Model: 00004967 (from ABC dataset)
CAD: 159 corners, 246 curves, 93 faces
Cross field: 142 singularities detected
Timings: 28.7358 sec to generate the unstructured mesh, 17.6047 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	41258	45421	989	130
Quasi-structured	41592	45755	423	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.115539	1.09736	2.58599	0.0134361	0.963567	0.996961
Quasi-structured	0.0212145	1.09093	3.76581	0.0599873	0.974594	0.997549

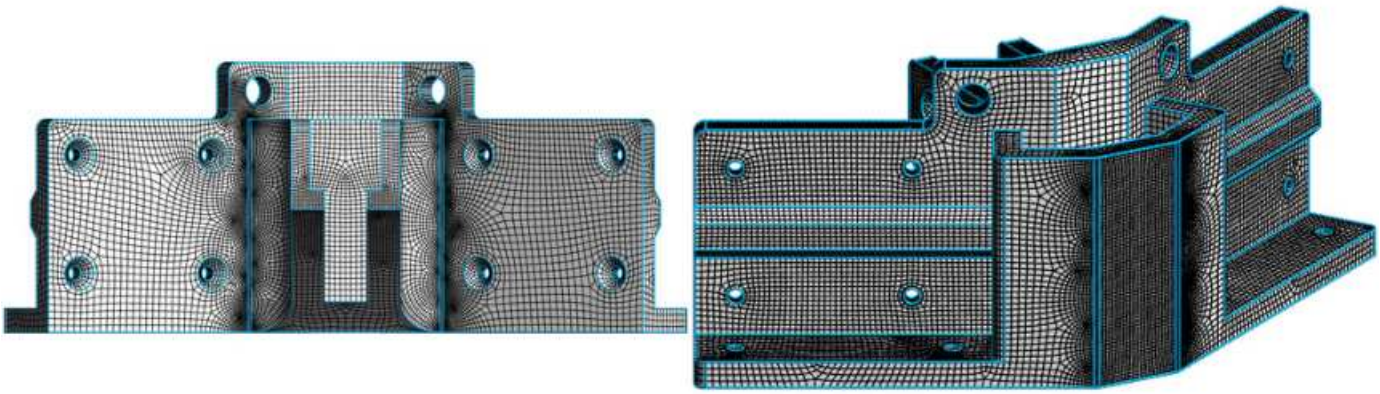


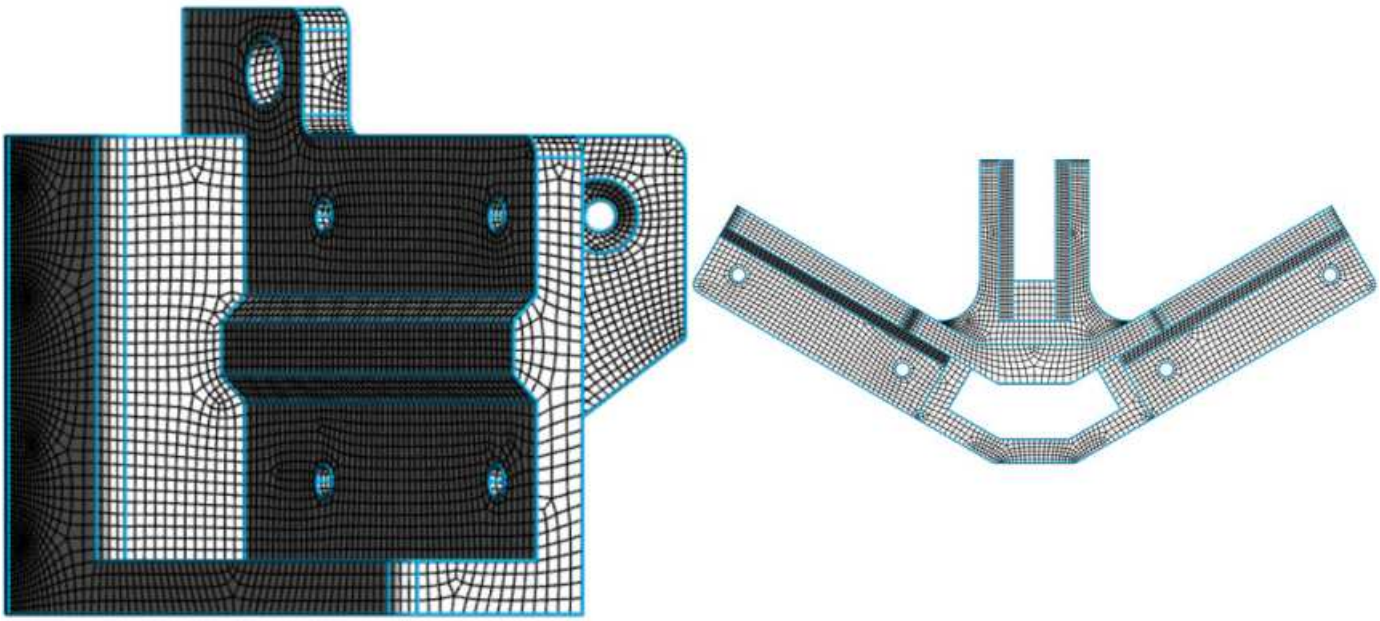
Model: 00004971 (from ABC dataset)
CAD: 194 corners, 294 curves, 101 faces
Cross field: 182 singularities detected
Timings: 15.7201 sec to generate the unstructured mesh, 21.7943 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	38096	43438	1897	217
Quasi-structured	38331	43673	558	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0379874	0.869681	2.62802	0.00403747	0.931856	0.969318
Quasi-structured	0.0171636	0.863887	3.63227	0.0187608	0.952662	0.973309



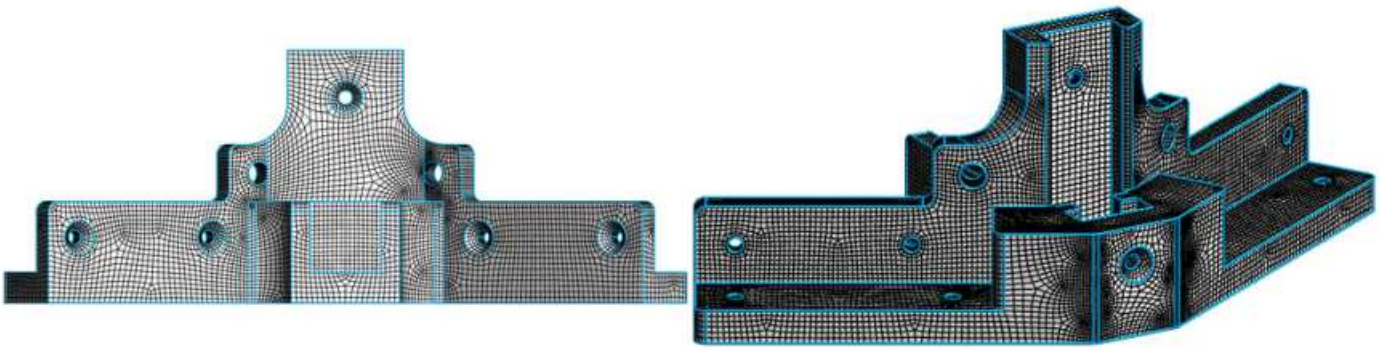


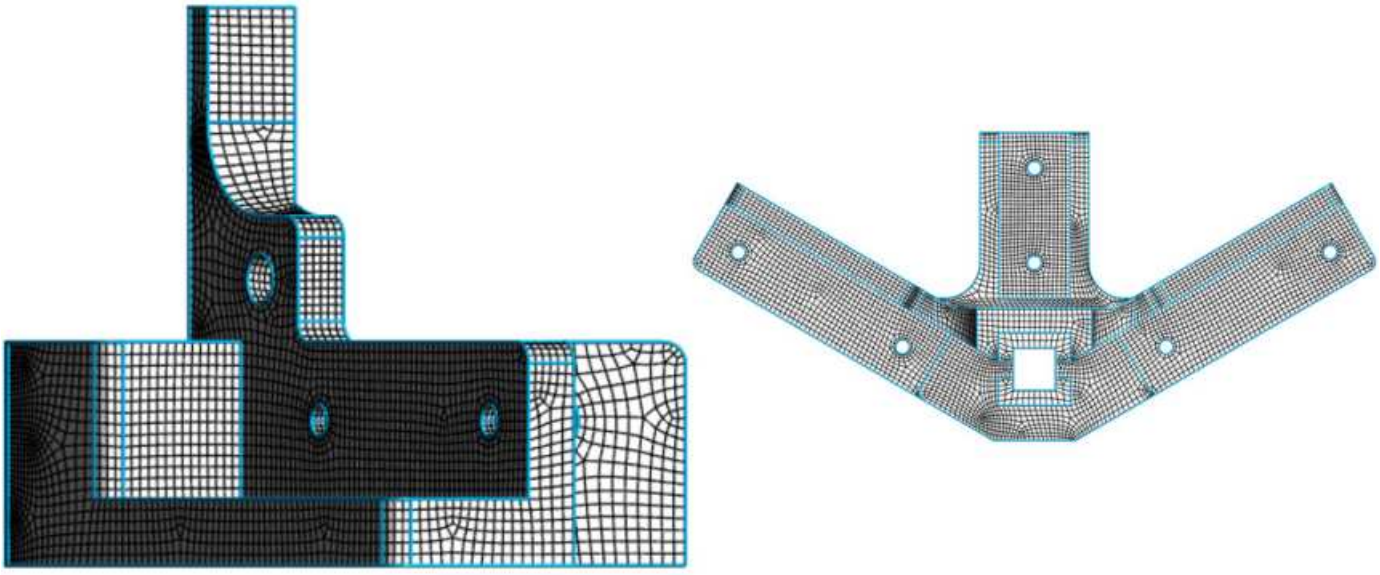
Model: 00004972 (from ABC dataset)
CAD: 200 corners, 304 curves, 103 faces
Cross field: 166 singularities detected
Timings: 16.4911 sec to generate the unstructured mesh, 13.2795 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25524	29466	1287	210
Quasi-structured	26190	30132	496	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.108769	0.92368	2.1438	0.0552592	0.937027	0.974953
Quasi-structured	0.0881932	0.912796	2.72809	0.173009	0.95362	0.982305



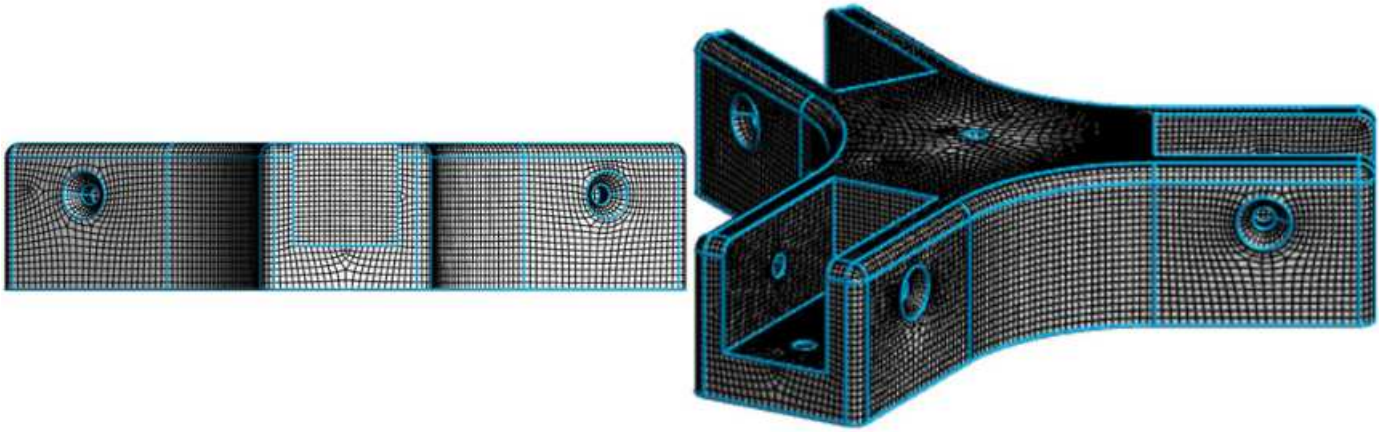


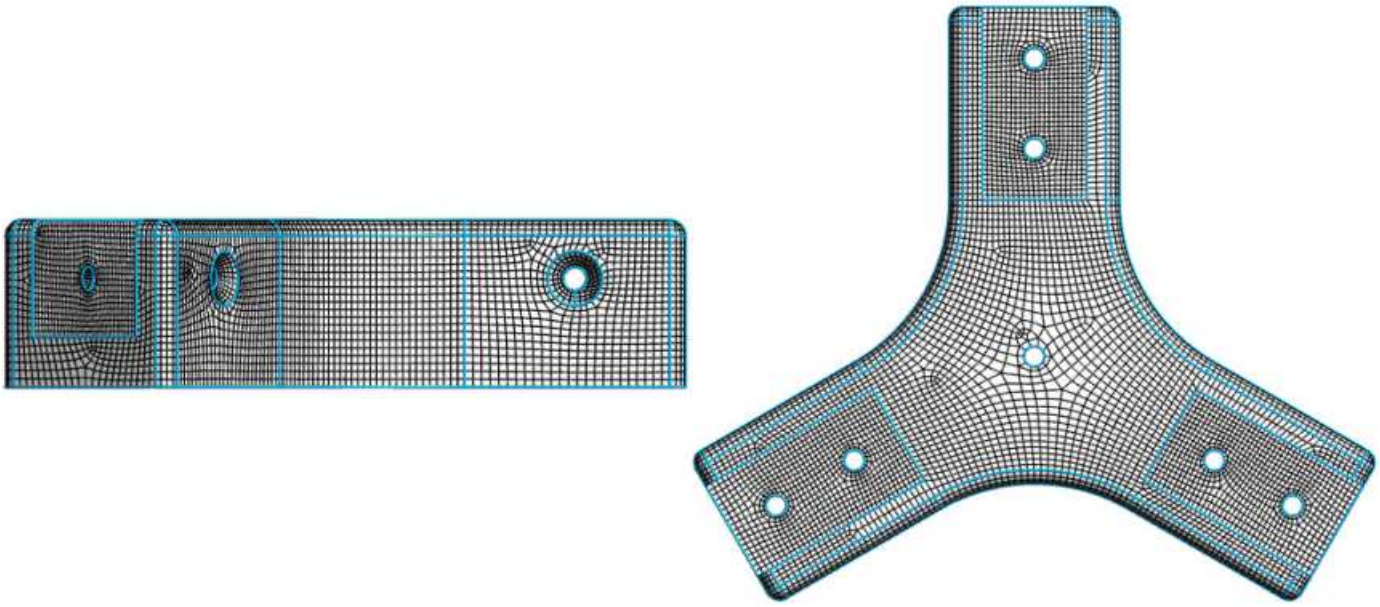
Model: 00004977 (from ABC dataset)
CAD: 127 corners, 212 curves, 81 faces
Cross field: 132 singularities detected
Timings: 12.9886 sec to generate the unstructured mesh, 3.21262 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24324	27591	783	199
Quasi-structured	24707	27974	254	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.191042	0.843552	2.28388	0.381016	0.958797	0.989205
Quasi-structured	0.214862	0.838654	2.59555	0.565861	0.973889	0.991203



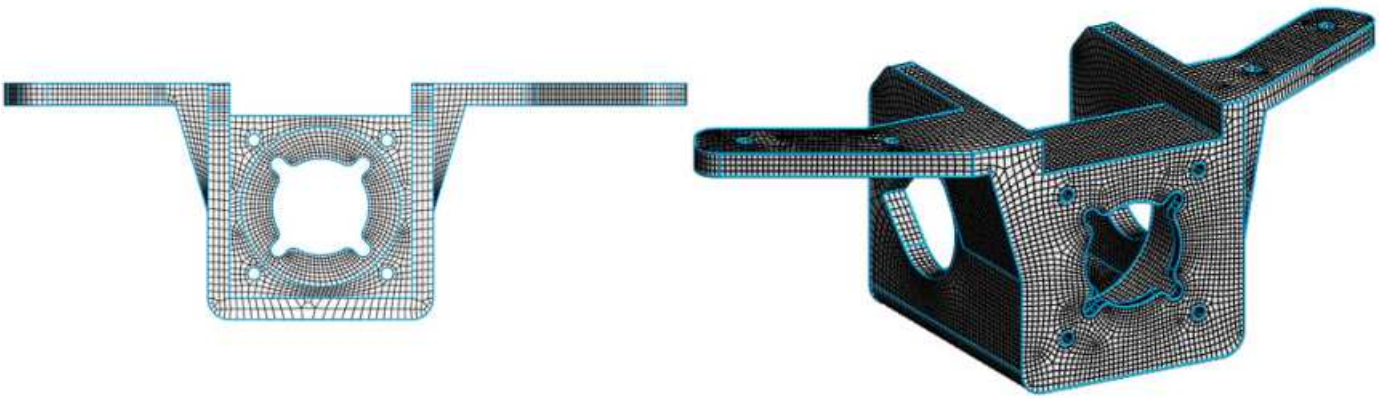


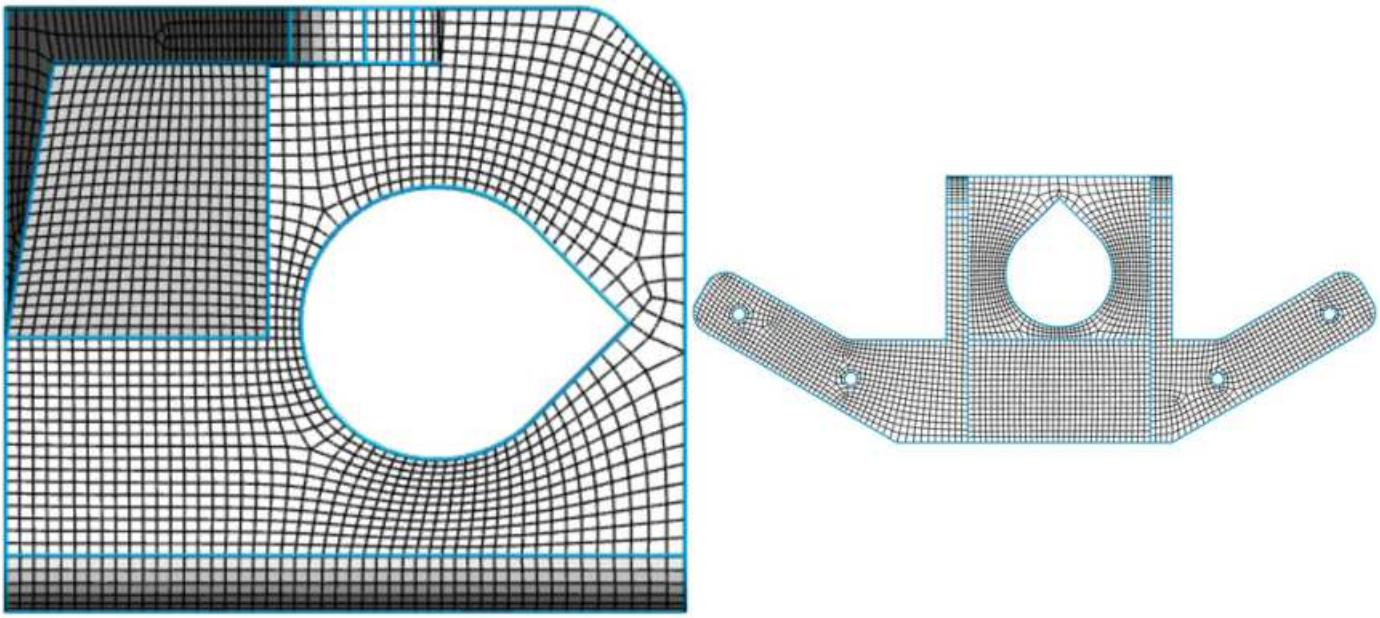
Model: 00004984 (from ABC dataset)
CAD: 155 corners, 233 curves, 81 faces
Cross field: 144 singularities detected
Timings: 15.6285 sec to generate the unstructured mesh, 5.42973 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18990	21831	658	145
Quasi-structured	20224	23065	268	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.245491	1.19692	2.98036	0.0427052	0.954086	0.986142
Quasi-structured	0.148488	1.15902	3.9341	0.278414	0.963716	0.986603



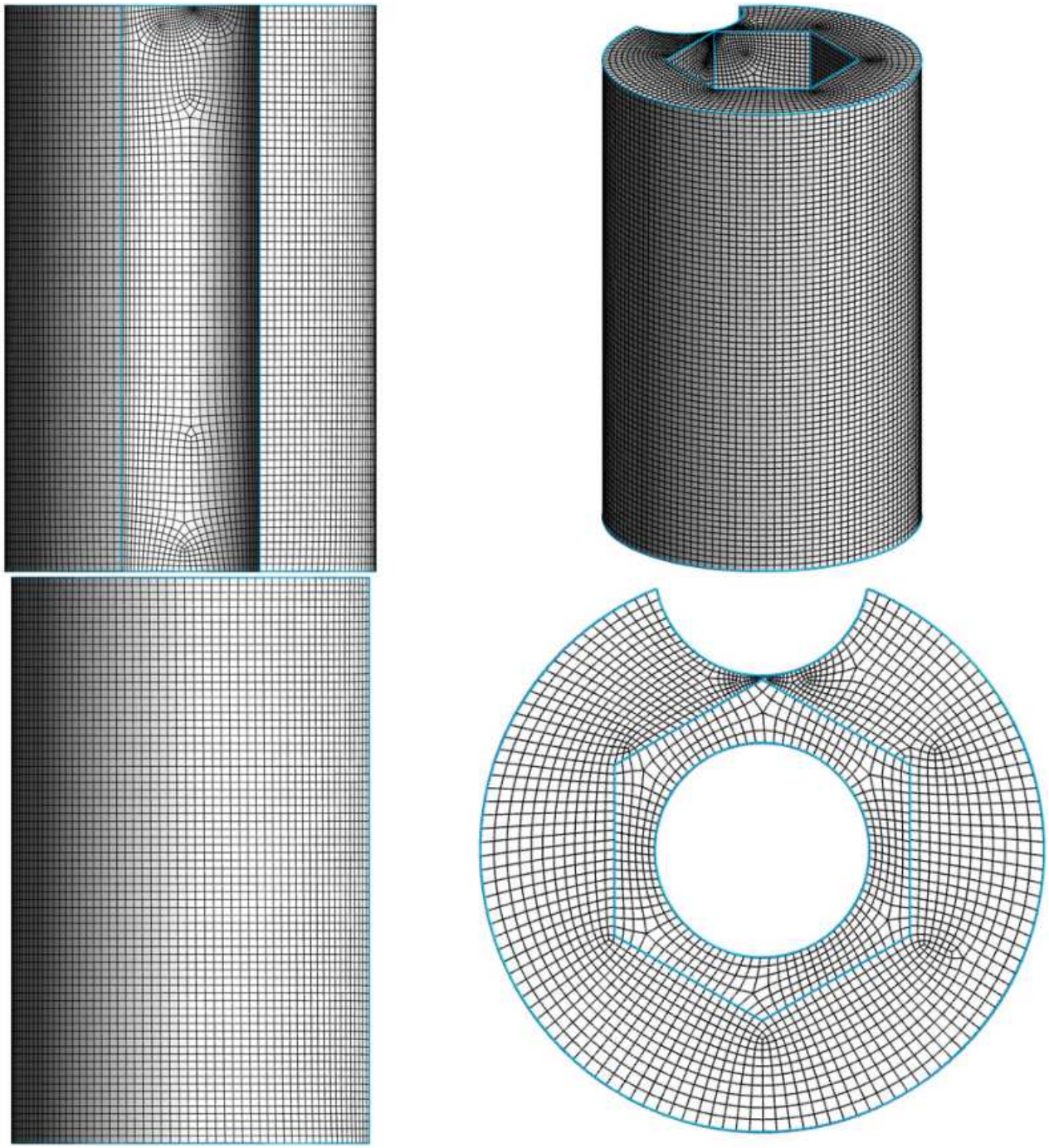


Model: 00005017 (from ABC dataset)
CAD: 18 corners, 27 curves, 12 faces
Cross field: 15 singularities detected
Timings: 18.6404 sec to generate the unstructured mesh, 4.45197 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25088	26082	241	102
Quasi-structured	25222	26216	70	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0194074	0.184796	0.327245	0.455146	0.982968	0.993033
Quasi-structured	0.0239539	0.184186	0.423616	0.559566	0.9888	0.994812

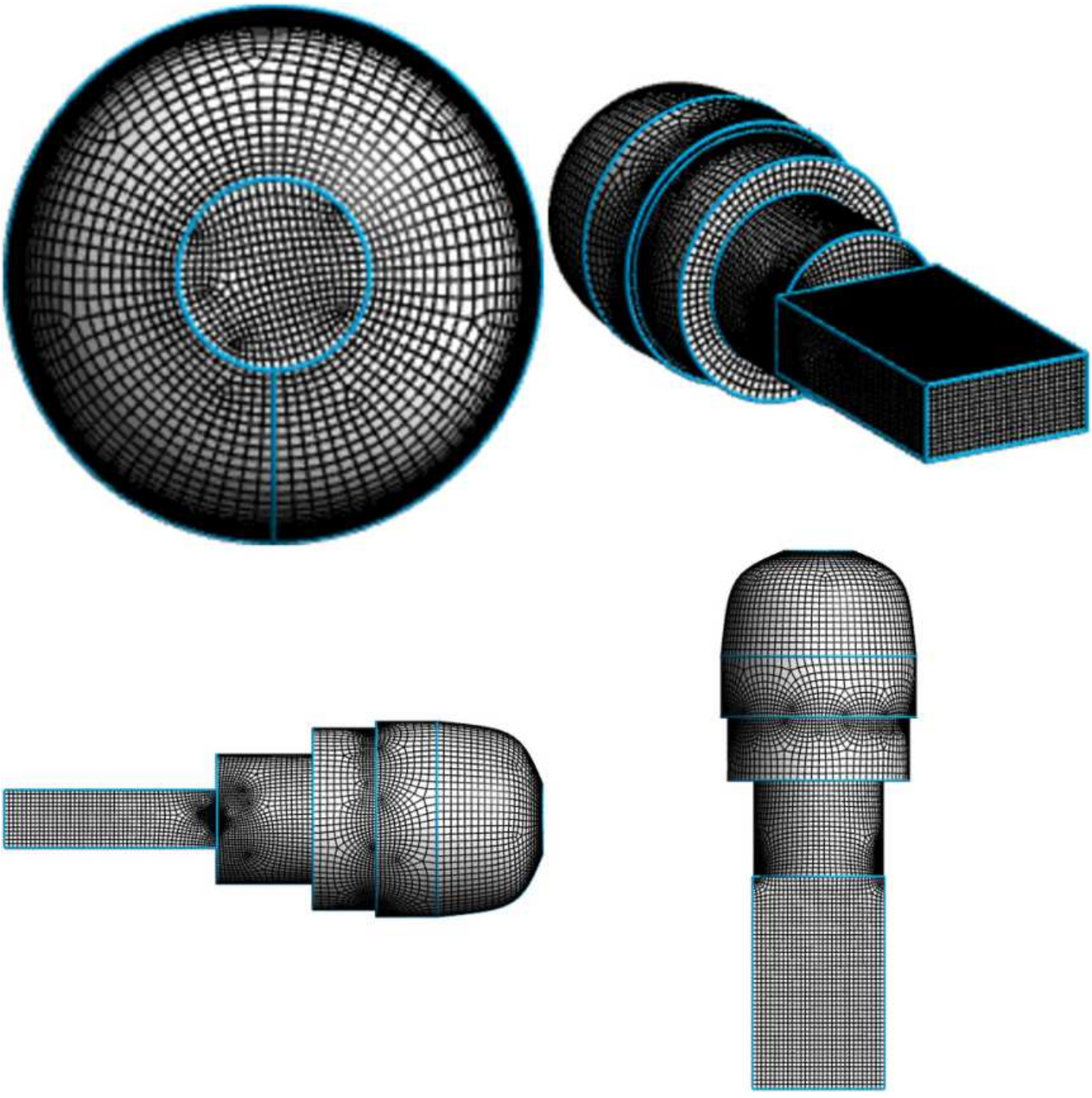


Model: 00005019 (from ABC dataset)
CAD: 19 corners, 31 curves, 16 faces
Cross field: 8 singularities detected
Timings: 5.26799 sec to generate the unstructured mesh, 7.0191 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14990	16298	520	87
Quasi-structured	14959	16267	136	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0208925	0.272006	0.582585	0.380466	0.950873	0.991599
Quasi-structured	0.0221123	0.271806	0.935829	0.695438	0.97723	0.991794



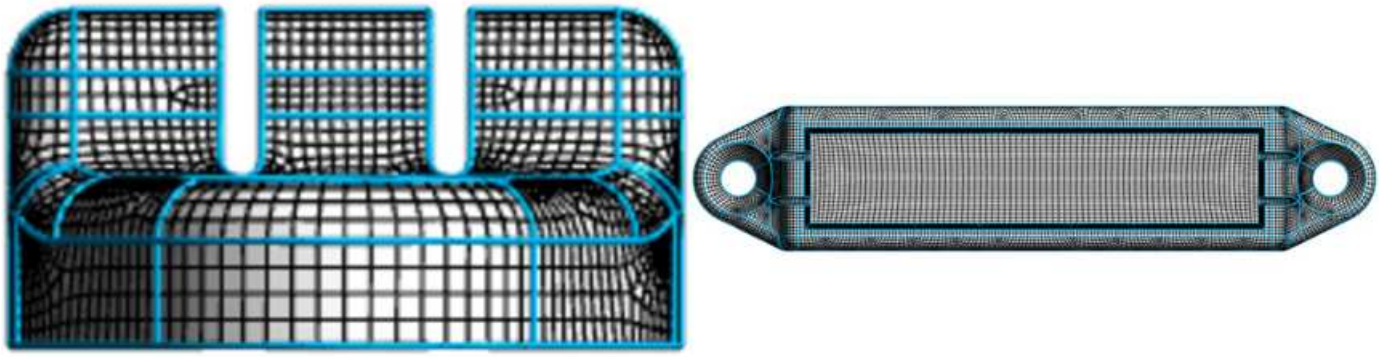
Model: 00005020 (from ABC dataset)
CAD: 140 corners, 242 curves, 94 faces
Cross field: 50 singularities detected
Timings: 9.21332 sec to generate the unstructured mesh, 19.6092 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15888	18840	991	47
Quasi-structured	18613	21565	250	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0308556	0.46682	1.08176	0.0194047	0.934189	0.981534
Quasi-structured	0.0299308	0.442268	1.34197	0.173981	0.905927	0.938918



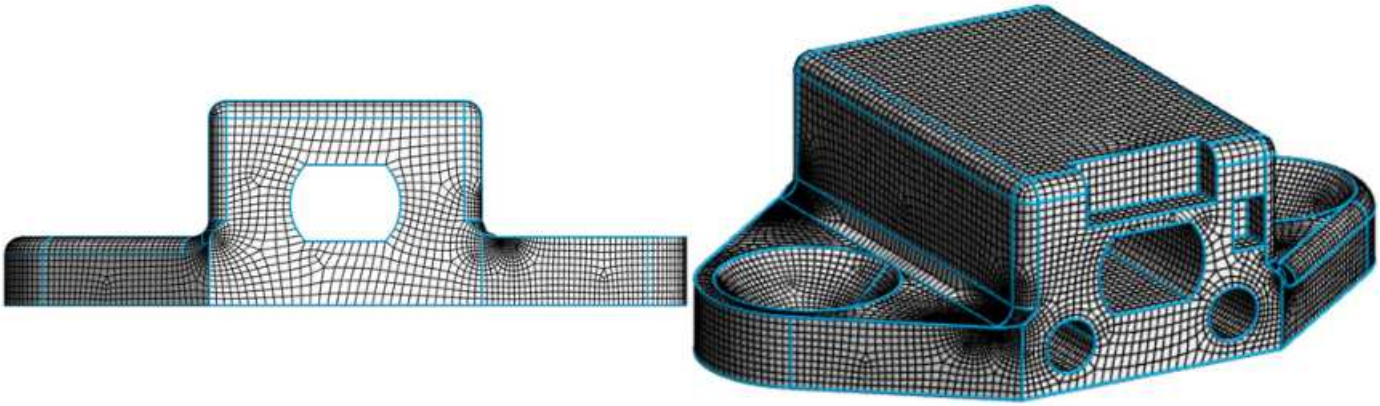


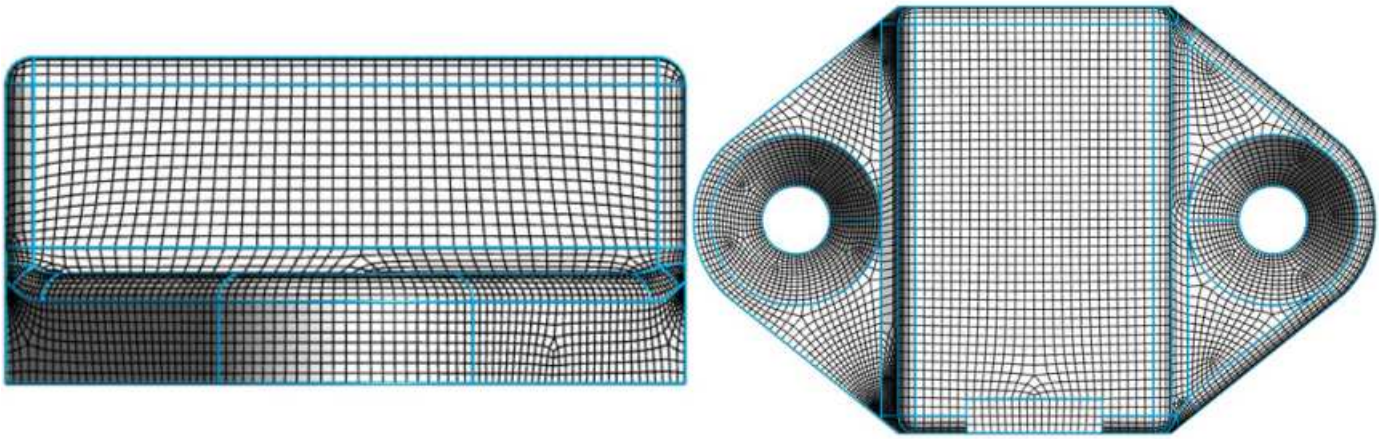
Model: 00005021 (from ABC dataset)
CAD: 89 corners, 153 curves, 62 faces
Cross field: 47 singularities detected
Timings: 14.3006 sec to generate the unstructured mesh, 15.4364 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20074	22447	681	112
Quasi-structured	20284	22657	196	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0260091	0.387937	0.843871	0.00031467	0.945953	0.979308
Quasi-structured	0.0099233	0.382087	1.06133	0.0380951	0.960364	0.984282



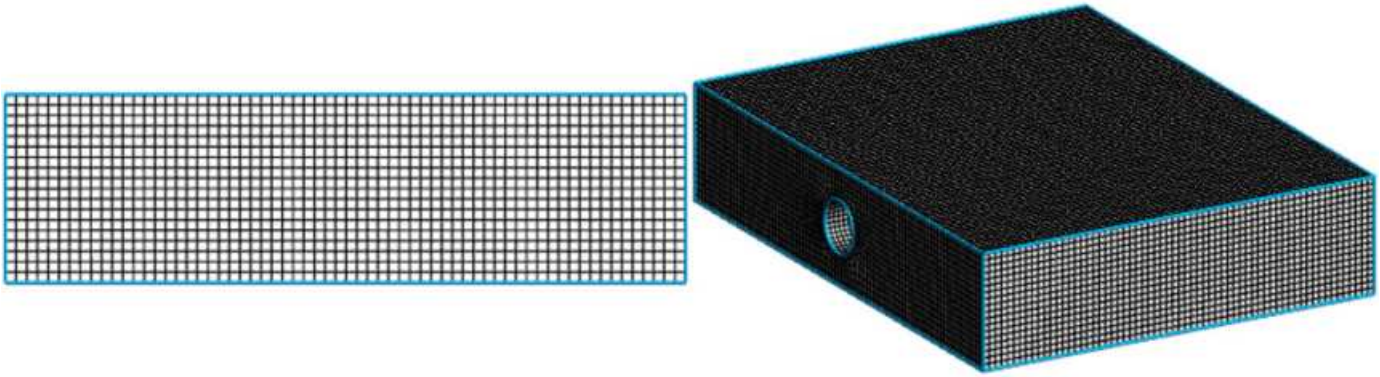


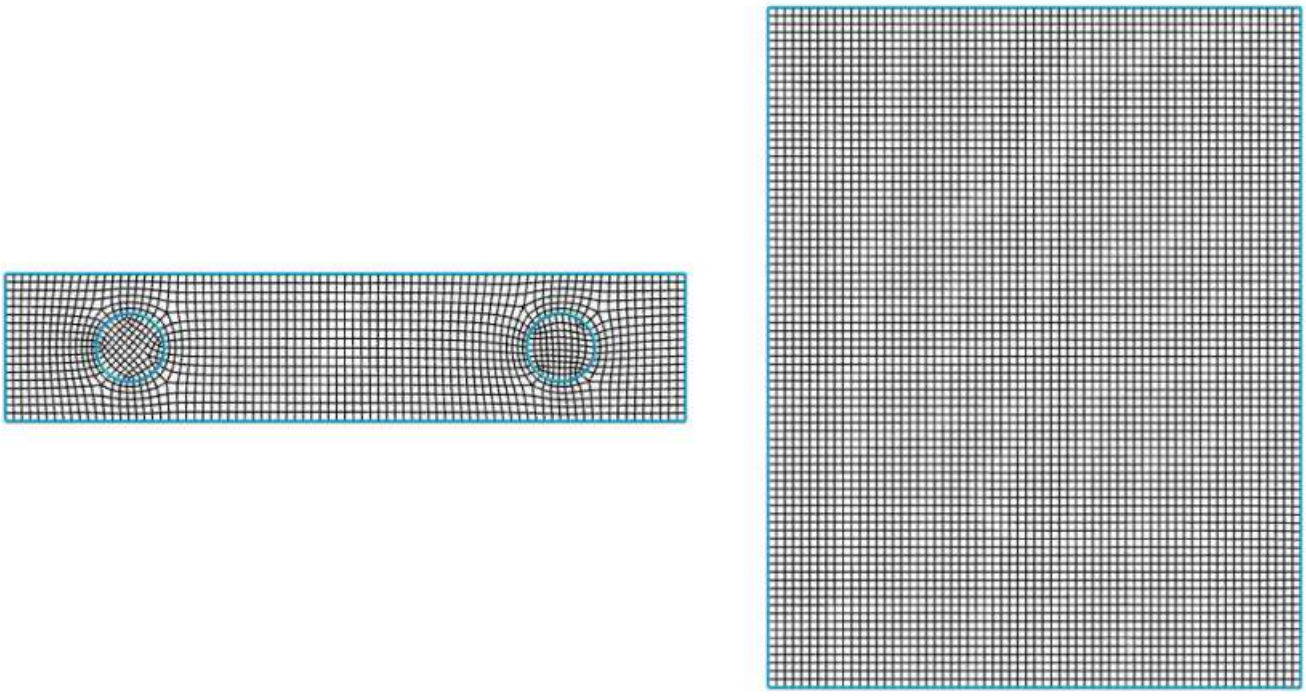
Model: 00005044 (from ABC dataset)
CAD: 14 corners, 21 curves, 12 faces
Cross field: 24 singularities detected
Timings: 8.77738 sec to generate the unstructured mesh, 0.940538 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20466	21332	86	131
Quasi-structured	20498	21364	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.210857	0.689482	1.07915	0.175913	0.994911	0.999923
Quasi-structured	0.249663	0.688547	1.27835	0.686025	0.997403	0.999929



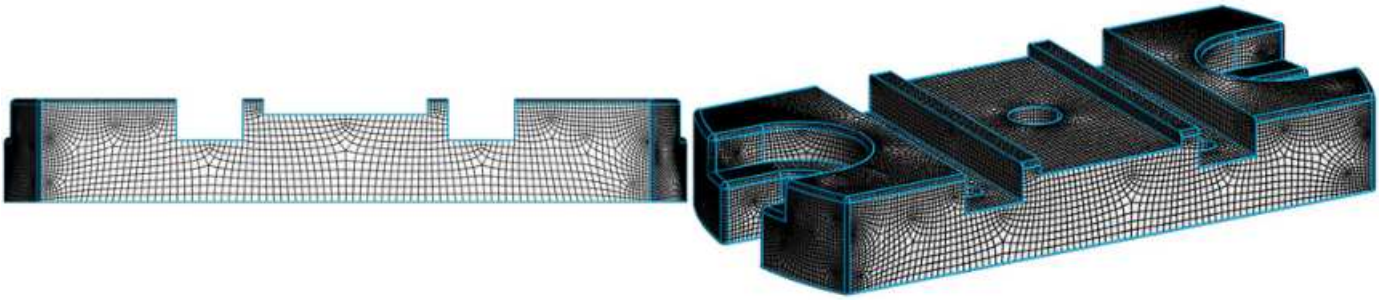


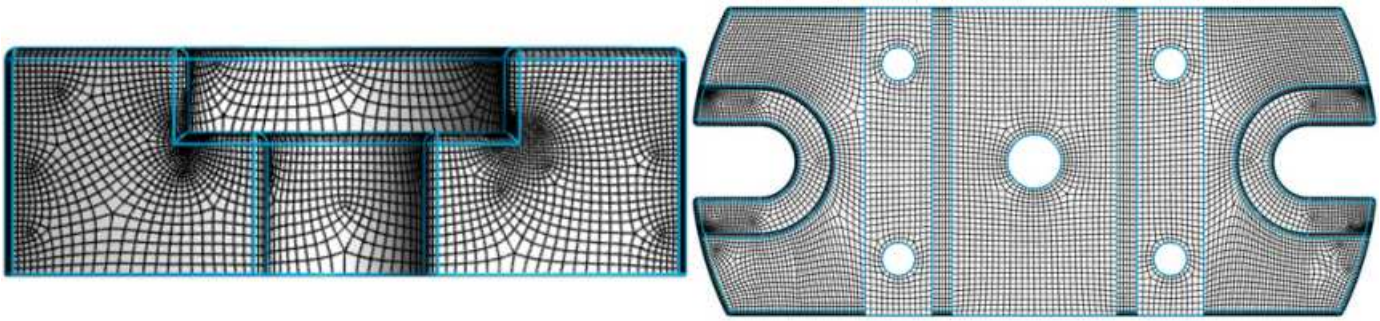
Model: 00005045 (from ABC dataset)
CAD: 141 corners, 247 curves, 97 faces
Cross field: 84 singularities detected
Timings: 10.8439 sec to generate the unstructured mesh, 8.43116 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32406	36824	1524	152
Quasi-structured	33193	37611	440	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00503831	0.829198	2.78293	0.0669731	0.924874	0.967472
Quasi-structured	0.0524042	0.821388	3.76903	0.393393	0.948131	0.973971



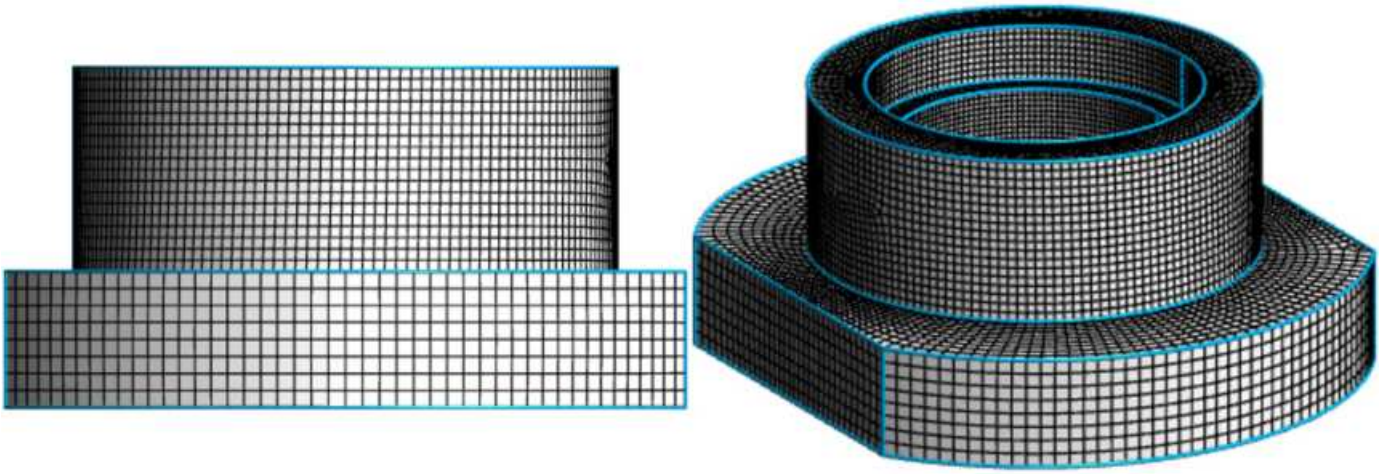


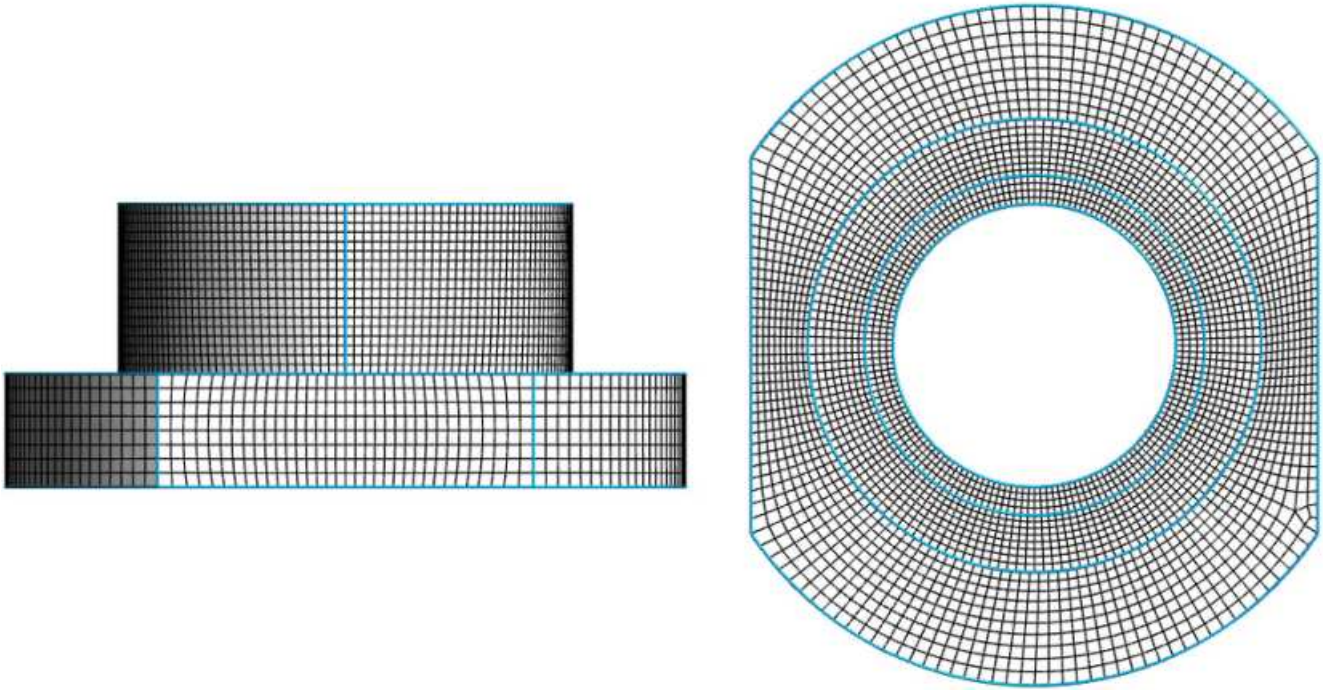
Model: 00005057 (from ABC dataset)
CAD: 14 corners, 21 curves, 11 faces
Cross field: 0 singularities detected
Timings: 8.90789 sec to generate the unstructured mesh, 1.25084 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17898	19192	92	69
Quasi-structured	18212	19506	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.242345	0.712918	1.70493	0.518732	0.987234	0.999192
Quasi-structured	0.456208	0.706927	1.92107	0.721974	0.99341	0.999269



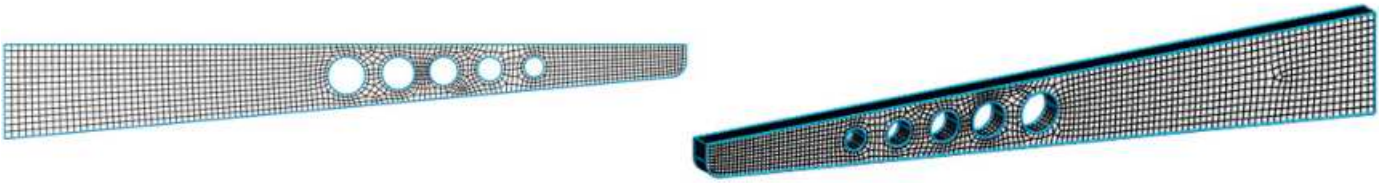


Model: 00005062 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 42 singularities detected
Timings: 3.46808 sec to generate the unstructured mesh, 1.3064 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5016	5827	168	37
Quasi-structured	5187	5998	60	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.790174	2.94047	5.66242	0.272362	0.93012	0.962202
Quasi-structured	0.947017	2.88792	6.33965	0.569807	0.942051	0.977727



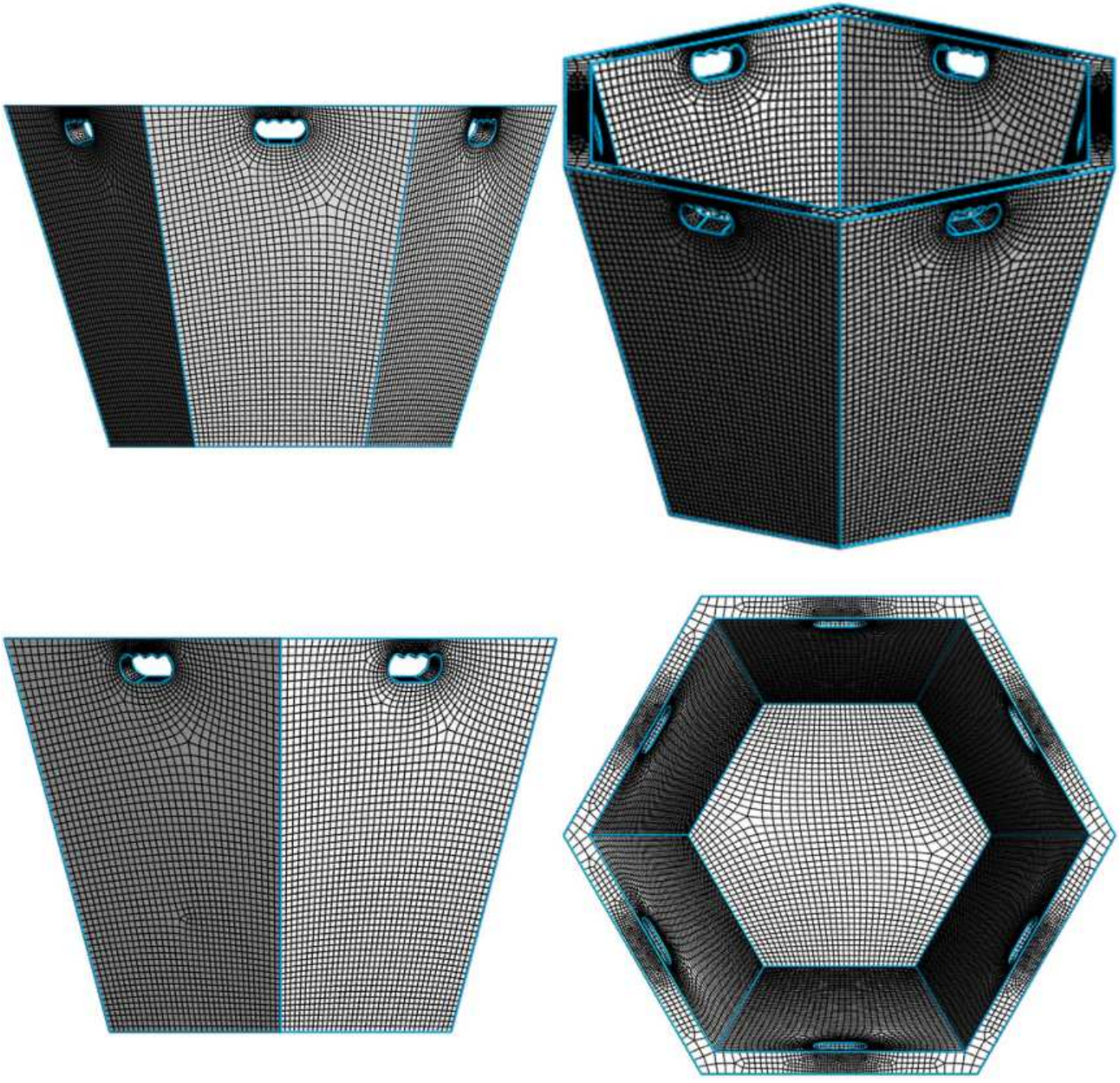


Model: 00005064 (from ABC dataset)
CAD: 144 corners, 216 curves, 75 faces
Cross field: 126 singularities detected
Timings: 19.9218 sec to generate the unstructured mesh, 9.98793 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	44640	48792	1550	78
Quasi-structured	44166	48318	420	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.520501	15.4581	44.9566	0.140102	0.951036	0.990426
Quasi-structured	0.555698	15.2058	54.1572	0.449367	0.970594	0.989332

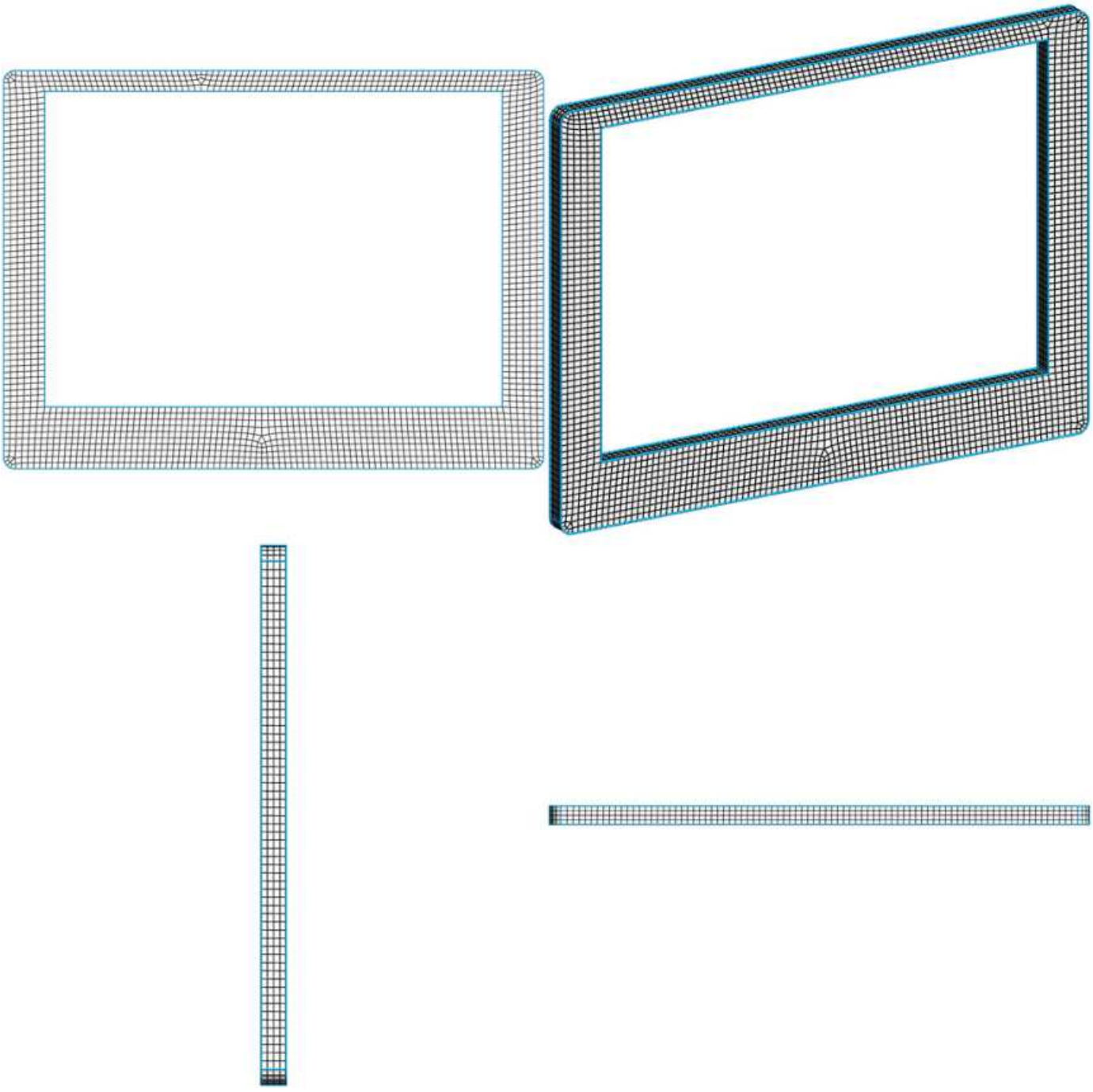


Model: 00005068 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 8 singularities detected
Timings: 2.71442 sec to generate the unstructured mesh, 0.470657 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6034	7234	36	0
Quasi-structured	6056	7256	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.22387	2.55283	4.07795	0.382667	0.964672	0.964689
Quasi-structured	1.19839	2.53854	3.91828	0.735027	0.975101	0.971066

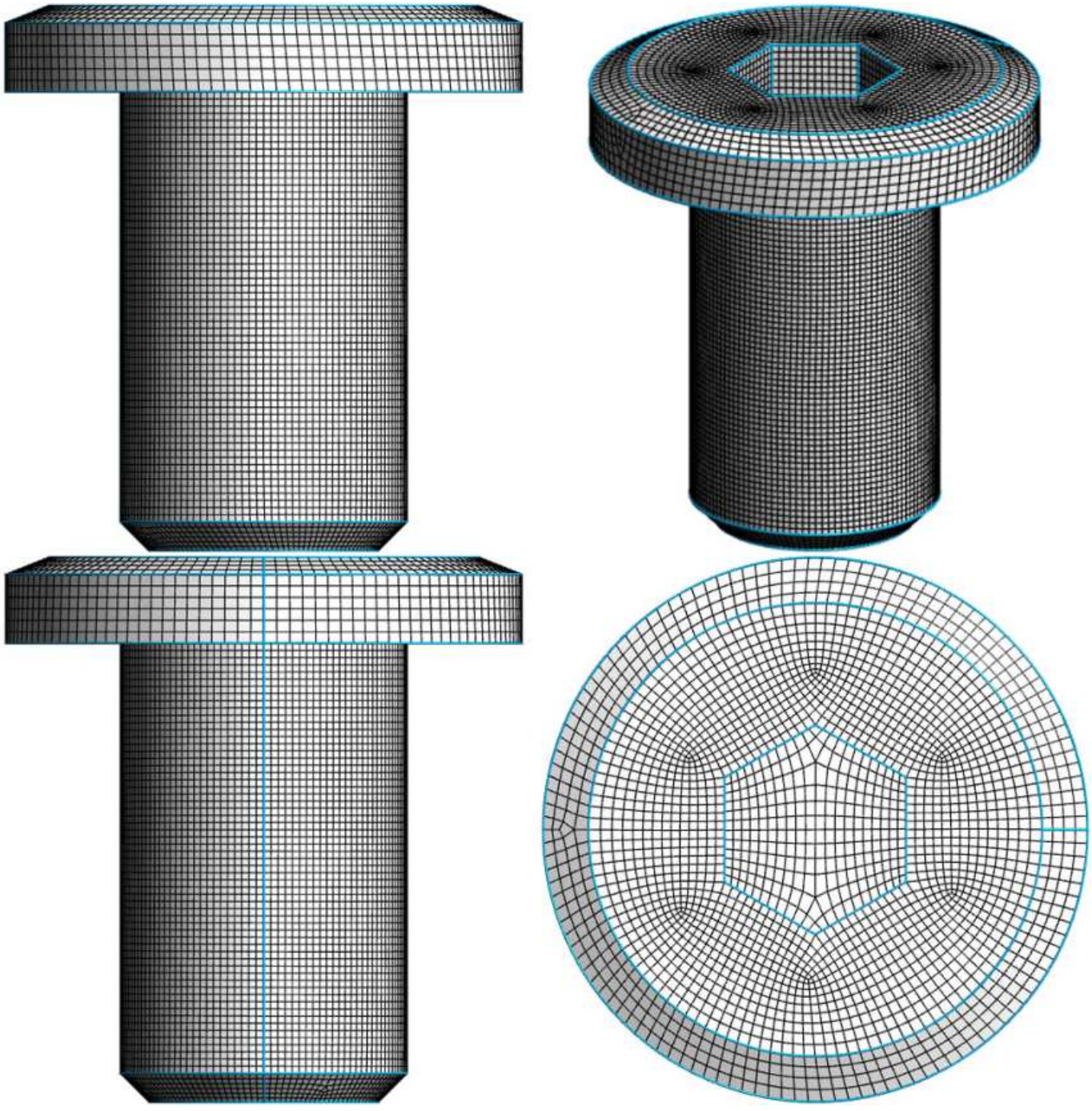


Model: 00005080 (from ABC dataset)
CAD: 18 corners, 28 curves, 14 faces
Cross field: 12 singularities detected
Timings: 7.64821 sec to generate the unstructured mesh, 0.986709 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15966	16986	96	75
Quasi-structured	15978	16998	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0309404	0.136713	0.295669	0.593042	0.985454	0.997955
Quasi-structured	0.0332399	0.136422	0.377943	0.766751	0.995285	0.999126

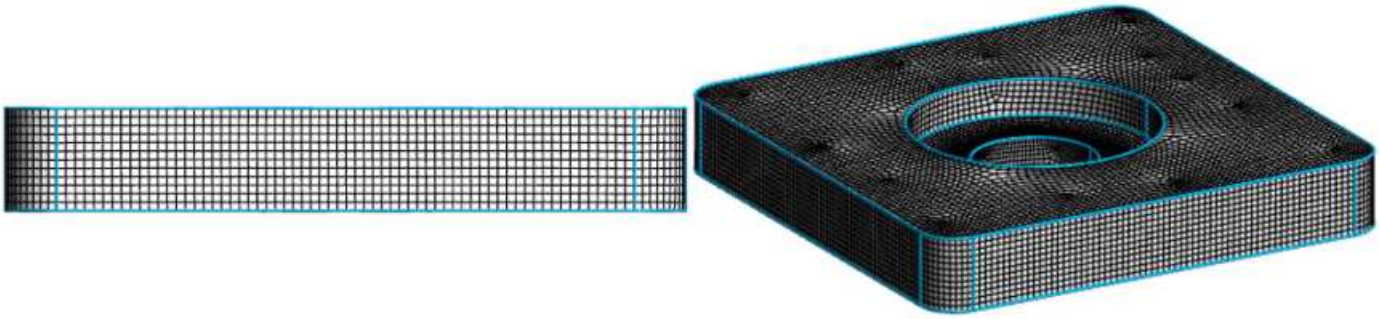


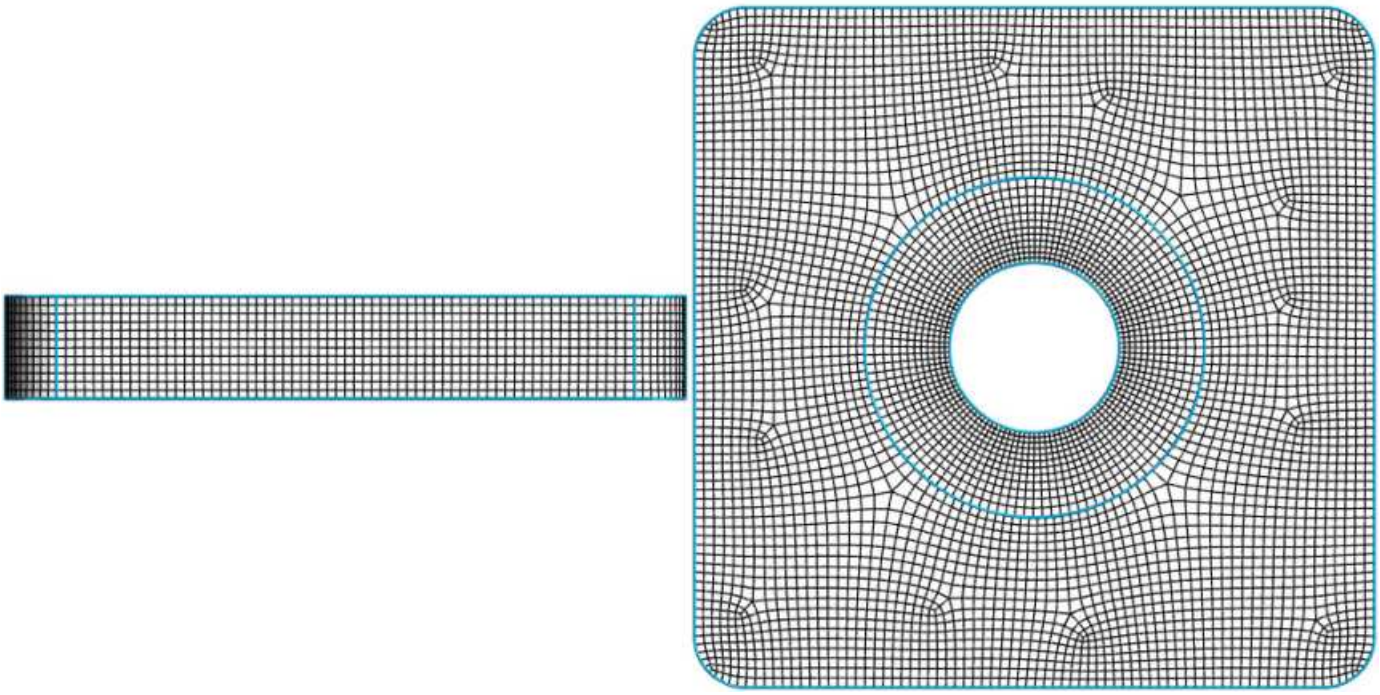
Model: 00005082 (from ABC dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 16 singularities detected
Timings: 8.5847 sec to generate the unstructured mesh, 1.84643 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16448	17576	210	15
Quasi-structured	16980	18108	56	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.072383	0.251951	0.496176	0.487797	0.984283	0.997313
Quasi-structured	0.0662789	0.247612	0.599298	0.796789	0.991061	0.99721



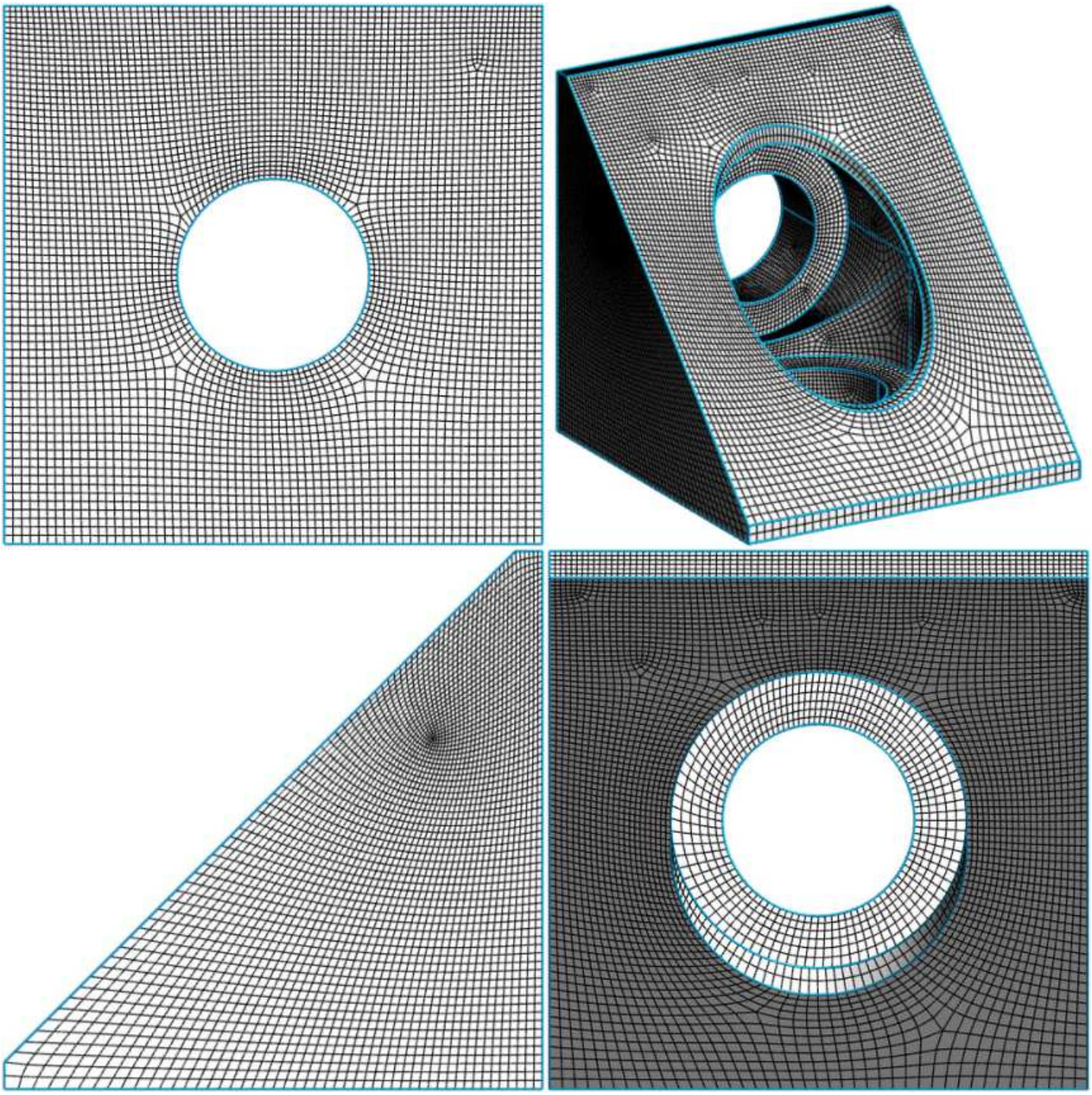


Model: 00005084 (from ABC dataset)
CAD: 21 corners, 33 curves, 15 faces
Cross field: 16 singularities detected
Timings: 17.9245 sec to generate the unstructured mesh, 6.07779 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21972	23662	444	69
Quasi-structured	26265	27955	68	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0809592	0.300629	0.803358	0.50432	0.974452	0.995248
Quasi-structured	0.0516357	0.277293	1.10806	0.56904	0.941482	0.984778

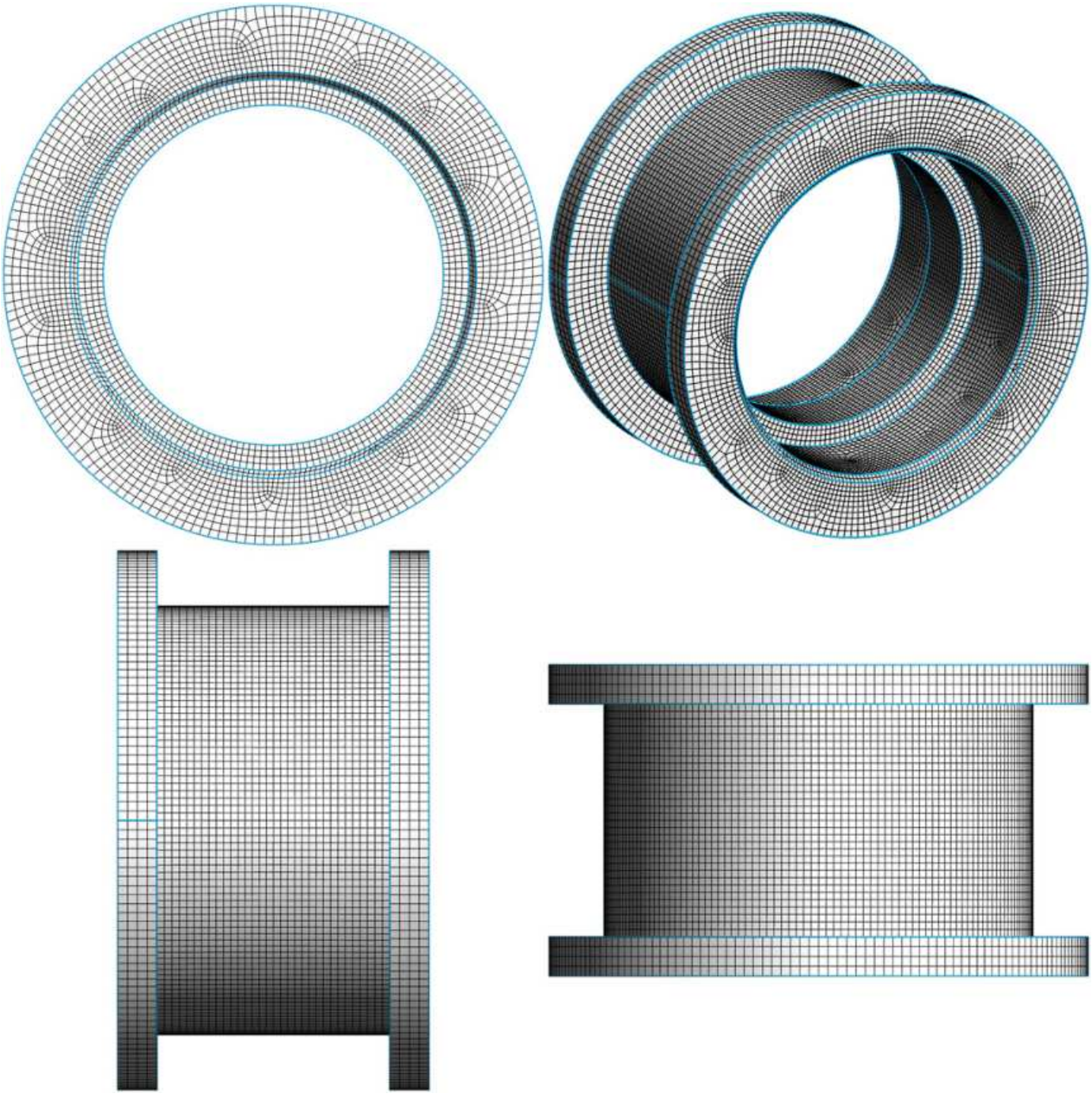


Model: 00005086 (from ABC dataset)
CAD: 16 corners, 24 curves, 14 faces
Cross field: 0 singularities detected
Timings: 17.6333 sec to generate the unstructured mesh, 22.7624 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26022	28790	321	103
Quasi-structured	26020	28788	156	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0776508	0.279024	0.544514	0.459166	0.973422	0.997853
Quasi-structured	0.0969916	0.277527	0.712043	0.633892	0.99162	0.997663

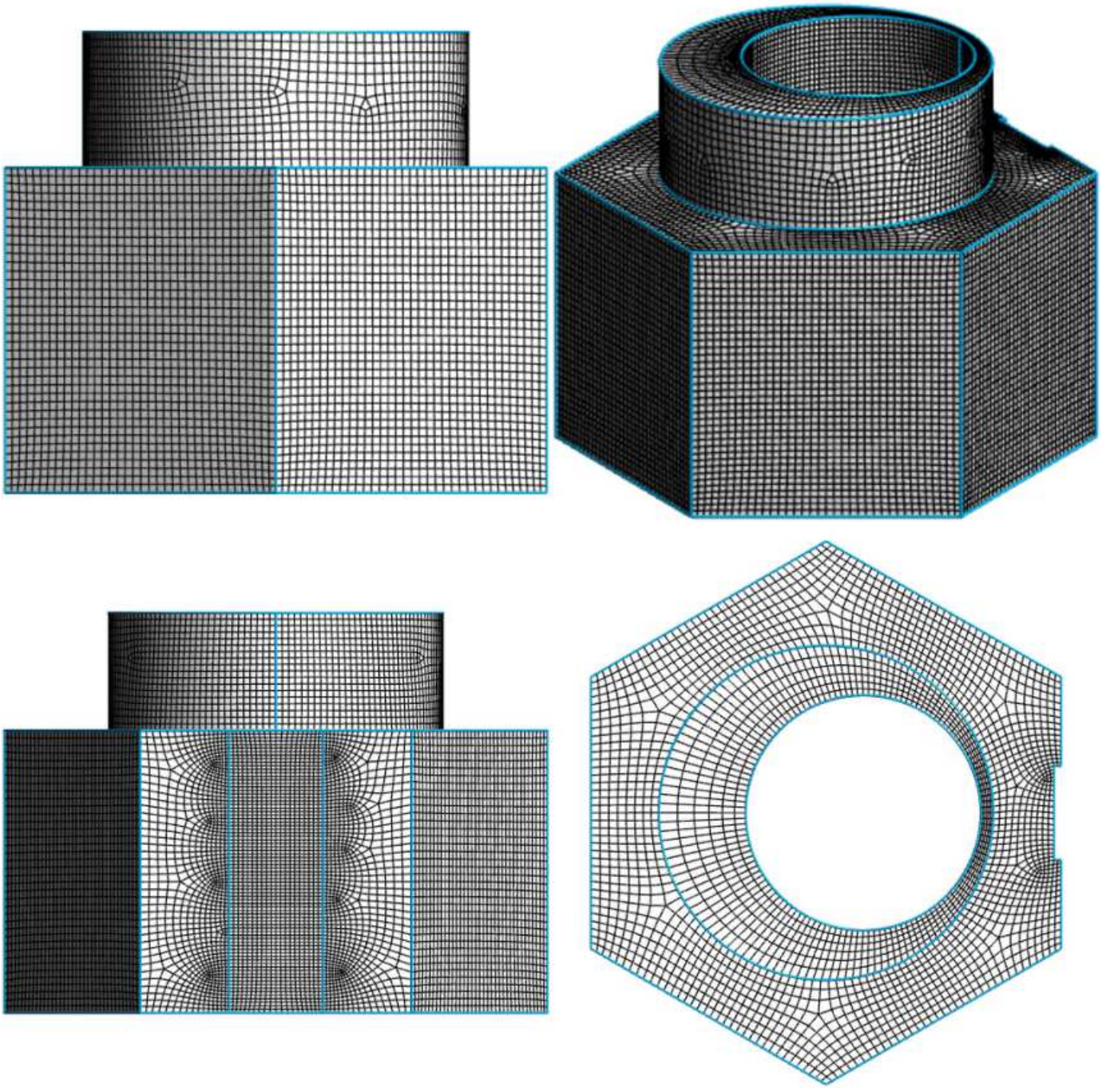


Model: 00005087 (from ABC dataset)
CAD: 24 corners, 36 curves, 15 faces
Cross field: 12 singularities detected
Timings: 16.5447 sec to generate the unstructured mesh, 7.61506 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24948	26494	357	94
Quasi-structured	24664	26210	78	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0323941	0.143593	0.279622	0.391437	0.977965	0.996796
Quasi-structured	0.0355685	0.143955	0.394075	0.552389	0.982825	0.997677

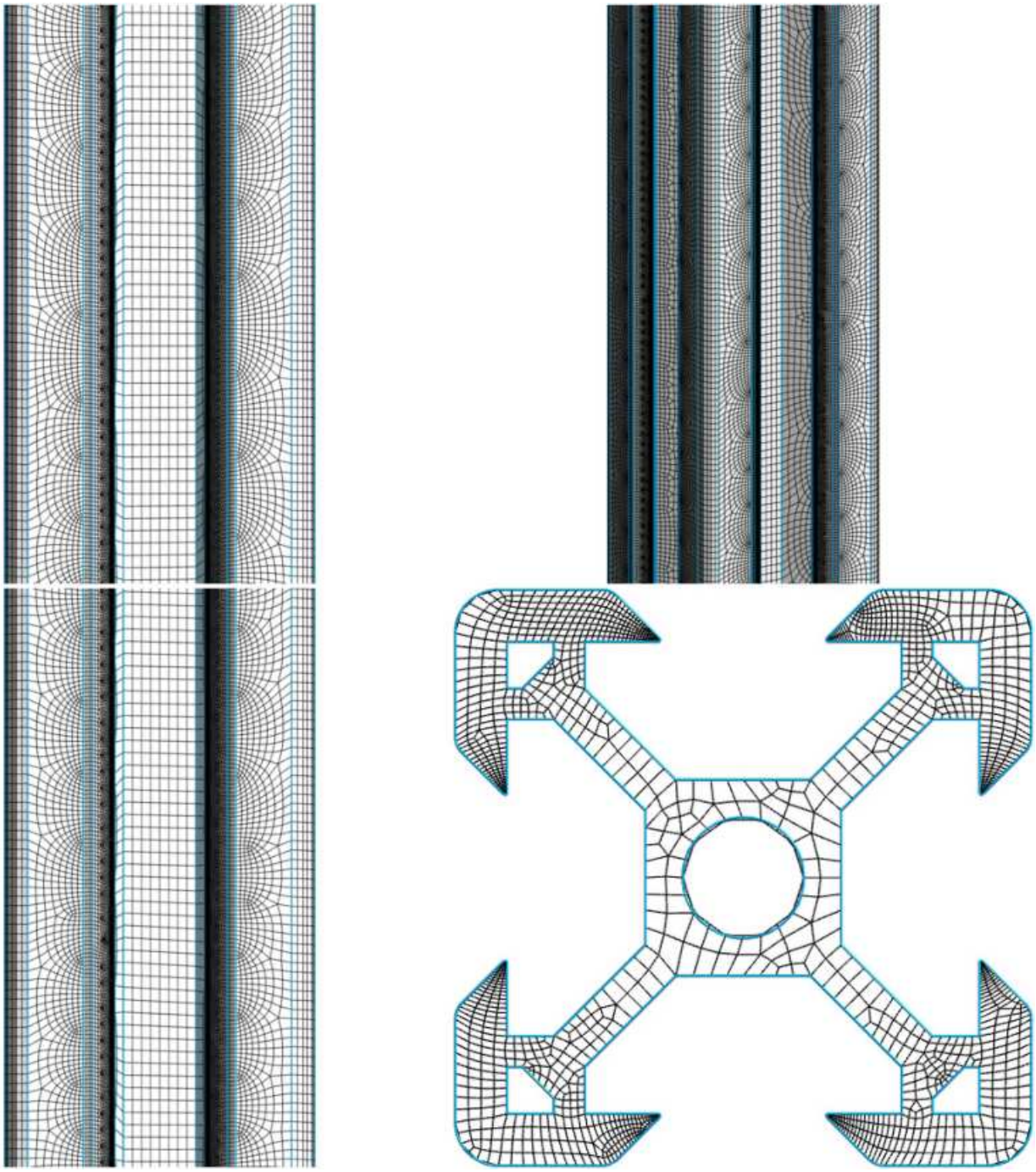


Model: 00005088 (from ABC dataset)
CAD: 170 corners, 255 curves, 87 faces
Cross field: 30 singularities detected
Timings: 32.2526 sec to generate the unstructured mesh, 16198.7 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	630998	700432	34823	3739
Quasi-structured	638087	707521	30567	3

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0151653	0.159296	1.13548	0.291707	0.92473	0.980895
Quasi-structured	0.0106457	0.157884	1.26608	0.155494	0.959382	0.991794

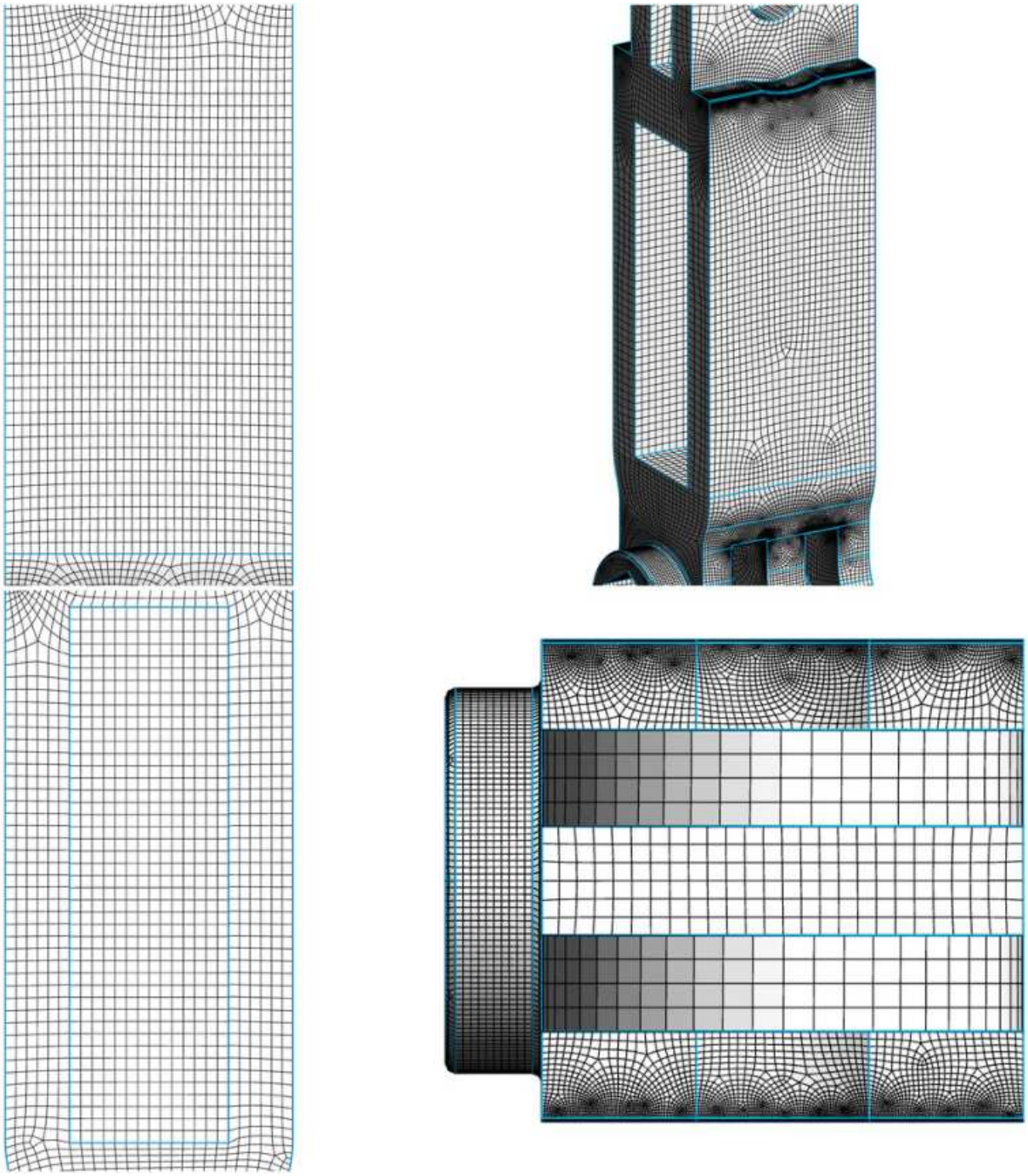


Model: 00005096 (from ABC dataset)
CAD: 137 corners, 209 curves, 78 faces
Cross field: 34 singularities detected
Timings: 16.2984 sec to generate the unstructured mesh, 69.0221 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	59904	66206	2798	171
Quasi-structured	60029	66331	689	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00203558	0.24761	1.06144	0.00354075	0.872094	0.957419
Quasi-structured	0.00203558	0.249609	1.67154	0.0589363	0.891312	0.96402

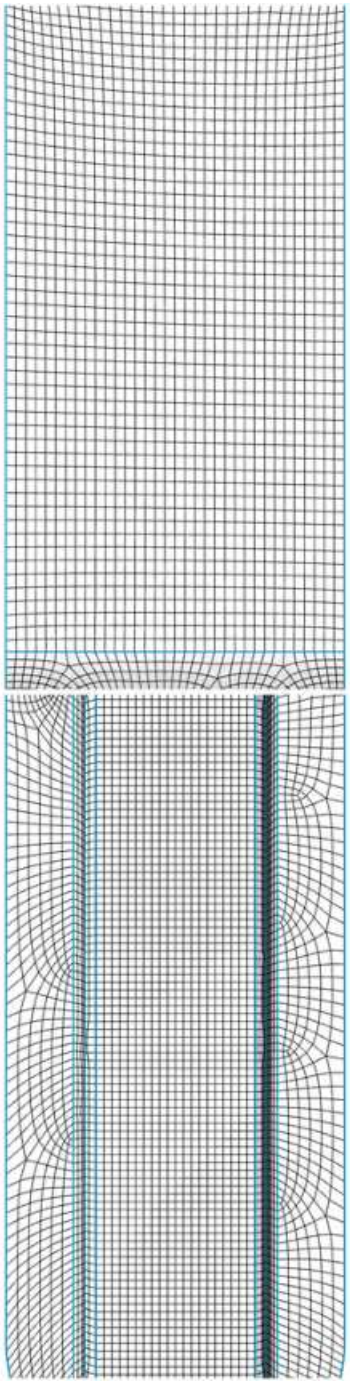


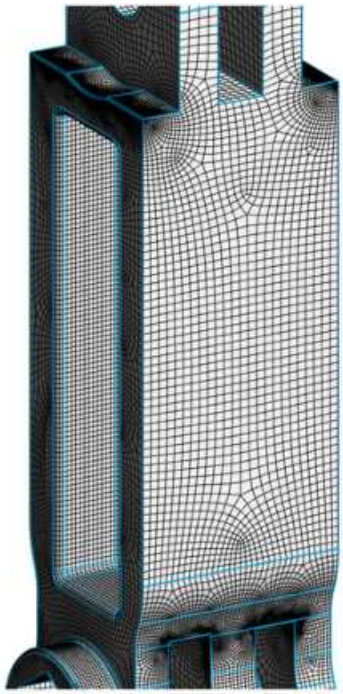
Model: 00005097 (from ABC dataset)
CAD: 165 corners, 269 curves, 106 faces
Cross field: 58 singularities detected
Timings: 11.7176 sec to generate the unstructured mesh, 64.9081 sec to make it quasi-structured
Mesh topology:

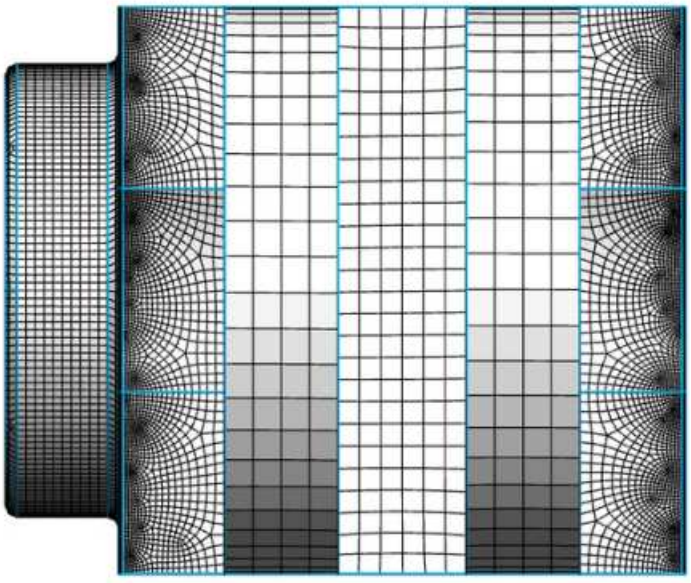
	# quads	# vertices	# irregular	# very irregular
Unstructured	69000	76932	2907	180
Quasi-structured	68831	76763	709	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00203558	0.245887	1.08078	0.0769613	0.880572	0.962575
Quasi-structured	0.00193861	0.247748	1.3833	0.110088	0.891642	0.963699





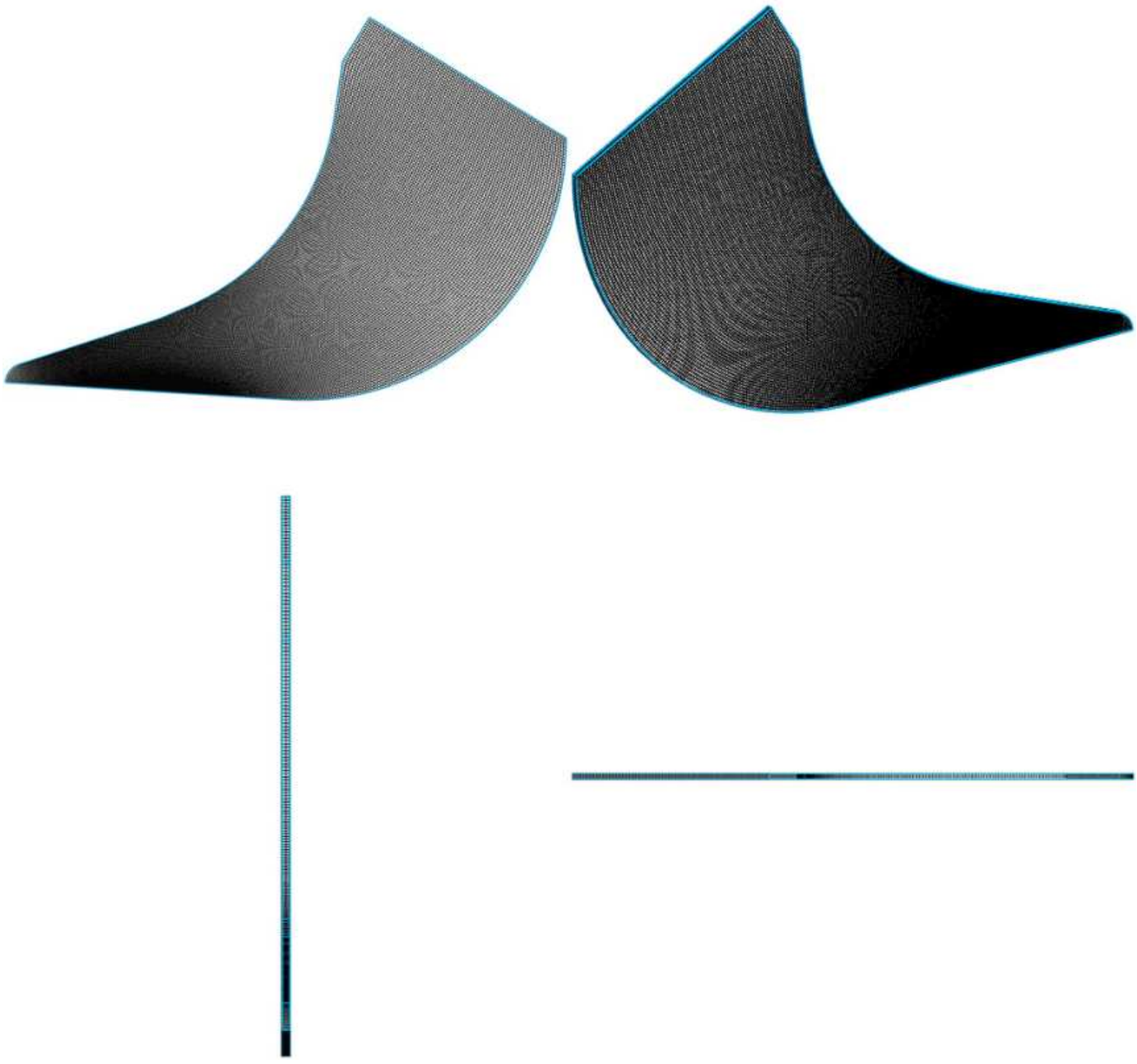


Model: 00005107 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 2 singularities detected
Timings: 5.1664 sec to generate the unstructured mesh, 45.5183 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13760	15025	605	33
Quasi-structured	43088	44353	6	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.617413	3.34378	13.6085	0.509644	0.944861	0.983656
Quasi-structured	0.180271	2.21951	4.02268	0.239819	0.778538	0.877481



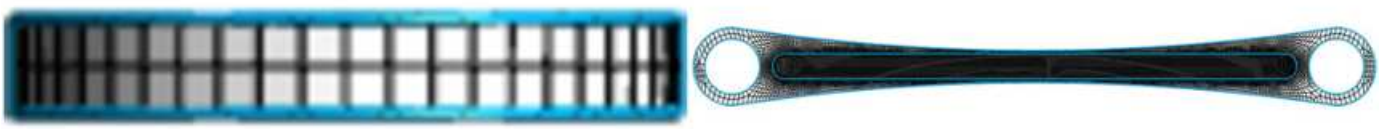
Model: 00005116 (from ABC dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 16 singularities detected
Timings: 4.26359 sec to generate the unstructured mesh, 86.532 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20904	24224	1093	72
Quasi-structured	22122	25442	486	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00813008	0.402487	3.76579	0.0154408	0.935334	0.985822
Quasi-structured	0.0850644	0.394082	2.54437	0.284343	0.954827	0.970579



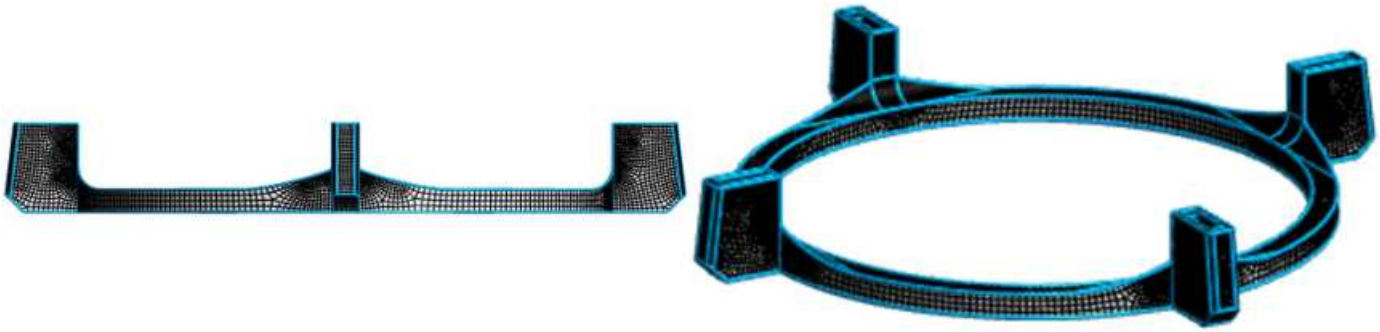


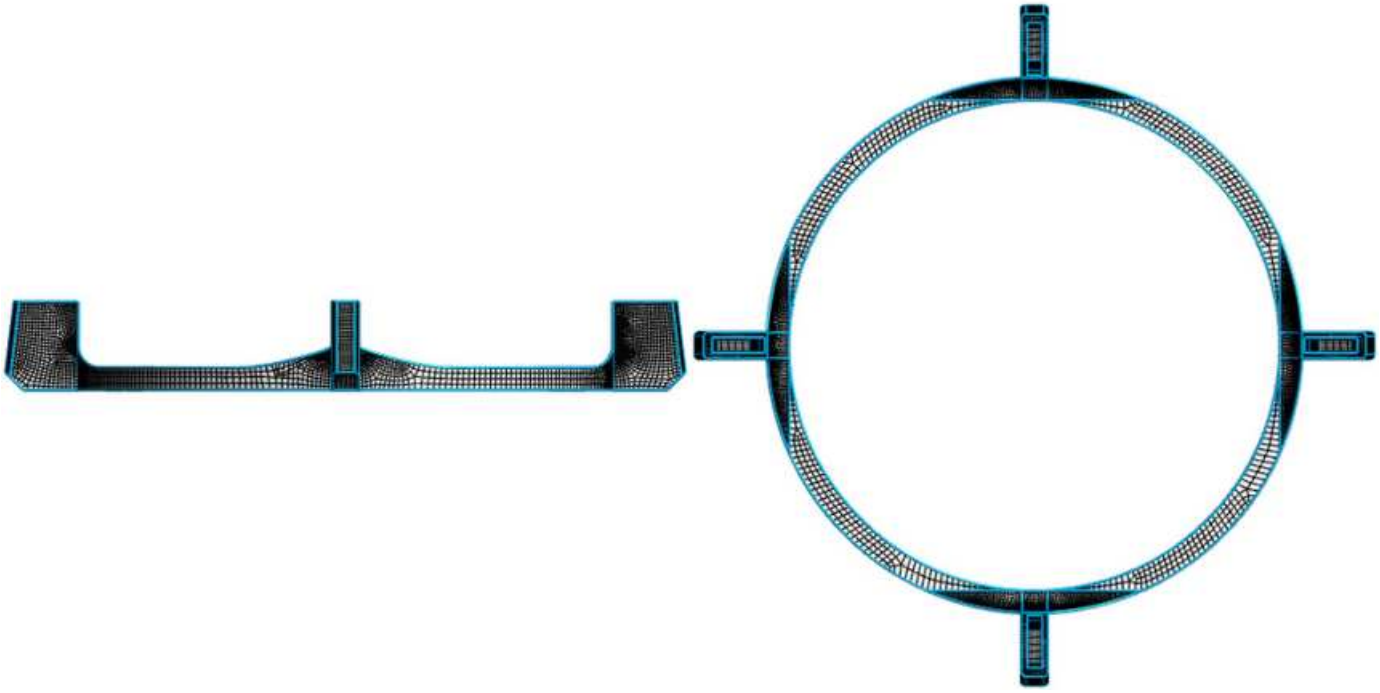
Model: 00005129 (from ABC dataset)
CAD: 138 corners, 215 curves, 82 faces
Cross field: 80 singularities detected
Timings: 6.41289 sec to generate the unstructured mesh, 17.8612 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24228	28234	1675	61
Quasi-structured	25141	29147	458	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0191891	0.658551	2.60985	0.00155039	0.904863	0.95458
Quasi-structured	0.0179671	0.649615	2.7898	0.0580369	0.921303	0.965685



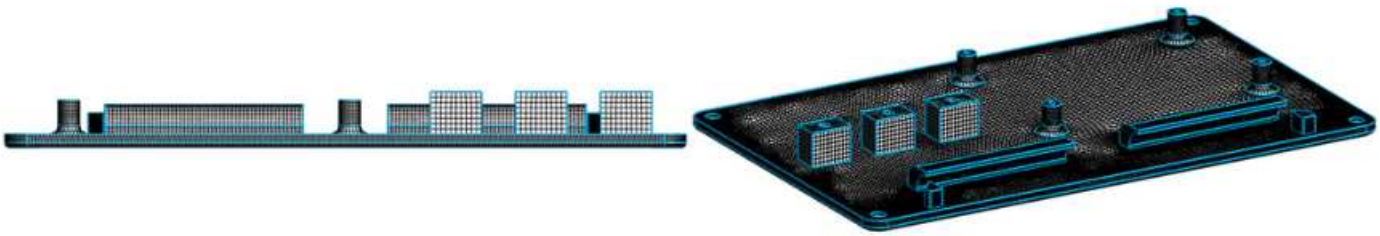


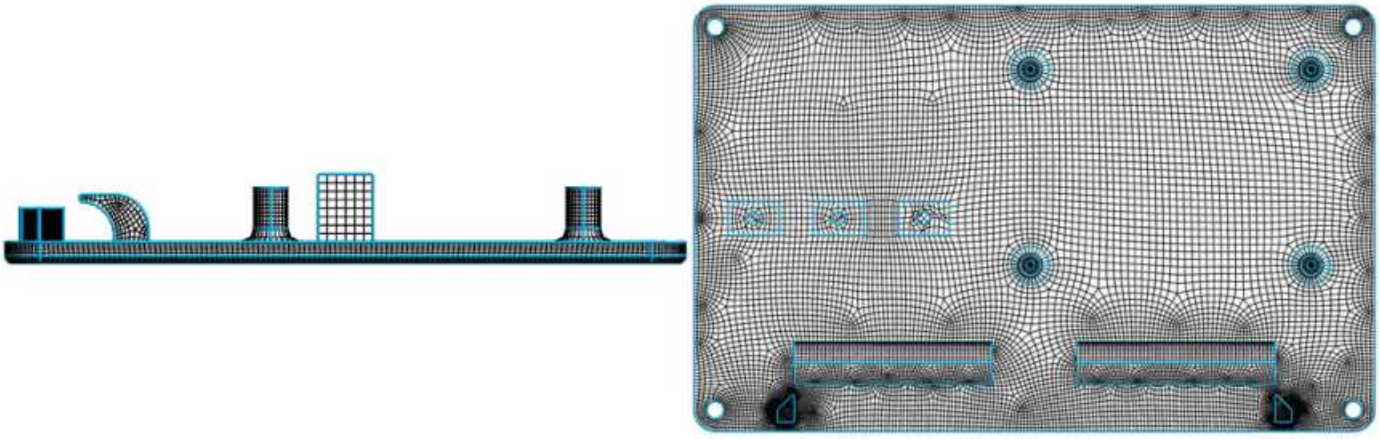
Model: 00005134 (from ABC dataset)
CAD: 154 corners, 235 curves, 105 faces
Cross field: 103 singularities detected
Timings: 22.5241 sec to generate the unstructured mesh, 105.203 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	50236	55996	1568	340
Quasi-structured	50500	56260	546	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0244078	0.751176	2.63664	0.0477835	0.929826	0.978263
Quasi-structured	0.0202045	0.745737	3.08554	0.146715	0.947174	0.984095



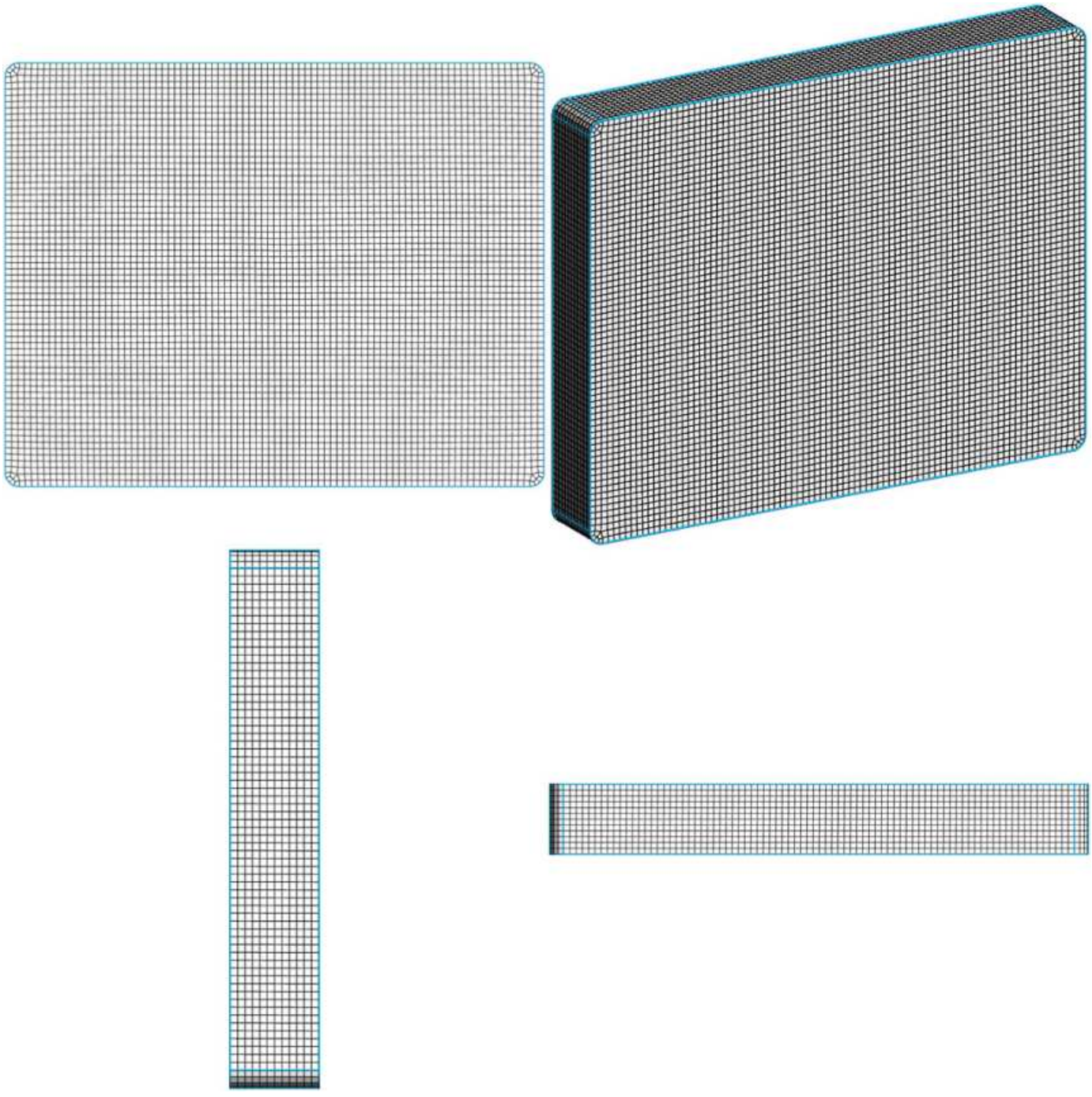


Model: 00005143 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 11.3071 sec to generate the unstructured mesh, 1.7725 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15392	16114	8	0
Quasi-structured	15408	16130	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.84366	2.2099	2.63255	0.382683	0.998742	0.999878
Quasi-structured	1.31945	2.20843	2.61335	0.840622	0.998942	0.999878

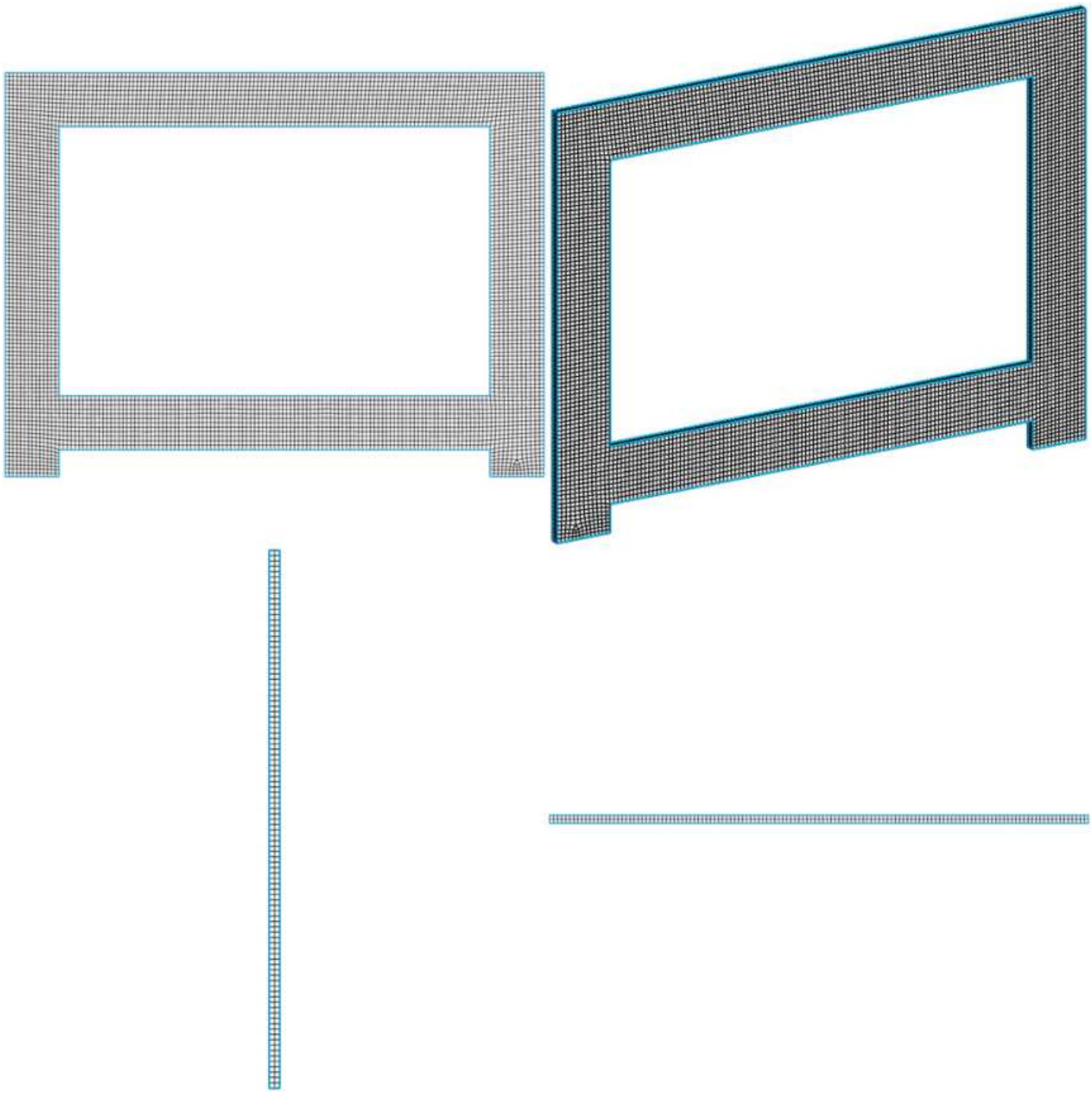


Model: 00005144 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 4.54576 sec to generate the unstructured mesh, 1.40845 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11606	13318	99	4
Quasi-structured	12076	13788	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.652635	1.57295	2.78028	0.573747	0.978821	0.989567
Quasi-structured	0.875253	1.53872	2.08264	0.824653	0.993802	0.993567

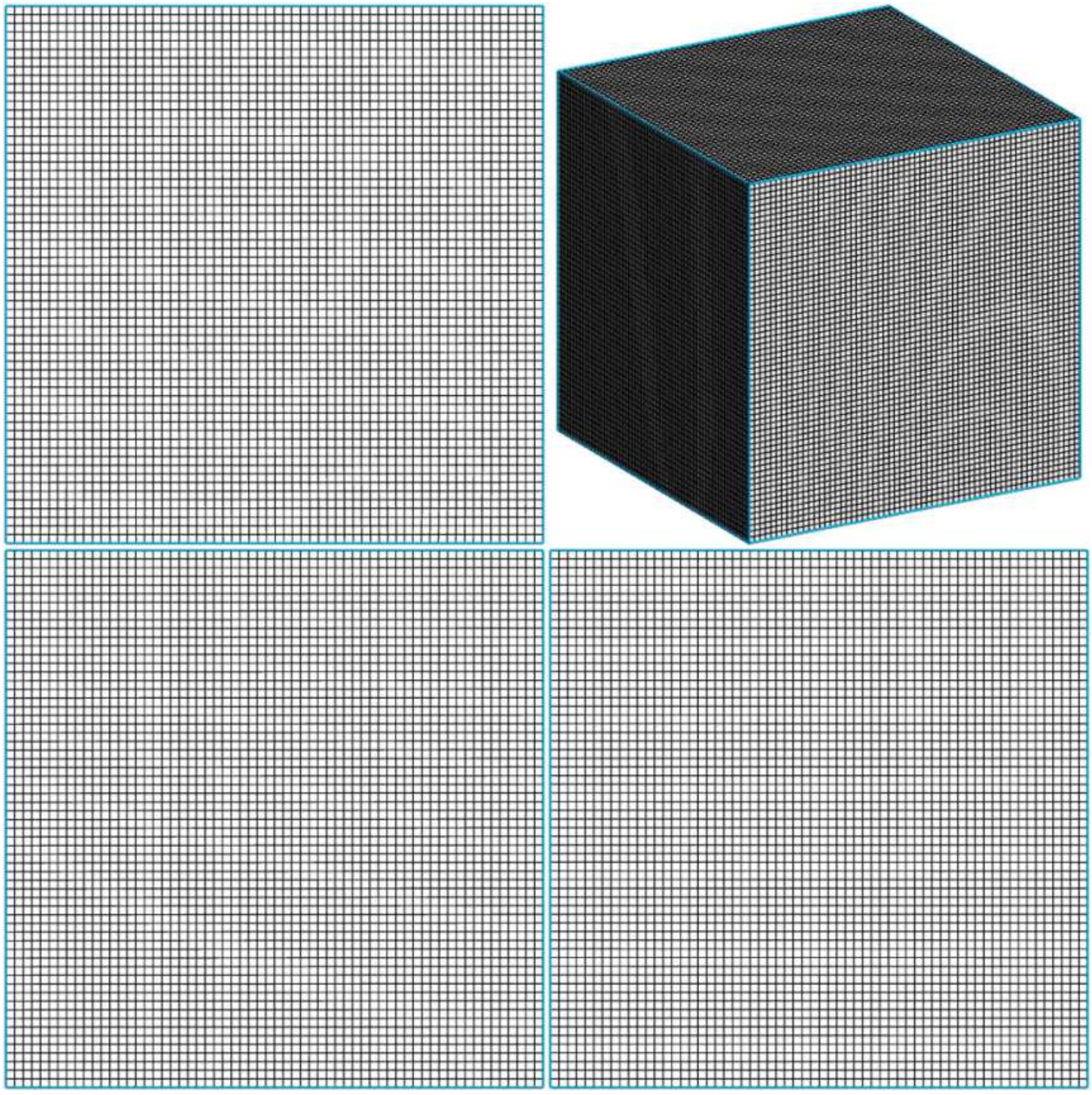


Model: 00005153 (from ABC dataset)
CAD: 20 corners, 30 curves, 18 faces
Cross field: 48 singularities detected
Timings: 16.4591 sec to generate the unstructured mesh, 1.33777 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26162	27346	233	75
Quasi-structured	26363	27547	52	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0334945	0.109047	0.178782	0.159669	0.989874	0.99999
Quasi-structured	0.0392335	0.108478	0.182448	0.732259	0.996179	0.999996

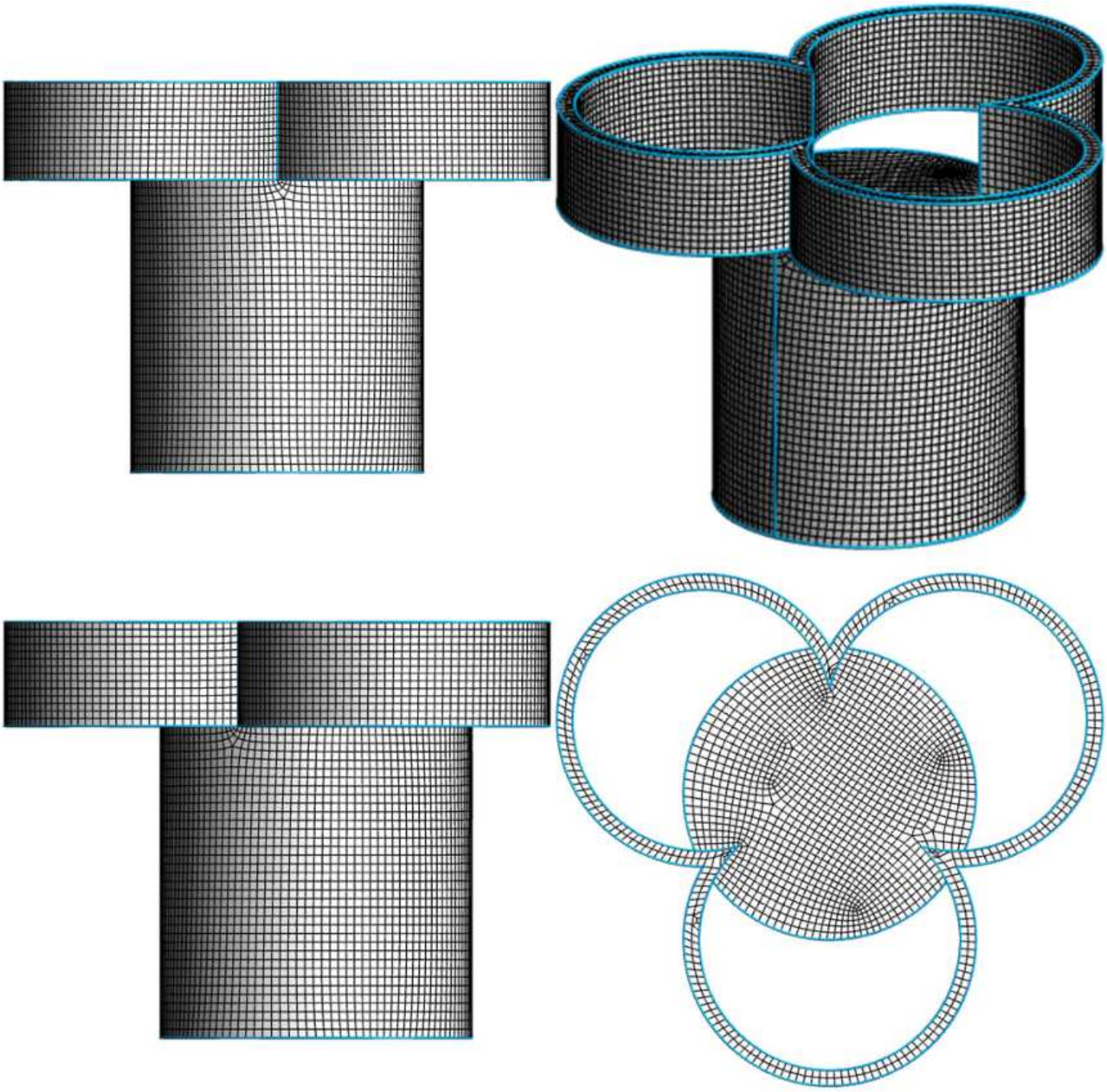


Model: 00005185 (from ABC dataset)
CAD: 20 corners, 36 curves, 13 faces
Cross field: 11 singularities detected
Timings: 10.143 sec to generate the unstructured mesh, 2.82219 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15668	17035	148	40
Quasi-structured	15636	17003	63	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.106897	0.370727	0.657028	0.319282	0.967823	0.993097
Quasi-structured	0.119932	0.370003	0.747967	0.444036	0.980249	0.996971

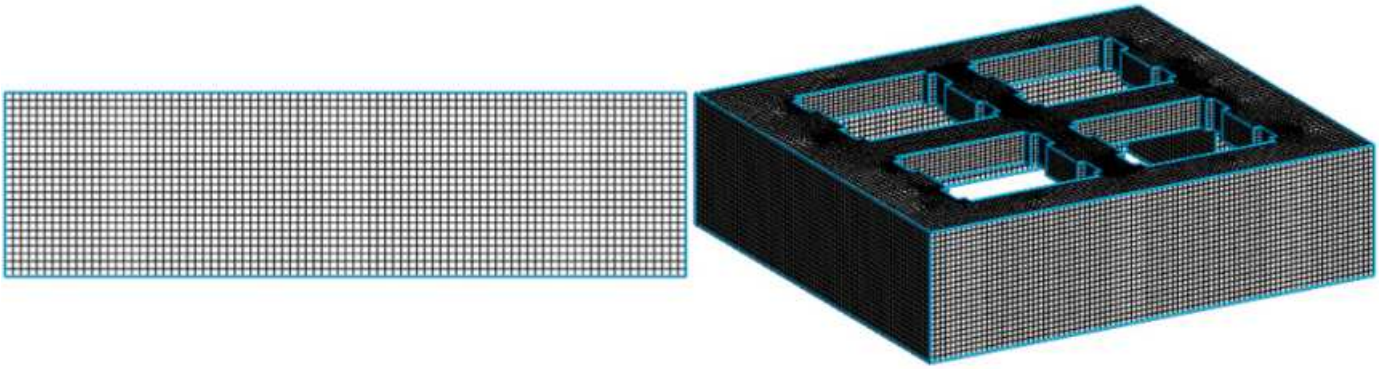


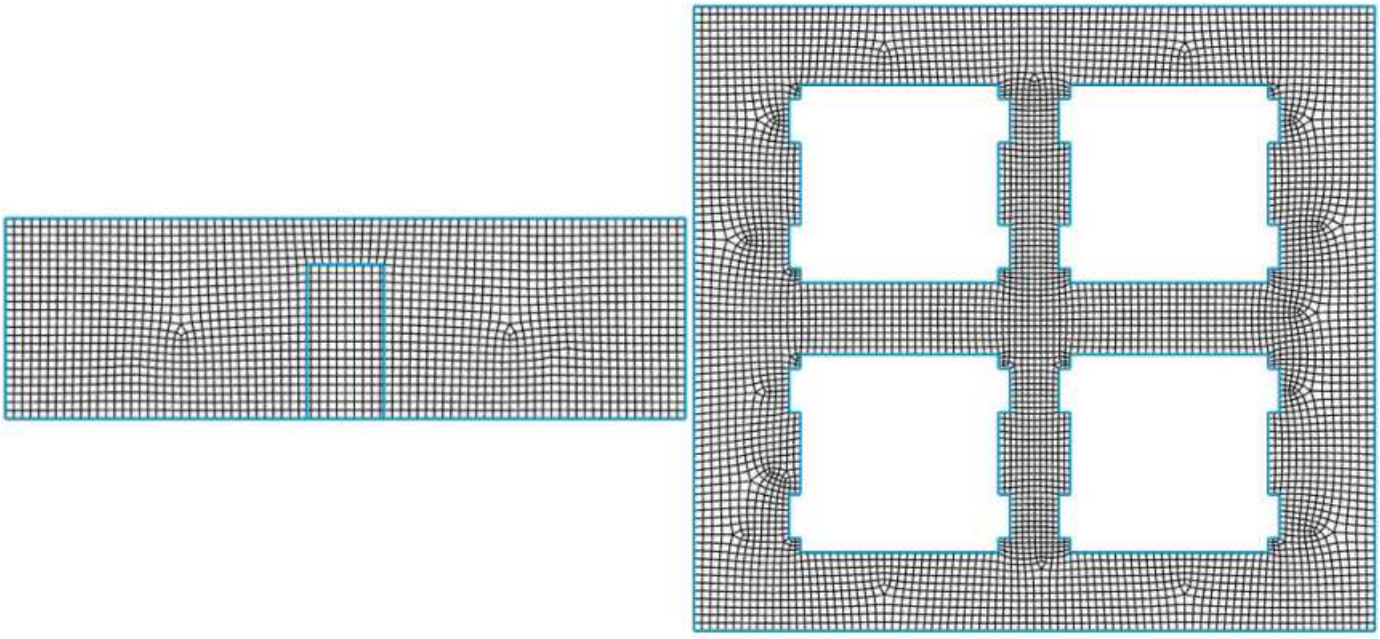
Model: 00005189 (from ABC dataset)
CAD: 184 corners, 276 curves, 94 faces
Cross field: 0 singularities detected
Timings: 16.9219 sec to generate the unstructured mesh, 4.67797 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27140	30462	271	24
Quasi-structured	27419	30741	97	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.155028	0.517131	0.838105	0.48358	0.975832	0.999082
Quasi-structured	0.134442	0.513416	0.940088	0.286629	0.984359	0.998882



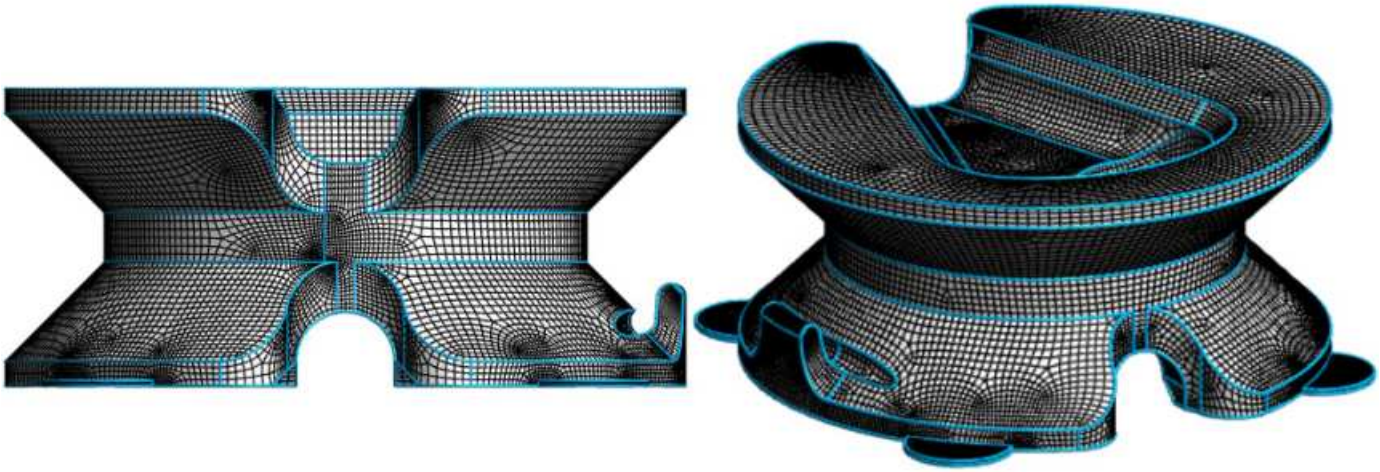


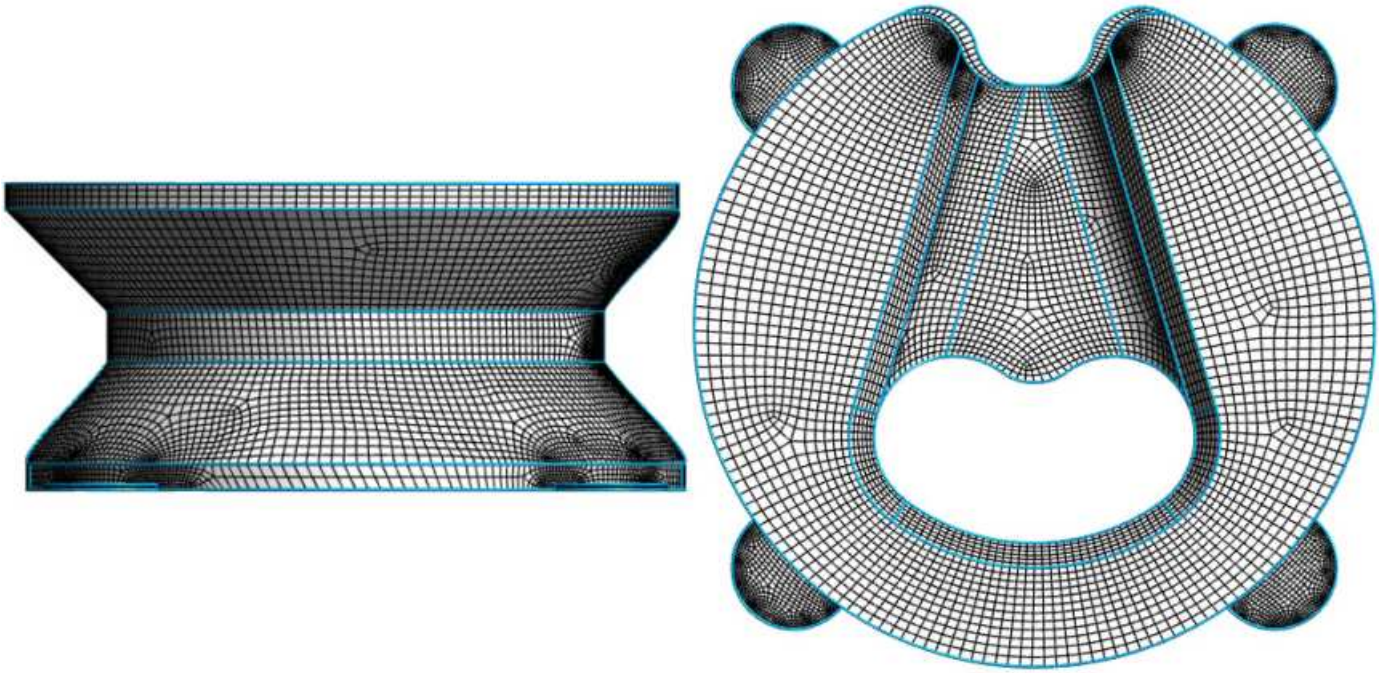
Model: 00005201 (from ABC dataset)
CAD: 117 corners, 179 curves, 62 faces
Cross field: 73 singularities detected
Timings: 26.5302 sec to generate the unstructured mesh, 24.7292 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34104	38191	2067	79
Quasi-structured	35289	39376	466	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00561848	0.507782	1.41215	0.00403955	0.927962	0.974347
Quasi-structured	0.0120244	0.496895	1.44654	0.0120513	0.956446	0.98067



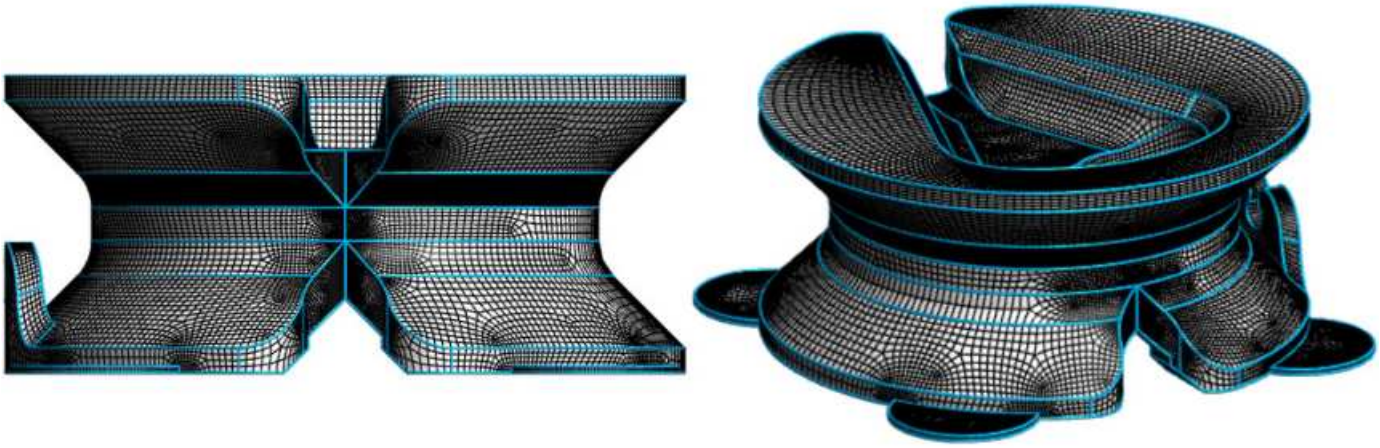


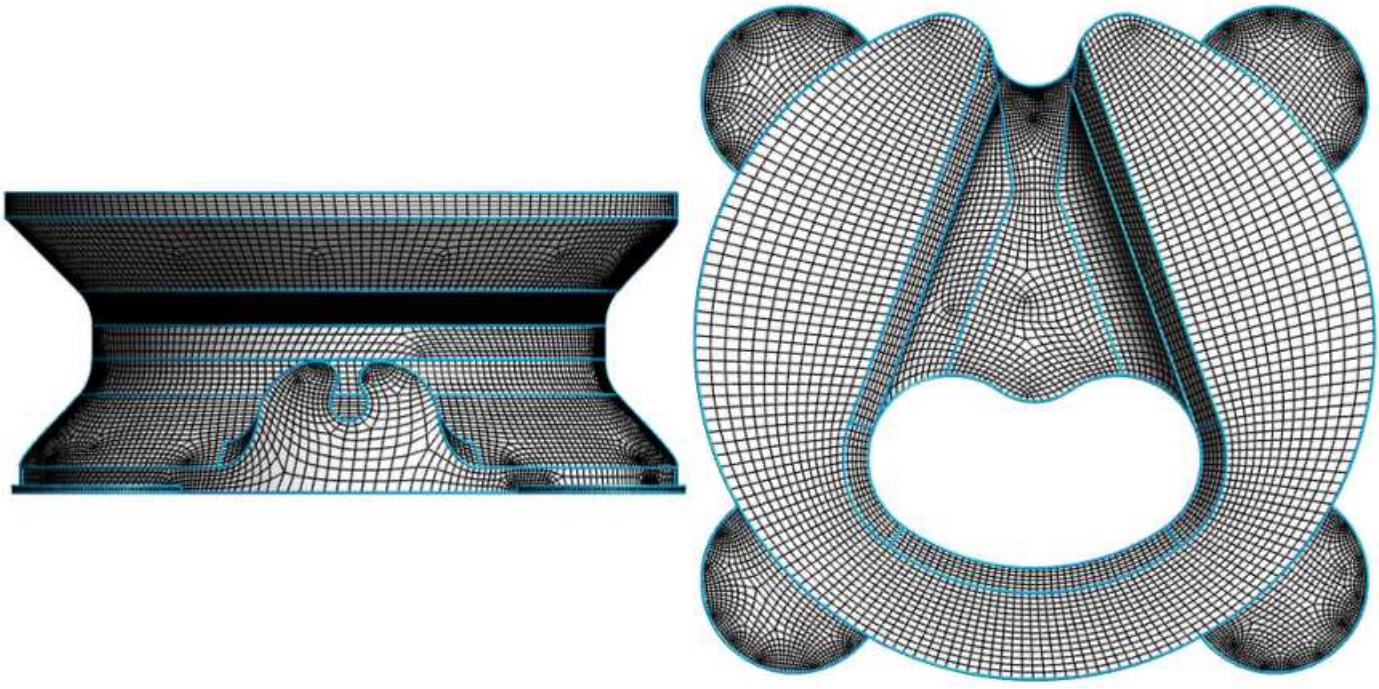
Model: 00005202 (from ABC dataset)
CAD: 130 corners, 197 curves, 67 faces
Cross field: 75 singularities detected
Timings: 32.546 sec to generate the unstructured mesh, 69.3883 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	58544	64738	3420	180
Quasi-structured	60247	66441	720	4

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00126852	0.381973	1.58669	0.000315629	0.847511	0.954386
Quasi-structured	0.00113187	0.379065	1.93829	0.00640589	0.869833	0.959273



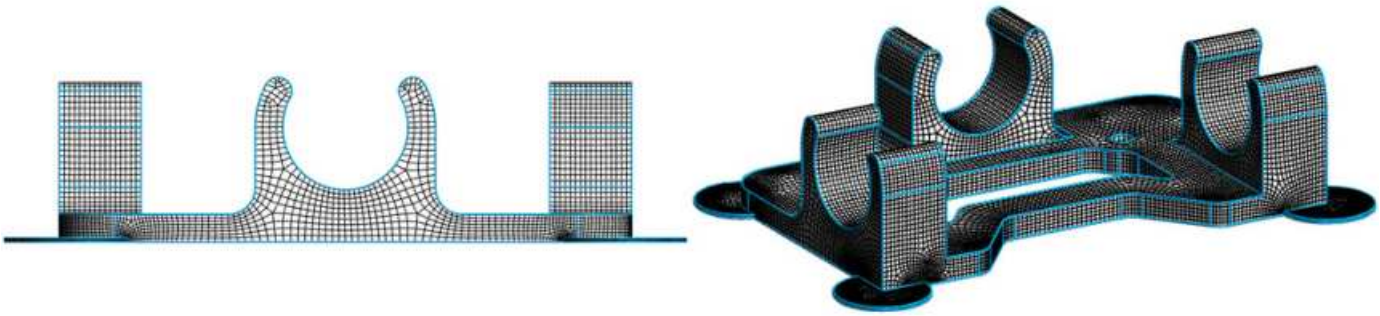


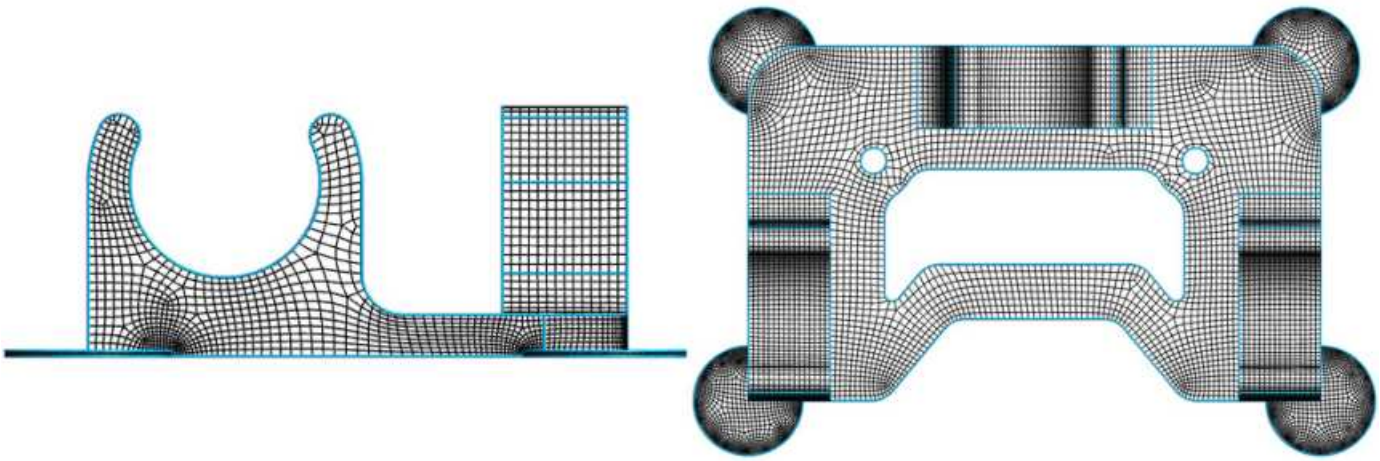
Model: 00005228 (from ABC dataset)
CAD: 132 corners, 198 curves, 68 faces
Cross field: 105 singularities detected
Timings: 11.8649 sec to generate the unstructured mesh, 20.9946 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29122	32768	1716	72
Quasi-structured	29967	33613	394	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0999798	0.76982	2.23519	0.0193826	0.936965	0.981174
Quasi-structured	0.0560484	0.7568	2.67128	0.086023	0.963976	0.982035



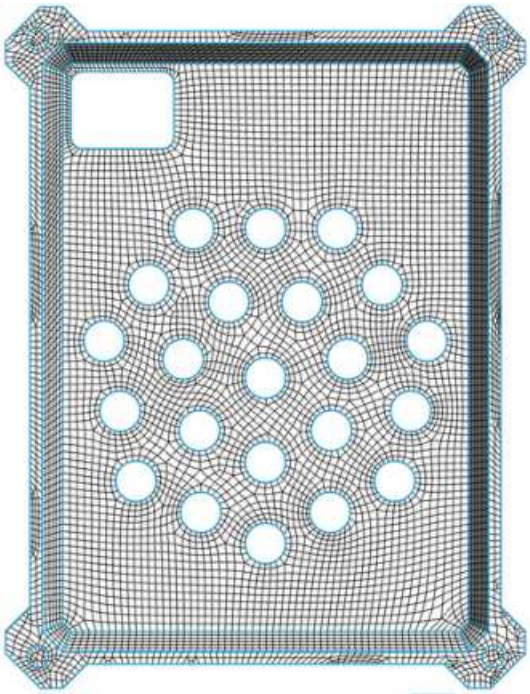


Model: 00005230 (from ABC dataset)
CAD: 164 corners, 262 curves, 105 faces
Cross field: 240 singularities detected
Timings: 34.1608 sec to generate the unstructured mesh, 14.8285 sec to make it quasi-structured
Mesh topology:

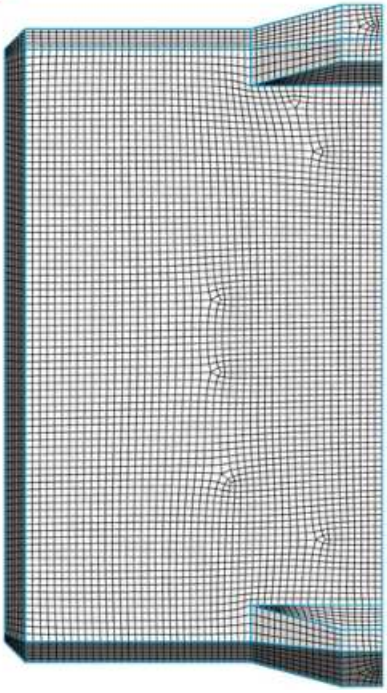
	# quads	# vertices	# irregular	# very irregular
Unstructured	46158	50796	954	126
Quasi-structured	46791	51429	449	0

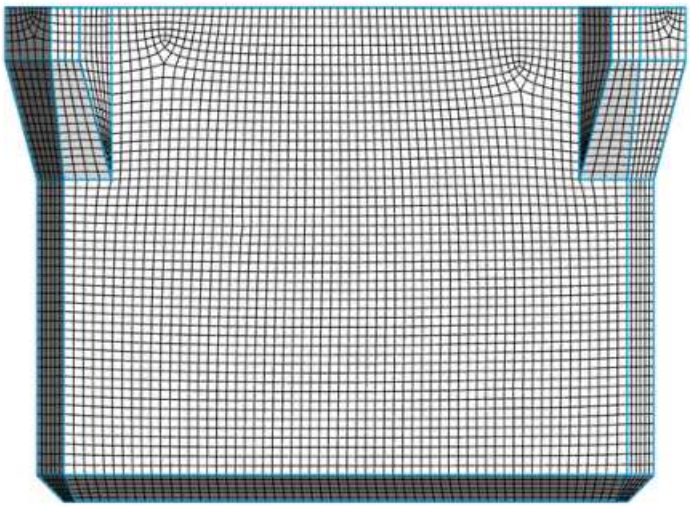
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.220689	1.67277	3.0216	0.0663881	0.959776	0.989062
Quasi-structured	0.208191	1.66144	4.45144	0.17599	0.9648	0.991185







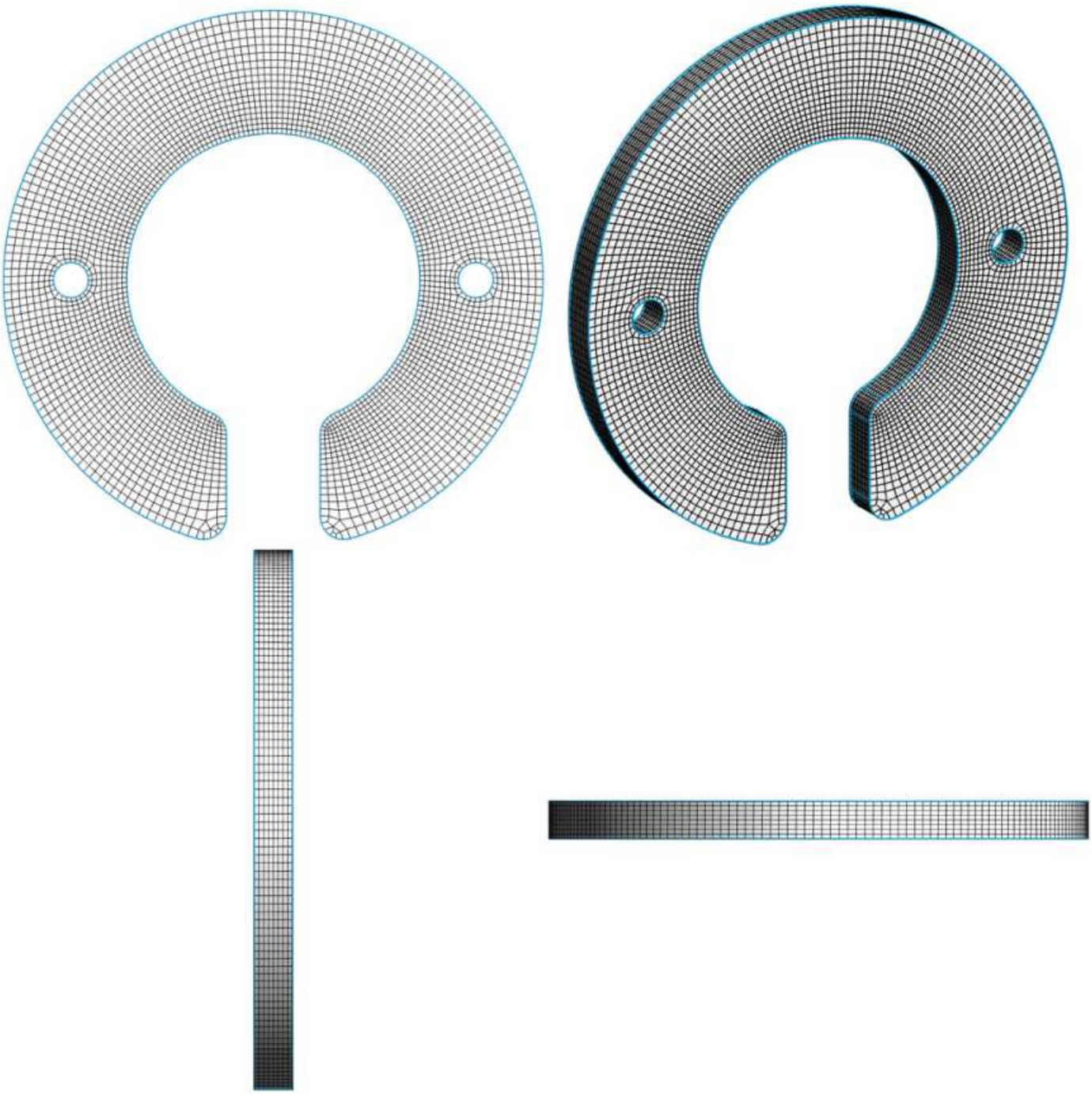


Model: 00005231 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 24 singularities detected
Timings: 7.96373 sec to generate the unstructured mesh, 1.16088 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10262	11224	80	16
Quasi-structured	10449	11411	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.434154	1.31924	2.59102	0.304397	0.961126	0.99733
Quasi-structured	0.501901	1.30801	2.4795	0.711019	0.969766	0.995864

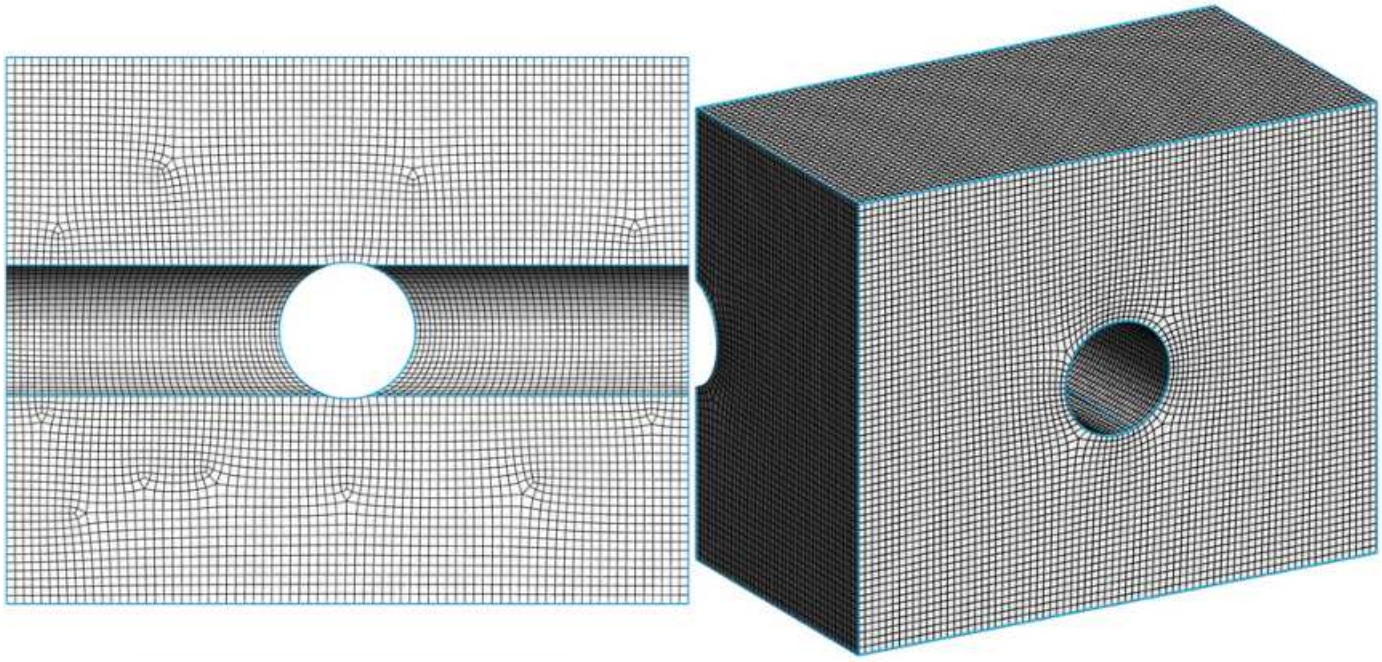


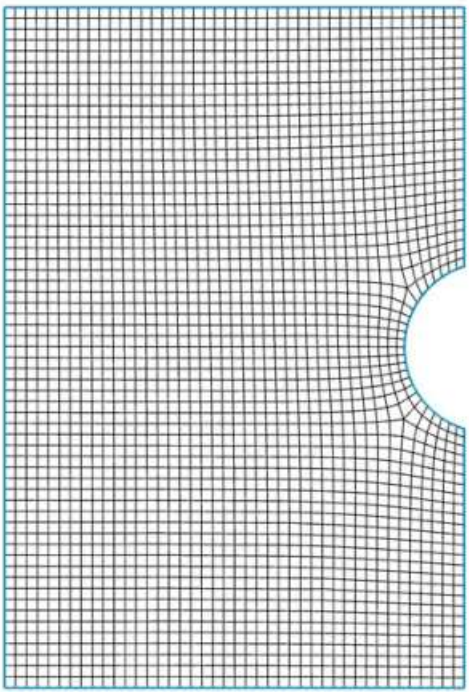
Model: 00005247 (from ABC dataset)
CAD: 18 corners, 27 curves, 10 faces
Cross field: 10 singularities detected
Timings: 15.5008 sec to generate the unstructured mesh, 2.46433 sec to make it quasi-structured
Mesh topology:

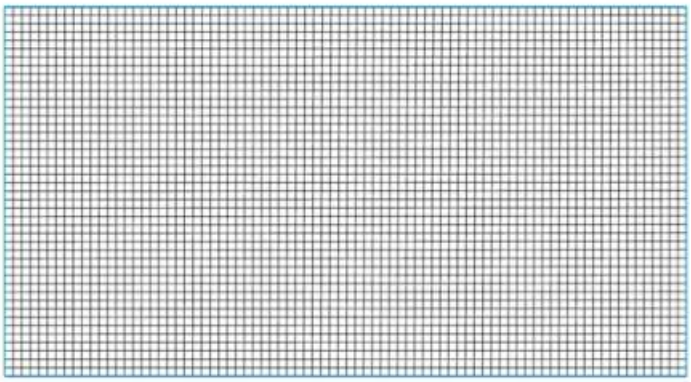
	# quads	# vertices	# irregular	# very irregular
Unstructured	25246	26302	148	50
Quasi-structured	25482	26538	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.17351	0.615735	1.03588	0.396147	0.985996	0.999339
Quasi-structured	0.277376	0.611636	1.52367	0.543706	0.994713	0.99949







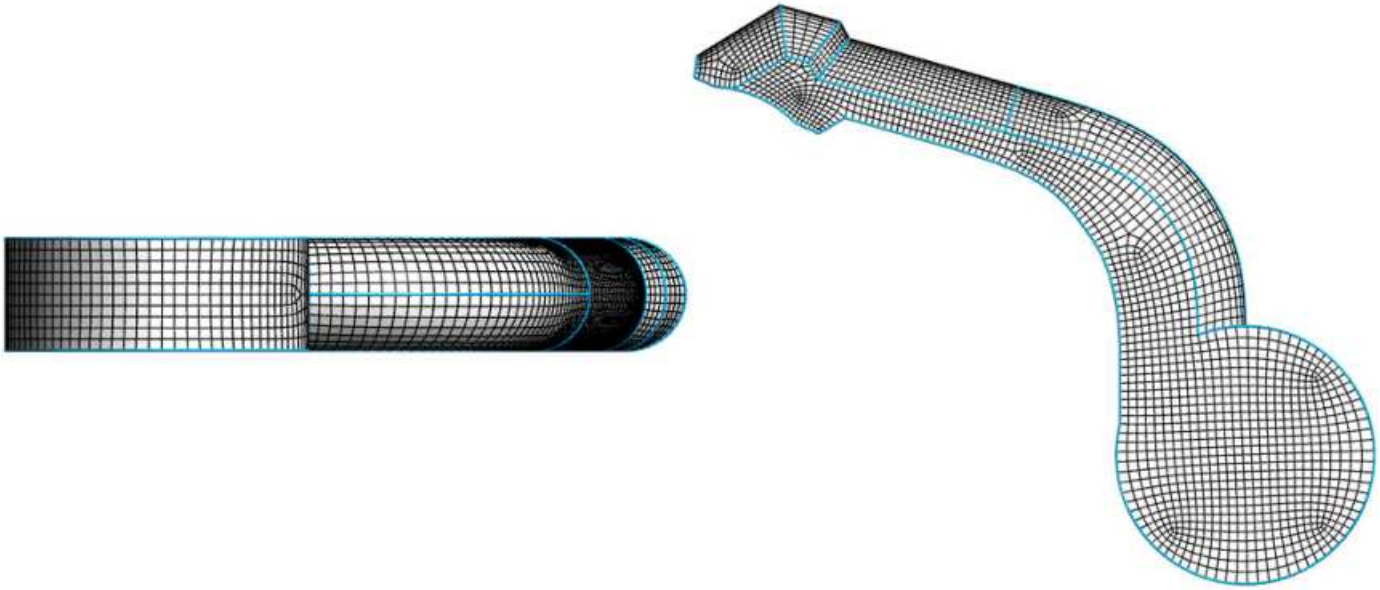
Model: 00005274 (from ABC dataset)
CAD: 30 corners, 45 curves, 17 faces
Cross field: 16 singularities detected
Timings: 7.85337 sec to generate the unstructured mesh, 1.82957 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6294	7095	186	5
Quasi-structured	6587	7388	44	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.216218	1.14001	2.31868	0.169371	0.951554	0.984305
Quasi-structured	0.14023	1.11066	2.40684	0.169371	0.975217	0.99344



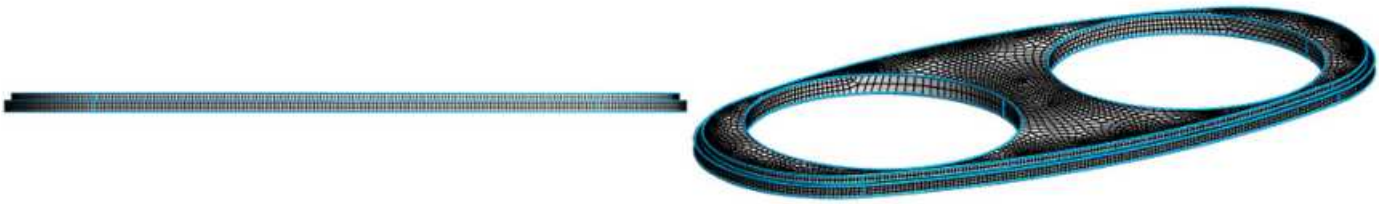


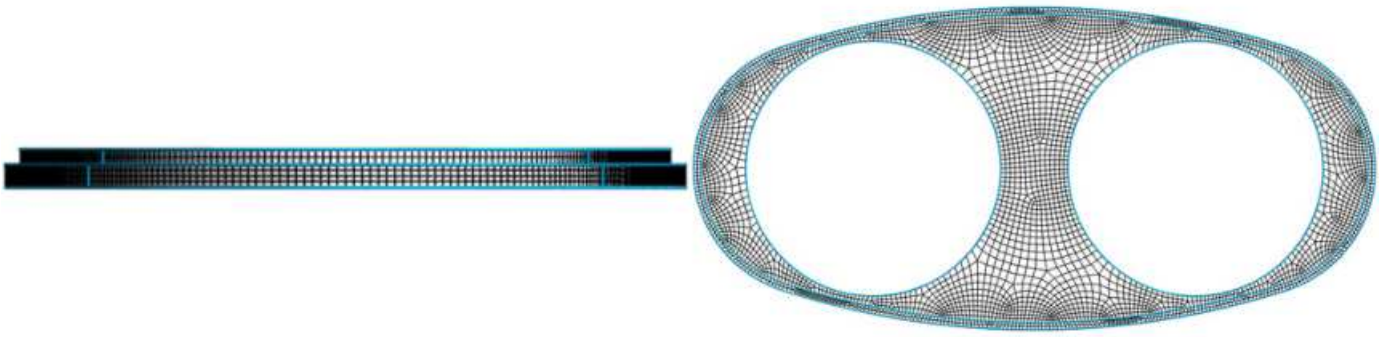
Model: 00005277 (from ABC dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 8 singularities detected
Timings: 4.96807 sec to generate the unstructured mesh, 32.1844 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10186	12558	514	42
Quasi-structured	10270	12642	196	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.380738	1.25083	3.36125	0.461887	0.931114	0.959291
Quasi-structured	0.295922	1.25121	4.52869	0.420573	0.933632	0.949511



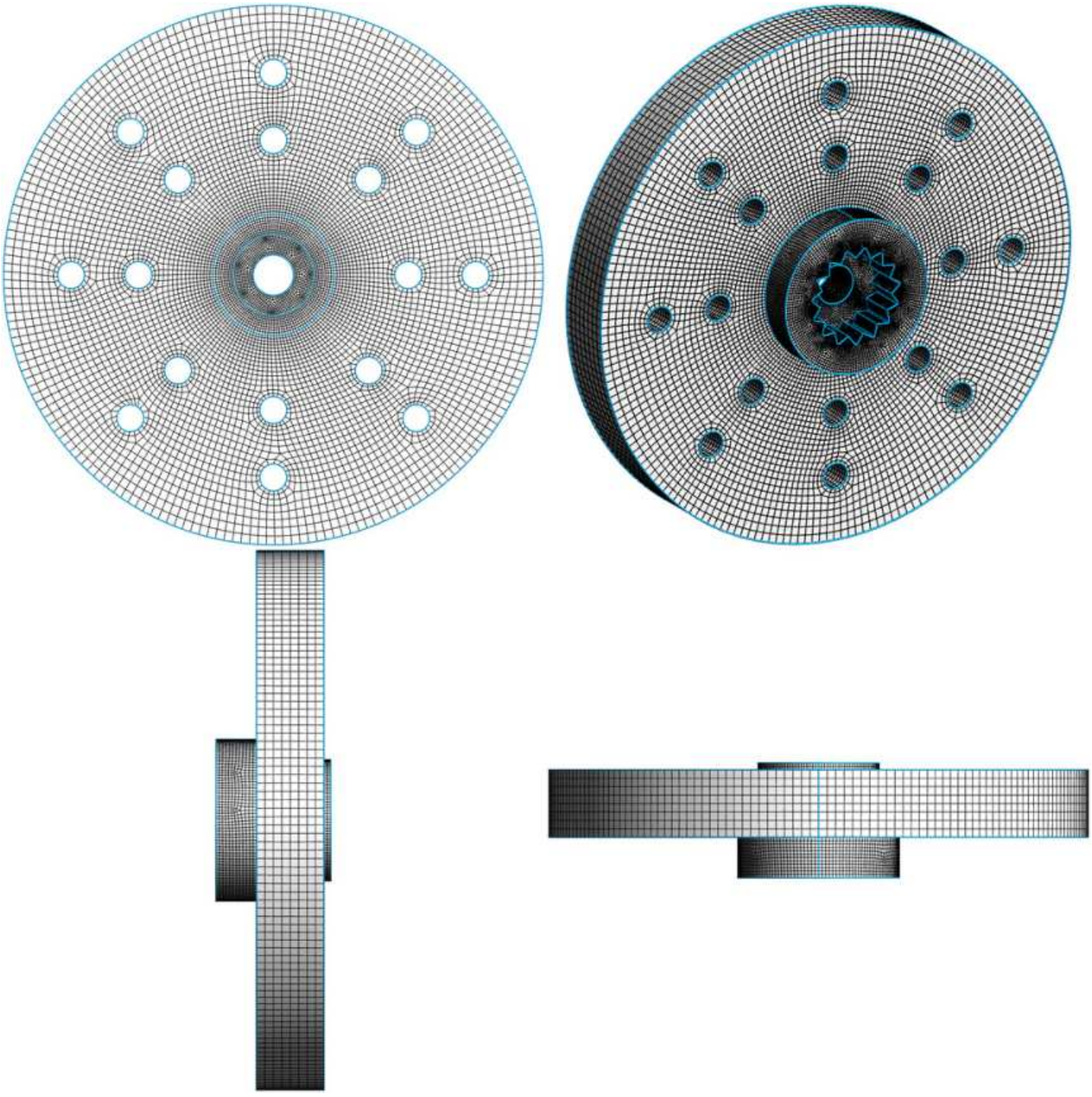


Model: 00005284 (from ABC dataset)
CAD: 147 corners, 213 curves, 72 faces
Cross field: 166 singularities detected
Timings: 31.7291 sec to generate the unstructured mesh, 12.7848 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	39204	43311	1694	345
Quasi-structured	39248	43355	426	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0256494	0.265026	0.842608	0.281423	0.954218	0.988835
Quasi-structured	0.0145195	0.263877	0.840373	0.246082	0.970957	0.991475

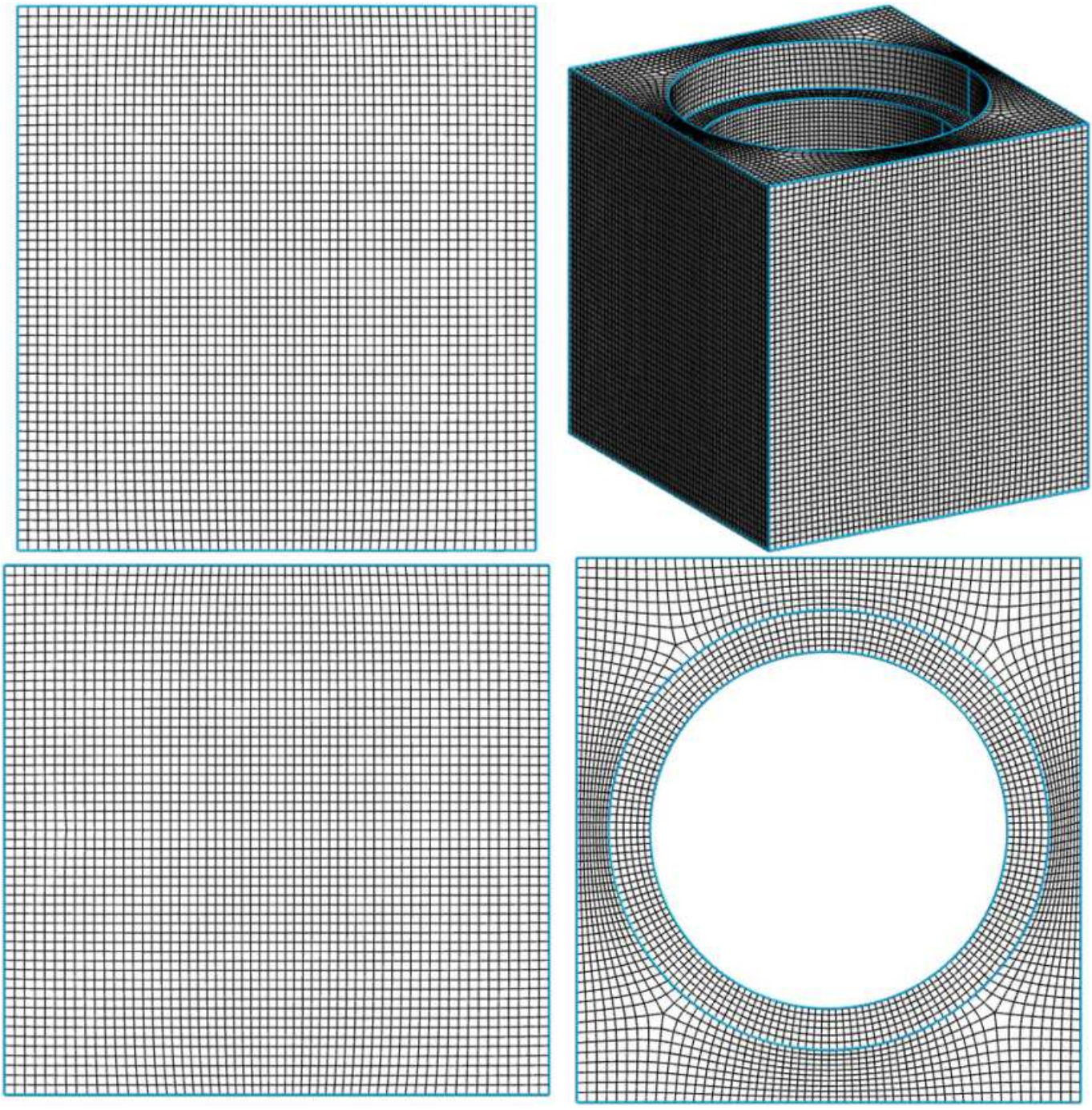


Model: 00005290 (from ABC dataset)
CAD: 14 corners, 21 curves, 11 faces
Cross field: 8 singularities detected
Timings: 22.4544 sec to generate the unstructured mesh, 2.74455 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30370	32066	136	79
Quasi-structured	30920	32616	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0463302	0.120594	0.234354	0.451874	0.990931	0.998548
Quasi-structured	0.0449849	0.119431	0.299622	0.689344	0.989667	0.998905

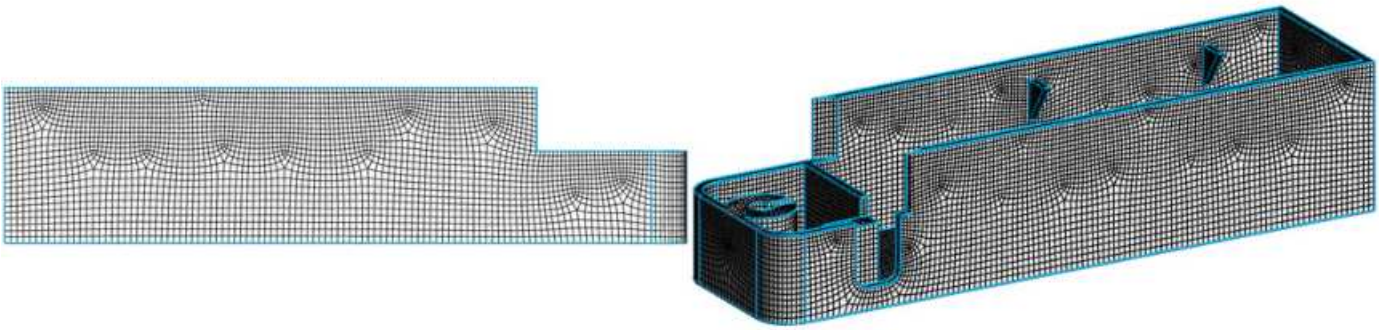


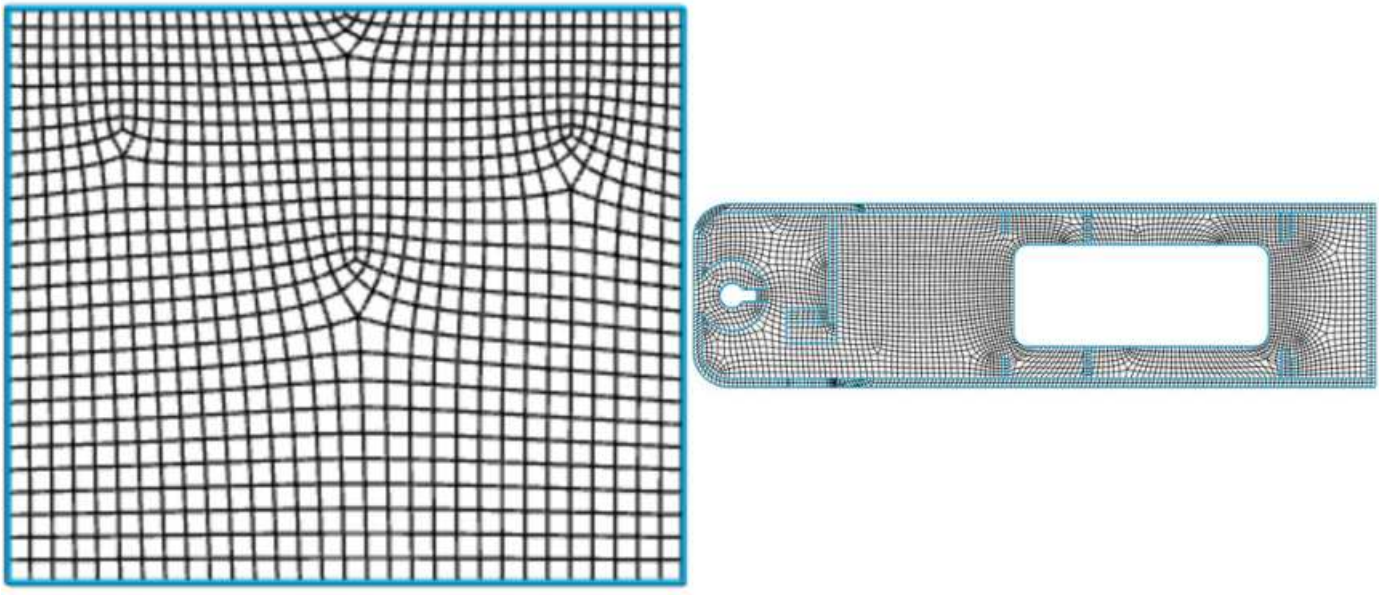
Model: 00005304 (from ABC dataset)
CAD: 154 corners, 232 curves, 83 faces
Cross field: 31 singularities detected
Timings: 11.6255 sec to generate the unstructured mesh, 9.2215 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27462	30859	876	26
Quasi-structured	28729	32126	265	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0524933	0.714772	1.35765	0.00992652	0.957412	0.984951
Quasi-structured	0.028731	0.699988	2.22351	0.0417673	0.967584	0.987041



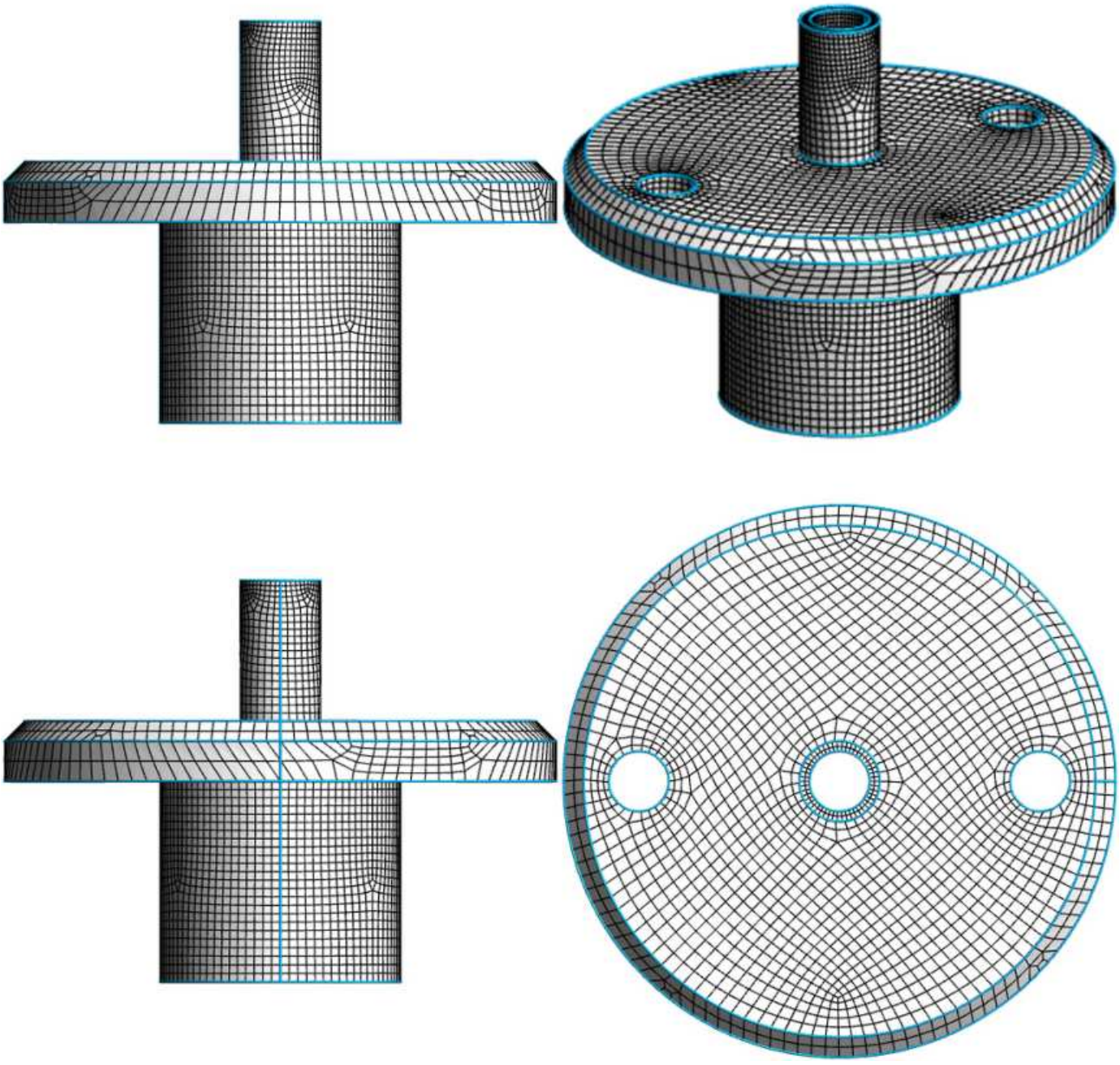


Model: 00005313 (from ABC dataset)
CAD: 15 corners, 23 curves, 13 faces
Cross field: 20 singularities detected
Timings: 7.5702 sec to generate the unstructured mesh, 2.69615 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14286	15232	214	170
Quasi-structured	14461	15407	94	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0709732	0.339493	1.08049	0.341643	0.976212	0.992729
Quasi-structured	0.0815073	0.337658	1.66917	0.369024	0.983198	0.994424

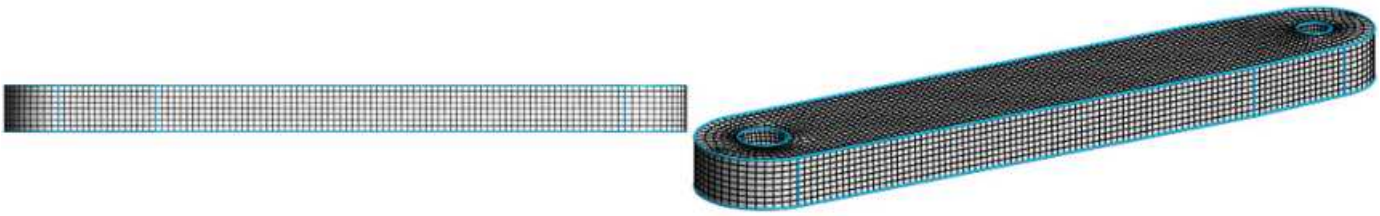


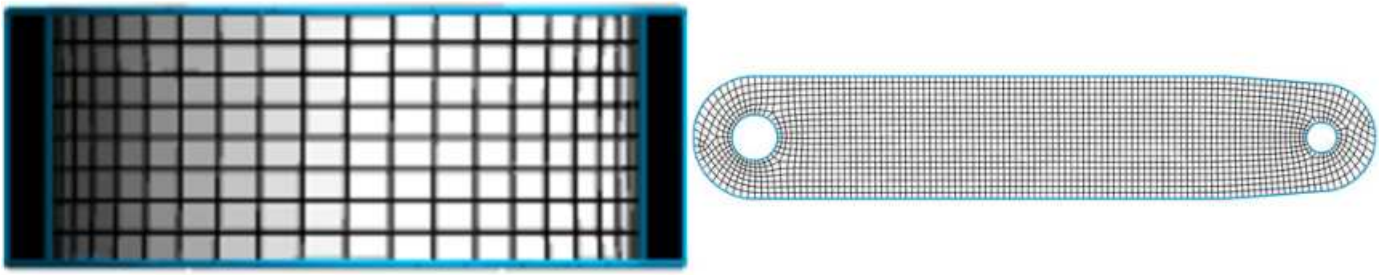
Model: 00005314 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 3.21374 sec to generate the unstructured mesh, 0.644844 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6894	7536	54	24
Quasi-structured	6854	7496	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0989231	0.375637	0.609055	0.652832	0.985383	0.998159
Quasi-structured	0.152469	0.376744	0.641104	0.698187	0.990537	0.999032



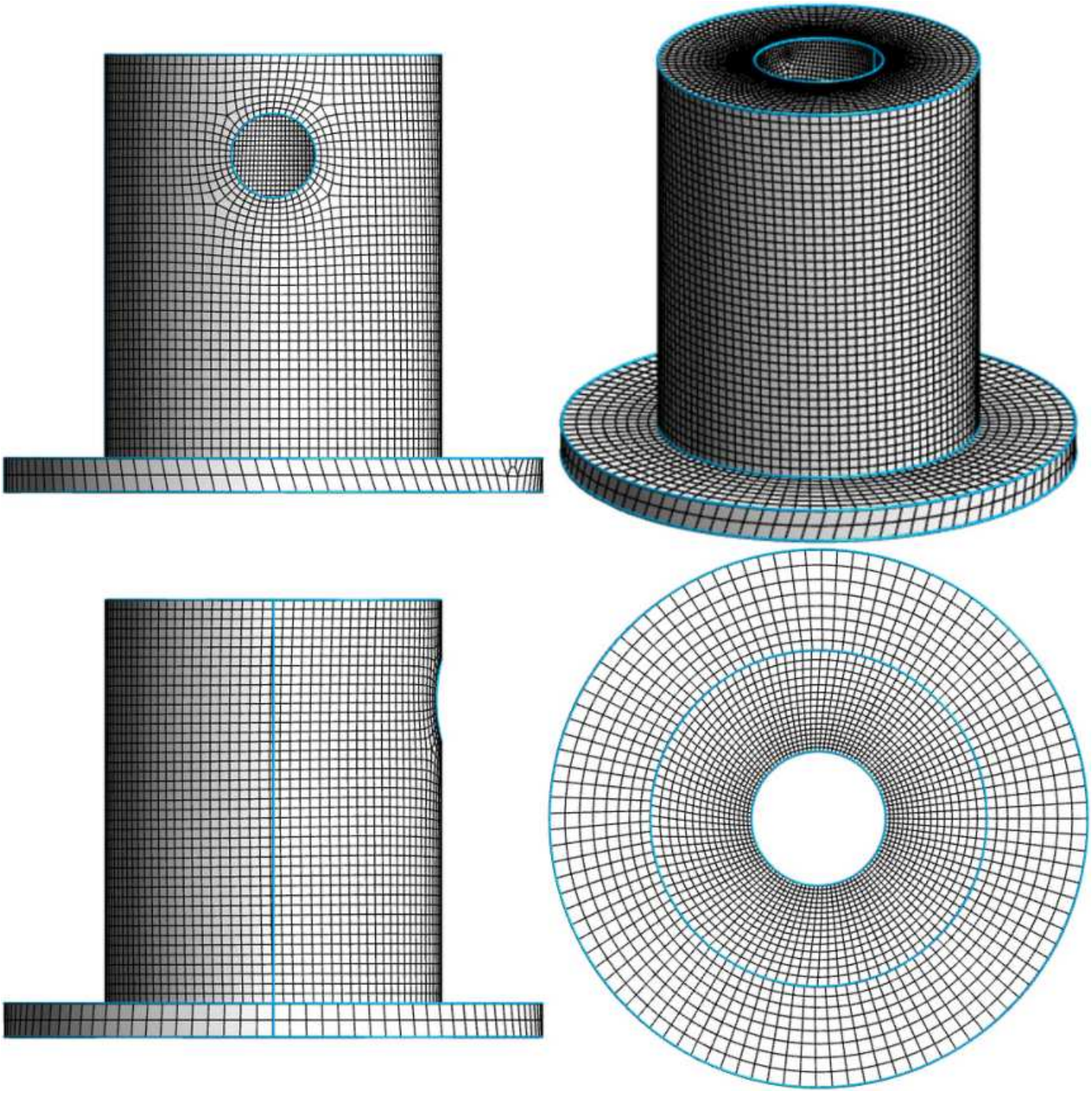


Model: 00005316 (from ABC dataset)
CAD: 8 corners, 12 curves, 7 faces
Cross field: 8 singularities detected
Timings: 11.2876 sec to generate the unstructured mesh, 4.10059 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18090	18810	143	155
Quasi-structured	18612	19332	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0577166	0.213559	0.556124	0.430858	0.983695	0.995358
Quasi-structured	0.0586319	0.210653	0.673595	0.644427	0.993637	0.9968

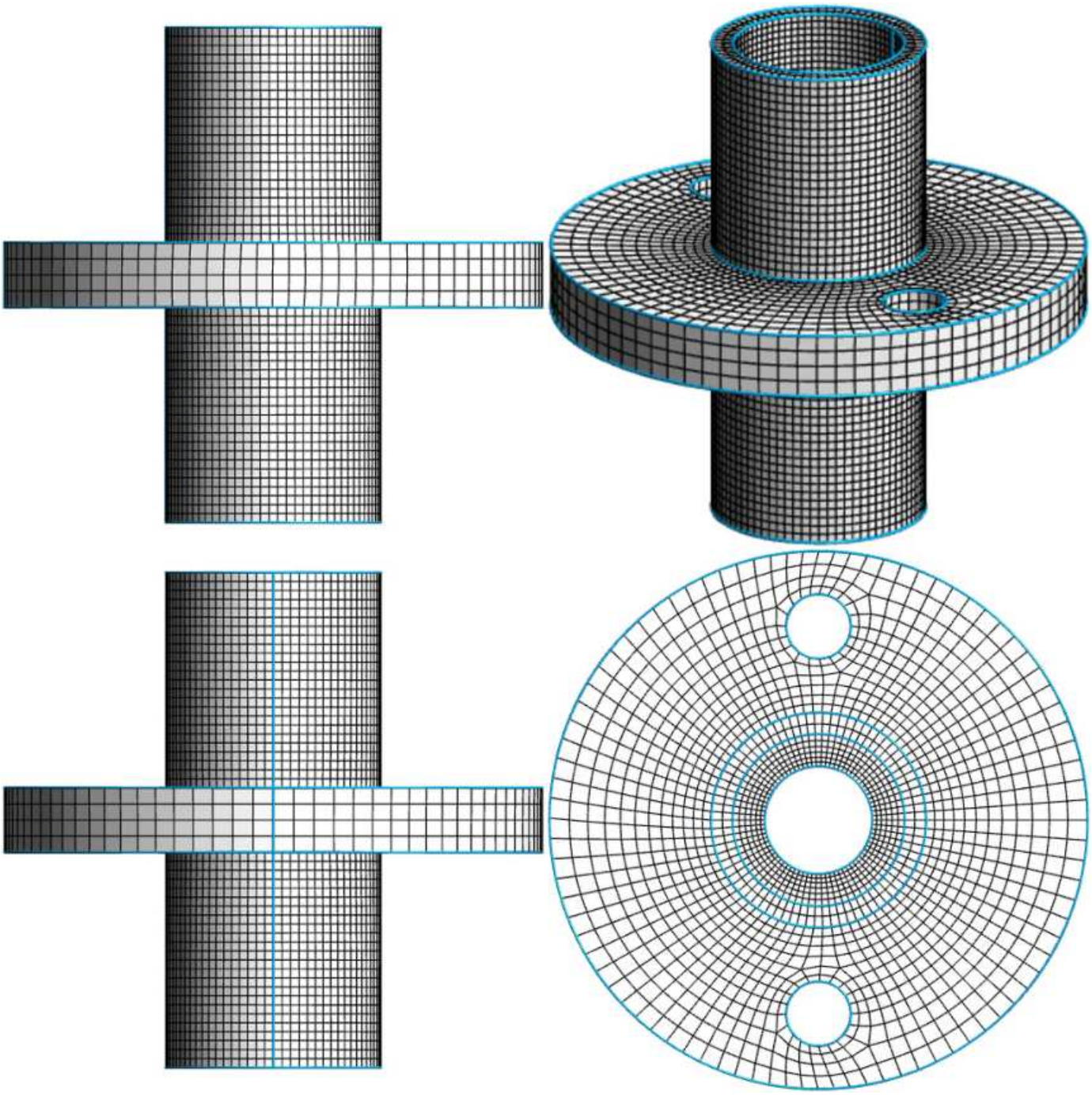


Model: 00005320 (from ABC dataset)
CAD: 16 corners, 24 curves, 14 faces
Cross field: 16 singularities detected
Timings: 11.7352 sec to generate the unstructured mesh, 1.31324 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15534	16566	88	166
Quasi-structured	15419	16451	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.102134	0.345317	1.5	0.321307	0.987322	0.999768
Quasi-structured	0.188968	0.346883	0.976931	0.675352	0.994517	0.999396

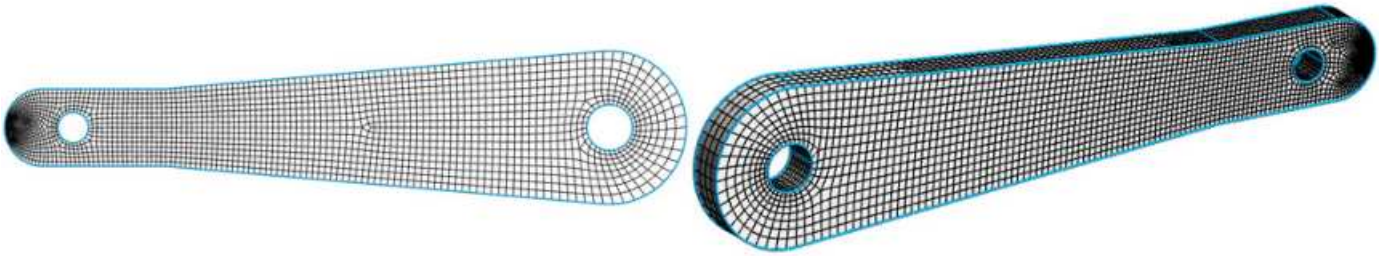


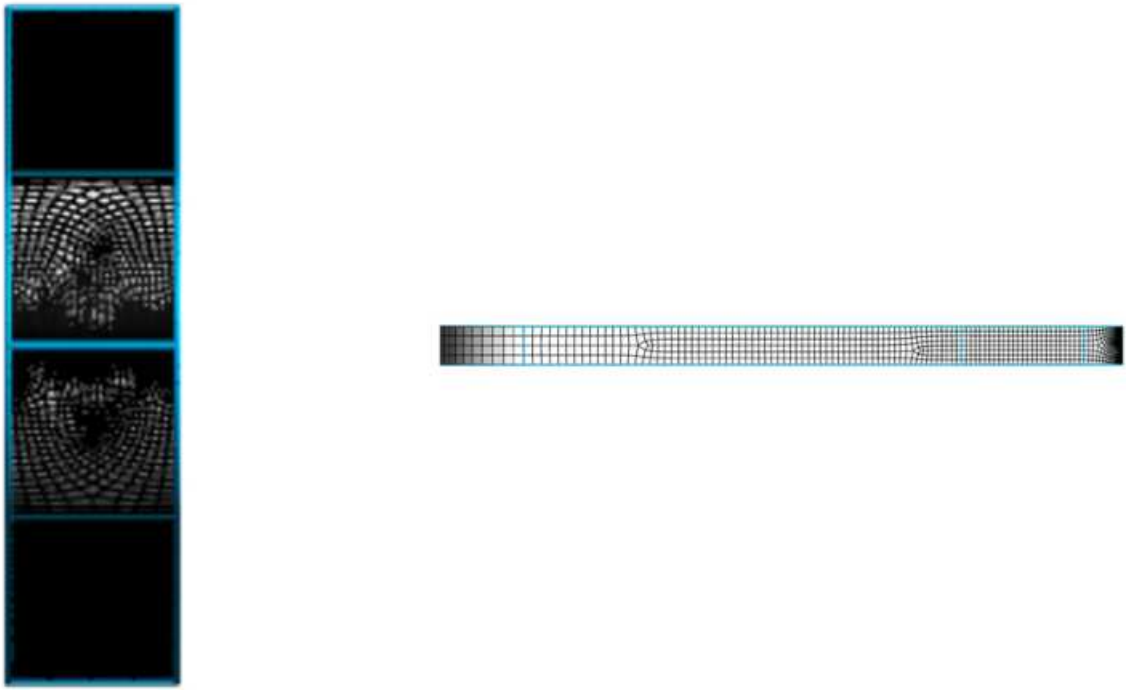
Model: 00005322 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 16 singularities detected
Timings: 3.21808 sec to generate the unstructured mesh, 5.30304 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8716	9706	400	60
Quasi-structured	9252	10242	86	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0098866	0.27246	0.827712	0.114394	0.919033	0.983915
Quasi-structured	0.00595151	0.25684	0.812734	0.210007	0.939386	0.990155



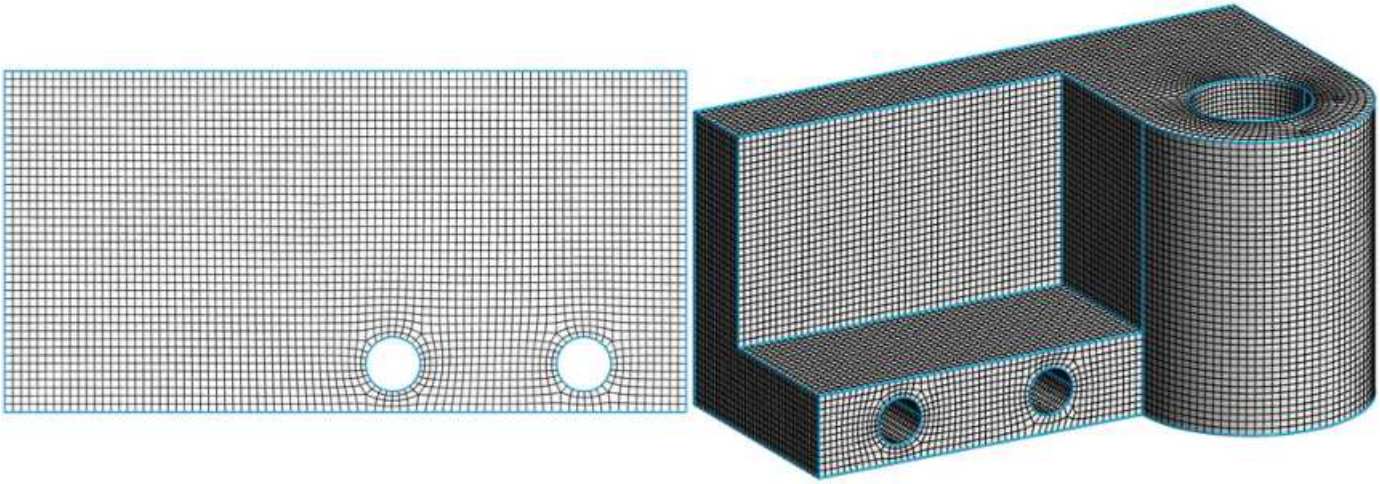


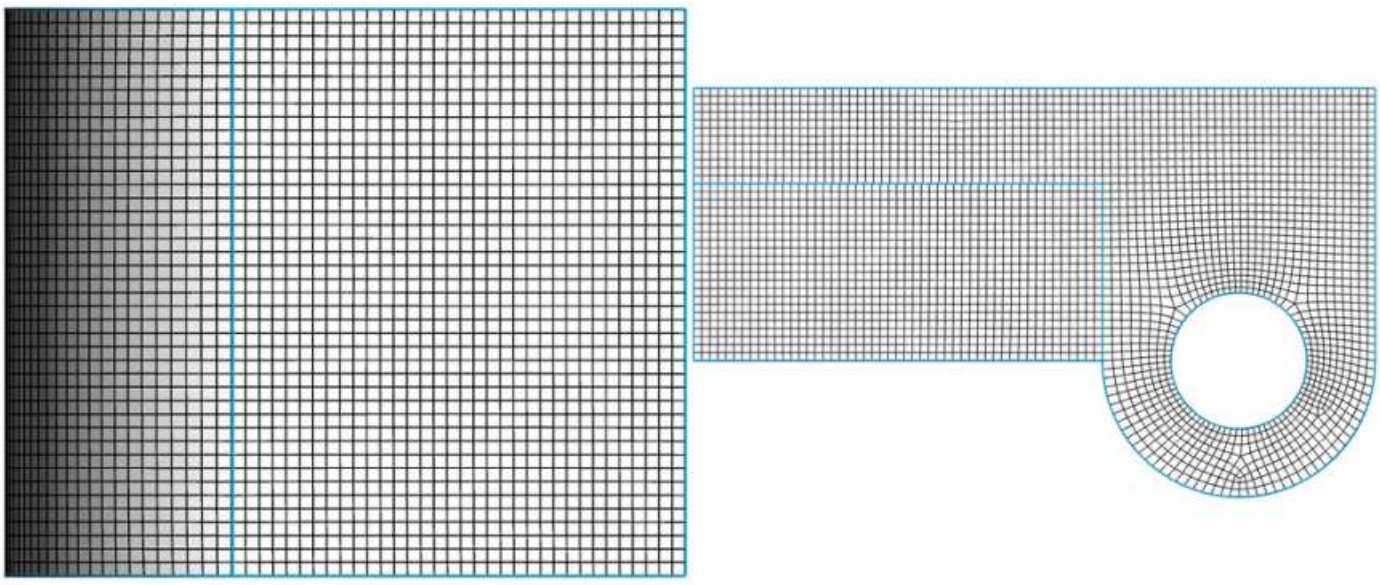
Model: 00005338 (from ABC dataset)
CAD: 21 corners, 32 curves, 13 faces
Cross field: 20 singularities detected
Timings: 13.8397 sec to generate the unstructured mesh, 1.61812 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23182	24324	164	147
Quasi-structured	23611	24753	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.615646	2.75659	5.03508	0.331547	0.987476	0.999464
Quasi-structured	1.50156	2.72955	5.63183	0.686424	0.996281	0.999602



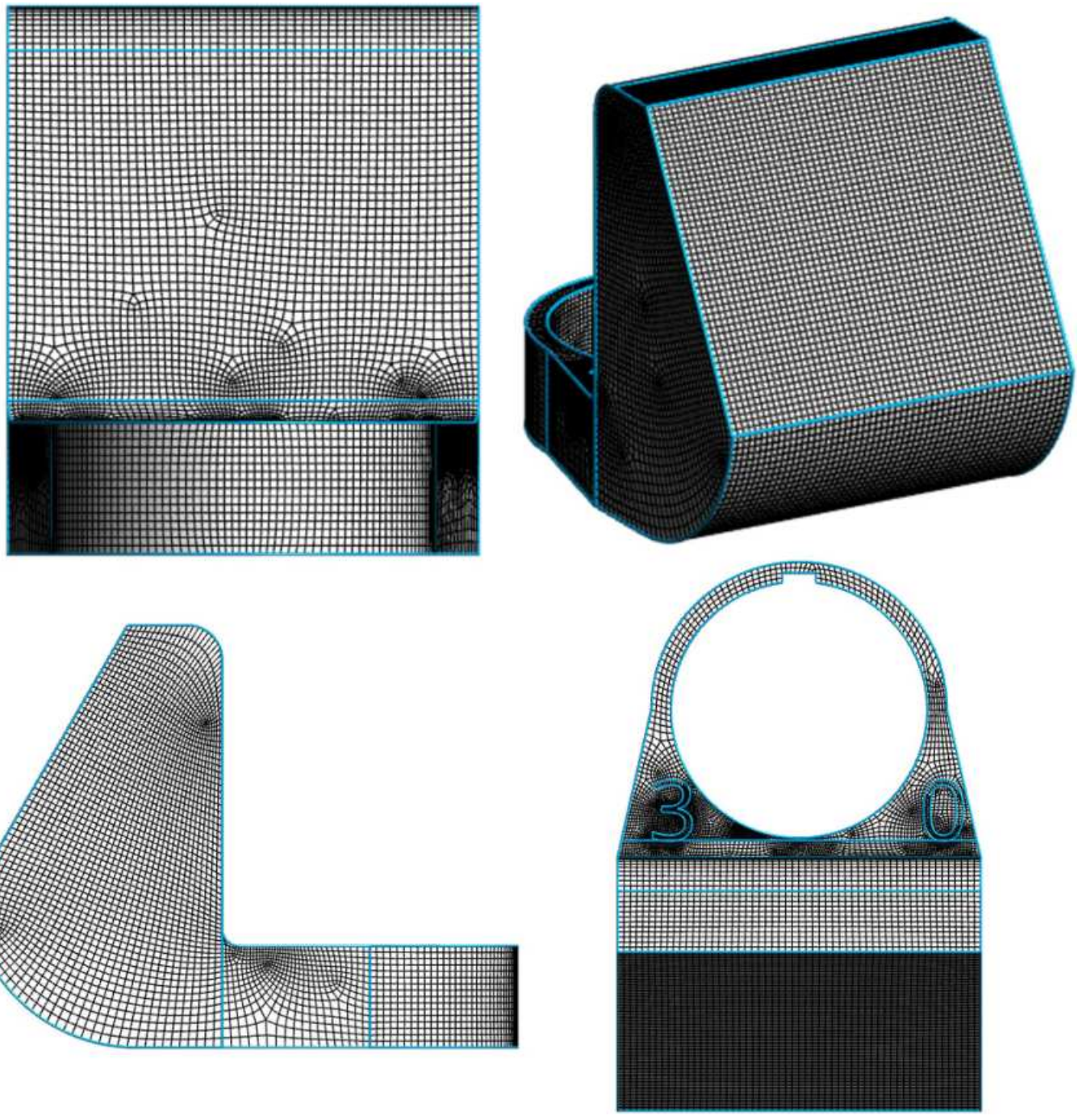


Model: 00005369 (from ABC dataset)
CAD: 120 corners, 183 curves, 66 faces
Cross field: 35 singularities detected
Timings: 13.1535 sec to generate the unstructured mesh, 11.4304 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25068	27801	935	32
Quasi-structured	26609	29342	222	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00415321	0.298749	0.72288	0.00768346	0.946396	0.981055
Quasi-structured	0.00261408	0.289835	1.17435	0.11362	0.957788	0.980526

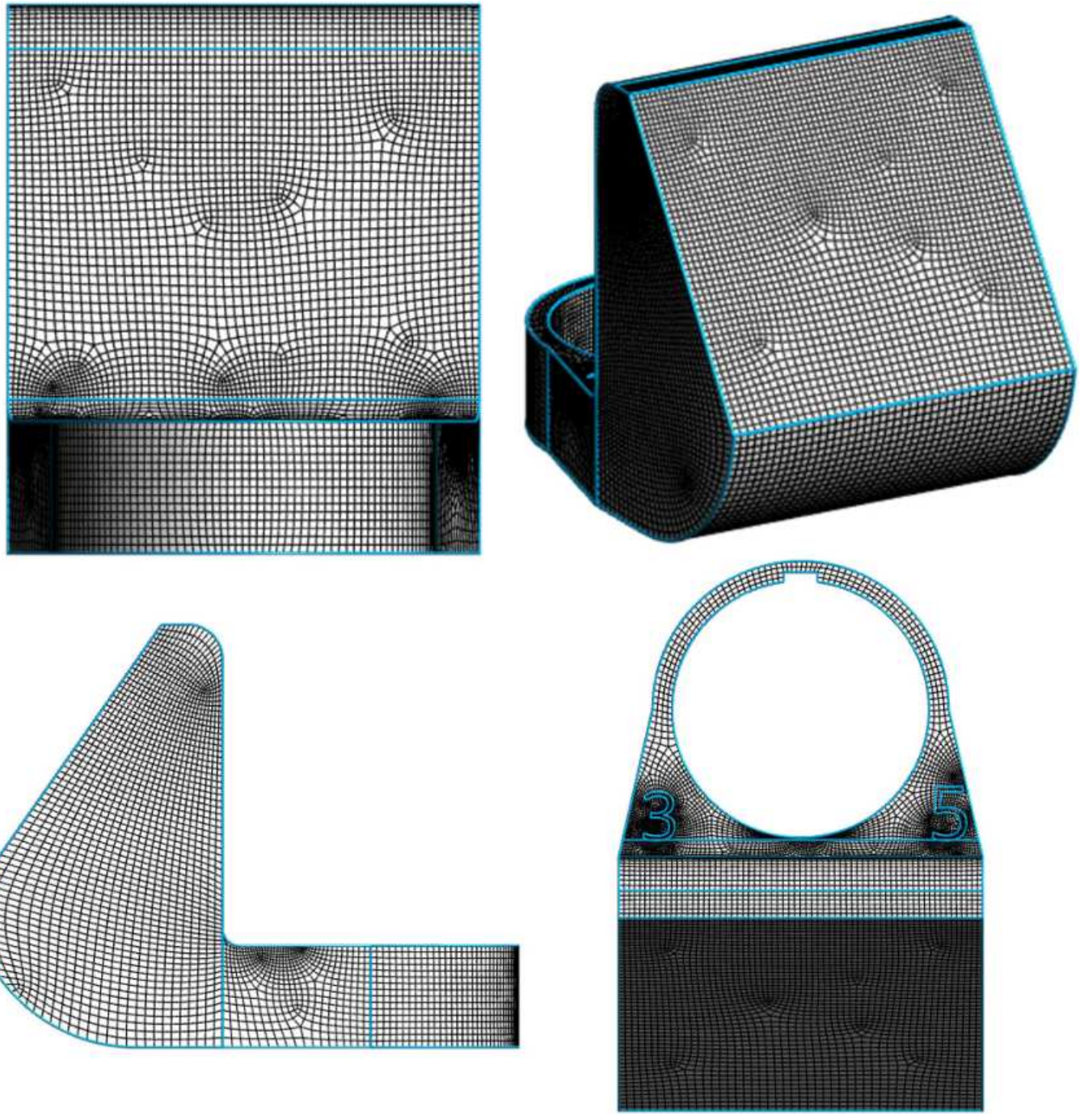


Model: 00005370 (from ABC dataset)
CAD: 126 corners, 192 curves, 68 faces
Cross field: 33 singularities detected
Timings: 11.4536 sec to generate the unstructured mesh, 16.3639 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25044	27826	990	23
Quasi-structured	26563	29345	227	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00302317	0.290952	0.709993	0.000626619	0.946089	0.986702
Quasi-structured	0.00302317	0.283188	1.34253	0.0923319	0.950599	0.979354

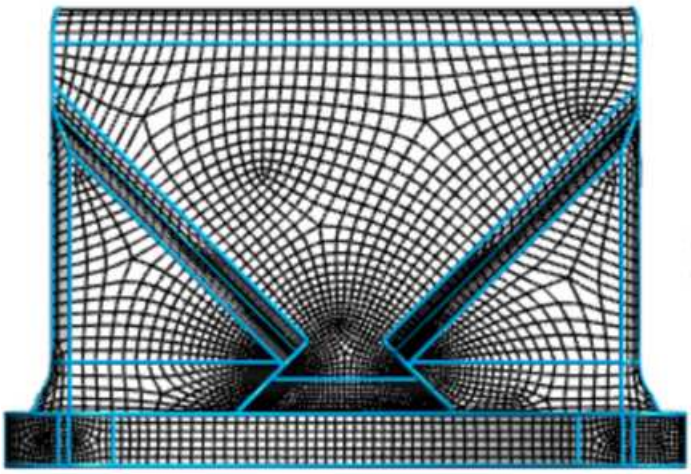


Model: 00005378 (from ABC dataset)
CAD: 124 corners, 195 curves, 67 faces
Cross field: 98 singularities detected
Timings: 12.6783 sec to generate the unstructured mesh, 10.0772 sec to make it quasi-structured
Mesh topology:

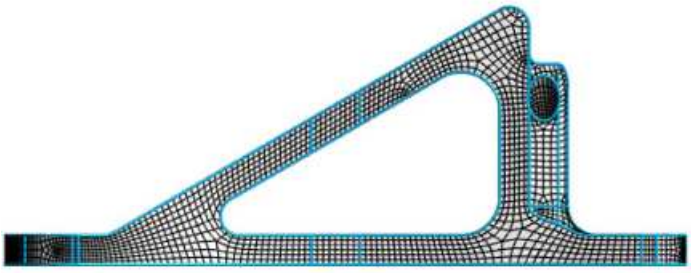
	# quads	# vertices	# irregular	# very irregular
Unstructured	25360	28309	1072	153
Quasi-structured	27447	30396	313	0

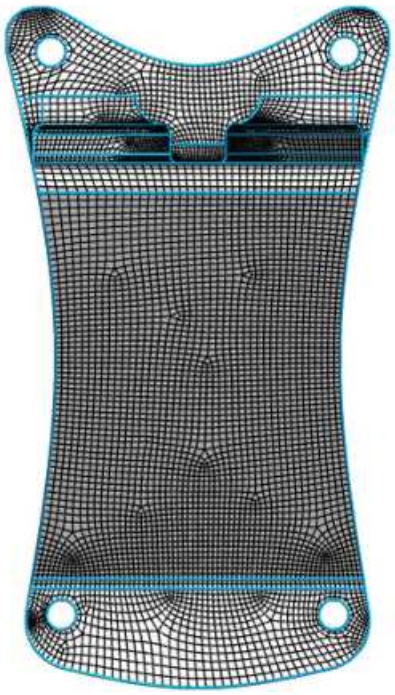
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0140436	0.579354	1.28675	0.00985122	0.944924	0.987277
Quasi-structured	0.0147697	0.556704	2.57498	0.105639	0.950699	0.98926







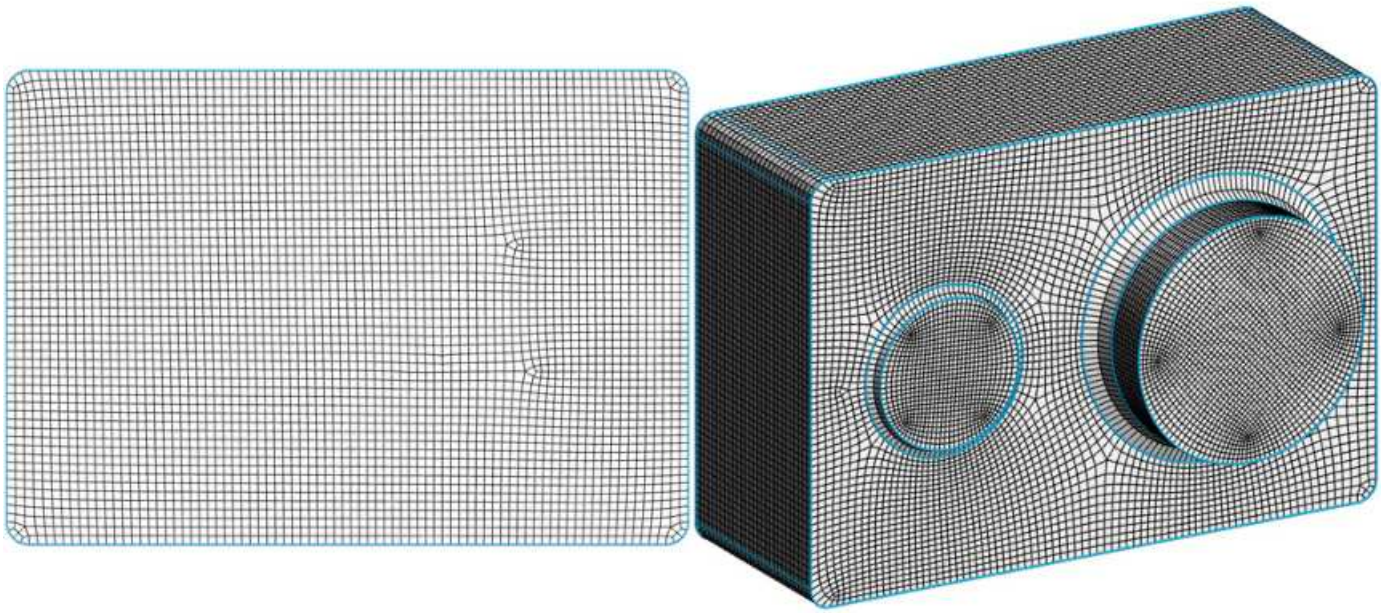


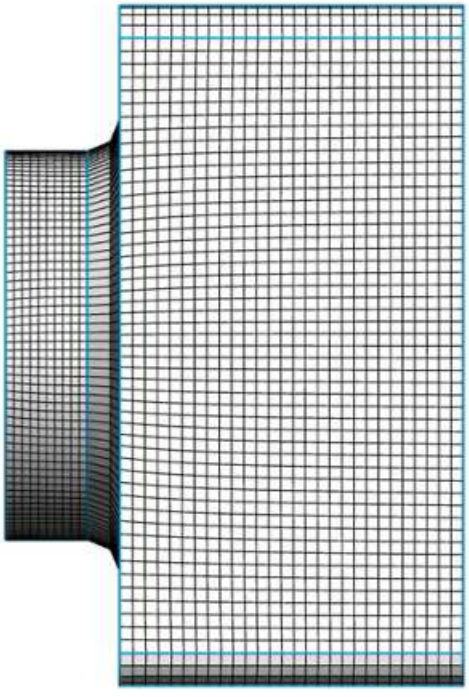
Model: 00005380 (from ABC dataset)
CAD: 21 corners, 32 curves, 15 faces
Cross field: 26 singularities detected
Timings: 12.8394 sec to generate the unstructured mesh, 2.70173 sec to make it quasi-structured
Mesh topology:

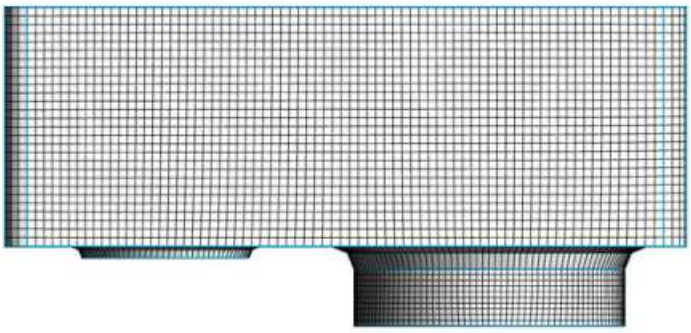
	# quads	# vertices	# irregular	# very irregular
Unstructured	19410	20750	186	22
Quasi-structured	19724	21064	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.183628	0.705169	1.67718	0.355088	0.982013	0.998417
Quasi-structured	0.192057	0.69794	1.79496	0.630893	0.988349	0.998559





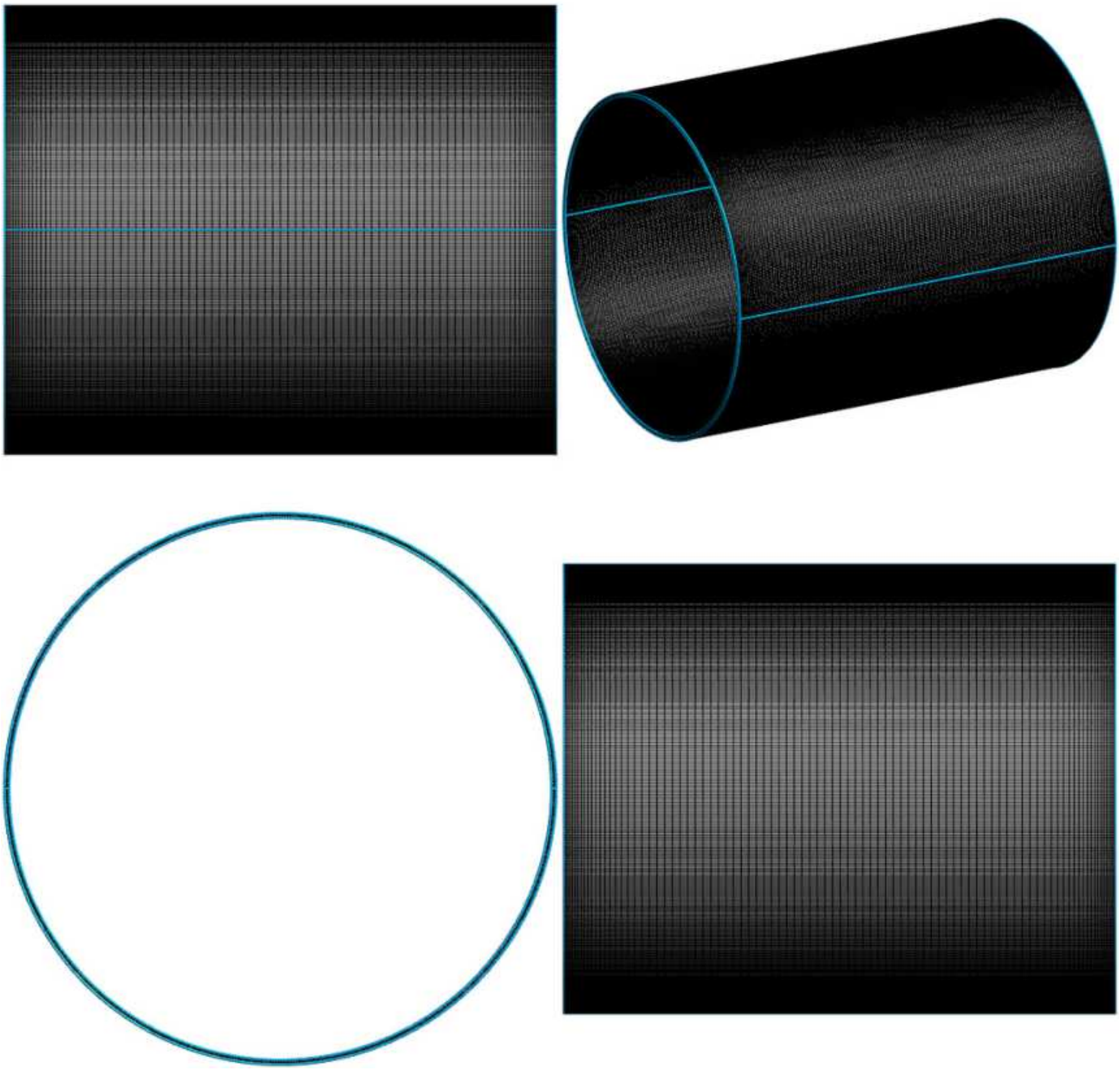


Model: 00005387 (from ABC dataset)
CAD: 8 corners, 16 curves, 8 faces
Cross field: 0 singularities detected
Timings: 75.9226 sec to generate the unstructured mesh, 13.0938 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	133952	137240	0	0
Quasi-structured	133952	137240	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.437185	0.916195	1.76902	0.46601	0.613938	0.48099
Quasi-structured	0.437185	0.916195	1.76902	0.46601	0.61394	0.48099

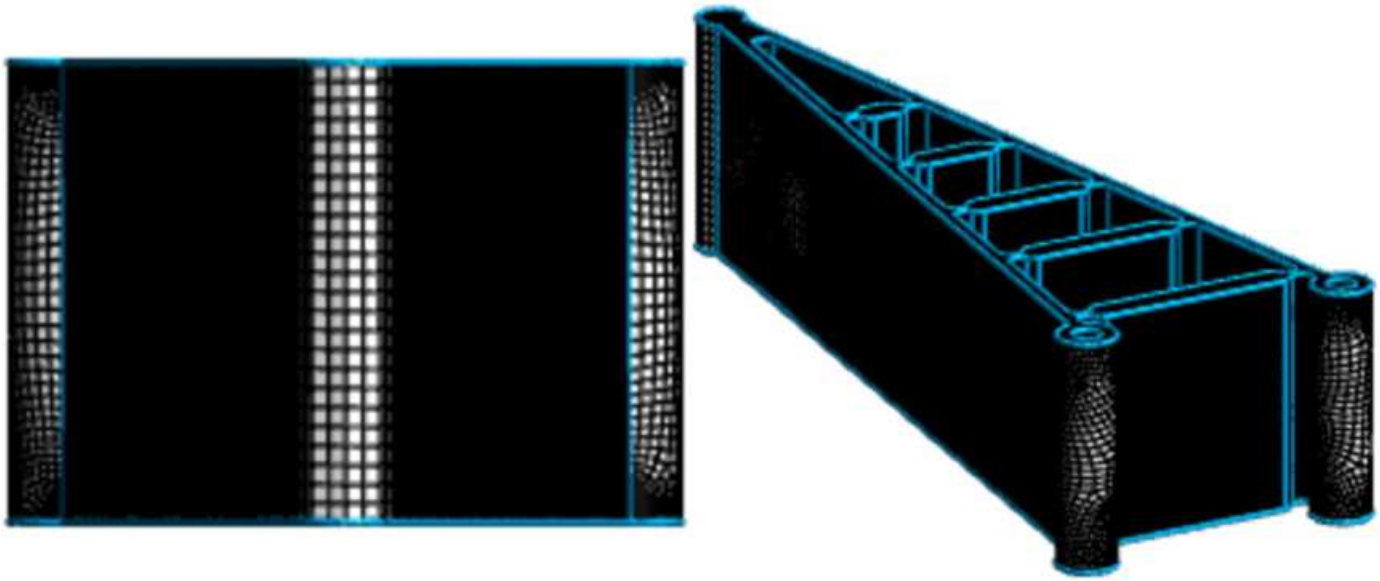


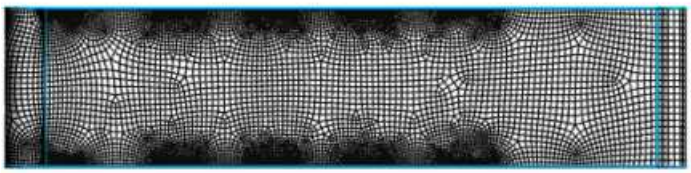
Model: 00005405 (from ABC dataset)
CAD: 180 corners, 270 curves, 92 faces
Cross field: 97 singularities detected
Timings: 25.1241 sec to generate the unstructured mesh, 2273.03 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	476516	506050	14374	649
Quasi-structured	490639	520173	4804	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00507627	0.122303	1.20472	0.063062	0.672956	0.7373
Quasi-structured	0.00507627	0.119134	1.61486	0.104529	0.697889	0.827284





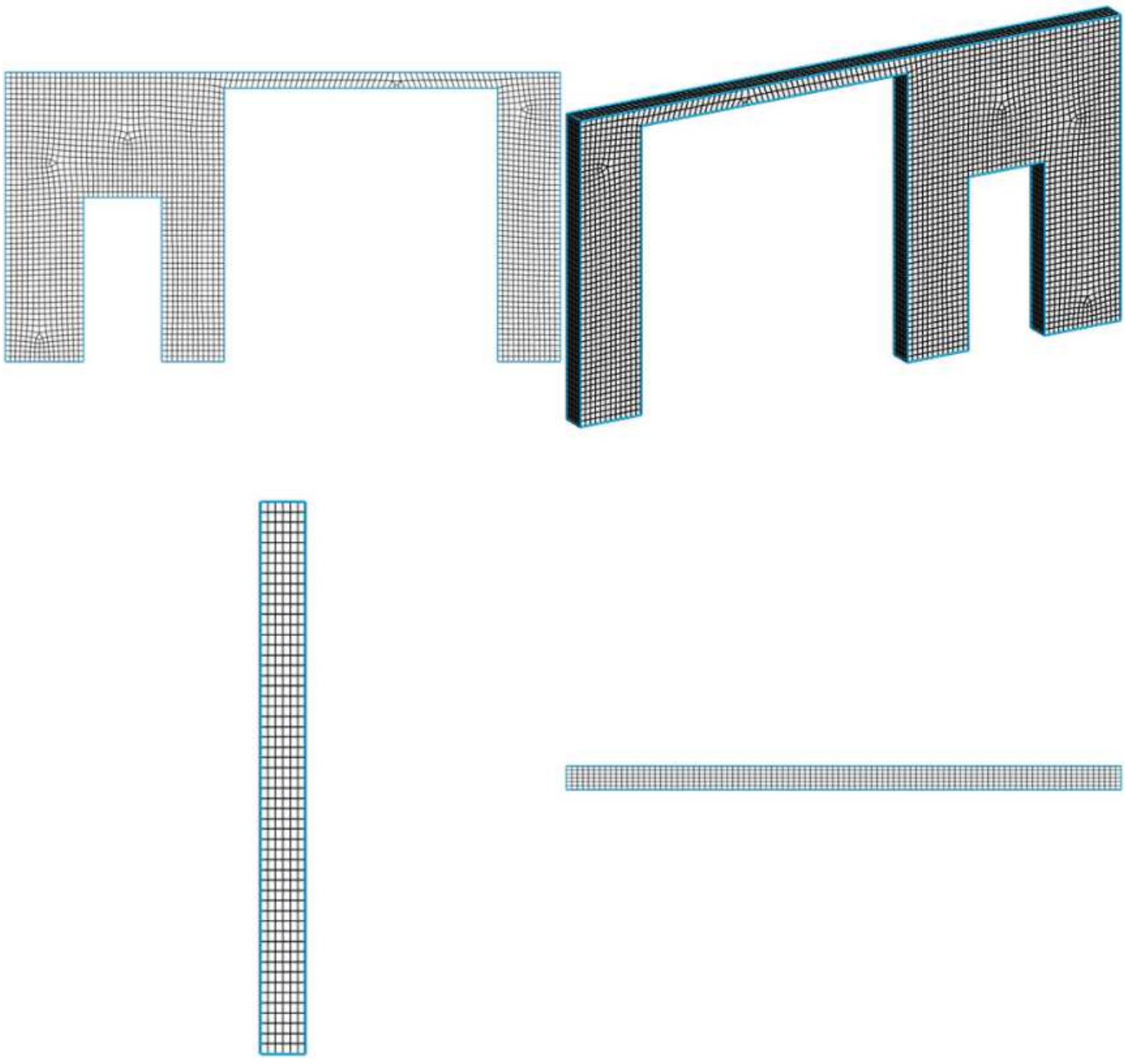


Model: 00005414 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 3.63952 sec to generate the unstructured mesh, 0.480227 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7742	8776	20	0
Quasi-structured	7742	8776	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	32.2596	66.1715	105.948	0.623608	0.970283	0.987821
Quasi-structured	38.4762	66.0795	110.128	0.740297	0.97571	0.993865

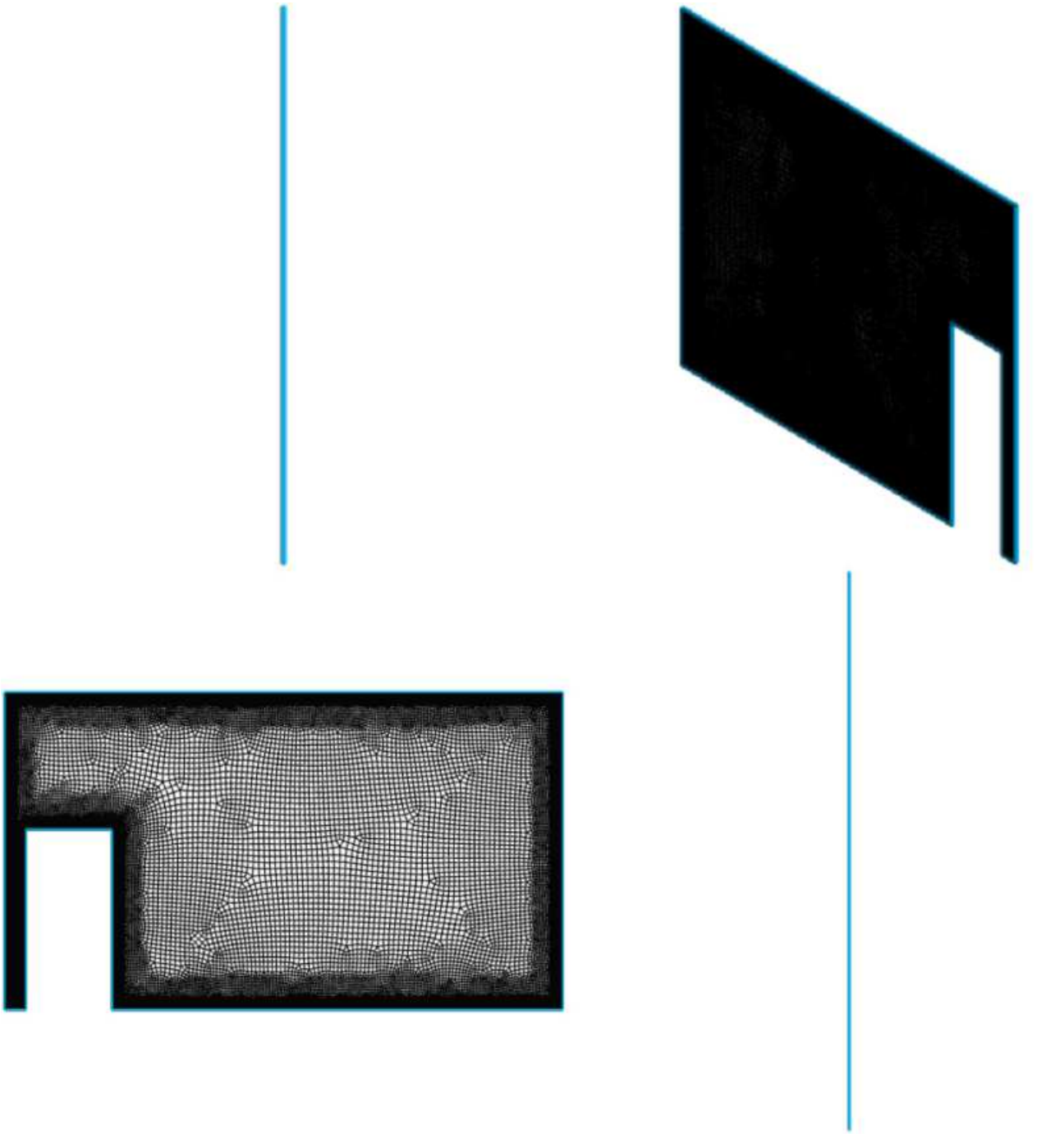


Model: 00005421 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 10.2484 sec to generate the unstructured mesh, 738.456 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	122048	130286	5315	621
Quasi-structured	126530	134768	4722	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.72744	13.9695	101.449	0.35583	0.936418	0.984354
Quasi-structured	2.30477	13.4048	94.6734	0.646472	0.969479	0.994978

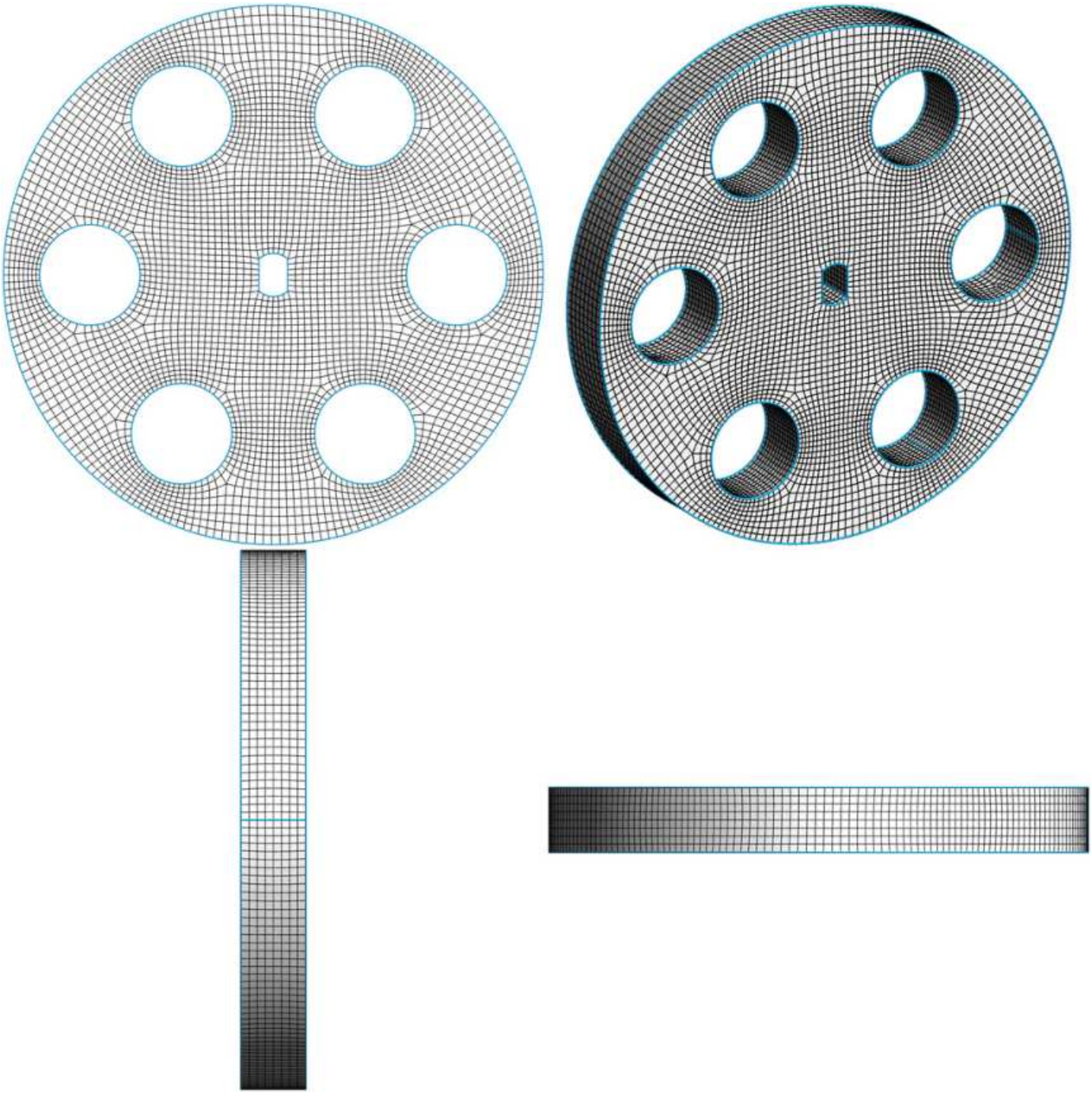


Model: 00005442 (from ABC dataset)
CAD: 28 corners, 39 curves, 13 faces
Cross field: 40 singularities detected
Timings: 12.0582 sec to generate the unstructured mesh, 1.97245 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13424	14620	320	90
Quasi-structured	13805	15001	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.254263	0.919531	1.95568	0.444146	0.965563	0.986995
Quasi-structured	0.450356	0.904637	1.9596	0.649871	0.983212	0.992156

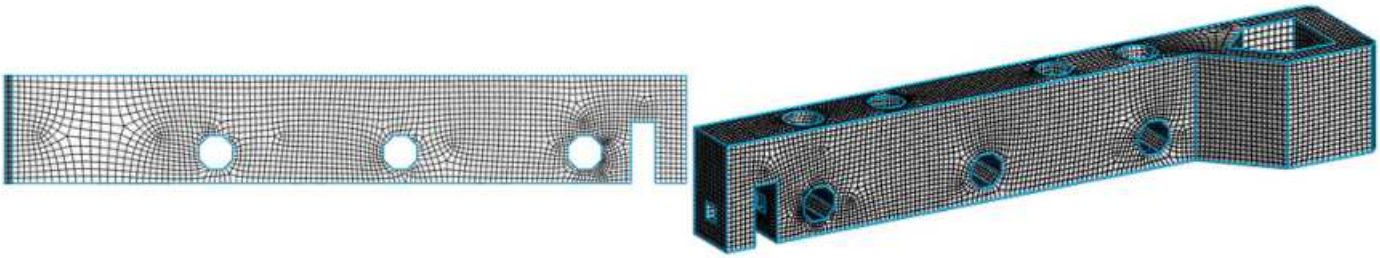


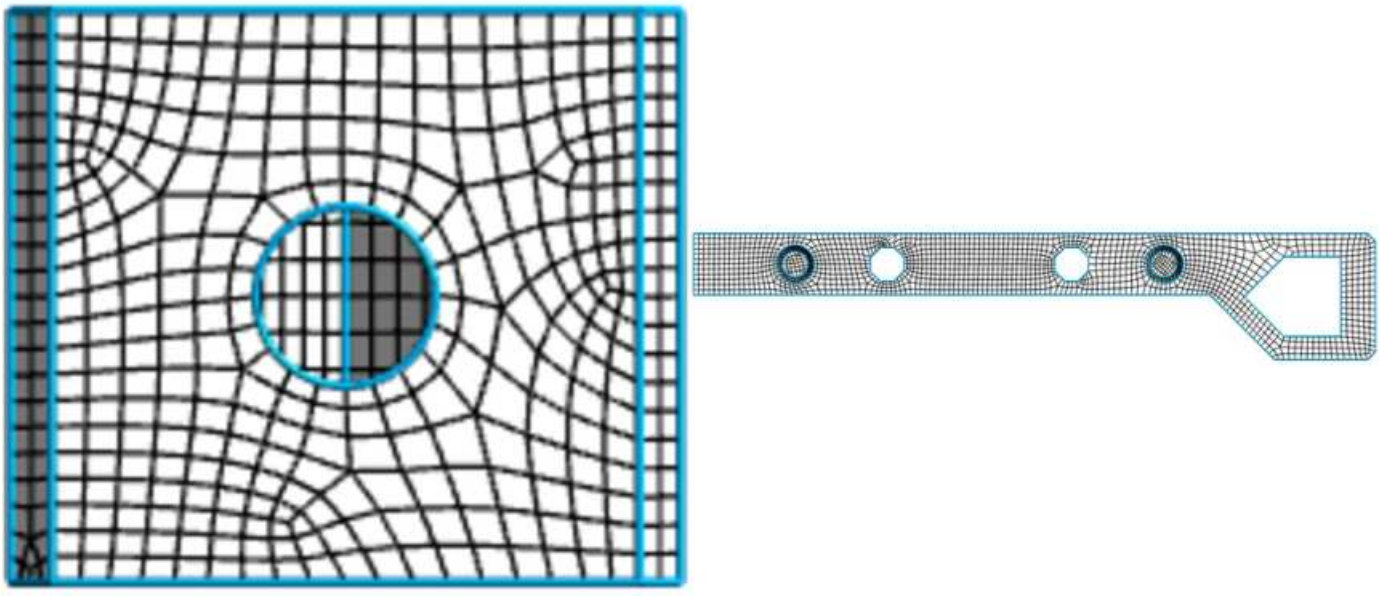
Model: 00005459 (from ABC dataset)
CAD: 152 corners, 228 curves, 80 faces
Cross field: 71 singularities detected
Timings: 8.5944 sec to generate the unstructured mesh, 6.72022 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15144	17801	637	26
Quasi-structured	15455	18112	260	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0299978	0.588212	1.40542	0.281721	0.941957	0.973883
Quasi-structured	0.0354821	0.580309	1.66517	0.385844	0.960868	0.98281



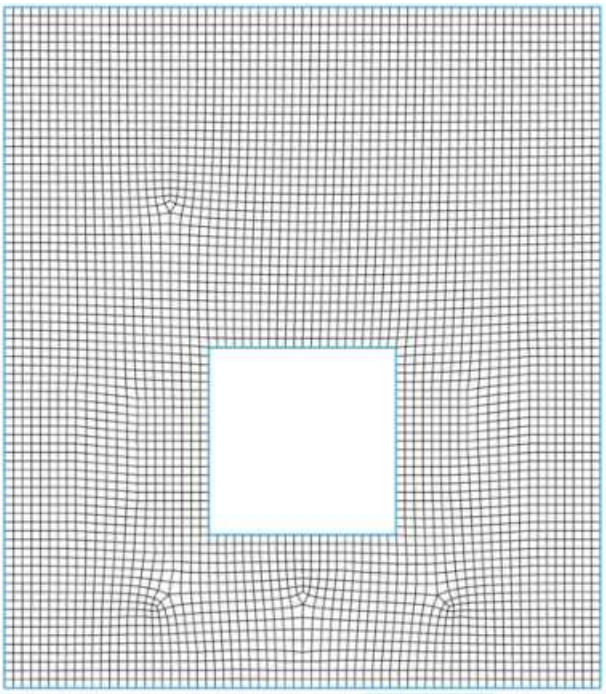


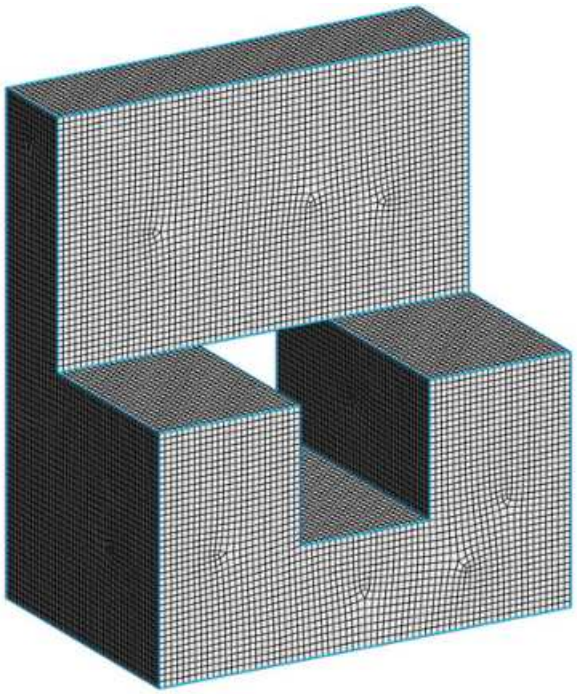
Model: 00005471 (from ABC dataset)
CAD: 22 corners, 34 curves, 13 faces
Cross field: 0 singularities detected
Timings: 9.69634 sec to generate the unstructured mesh, 1.71241 sec to make it quasi-structured
Mesh topology:

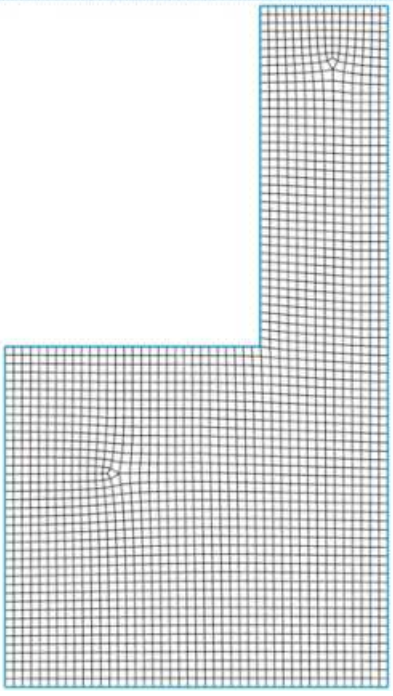
	# quads	# vertices	# irregular	# very irregular
Unstructured	22942	24174	70	3
Quasi-structured	22940	24172	34	0

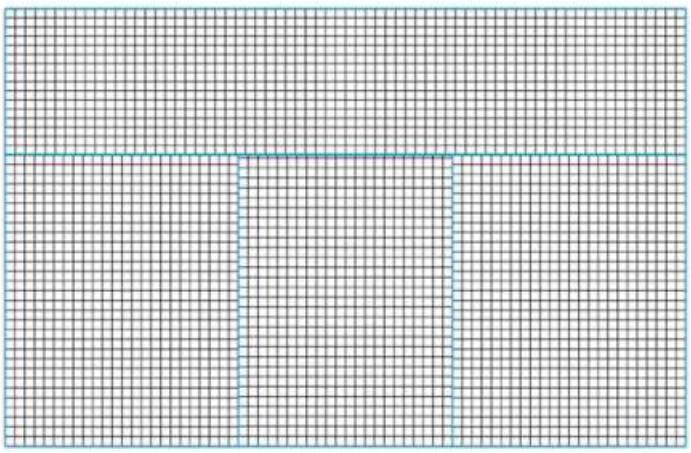
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0826794	0.204713	0.346704	0.536775	0.992653	0.999509
Quasi-structured	0.118973	0.204428	0.310777	0.836307	0.998117	0.999707







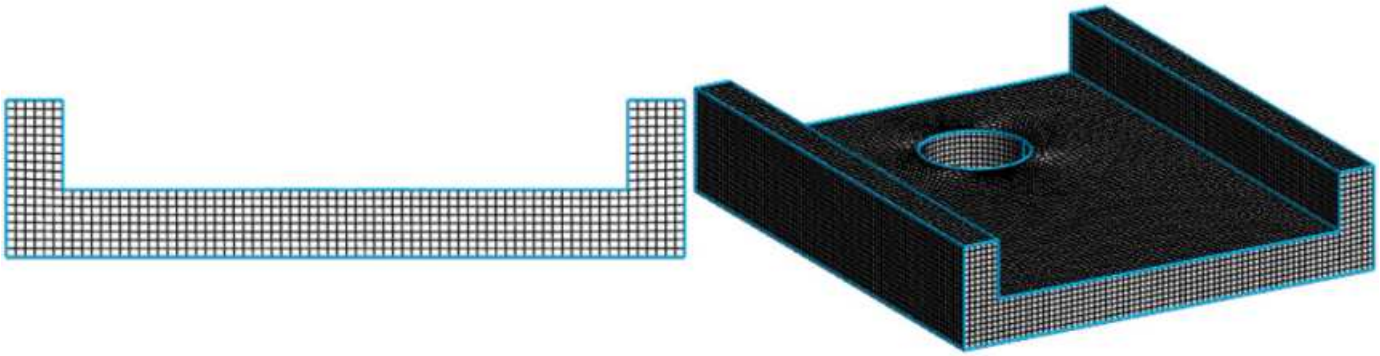


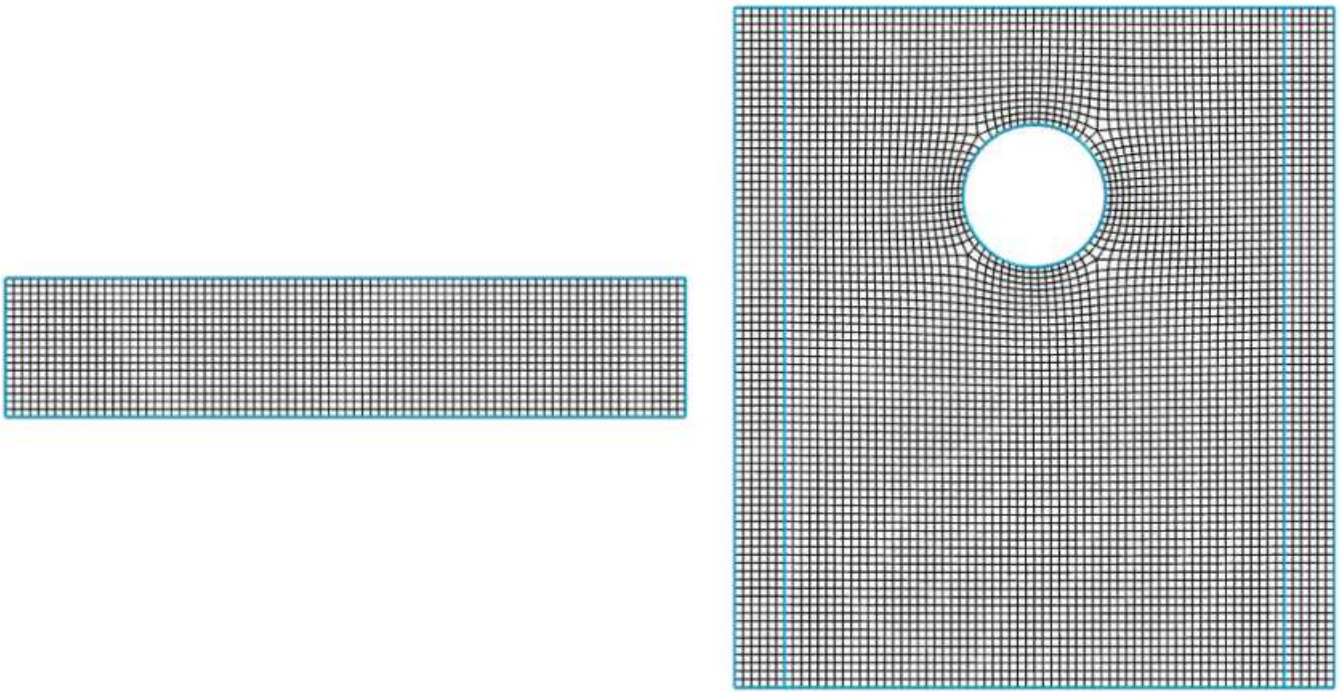
Model: 00005496 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 8 singularities detected
Timings: 13.1365 sec to generate the unstructured mesh, 1.82489 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17738	18926	92	9
Quasi-structured	17916	19104	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.133308	0.41429	0.649174	0.559805	0.989704	0.999029
Quasi-structured	0.259662	0.411686	0.748045	0.817505	0.997476	0.999043



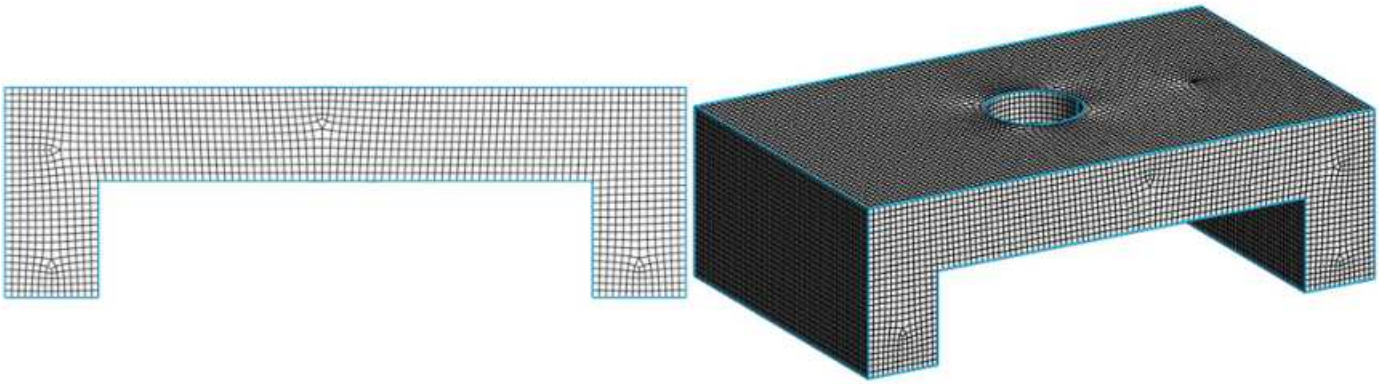


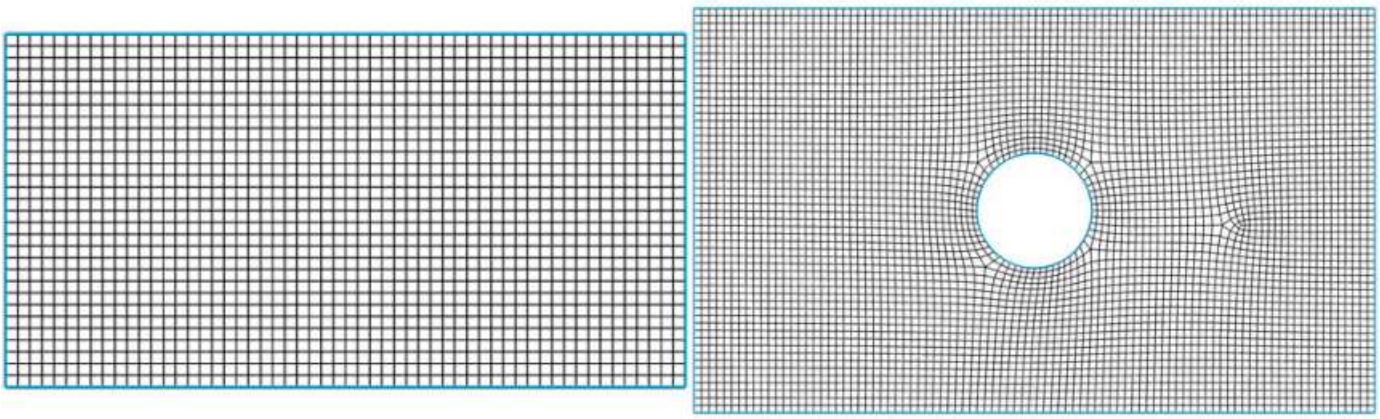
Model: 00005498 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 8 singularities detected
Timings: 12.9278 sec to generate the unstructured mesh, 1.99408 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18420	19532	102	16
Quasi-structured	18702	19814	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0889695	0.236971	0.383482	0.577523	0.990302	0.999519
Quasi-structured	0.12322	0.234885	0.421094	0.708149	0.996488	0.999489





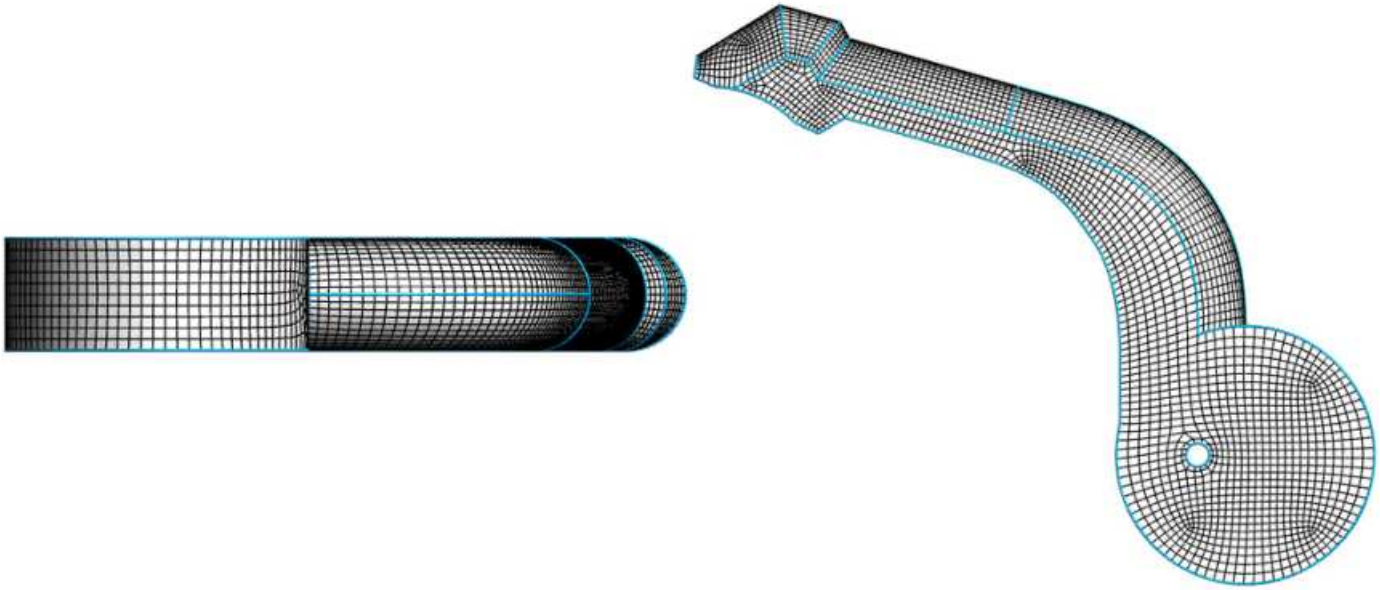
Model: 00005542 (from ABC dataset)
CAD: 32 corners, 48 curves, 18 faces
Cross field: 24 singularities detected
Timings: 6.46778 sec to generate the unstructured mesh, 1.83861 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7982	8883	188	24
Quasi-structured	8025	8926	60	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.161005	1.02515	2.01929	0.0340754	0.953175	0.985429
Quasi-structured	0.0919928	1.0177	2.44929	0.0502792	0.969838	0.990177



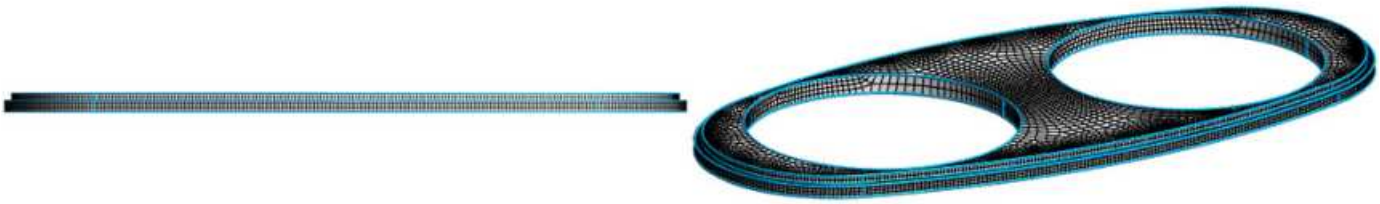


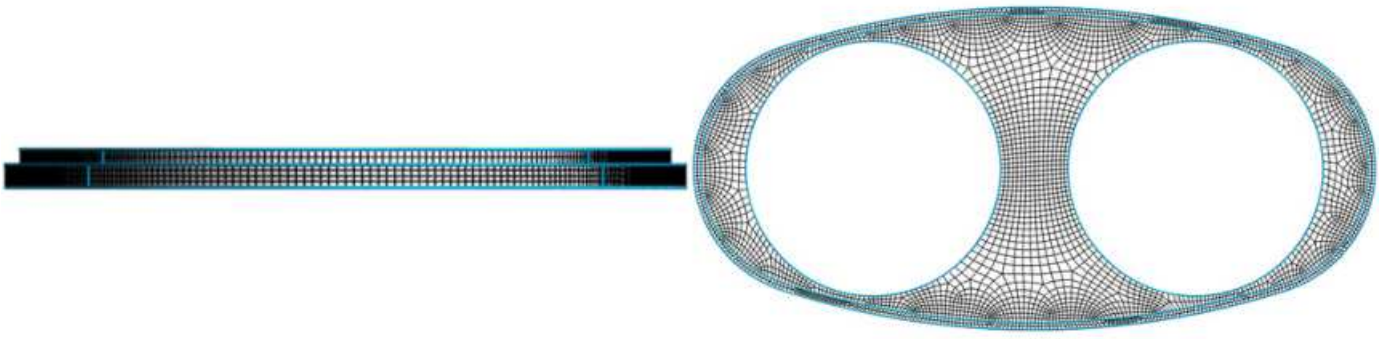
Model: 00005545 (from ABC dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 8 singularities detected
Timings: 3.67015 sec to generate the unstructured mesh, 16.3295 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10244	12616	514	44
Quasi-structured	10150	12522	260	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.380744	1.24645	3.54614	0.39838	0.931243	0.960163
Quasi-structured	0.295922	1.24818	3.96972	0.420573	0.943077	0.965456



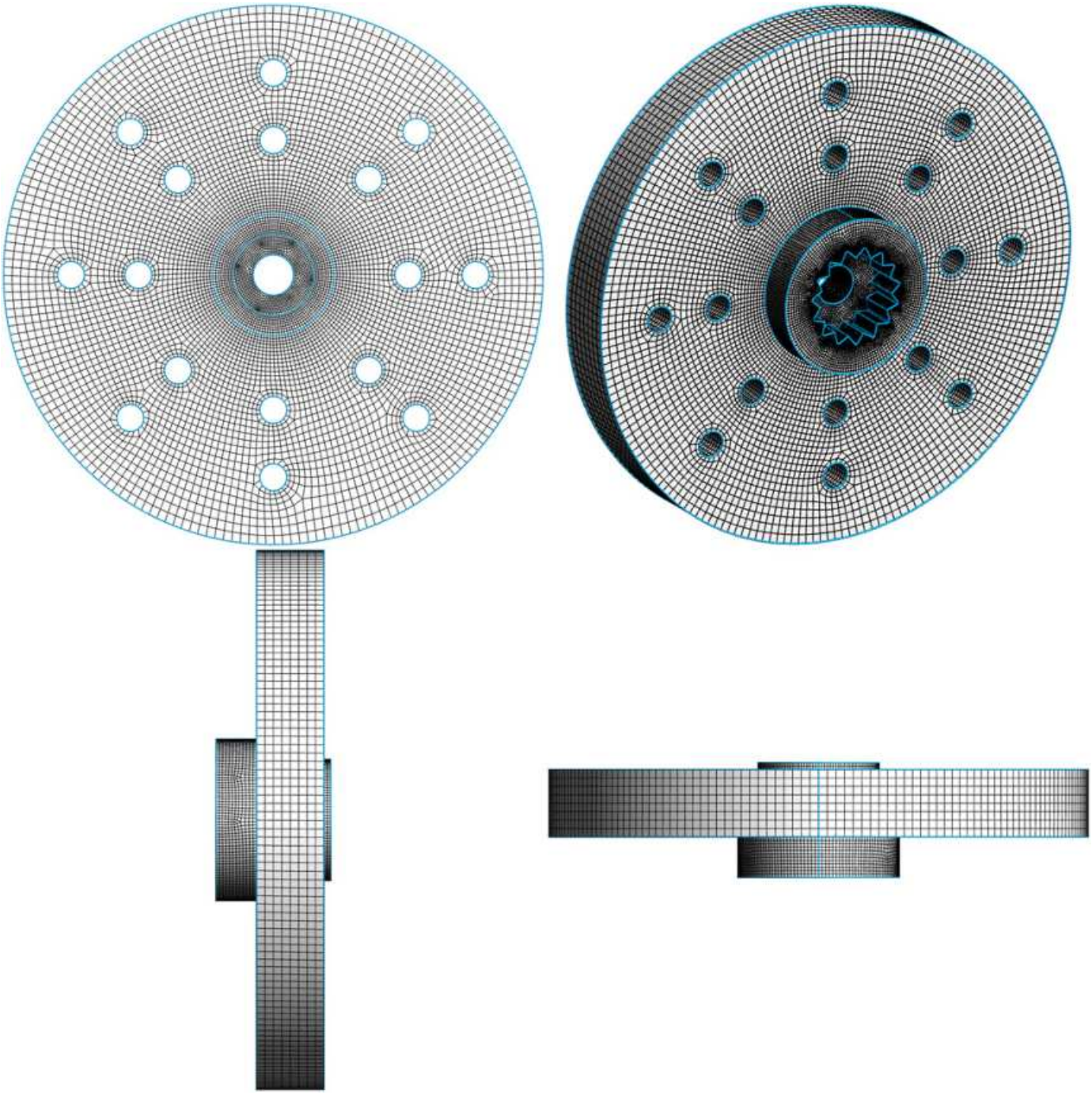


Model: 00005552 (from ABC dataset)
CAD: 147 corners, 213 curves, 72 faces
Cross field: 166 singularities detected
Timings: 22.1995 sec to generate the unstructured mesh, 10.3594 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	39124	43227	1697	355
Quasi-structured	39271	43374	420	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0256494	0.265037	0.845784	0.353002	0.954274	0.988812
Quasi-structured	0.0244951	0.263842	0.959083	0.189549	0.968411	0.993017

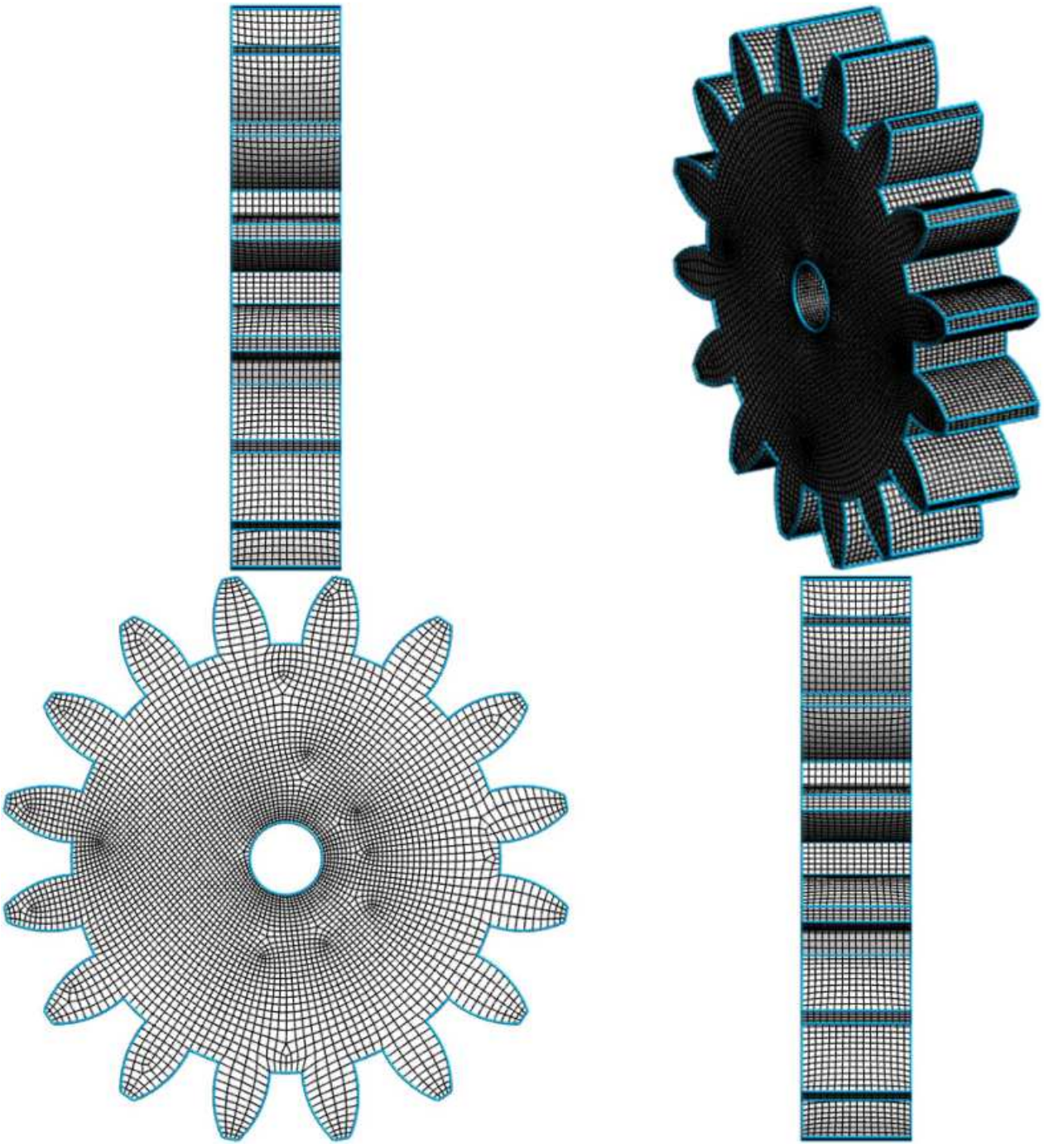


Model: 00005553 (from ABC dataset)
CAD: 131 corners, 196 curves, 67 faces
Cross field: 10 singularities detected
Timings: 20.4927 sec to generate the unstructured mesh, 6.50797 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19536	21736	260	35
Quasi-structured	18862	21062	84	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0768924	0.336486	0.611427	0.508212	0.960558	0.979102
Quasi-structured	0.101017	0.341629	0.940221	0.60508	0.975741	0.989952

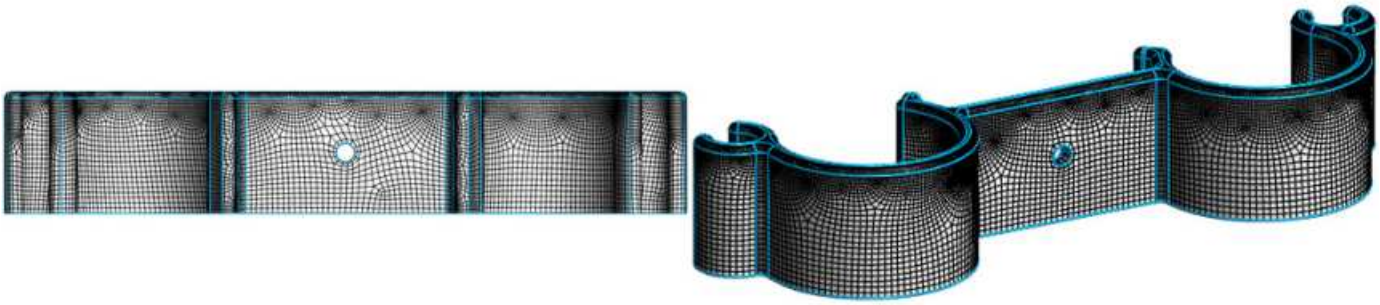


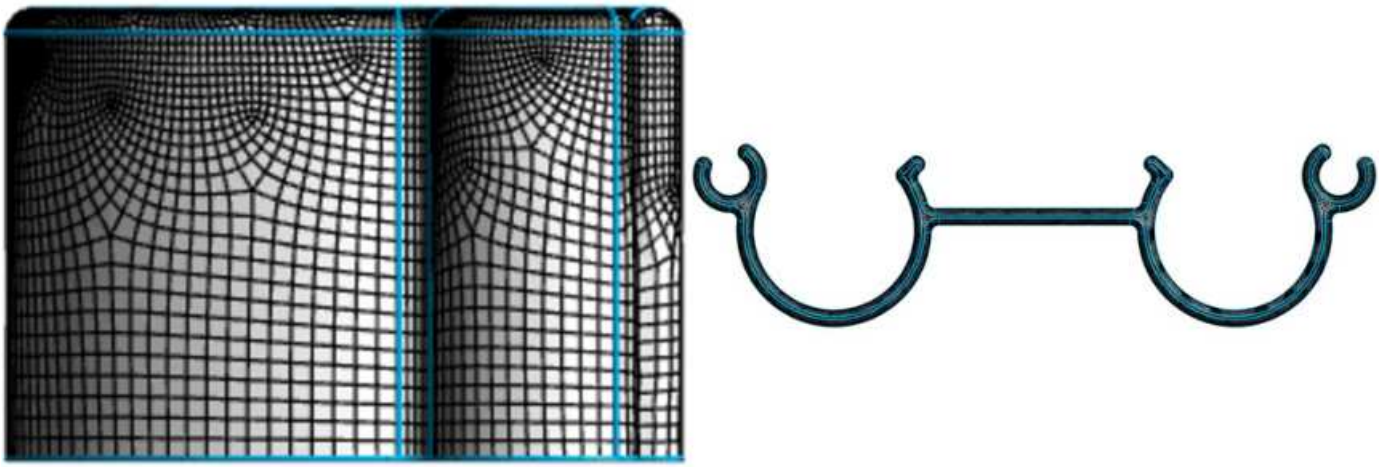
Model: 00005559 (from ABC dataset)
CAD: 104 corners, 173 curves, 71 faces
Cross field: 88 singularities detected
Timings: 11.4463 sec to generate the unstructured mesh, 61.8963 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29158	33766	1526	69
Quasi-structured	31539	36147	522	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.025309	0.490933	1.50914	0.0588644	0.916513	0.973321
Quasi-structured	0.0510429	0.472513	1.81963	0.191496	0.936857	0.975398



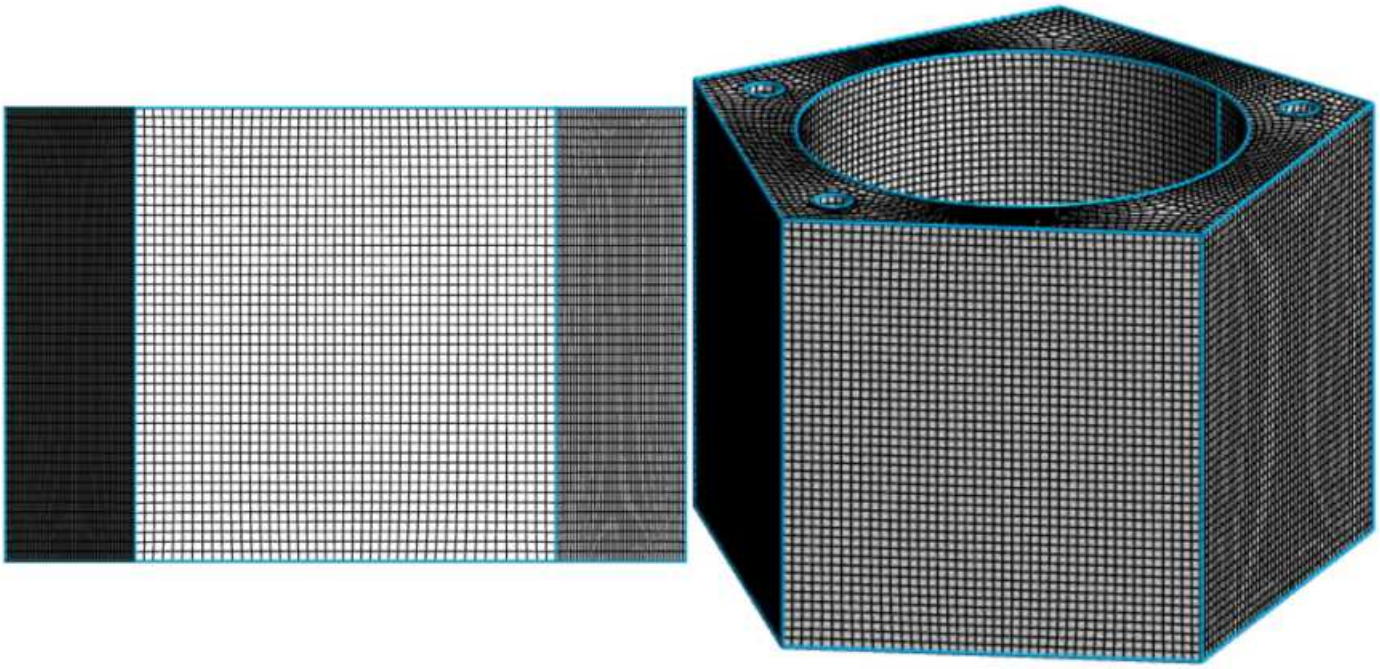


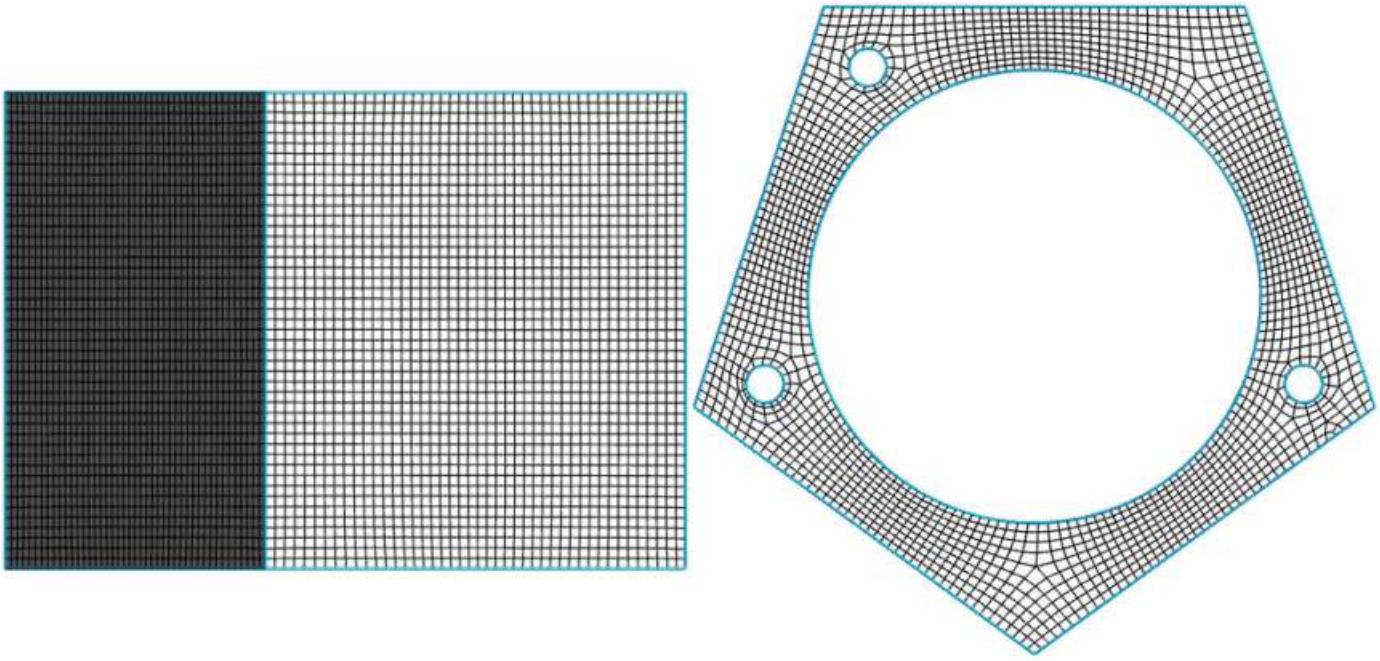
Model: 00005562 (from ABC dataset)
CAD: 21 corners, 30 curves, 11 faces
Cross field: 34 singularities detected
Timings: 11.4398 sec to generate the unstructured mesh, 1.61279 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23590	24669	175	208
Quasi-structured	23977	25056	42	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.222371	0.738481	1.40363	0.173539	0.98772	0.998059
Quasi-structured	0.323939	0.731553	1.86157	0.558611	0.99285	0.999344



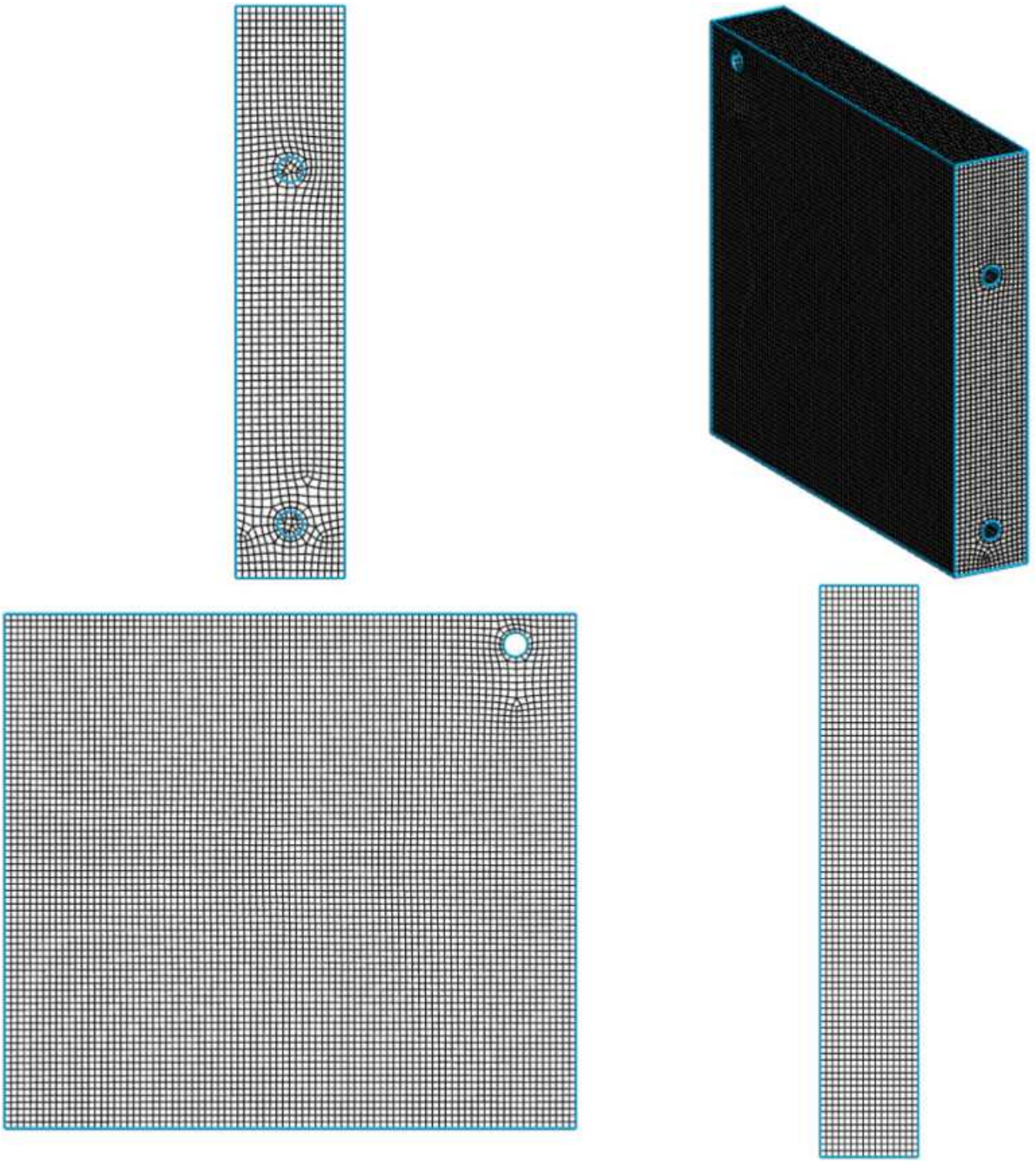


Model: 00005572 (from ABC dataset)
CAD: 18 corners, 27 curves, 15 faces
Cross field: 40 singularities detected
Timings: 14.6783 sec to generate the unstructured mesh, 3.793 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20410	21294	117	103
Quasi-structured	20460	21344	70	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.266187	0.782519	1.33471	0.377677	0.990498	0.999758
Quasi-structured	0.237907	0.780435	1.24402	0.623081	0.996027	0.999765

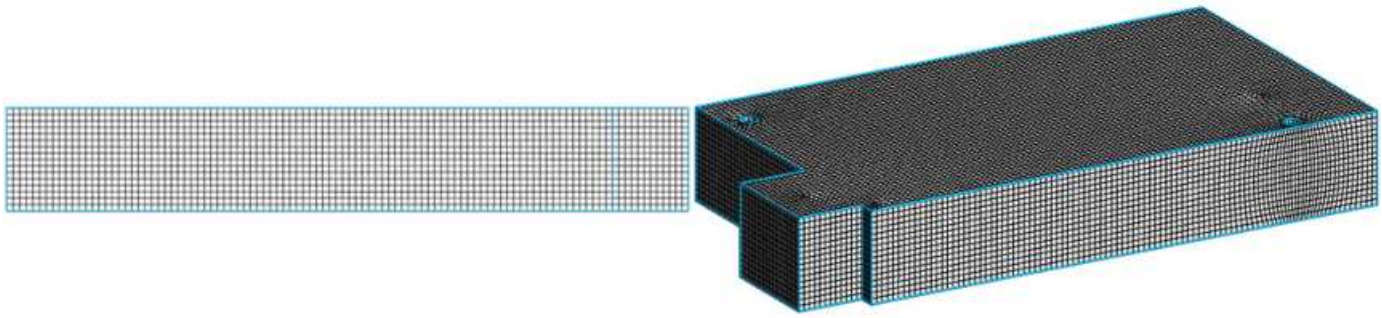


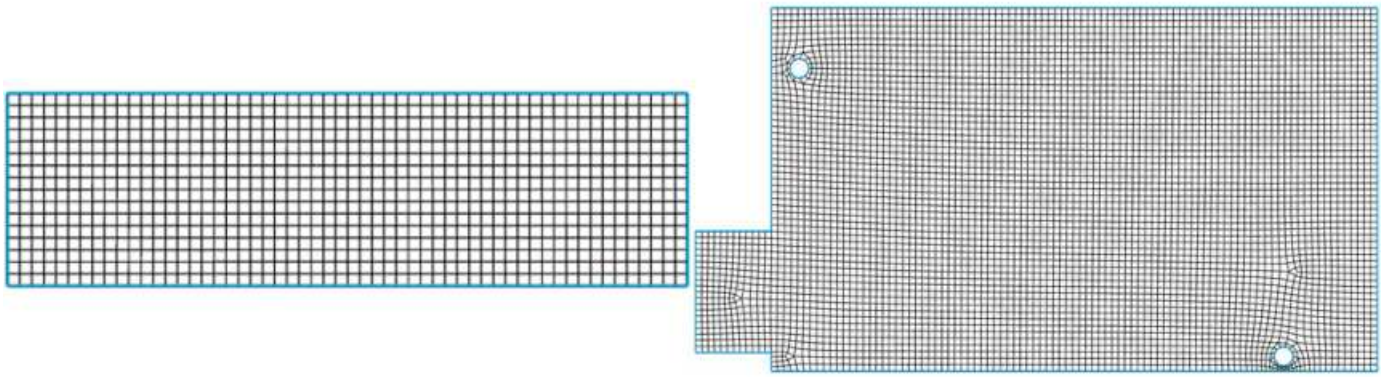
Model: 00005597 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 16 singularities detected
Timings: 12.4353 sec to generate the unstructured mesh, 2.56898 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16468	17318	82	45
Quasi-structured	16894	17744	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.203593	1.0801	1.71101	0.0830921	0.990055	0.999794
Quasi-structured	0.298043	1.06613	1.77181	0.559753	0.99435	0.999638



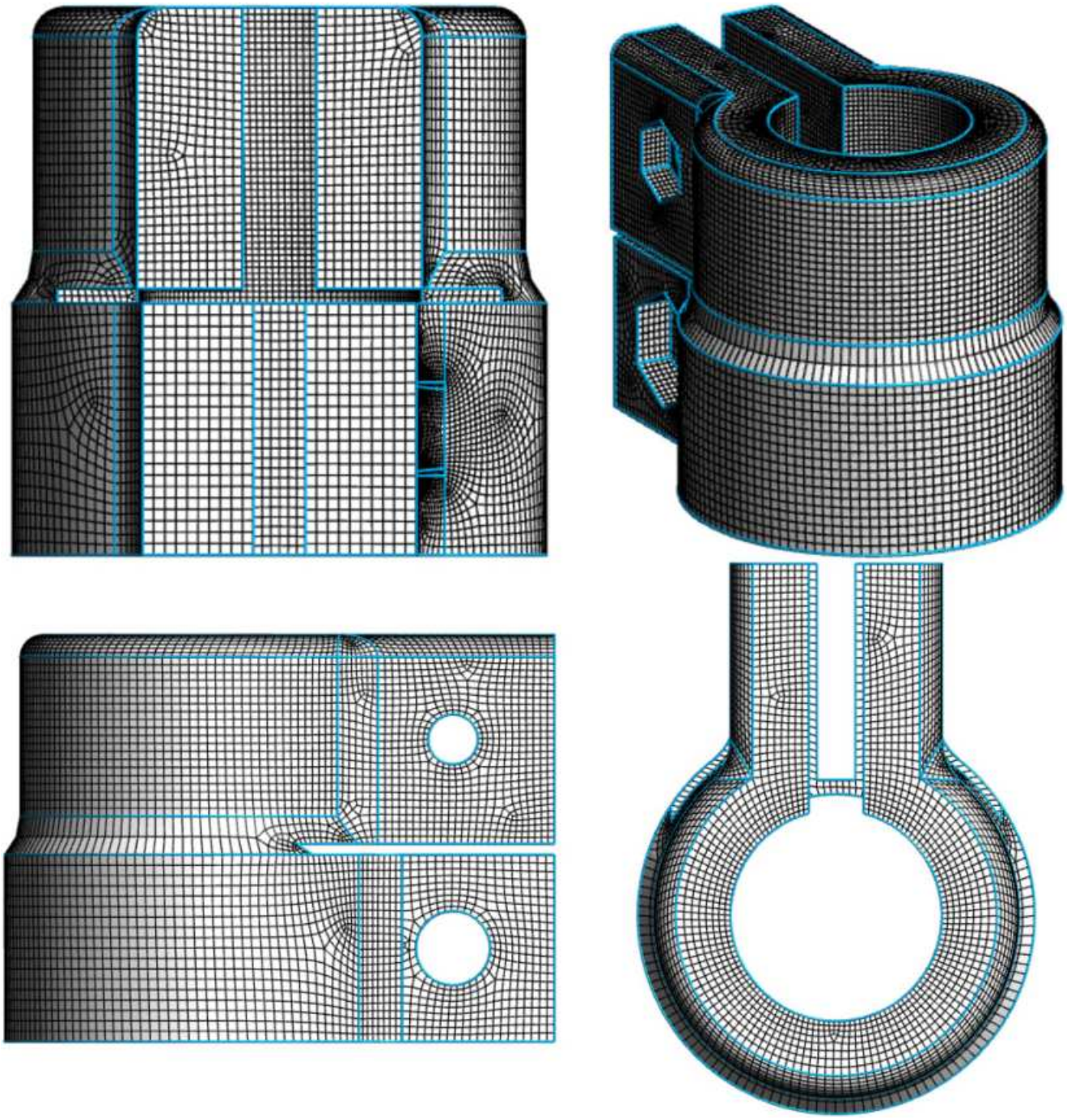


Model: 00005613 (from ABC dataset)
CAD: 102 corners, 161 curves, 59 faces
Cross field: 60 singularities detected
Timings: 20.643 sec to generate the unstructured mesh, 6.29788 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32084	35304	721	93
Quasi-structured	32421	35641	213	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0485528	0.593032	2.08047	0.194404	0.960082	0.995174
Quasi-structured	0.0422258	0.588444	2.01594	0.420764	0.971885	0.996438

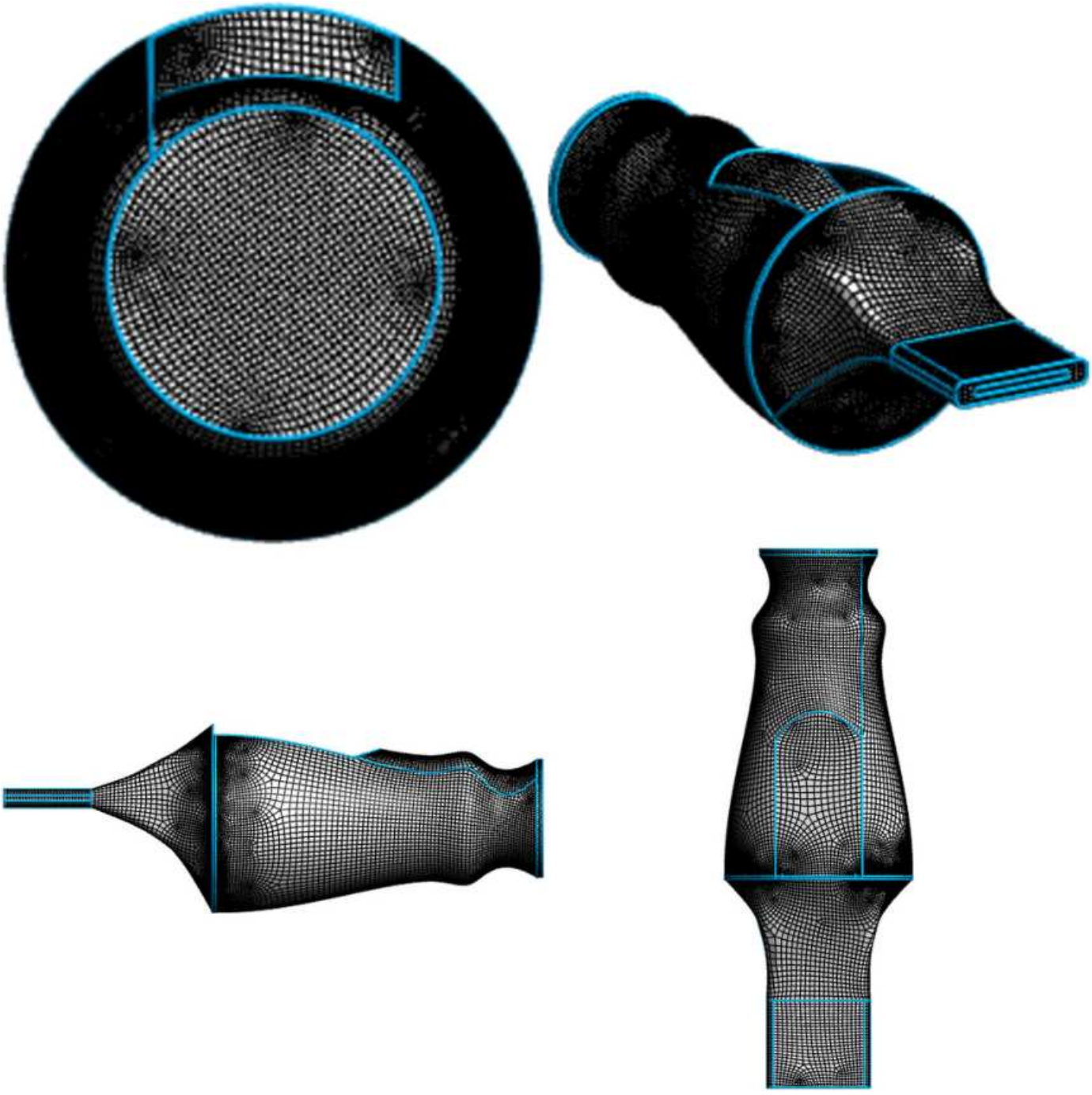


Model: 00005626 (from ABC dataset)
CAD: 54 corners, 83 curves, 30 faces
Cross field: 23 singularities detected
Timings: 33.7524 sec to generate the unstructured mesh, 123.558 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32884	35369	1488	167
Quasi-structured	33344	35829	377	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.027324	0.535231	2.15194	0.00796996	0.932424	0.970523
Quasi-structured	0.0223035	0.526085	2.30346	0.00796996	0.967898	0.987731

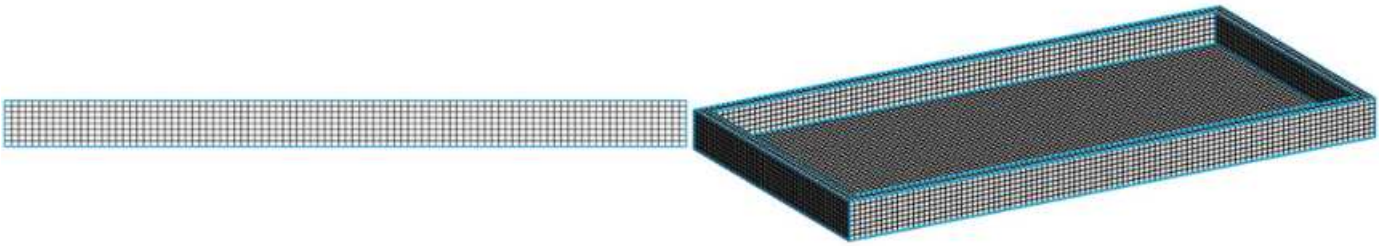


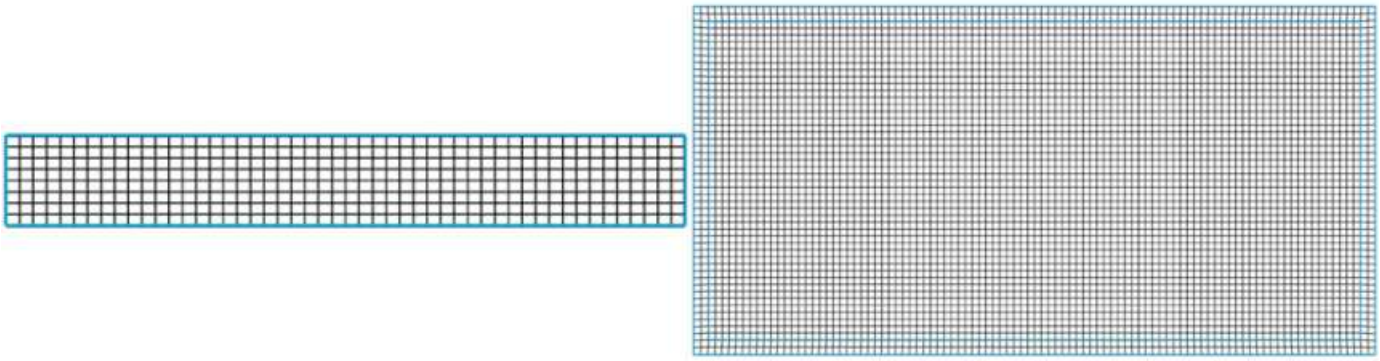
Model: 00005643 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 9.27641 sec to generate the unstructured mesh, 0.64274 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13870	15088	11	0
Quasi-structured	13848	15066	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.31751	1.16654	1.27597	0.256647	0.995094	0.999999
Quasi-structured	0.992187	1.16739	1.28419	0.983131	0.996211	0.999999



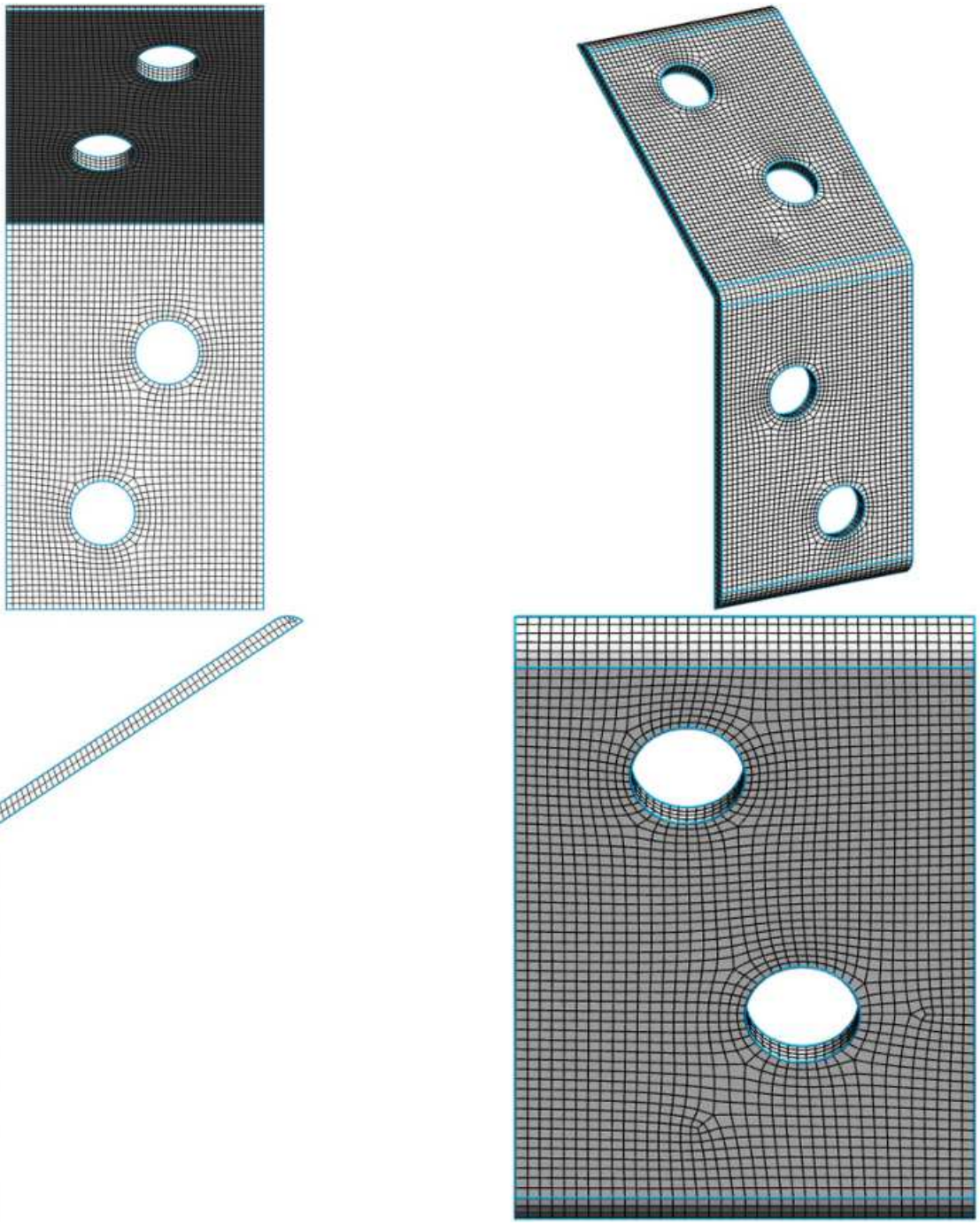


Model: 00005661 (from ABC dataset)
CAD: 26 corners, 37 curves, 13 faces
Cross field: 38 singularities detected
Timings: 5.75565 sec to generate the unstructured mesh, 0.862474 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9910	10979	216	18
Quasi-structured	10170	11239	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.180808	0.640595	1.20605	0.190481	0.967958	0.988209
Quasi-structured	0.22983	0.630513	1.16723	0.243234	0.983531	0.995875

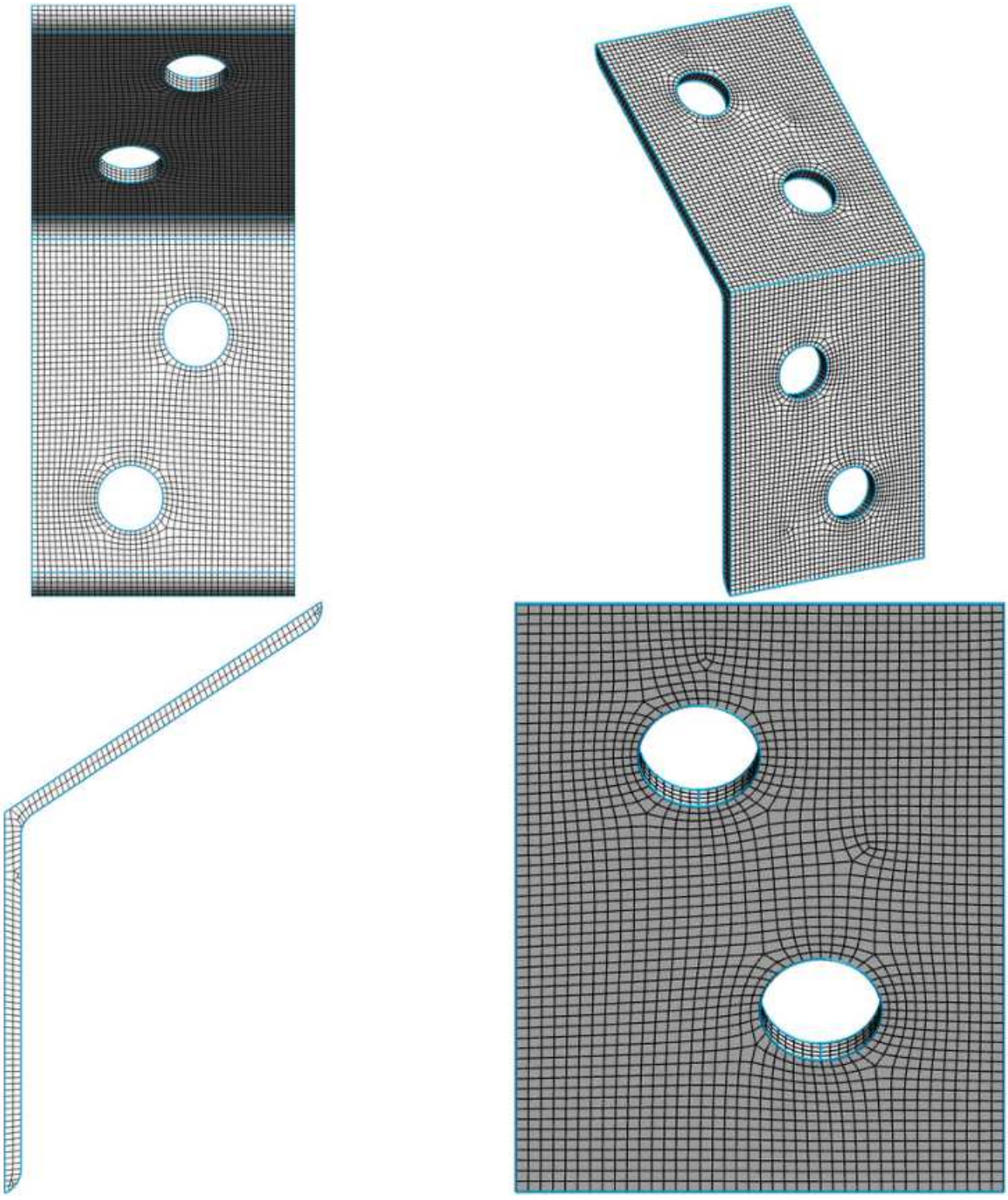


Model: 00005662 (from ABC dataset)
CAD: 26 corners, 37 curves, 13 faces
Cross field: 38 singularities detected
Timings: 8.67944 sec to generate the unstructured mesh, 1.46548 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10378	11475	275	18
Quasi-structured	10632	11729	64	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.188669	0.608823	1.10808	0.189445	0.961737	0.988672
Quasi-structured	0.221402	0.599003	1.14653	0.600511	0.982882	0.995645

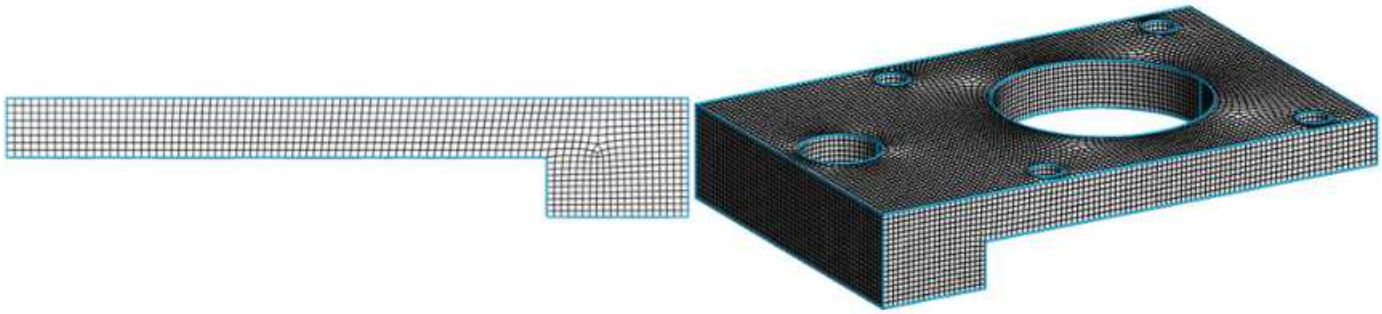


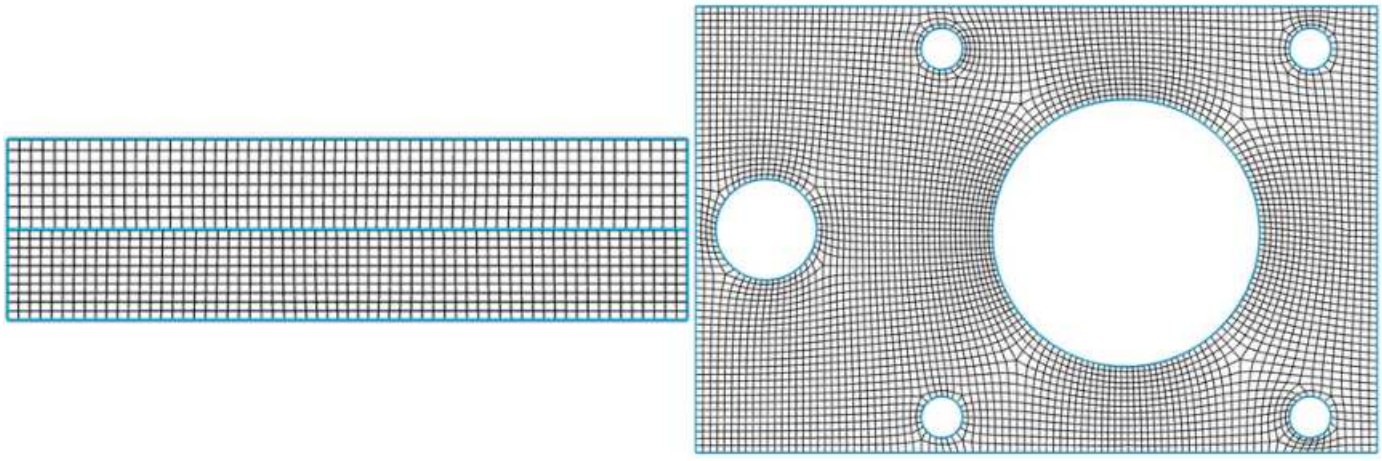
Model: 00005689 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 48 singularities detected
Timings: 12.487 sec to generate the unstructured mesh, 1.3415 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16420	17784	284	78
Quasi-structured	16637	18001	54	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.156766	0.583653	1.11737	0.375988	0.976345	0.995635
Quasi-structured	0.294655	0.579034	1.2512	0.621737	0.986671	0.995721



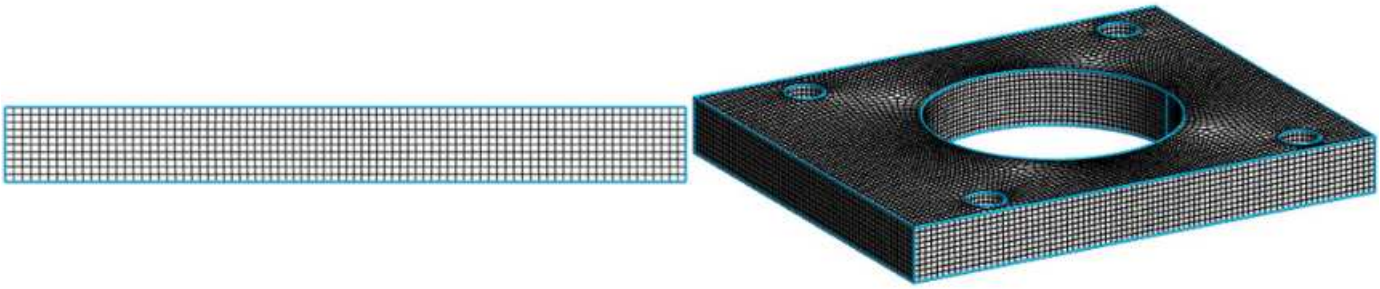


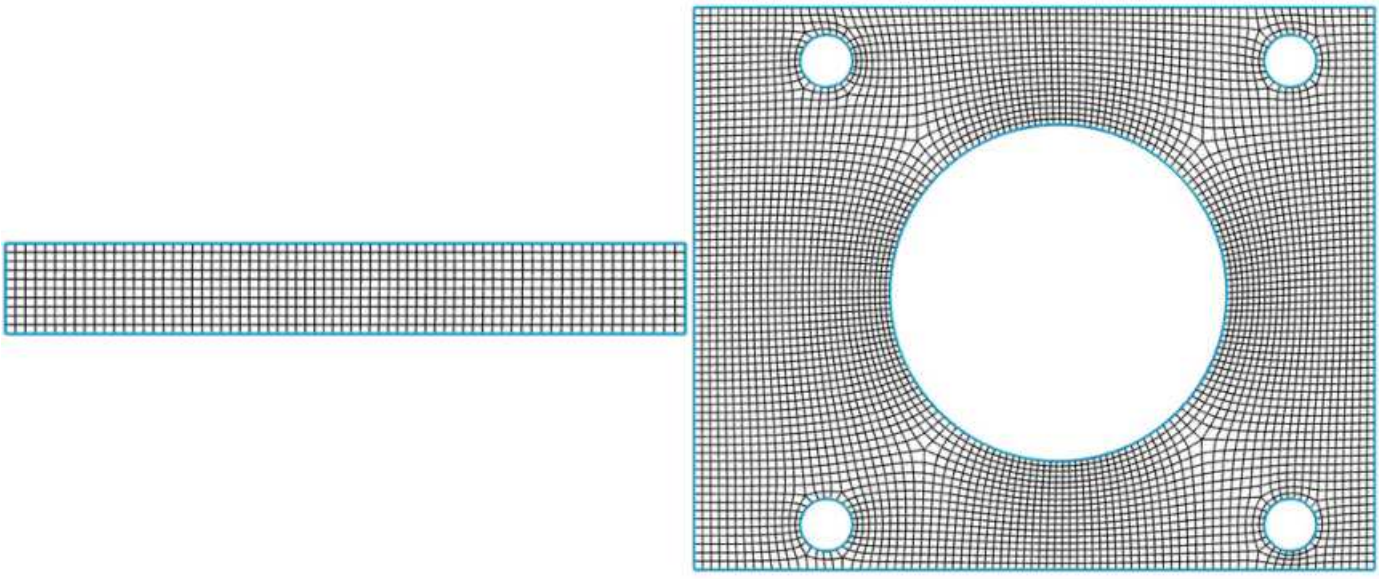
Model: 00005690 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 40 singularities detected
Timings: 11.336 sec to generate the unstructured mesh, 1.6875 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15146	16314	204	59
Quasi-structured	15781	16949	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.167587	0.509197	0.96225	0.345867	0.981987	0.997037
Quasi-structured	0.273748	0.497729	1.06537	0.715009	0.990738	0.995765



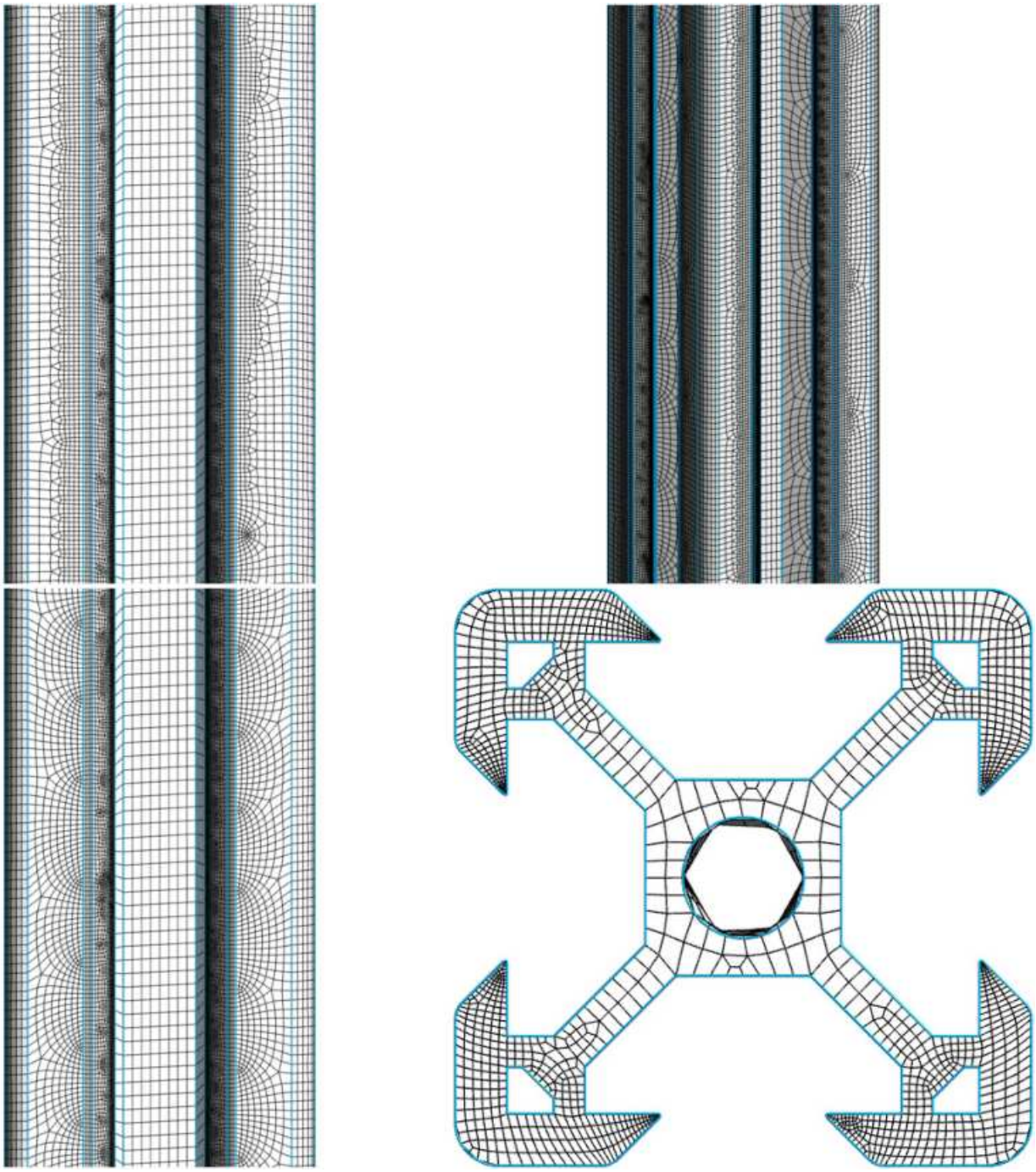


Model: 00005691 (from ABC dataset)
CAD: 170 corners, 255 curves, 87 faces
Cross field: 52 singularities detected
Timings: 32.6106 sec to generate the unstructured mesh, 7593.03 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	600292	677348	37915	1887
Quasi-structured	604685	681741	32969	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0213837	0.195388	1.24003	0.249443	0.920254	0.977786
Quasi-structured	0.0211666	0.19429	1.6791	0.18793	0.946636	0.988316

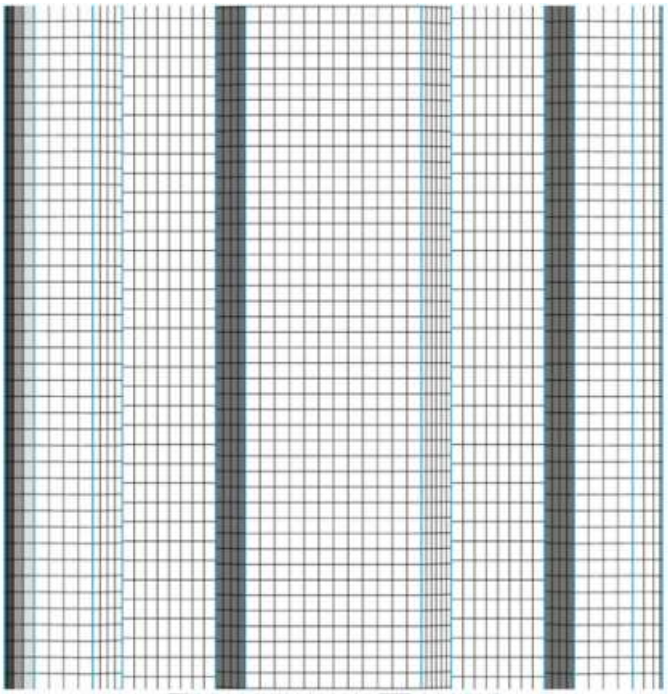


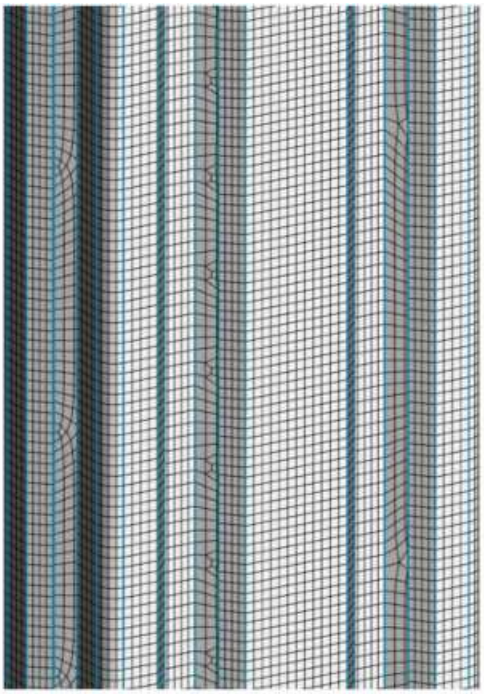
Model: 00005692 (from ABC dataset)
CAD: 164 corners, 246 curves, 84 faces
Cross field: 93 singularities detected
Timings: 20.9475 sec to generate the unstructured mesh, 218.375 sec to make it quasi-structured
Mesh topology:

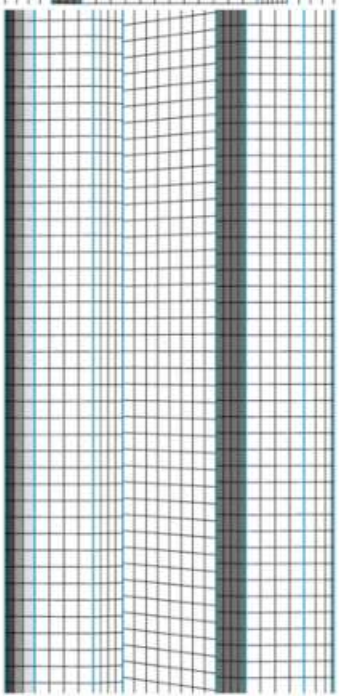
	# quads	# vertices	# irregular	# very irregular
Unstructured	157874	190808	1074	480
Quasi-structured	157982	190916	801	1

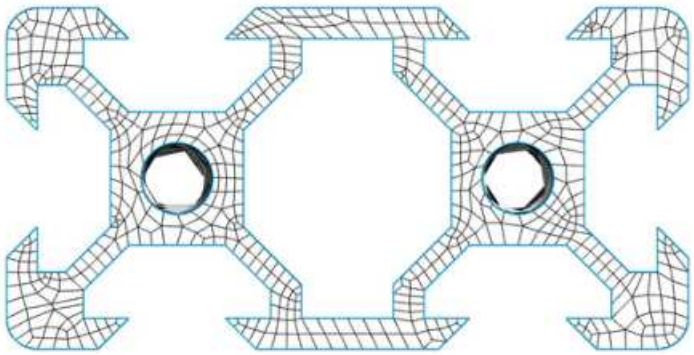
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.21044	0.874665	2.94184	0.119427	0.904893	0.920223
Quasi-structured	0.0953634	0.876947	3.13126	0.329388	0.900464	0.920293







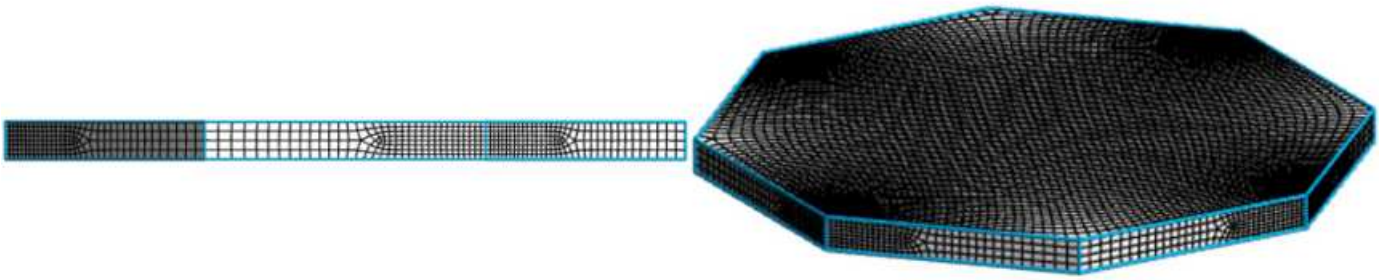


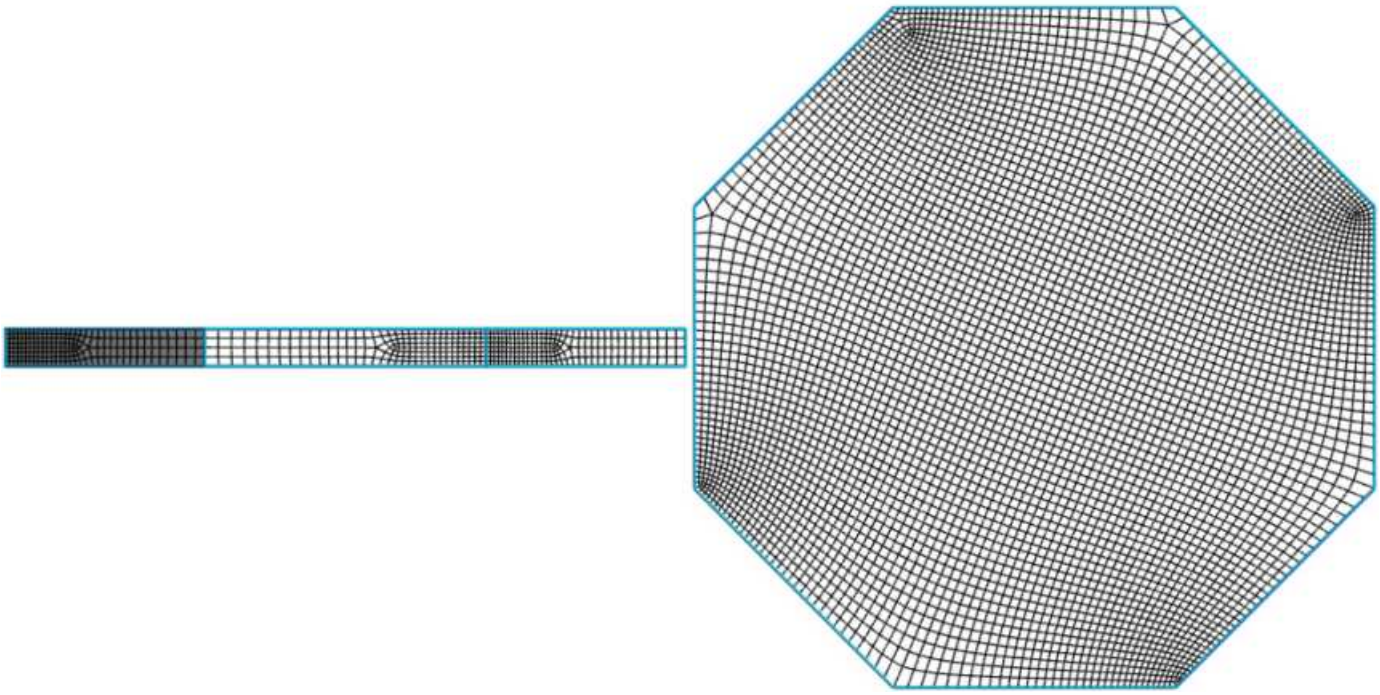
Model: 00005694 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 9 singularities detected
Timings: 7.70939 sec to generate the unstructured mesh, 1.50718 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11824	12426	124	0
Quasi-structured	11904	12506	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.334316	1.23145	2.70579	0.628656	0.984507	0.997526
Quasi-structured	0.367314	1.22188	3.44713	0.700834	0.988032	0.996398





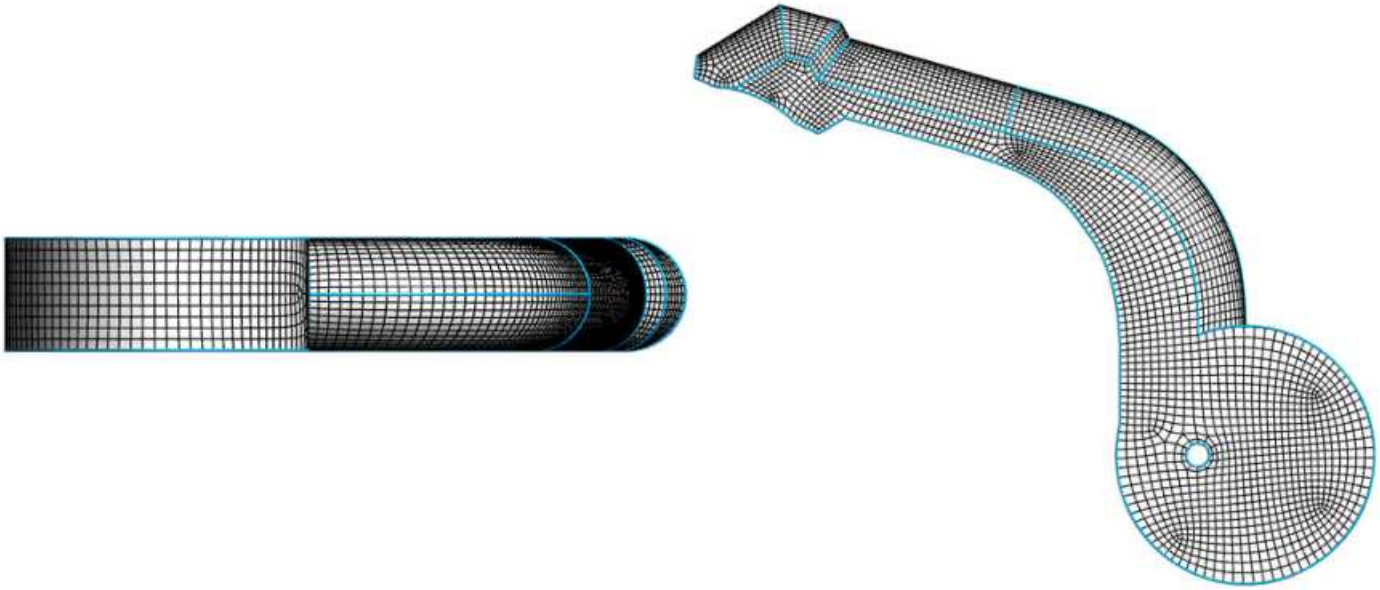
Model: 00005709 (from ABC dataset)
CAD: 32 corners, 48 curves, 18 faces
Cross field: 24 singularities detected
Timings: 10.5049 sec to generate the unstructured mesh, 2.27136 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7934	8833	182	22
Quasi-structured	8128	9027	56	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.16138	1.02762	2.03065	0.033956	0.956622	0.986087
Quasi-structured	0.088628	1.01087	2.09861	0.0503905	0.969784	0.991799



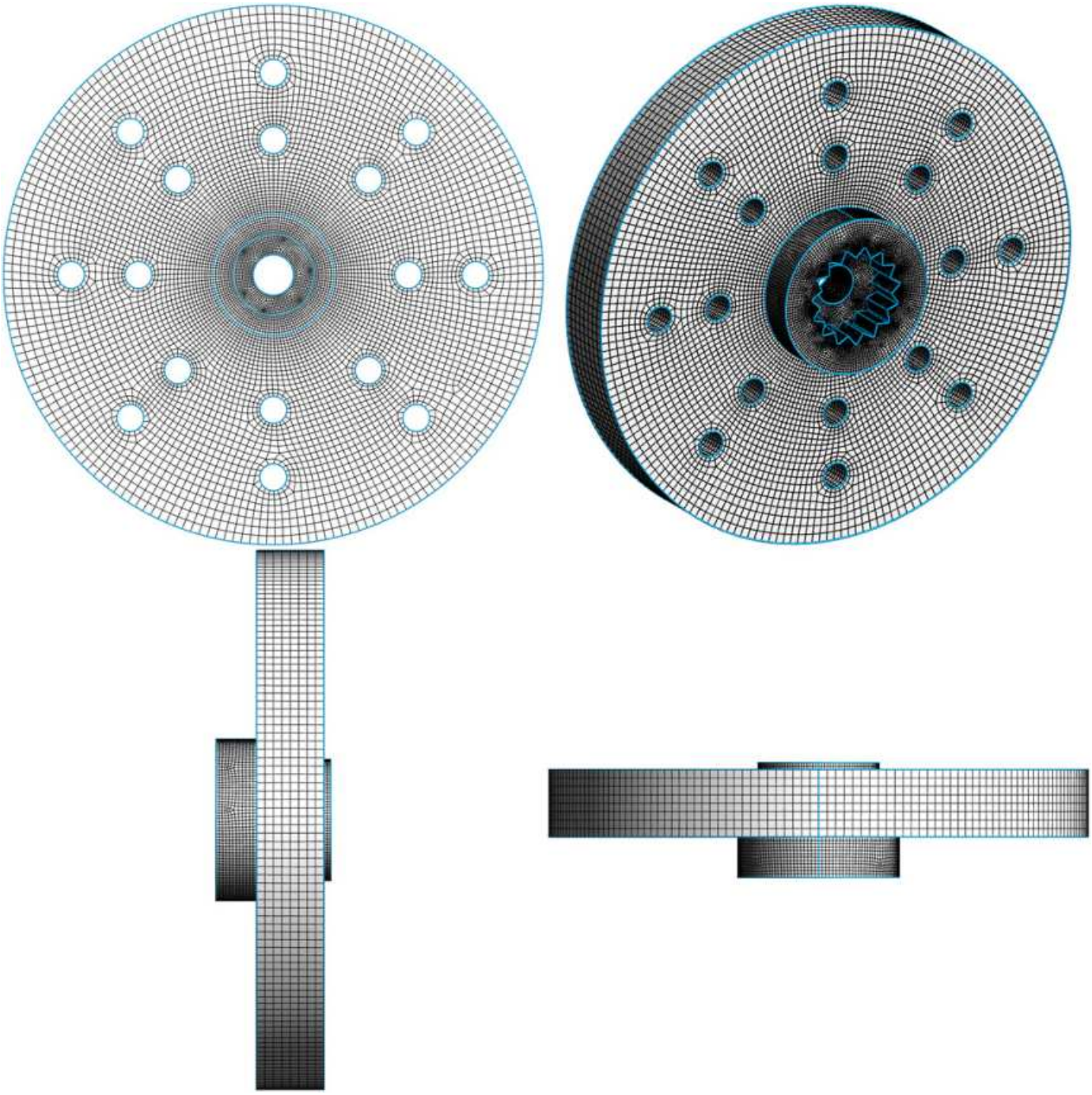


Model: 00005712 (from ABC dataset)
CAD: 147 corners, 213 curves, 72 faces
Cross field: 166 singularities detected
Timings: 31.8093 sec to generate the unstructured mesh, 11.1809 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	39116	43223	1723	360
Quasi-structured	39257	43364	416	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0256494	0.265613	0.842673	0.28141	0.953633	0.989668
Quasi-structured	0.0145177	0.264184	0.840255	0.246047	0.970488	0.990239

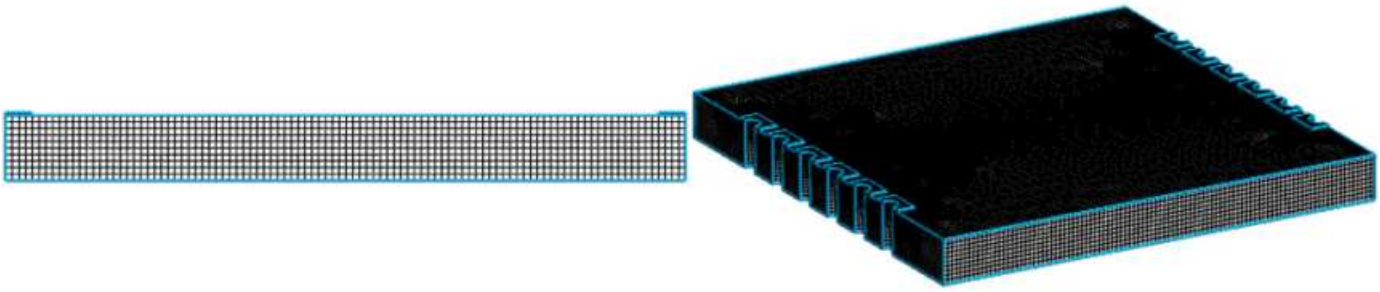


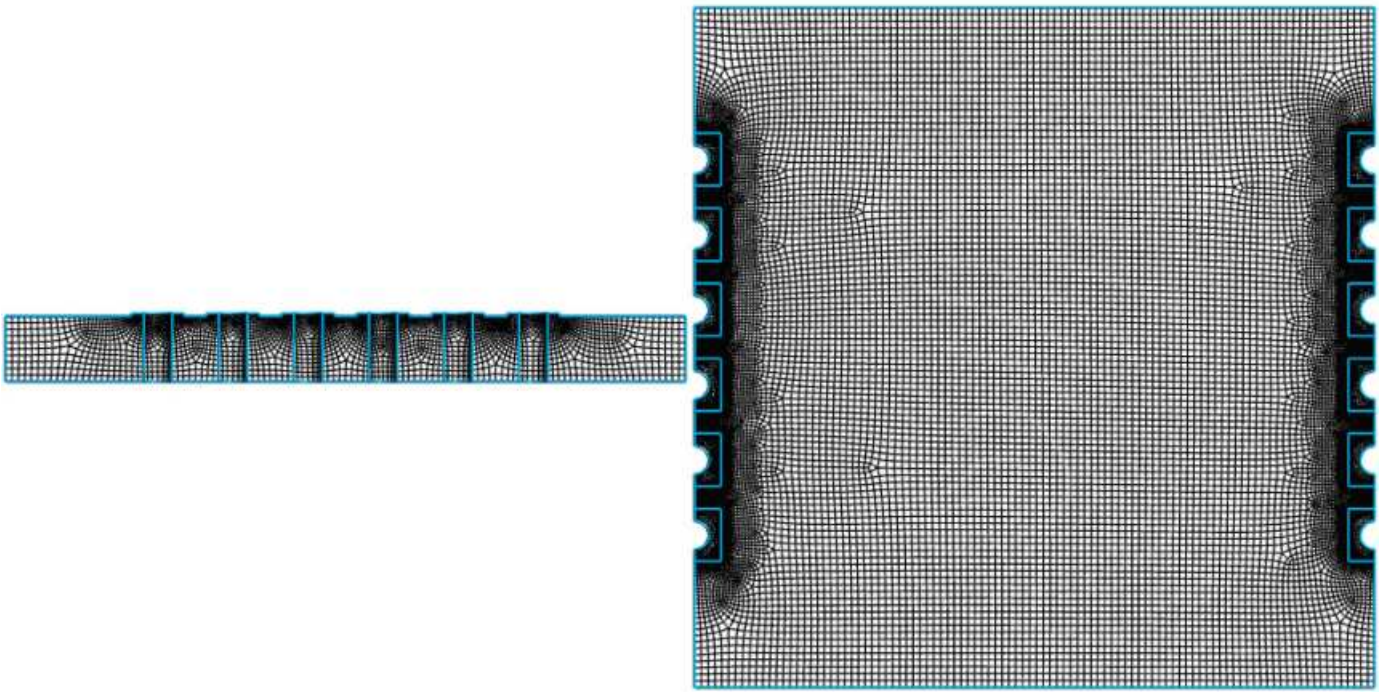
Model: 00005727 (from ABC dataset)
CAD: 152 corners, 228 curves, 78 faces
Cross field: 50 singularities detected
Timings: 15.9635 sec to generate the unstructured mesh, 106.694 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	44682	48410	1529	96
Quasi-structured	43965	47693	666	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0179774	0.149794	0.40167	0.40126	0.957298	0.992079
Quasi-structured	0.0103785	0.149624	0.379101	0.300204	0.978743	0.994427



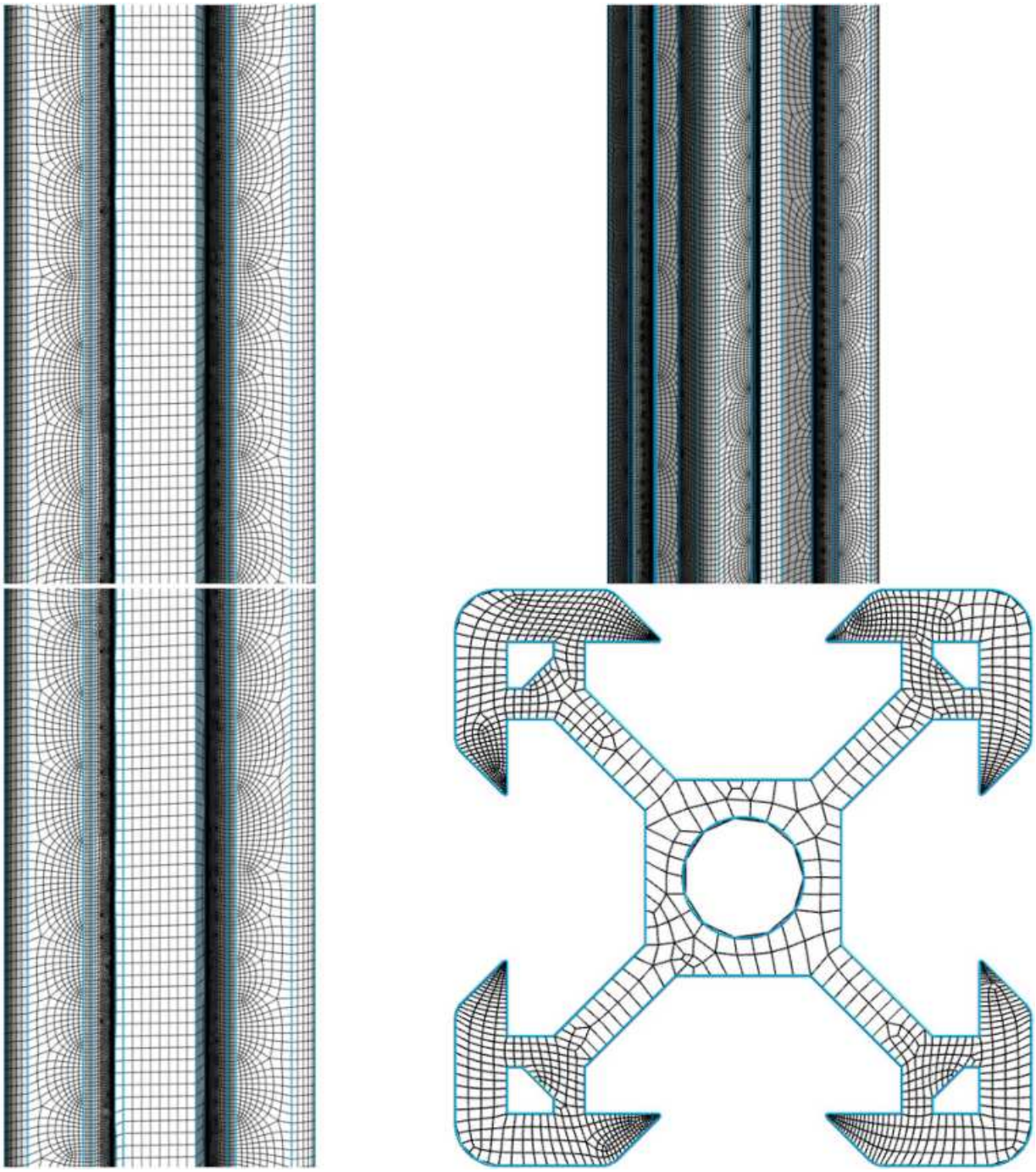


Model: 00005743 (from ABC dataset)
CAD: 170 corners, 255 curves, 87 faces
Cross field: 42 singularities detected
Timings: 29.4891 sec to generate the unstructured mesh, 9269.77 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	474990	526342	25133	2640
Quasi-structured	476677	528029	21371	4

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0173339	0.146819	1.17544	0.287023	0.926342	0.979194
Quasi-structured	0.0216422	0.145588	1.37413	0.214133	0.964927	0.994441

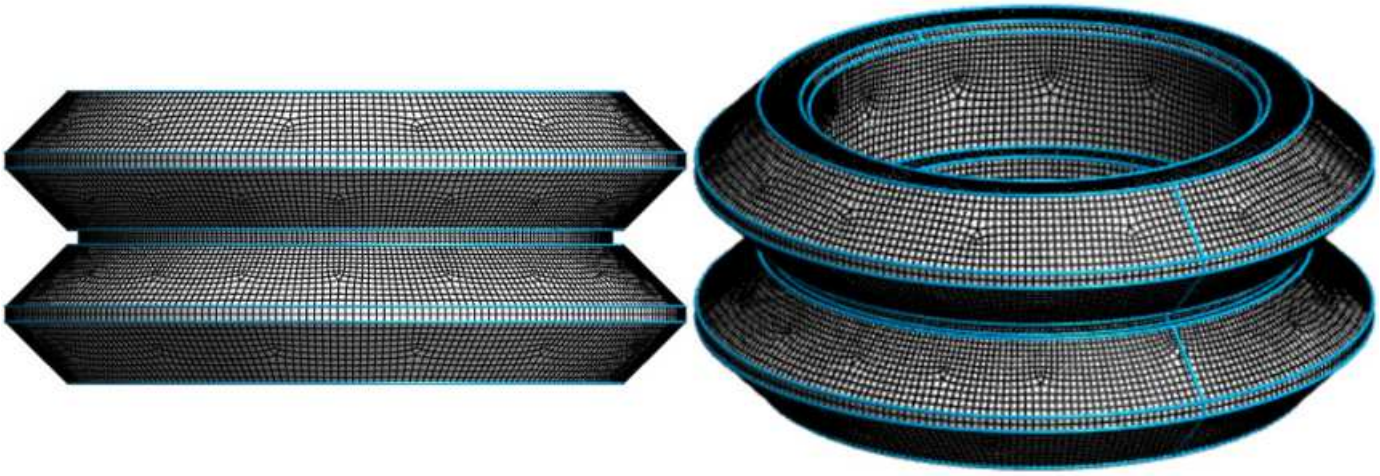


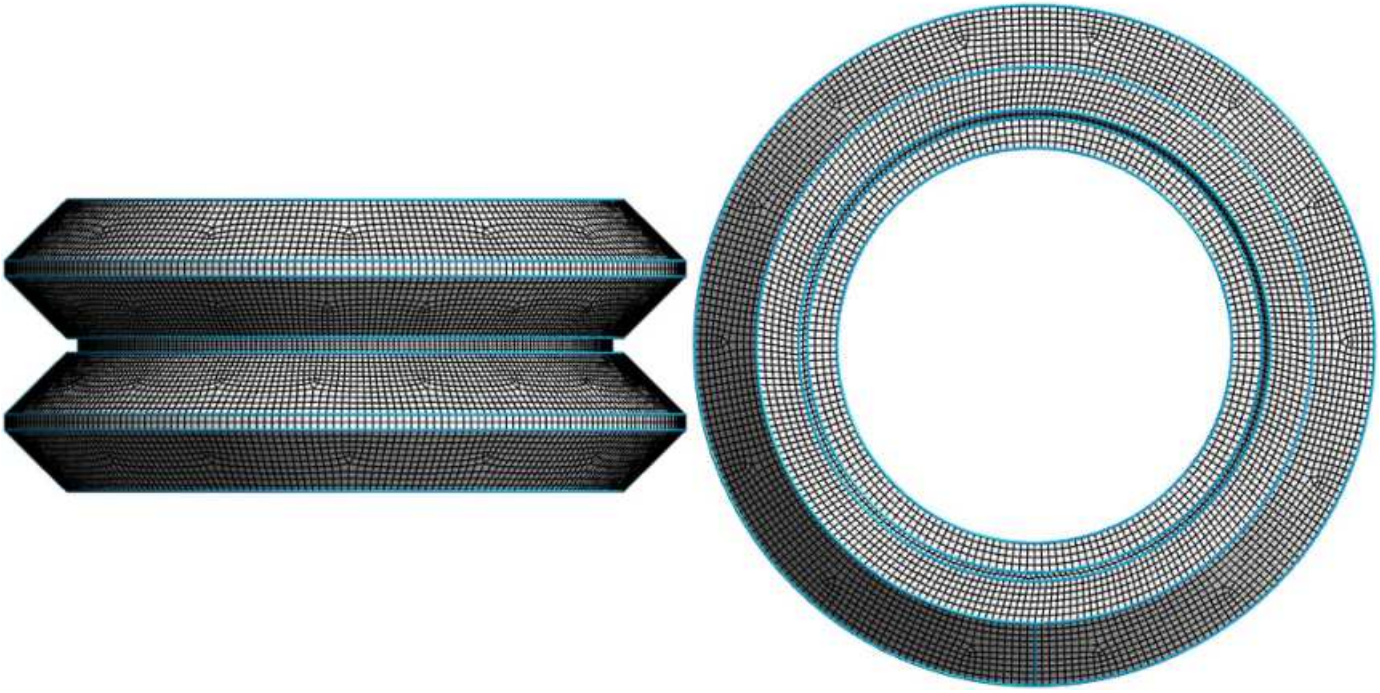
Model: 00005747 (from ABC dataset)
CAD: 19 corners, 31 curves, 18 faces
Cross field: 0 singularities detected
Timings: 13.2233 sec to generate the unstructured mesh, 16.4472 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28840	33382	359	107
Quasi-structured	28998	33540	220	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0625409	0.247812	0.460207	0.405214	0.970784	0.989671
Quasi-structured	0.112861	0.245983	0.448953	0.638087	0.986709	0.991992



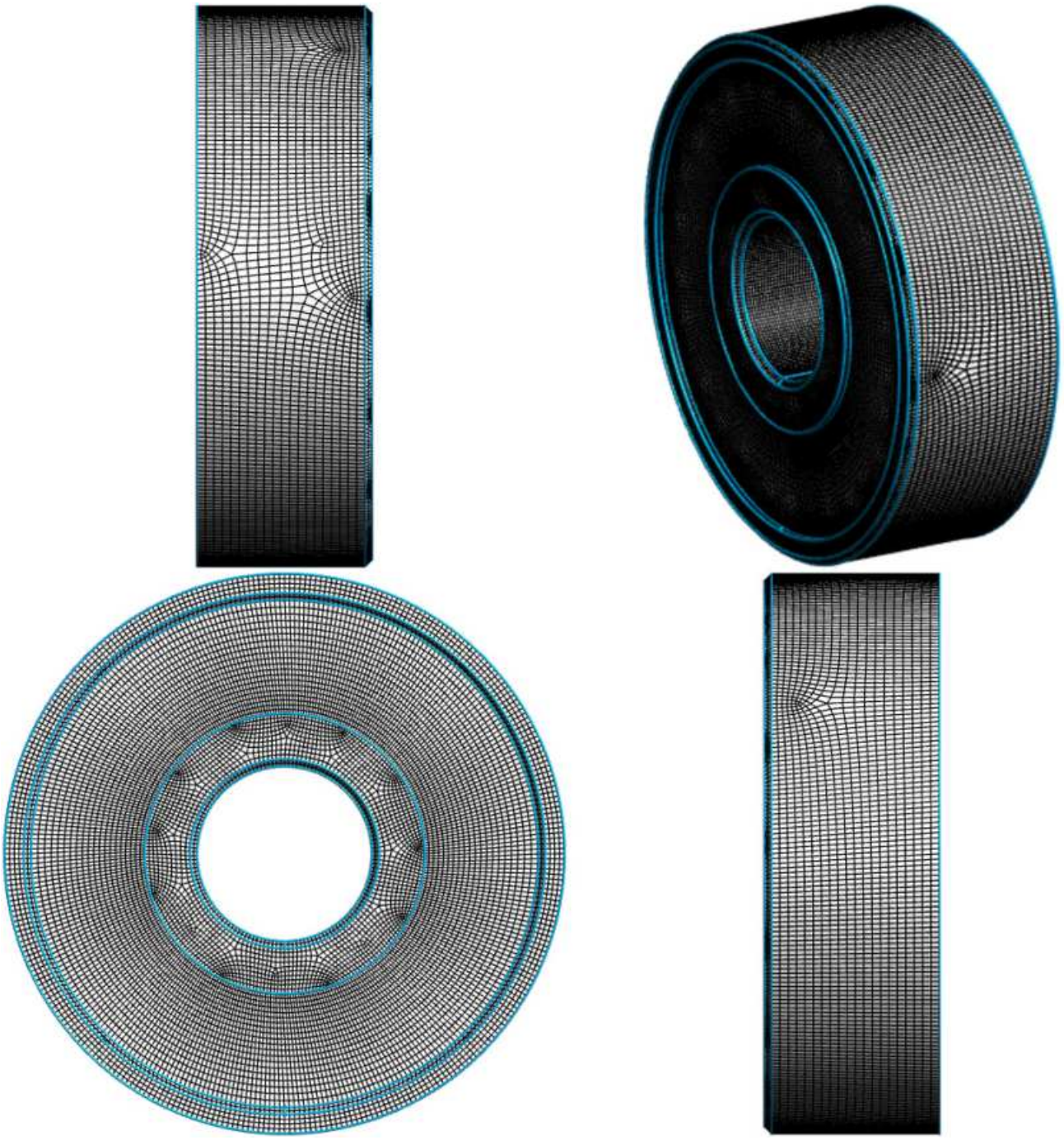


Model: 00005748 (from ABC dataset)
CAD: 15 corners, 24 curves, 15 faces
Cross field: 0 singularities detected
Timings: 14.2052 sec to generate the unstructured mesh, 55.5127 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34202	38562	1153	188
Quasi-structured	37643	42003	262	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0421835	0.137516	0.451123	0.521855	0.947751	0.98338
Quasi-structured	0.0169128	0.135243	0.453217	0.254712	0.938287	0.963376

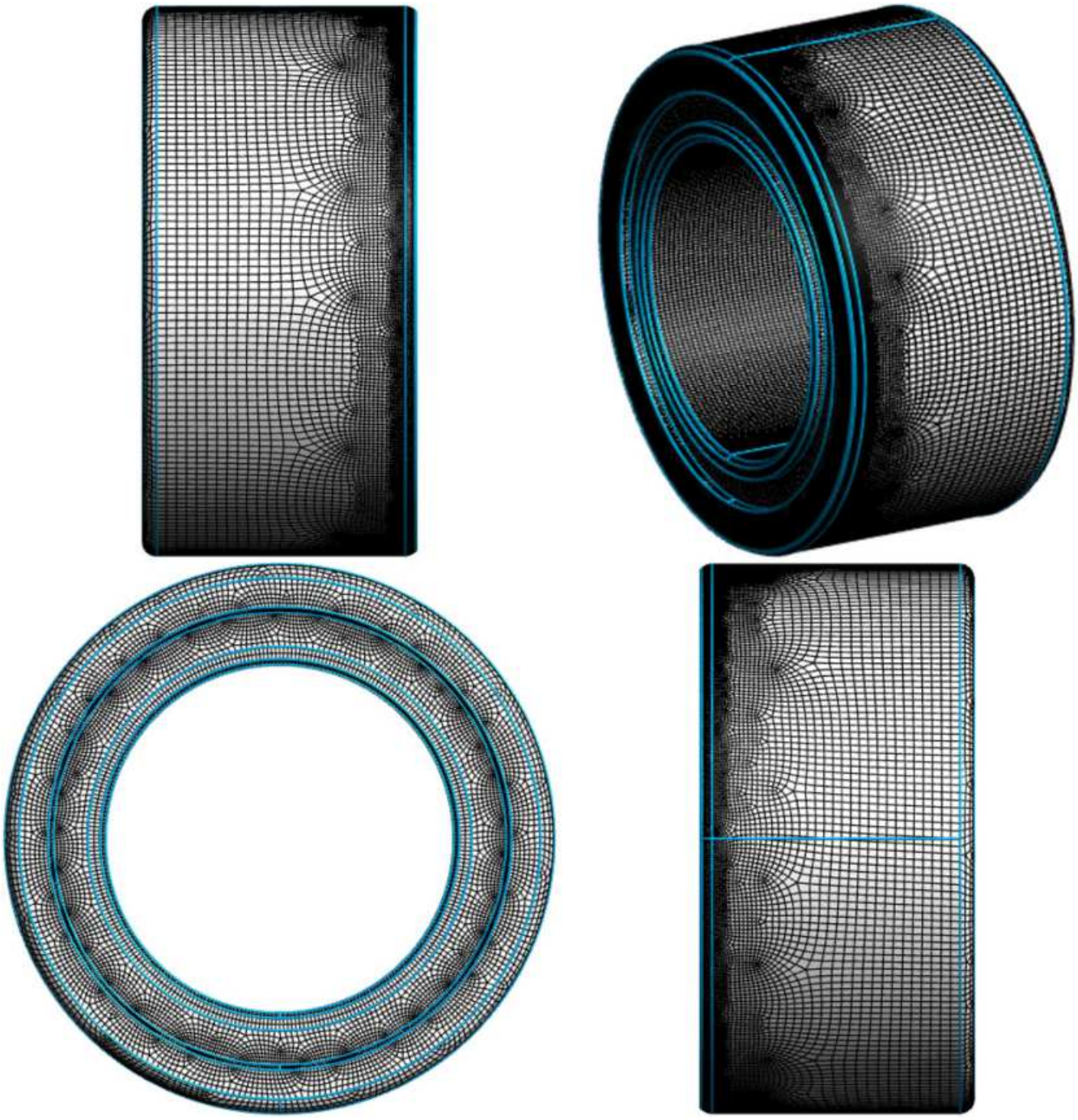


Model: 00005750 (from ABC dataset)
CAD: 20 corners, 32 curves, 18 faces
Cross field: 0 singularities detected
Timings: 16.0314 sec to generate the unstructured mesh, 972.985 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	64672	73606	3561	257
Quasi-structured	70142	79076	2564	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00905775	0.0632116	0.229183	0.363842	0.930813	0.976546
Quasi-structured	0.00830654	0.0623915	0.312776	0.256715	0.942583	0.969594

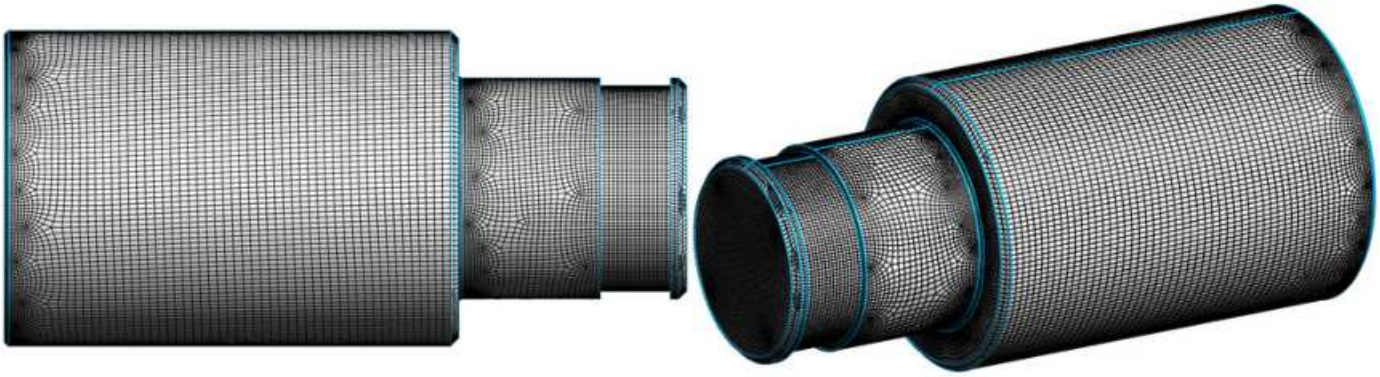


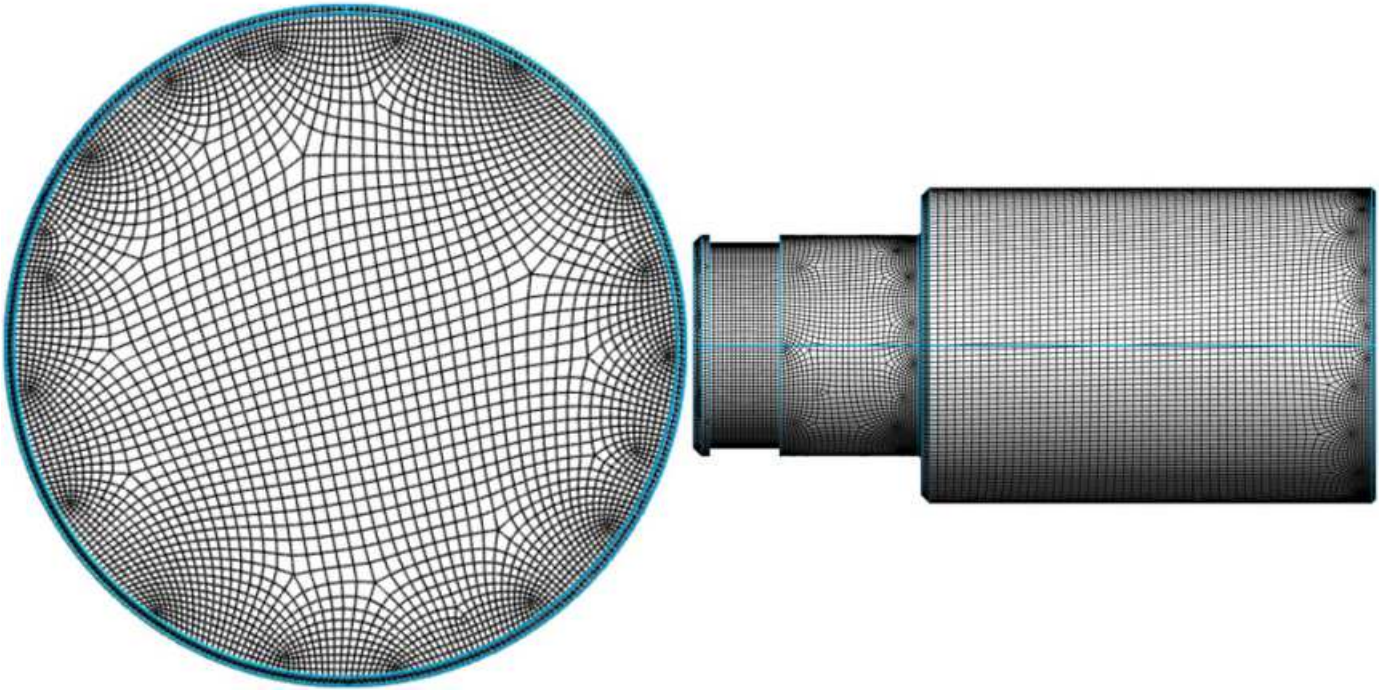
Model: 00005765 (from ABC dataset)
CAD: 12 corners, 20 curves, 13 faces
Cross field: 8 singularities detected
Timings: 13.7049 sec to generate the unstructured mesh, 95.0562 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28906	31566	1079	206
Quasi-structured	30424	33084	264	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.208892	0.975682	3.05638	0.24461	0.931231	0.967112
Quasi-structured	0.205711	0.962314	2.63653	0.309156	0.954503	0.972127



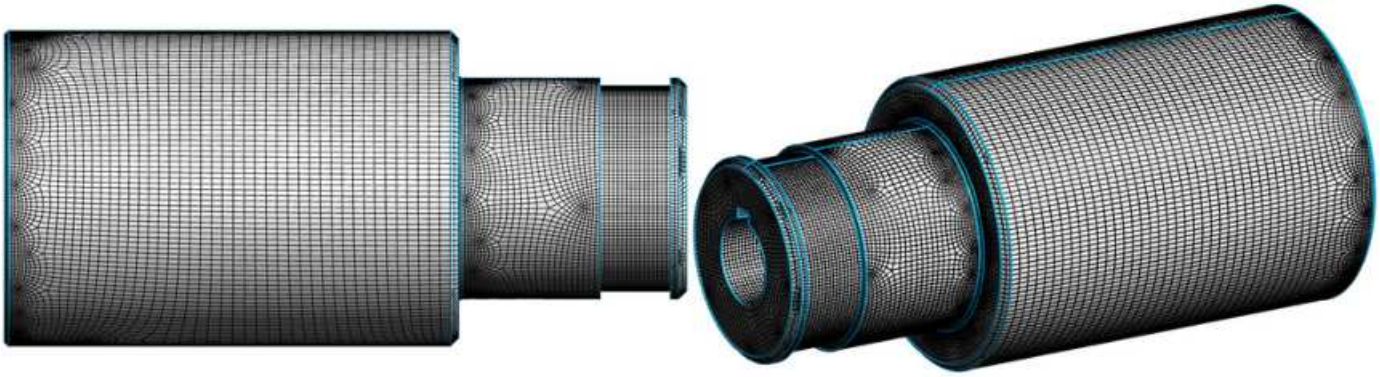


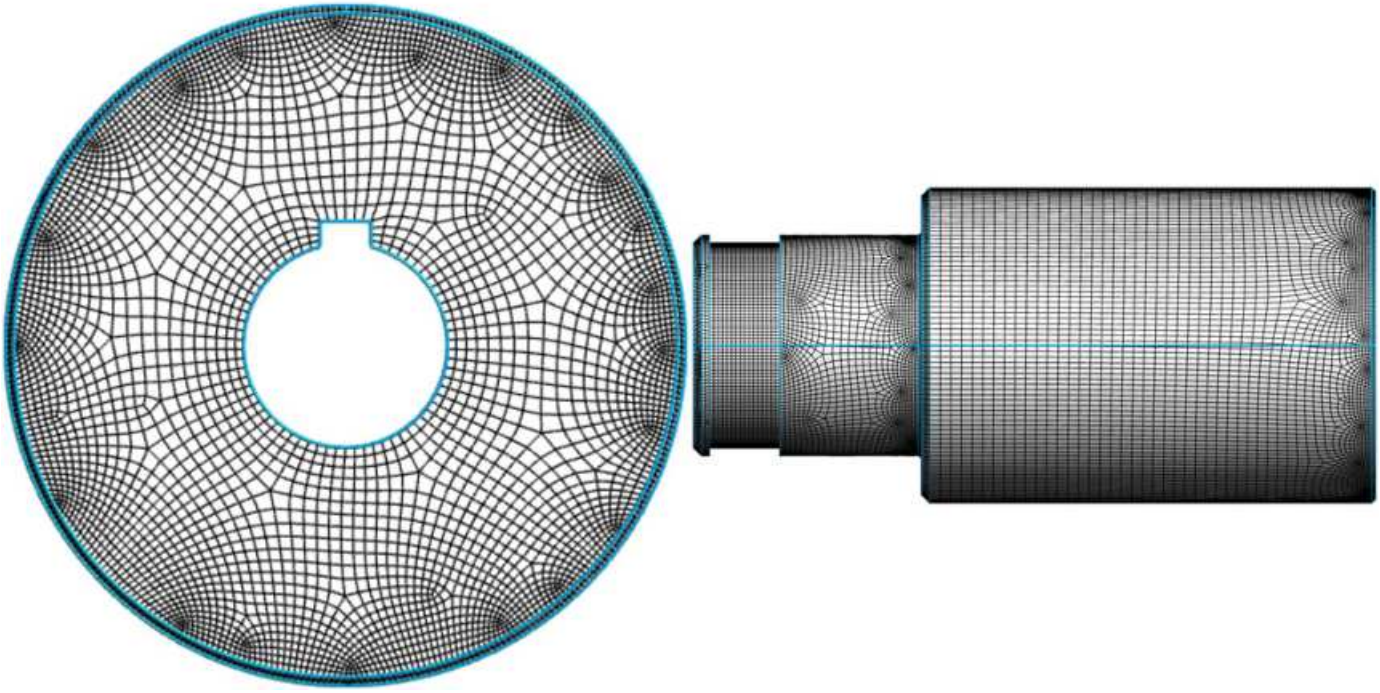
Model: 00005766 (from ABC dataset)
CAD: 20 corners, 32 curves, 17 faces
Cross field: 0 singularities detected
Timings: 16.1188 sec to generate the unstructured mesh, 55.8715 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36792	40242	1220	203
Quasi-structured	39987	43437	280	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.208892	0.943923	4.54078	0.428244	0.95121	0.99429
Quasi-structured	0.189855	0.950782	4.86923	0.300412	0.948149	0.974466



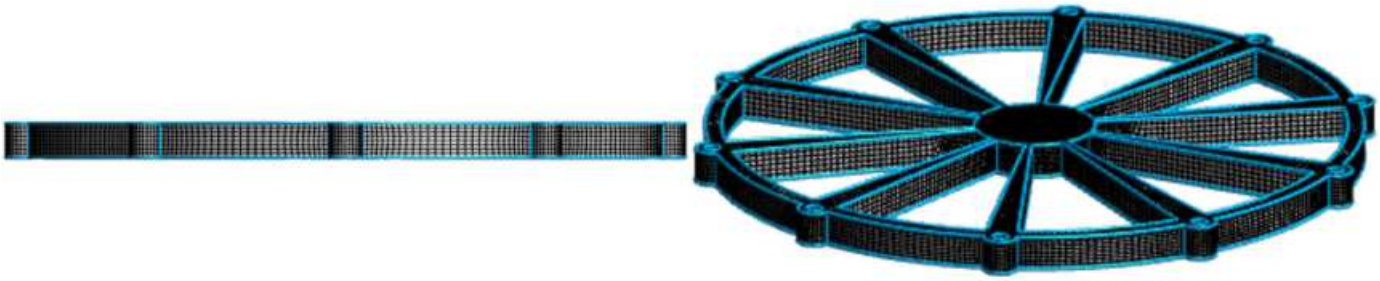


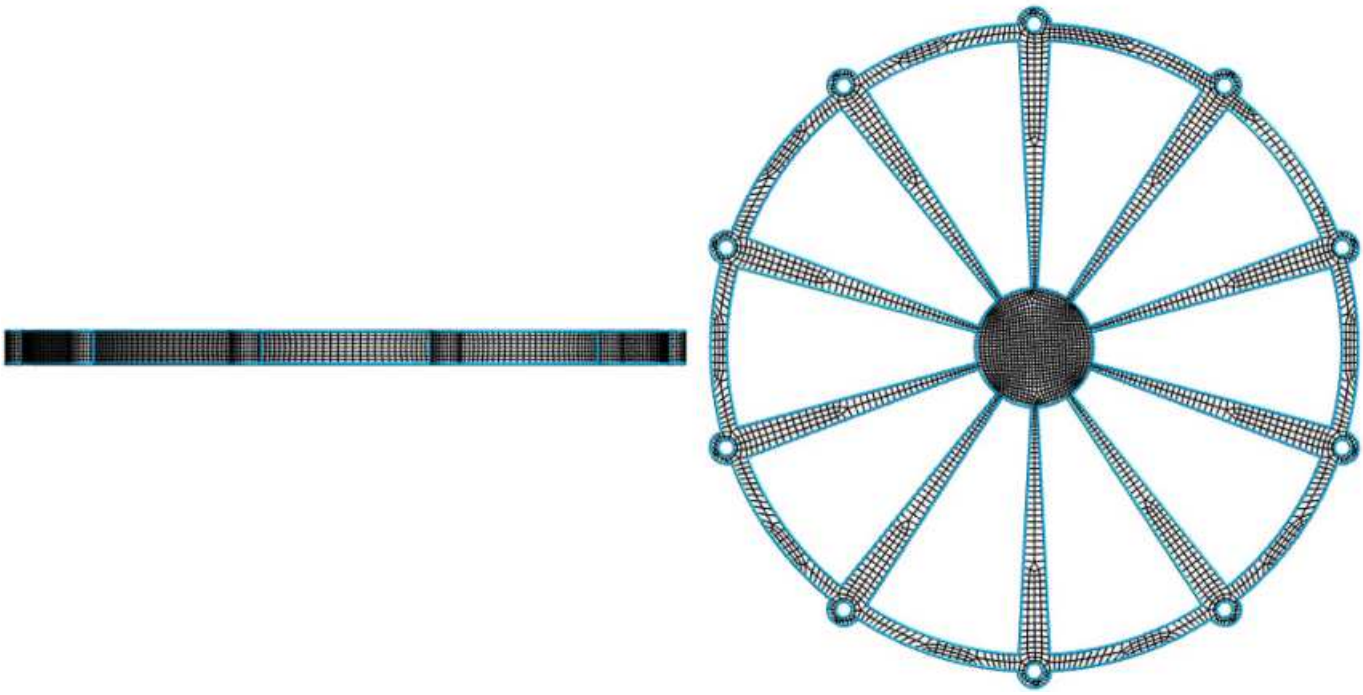
Model: 00005781 (from ABC dataset)
CAD: 140 corners, 210 curves, 72 faces
Cross field: 54 singularities detected
Timings: 8.33715 sec to generate the unstructured mesh, 3.47444 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18304	22318	792	79
Quasi-structured	19294	23308	370	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.91177	3.95476	8.36756	0.238401	0.942668	0.976599
Quasi-structured	1.00145	3.88486	10.3937	0.414657	0.94908	0.981992



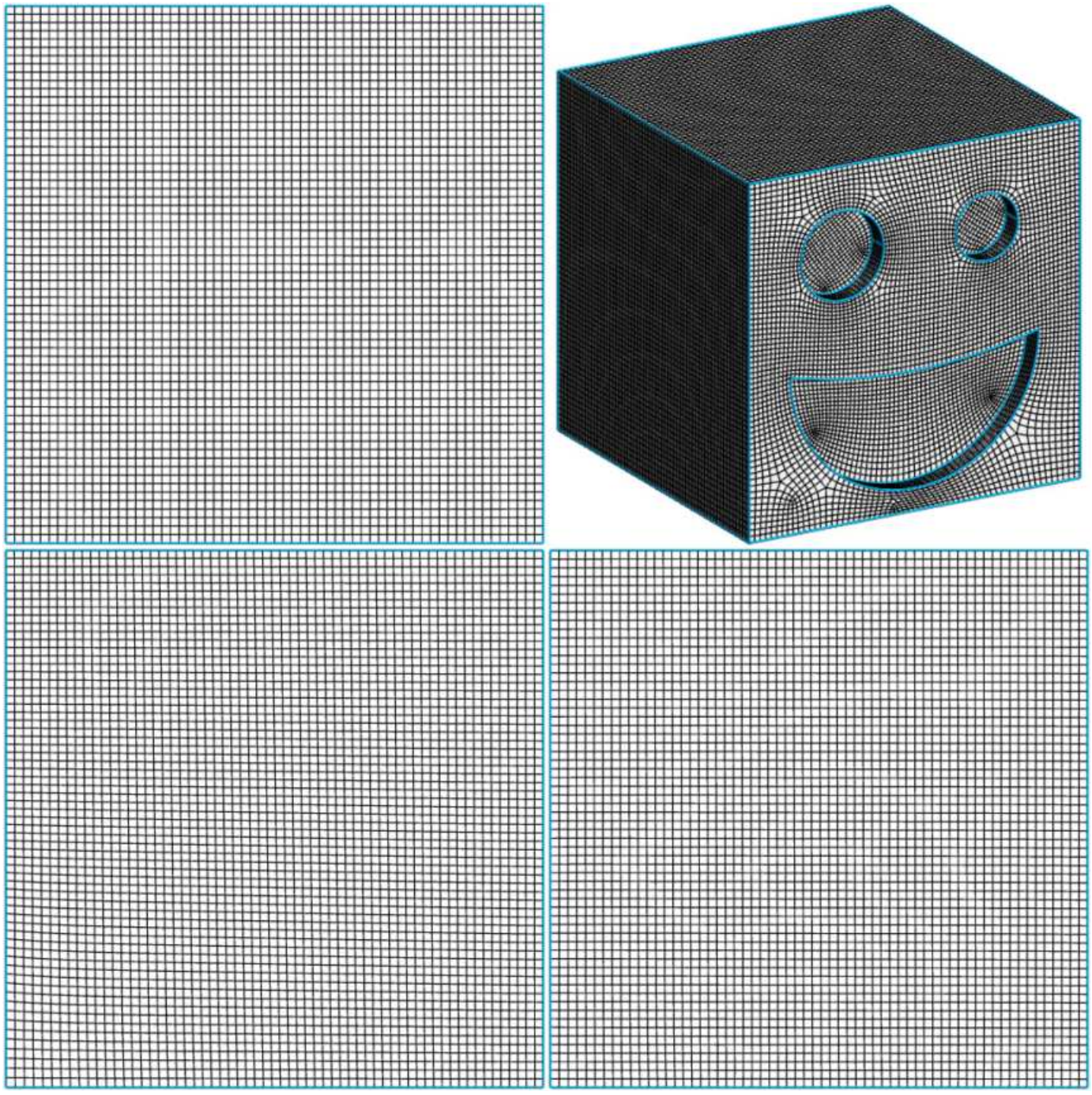


Model: 00005787 (from ABC dataset)
CAD: 16 corners, 24 curves, 13 faces
Cross field: 20 singularities detected
Timings: 18.0132 sec to generate the unstructured mesh, 2.00648 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25908	27172	170	19
Quasi-structured	26294	27558	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.350771	1.56867	2.784	0.453054	0.989058	0.9991
Quasi-structured	0.480349	1.55519	4.2355	0.487501	0.992207	0.999132

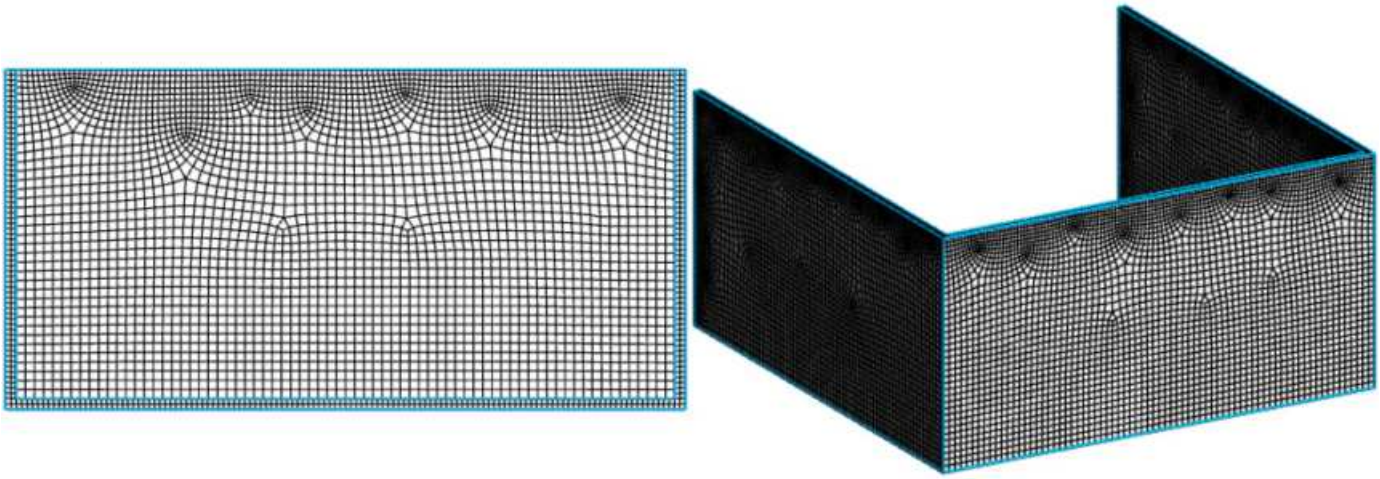


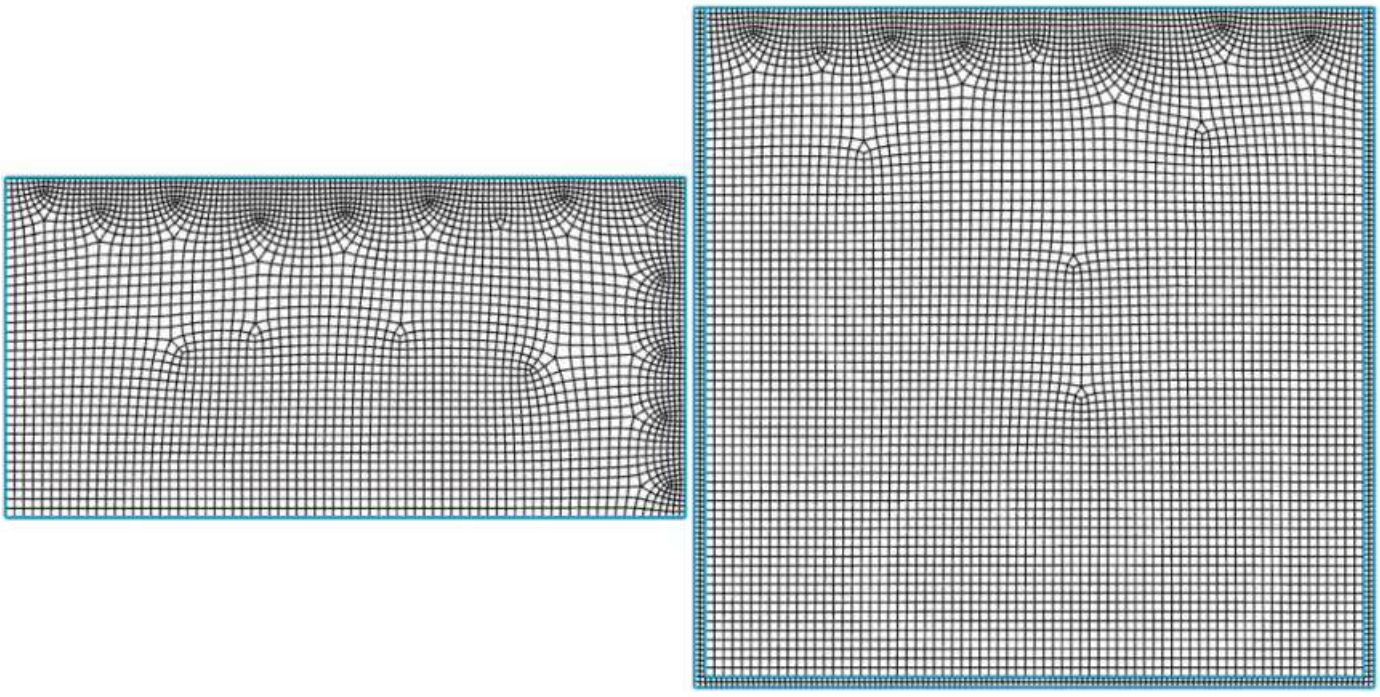
Model: 00005788 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 23.1593 sec to generate the unstructured mesh, 24.5415 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32236	34112	590	60
Quasi-structured	32940	34816	216	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.40686	4.95422	8.71346	0.533652	0.97317	0.999467
Quasi-structured	1.47102	4.8632	9.2943	0.779924	0.993099	0.998233



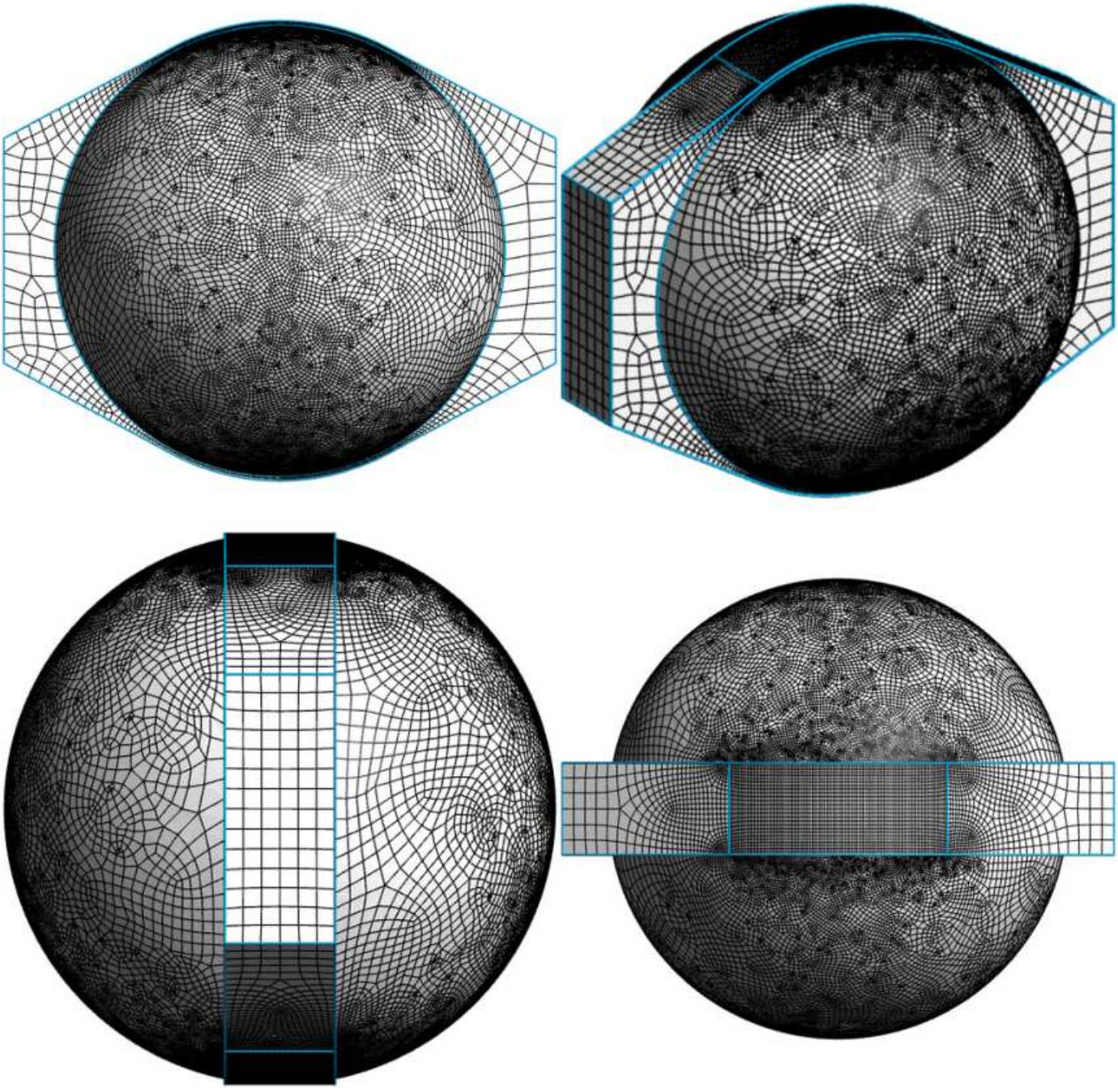


Model: 00005795 (from ABC dataset)
CAD: 18 corners, 26 curves, 12 faces
Cross field: 8 singularities detected
Timings: 7.44361 sec to generate the unstructured mesh, 306.668 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32998	34508	9367	3035
Quasi-structured	37045	38555	5086	29

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.104288	1.20731	7.31512	0.171538	0.794897	0.788735
Quasi-structured	0.0303119	1.08578	9.43314	0.0802237	0.863624	0.90024

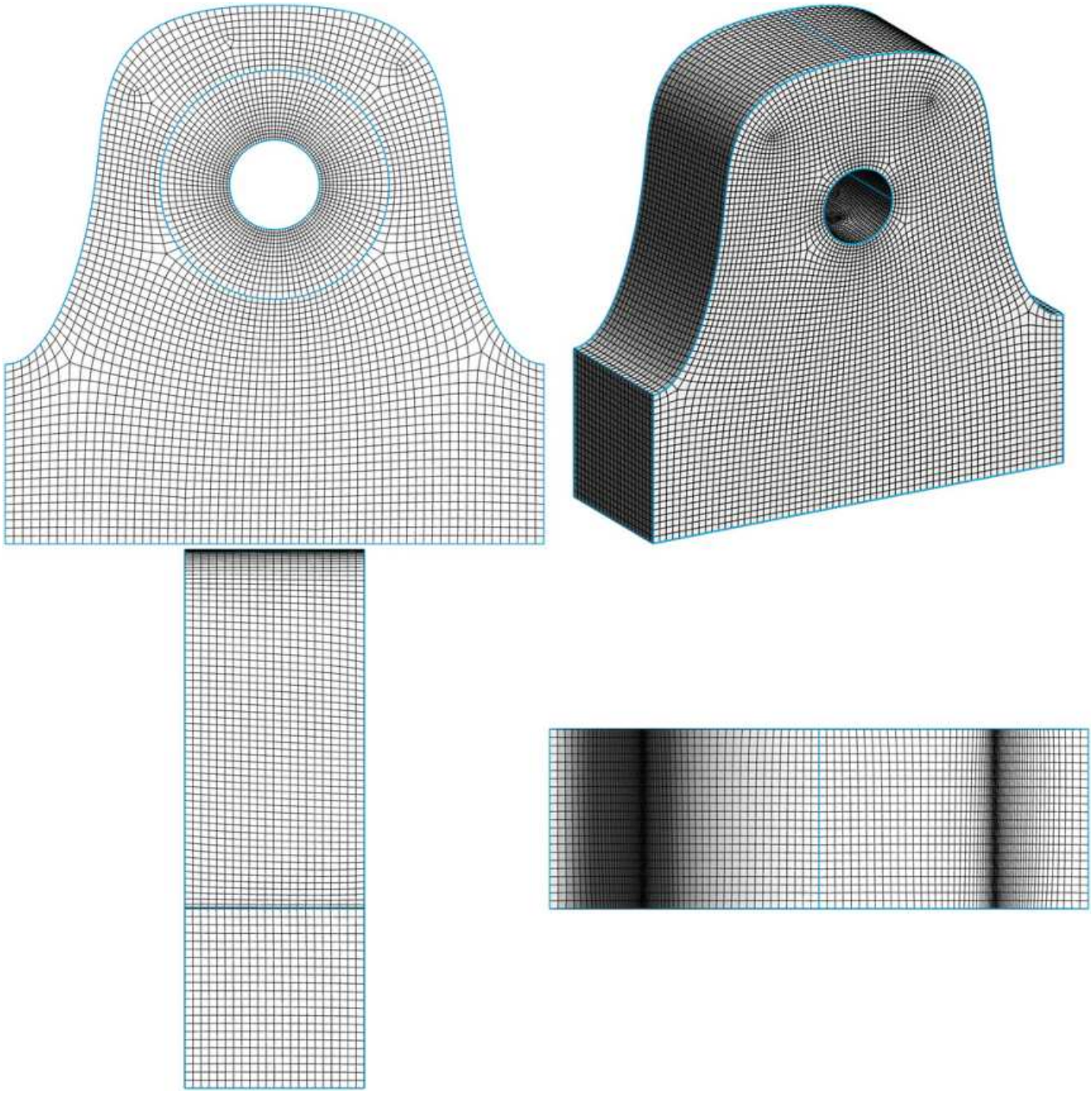


Model: 00005801 (from ABC dataset)
CAD: 14 corners, 21 curves, 10 faces
Cross field: 12 singularities detected
Timings: 9.39202 sec to generate the unstructured mesh, 2.45315 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17656	18643	176	44
Quasi-structured	17678	18665	42	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.170099	0.949087	1.82434	0.481115	0.980486	0.994426
Quasi-structured	0.189151	0.945264	2.66511	0.660161	0.991317	0.995859

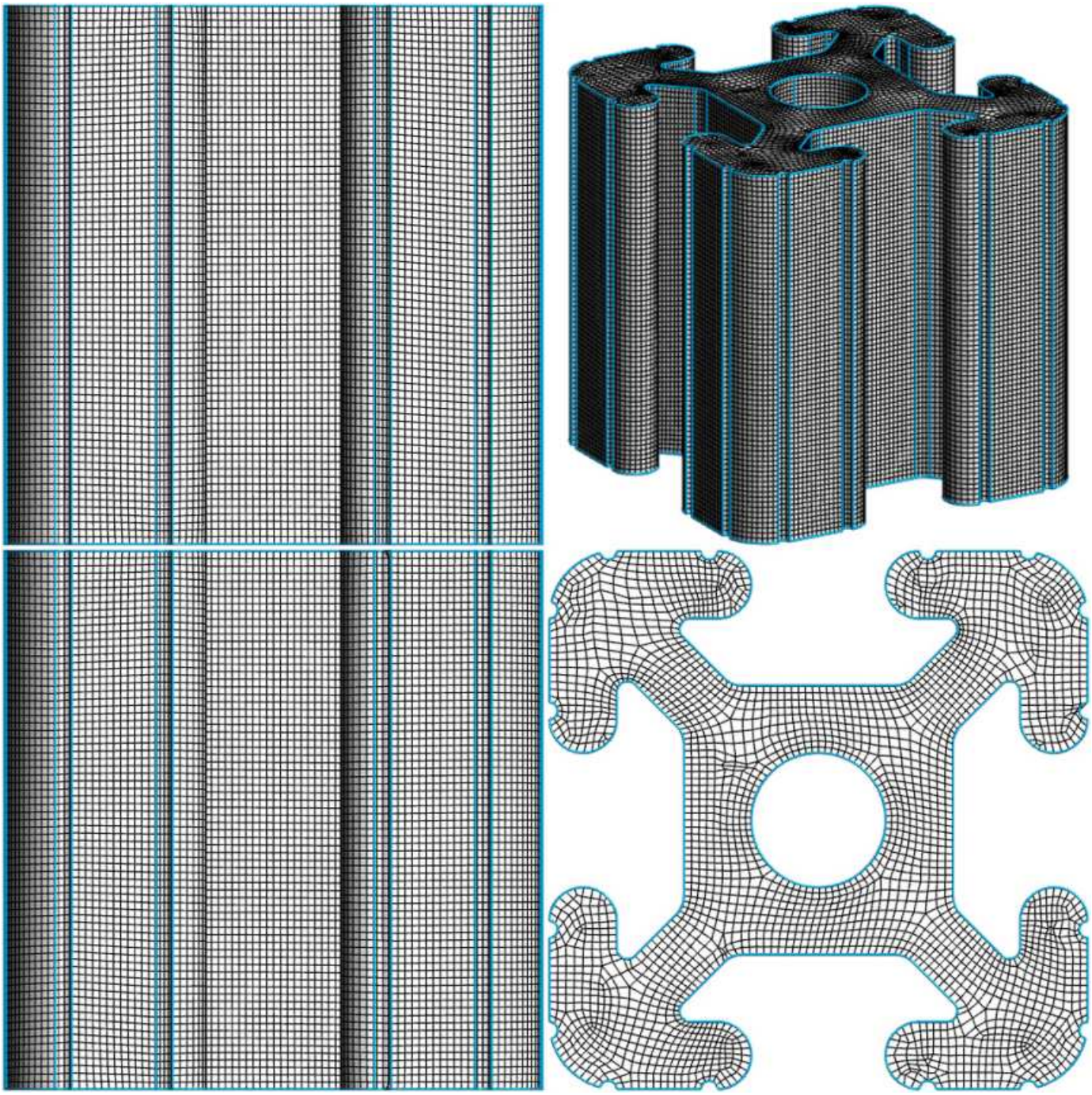


Model: 00005802 (from ABC dataset)
CAD: 146 corners, 219 curves, 75 faces
Cross field: 146 singularities detected
Timings: 41.6773 sec to generate the unstructured mesh, 3.77986 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	54834	61418	450	99
Quasi-structured	54886	61470	205	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.065079	0.328224	0.629928	0.0231522	0.967003	0.993739
Quasi-structured	0.108033	0.327817	0.821244	0.216964	0.97047	0.995464

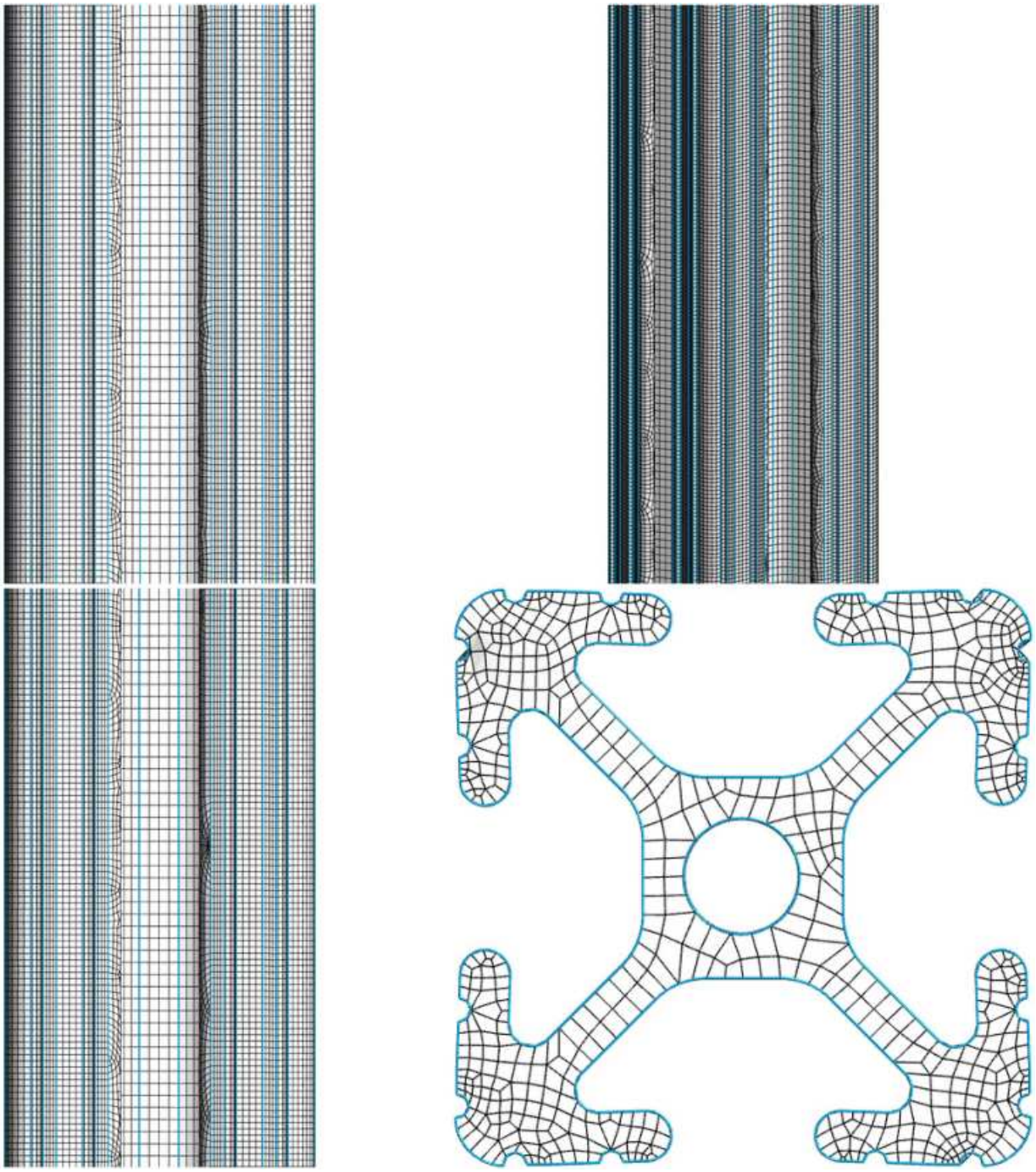


Model: 00005804 (from ABC dataset)
CAD: 178 corners, 267 curves, 91 faces
Cross field: 808 singularities detected
Timings: 30.6743 sec to generate the unstructured mesh, 50.3609 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	109332	133974	1535	188
Quasi-structured	108773	133415	1267	14

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0804821	0.587872	1.77552	0.114914	0.921698	0.960814
Quasi-structured	0.0697291	0.590504	1.87217	0.248016	0.918624	0.960801

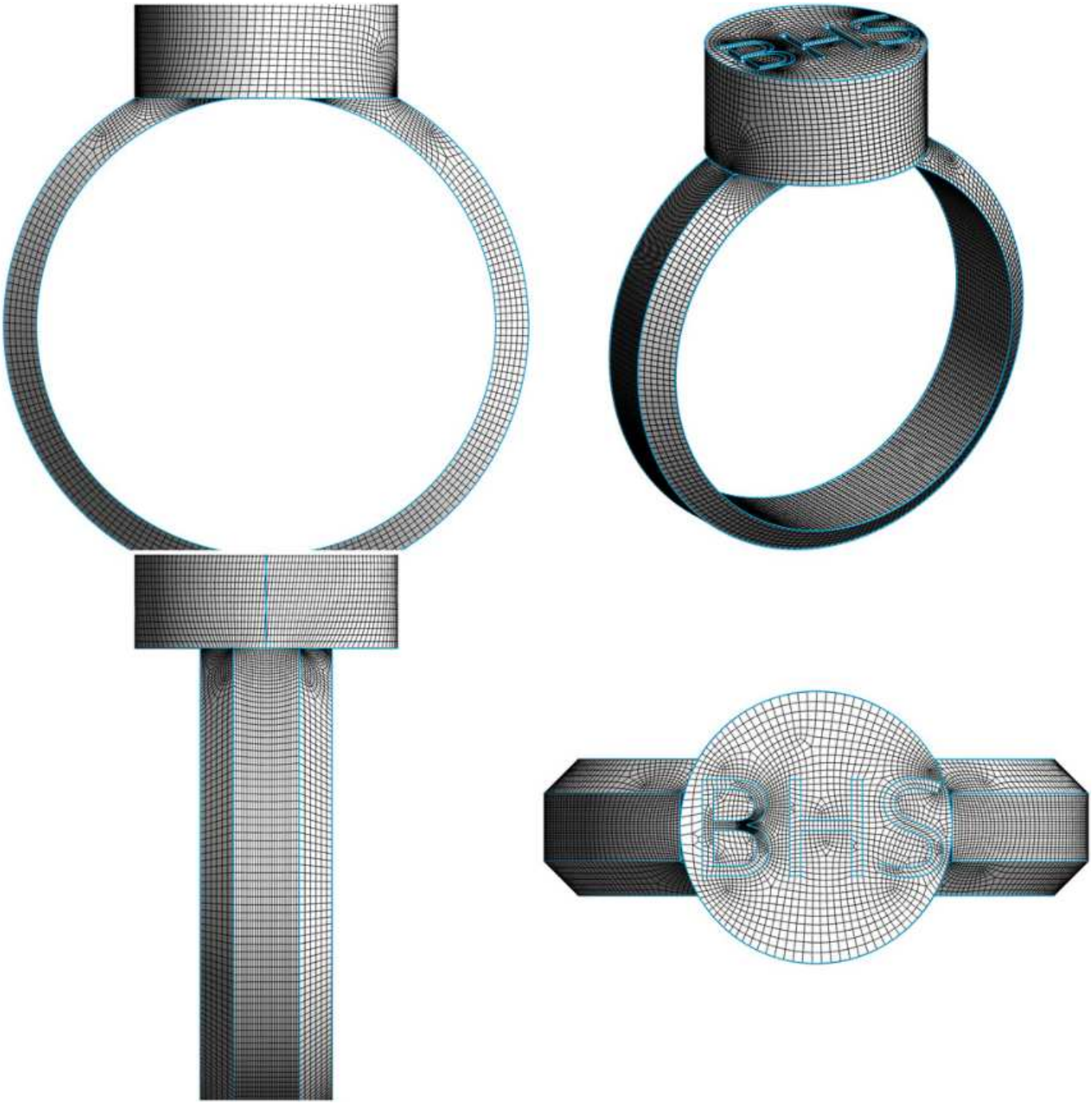


Model: 00005810 (from ABC dataset)
CAD: 139 corners, 212 curves, 78 faces
Cross field: 32 singularities detected
Timings: 15.1985 sec to generate the unstructured mesh, 24.7539 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26744	30296	1064	70
Quasi-structured	30451	34003	246	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00714173	0.214492	0.682238	0.0303825	0.941641	0.975656
Quasi-structured	0.00538868	0.210271	0.589512	0.0303825	0.903122	0.970265

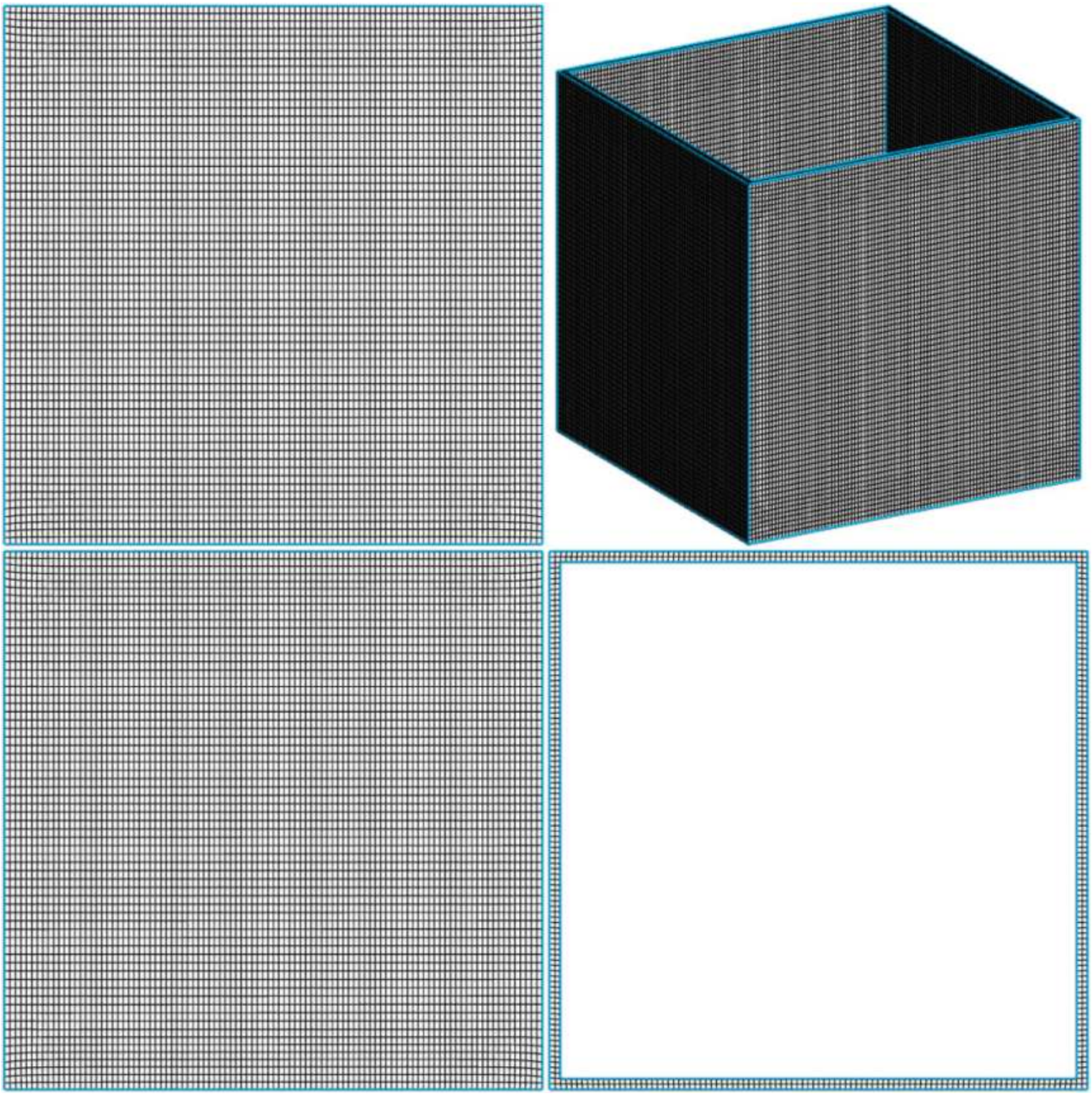


Model: 00005825 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 22.5968 sec to generate the unstructured mesh, 3.74445 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	53312	55416	0	0
Quasi-structured	53312	55416	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.199321	0.250003	0.314889	0.905146	0.920128	0.90879
Quasi-structured	0.198571	0.250012	0.314889	0.899263	0.921131	0.908932

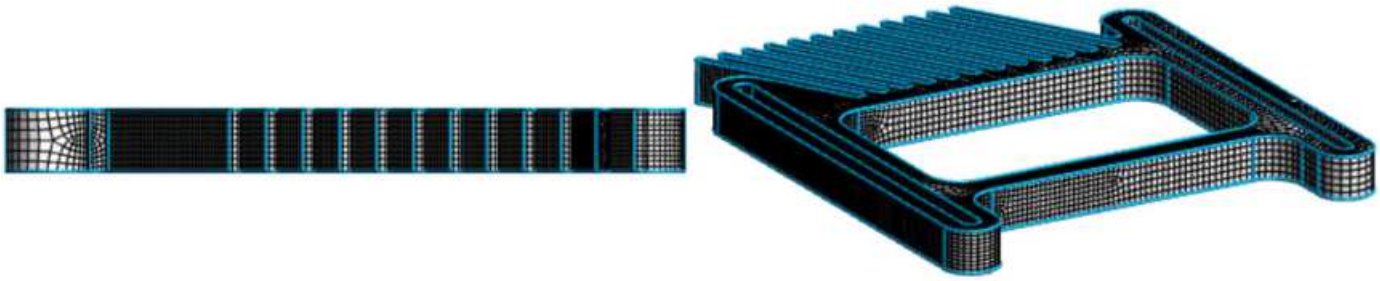


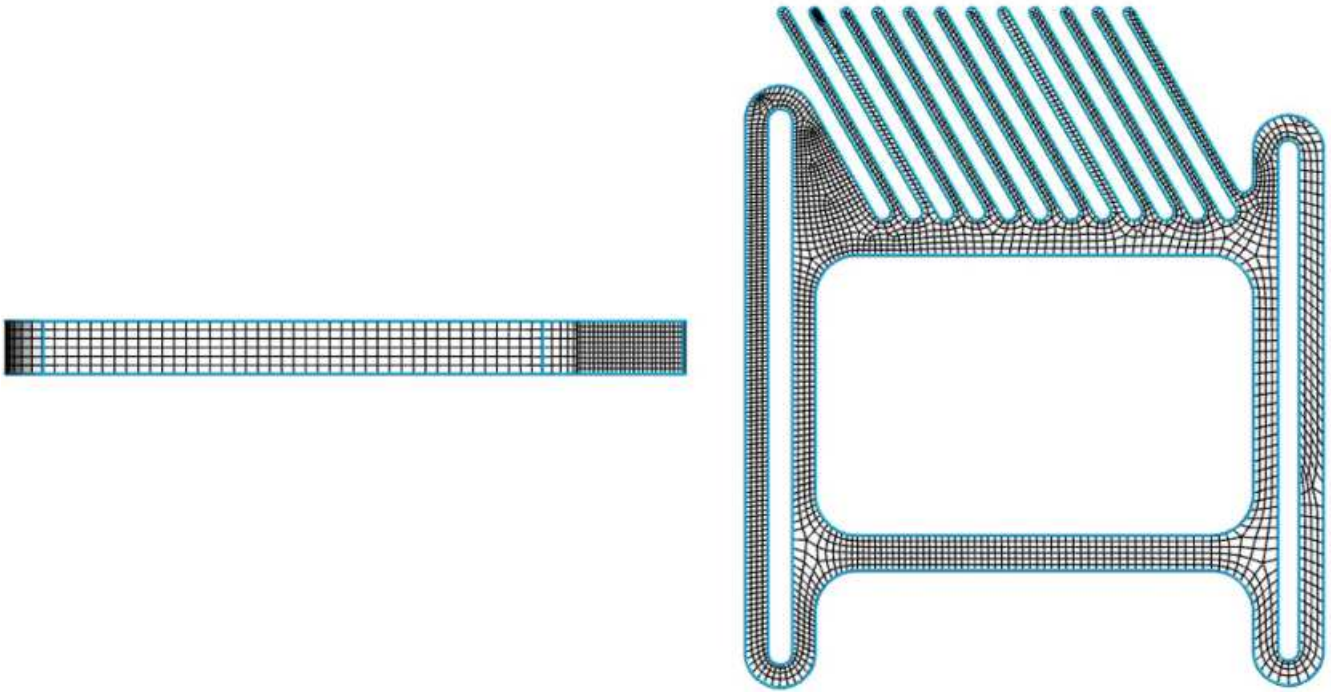
Model: 00005827 (from ABC dataset)
CAD: 160 corners, 240 curves, 82 faces
Cross field: 119 singularities detected
Timings: 11.2724 sec to generate the unstructured mesh, 21.0967 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28520	33630	468	15
Quasi-structured	29553	34663	218	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.189247	1.52436	5.49876	0.00554283	0.970237	0.996408
Quasi-structured	0.193838	1.50419	7.92602	0.293979	0.965023	0.992482



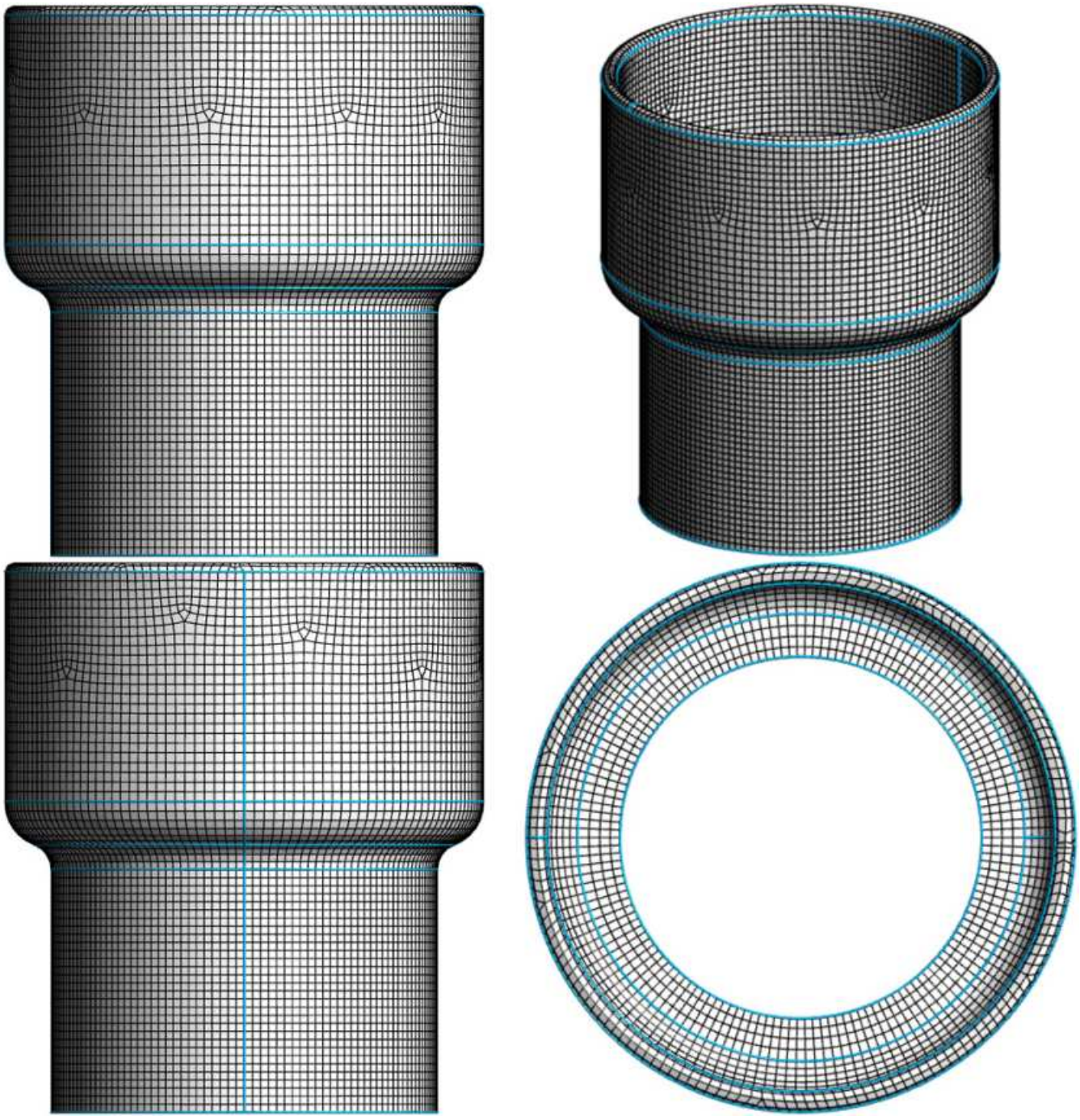


Model: 00005830 (from ABC dataset)
CAD: 14 corners, 24 curves, 12 faces
Cross field: 0 singularities detected
Timings: 19.3015 sec to generate the unstructured mesh, 3.93119 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22290	24118	96	137
Quasi-structured	22290	24118	56	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.065448	0.945424	1.72919	0.0937899	0.965867	0.999984
Quasi-structured	0.285621	0.942723	1.96935	0.658605	0.988651	0.99982

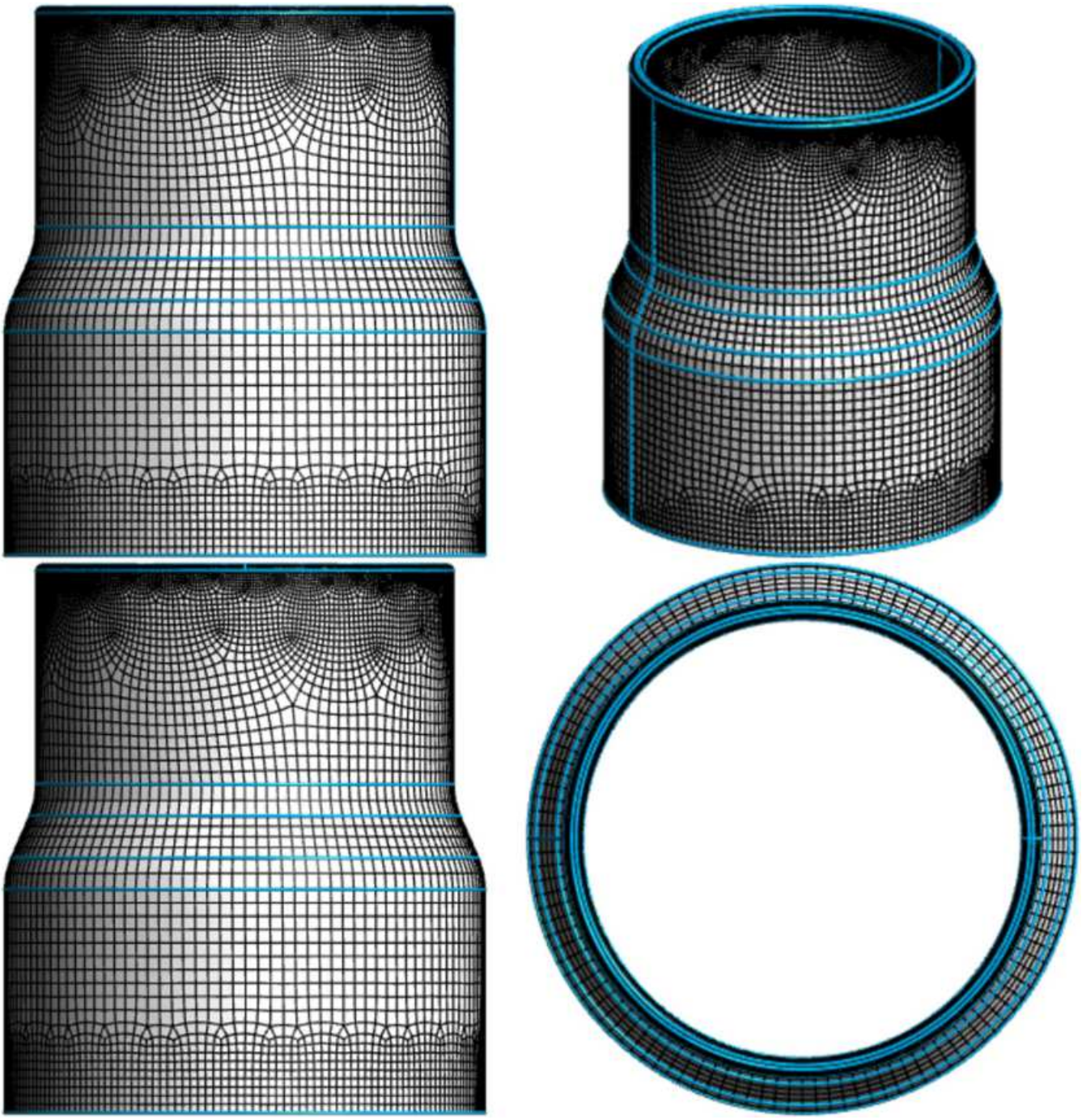


Model: 00005835 (from ABC dataset)
CAD: 20 corners, 33 curves, 14 faces
Cross field: 0 singularities detected
Timings: 9.61221 sec to generate the unstructured mesh, 211.877 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30076	33670	1146	164
Quasi-structured	30278	33872	434	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0680939	0.765555	2.20198	0.187606	0.933506	0.986763
Quasi-structured	0.0406027	0.7608	2.57376	0.268863	0.956174	0.986094

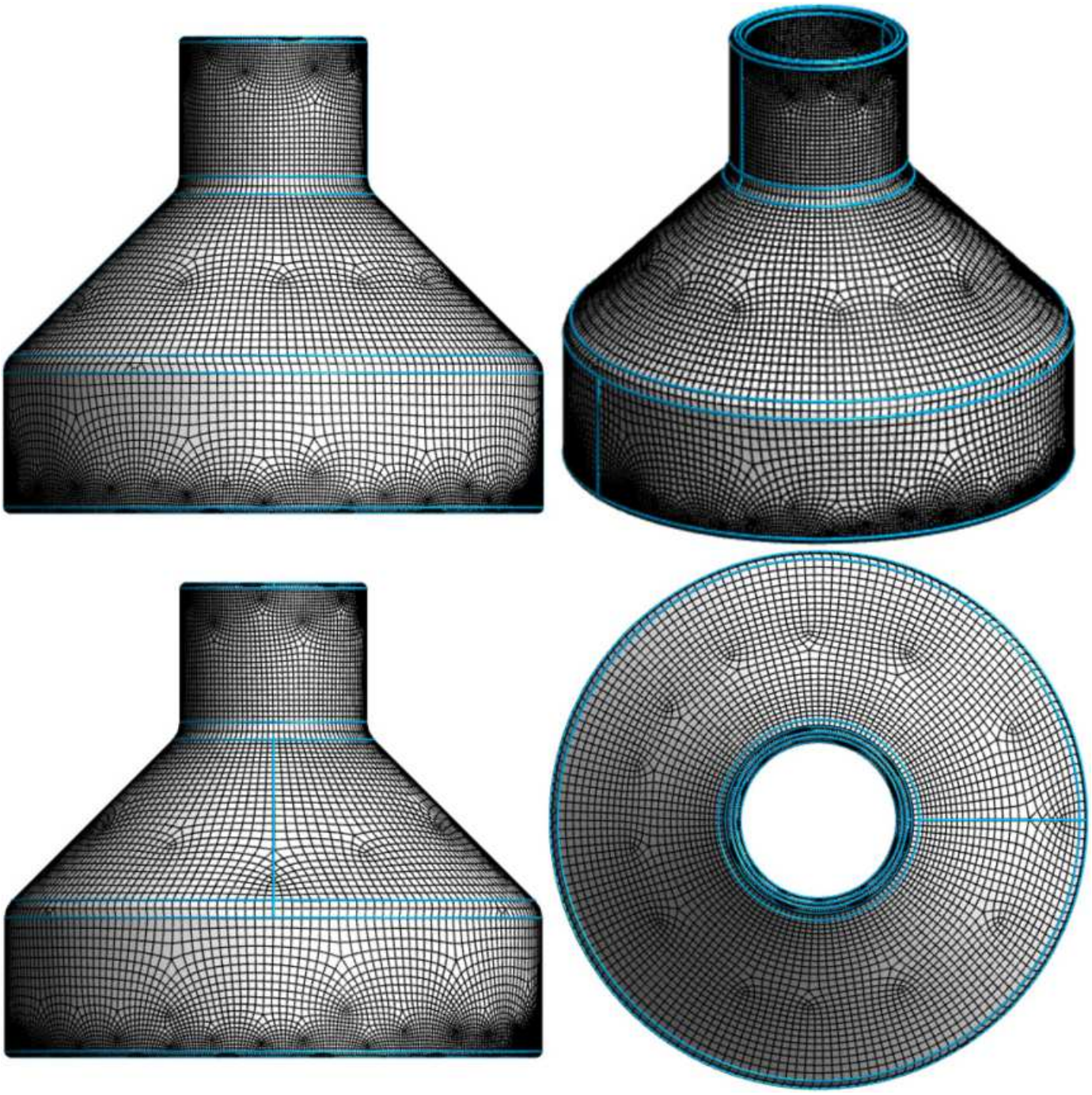


Model: 00005836 (from ABC dataset)
CAD: 20 corners, 34 curves, 16 faces
Cross field: 0 singularities detected
Timings: 16.1902 sec to generate the unstructured mesh, 126.137 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34668	39014	1329	206
Quasi-structured	36262	40608	528	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.207991	1.08361	3.47829	0.386321	0.937814	0.986071
Quasi-structured	0.0895601	1.0453	4.07713	0.237369	0.95292	0.986652

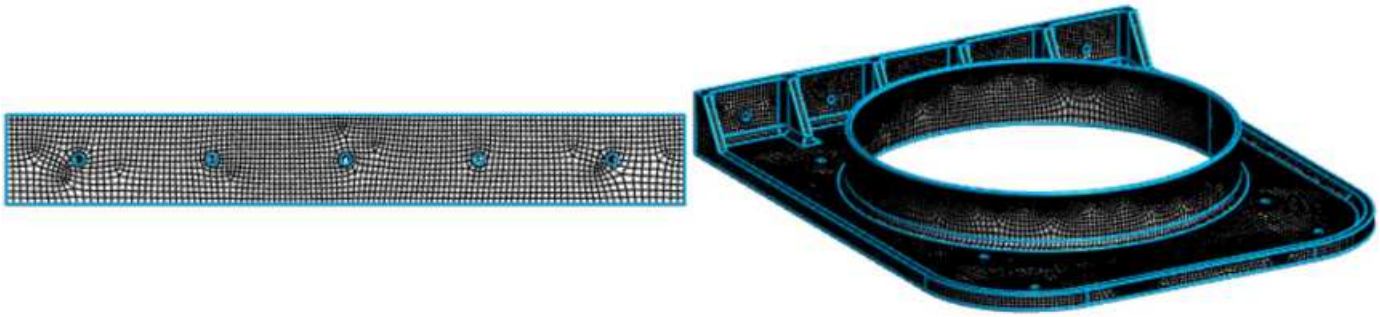


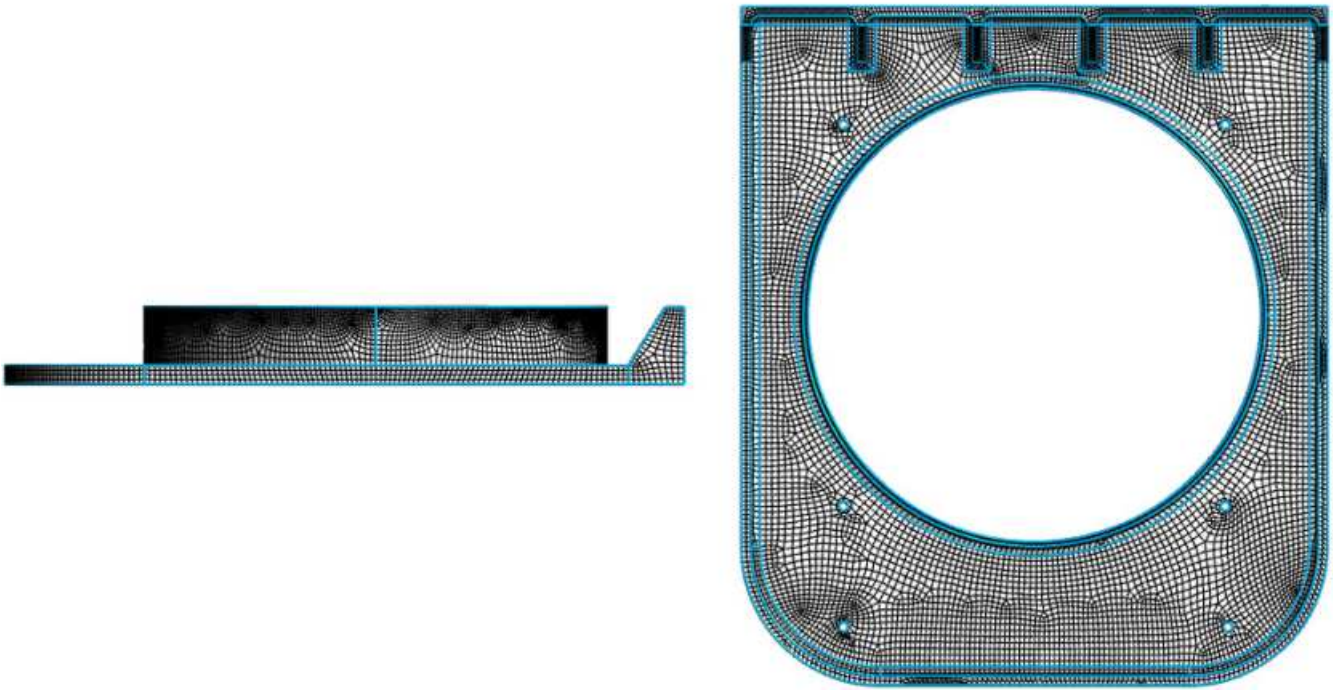
Model: 00005844 (from ABC dataset)
CAD: 125 corners, 221 curves, 89 faces
Cross field: 124 singularities detected
Timings: 20.5579 sec to generate the unstructured mesh, 137.509 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37564	42838	1693	178
Quasi-structured	39005	44279	736	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.144203	1.44133	3.87394	0.00321784	0.93527	0.983077
Quasi-structured	0.179654	1.40622	5.33246	0.105111	0.95513	0.981721



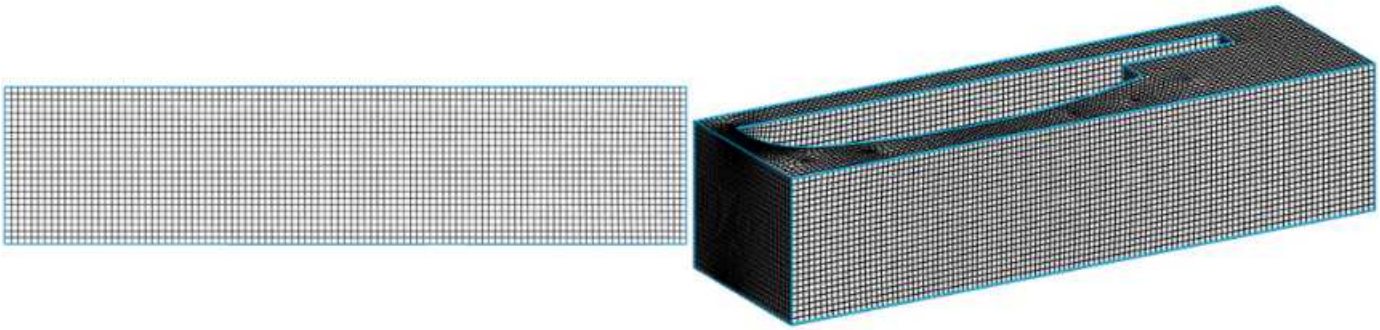


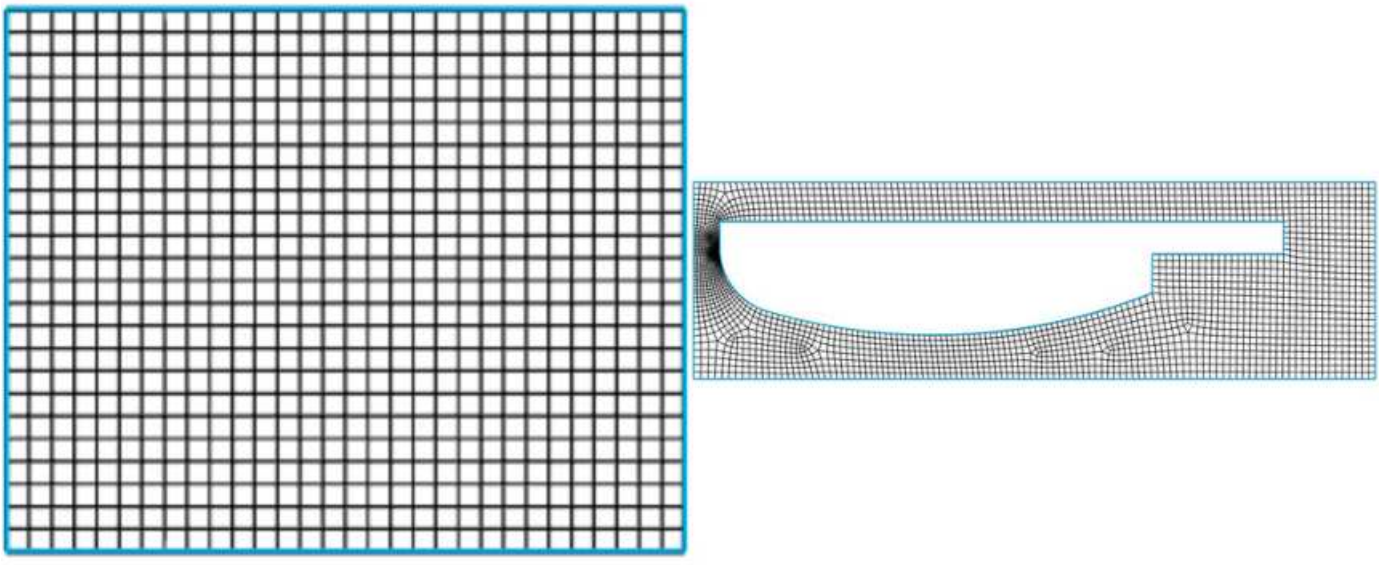
Model: 00005852 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 2 singularities detected
Timings: 9.8174 sec to generate the unstructured mesh, 127.732 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28812	31218	1035	102
Quasi-structured	29853	32259	414	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00804771	0.29881	0.786062	0.0774449	0.927234	0.994329
Quasi-structured	0.0035887	0.287673	1.06752	0.370932	0.960517	0.993317





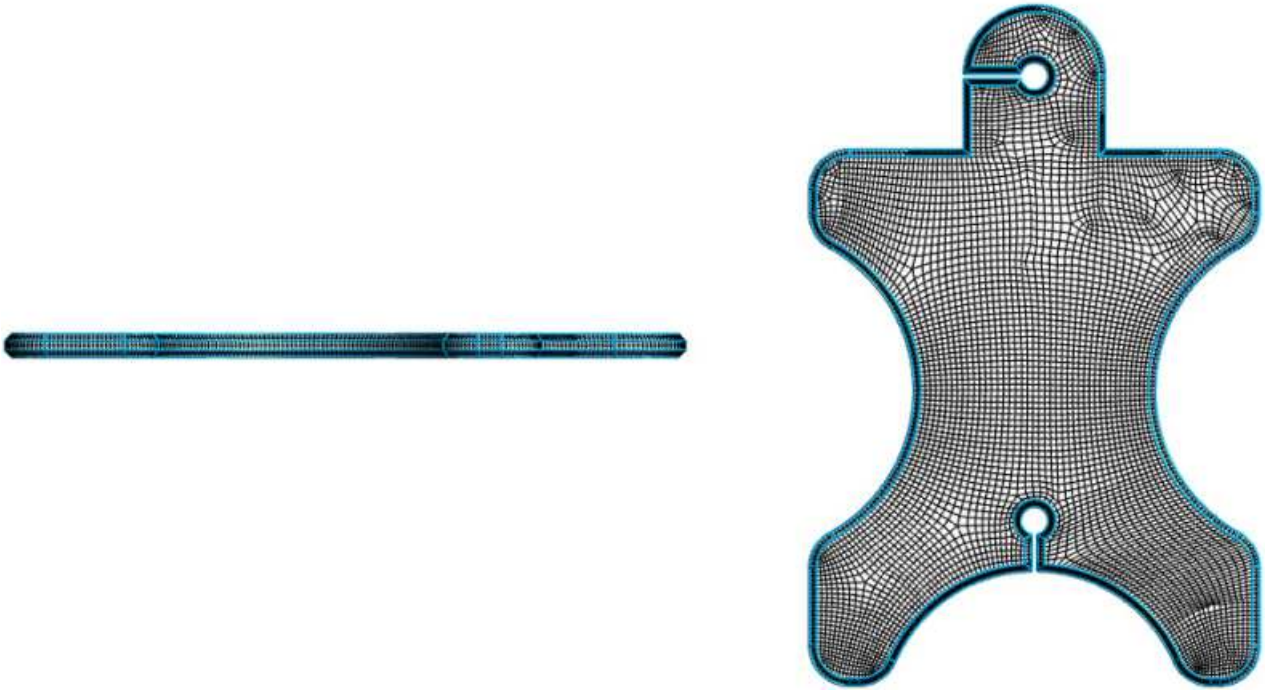
Model: 00005854 (from ABC dataset)
CAD: 124 corners, 217 curves, 95 faces
Cross field: 40 singularities detected
Timings: 12.0892 sec to generate the unstructured mesh, 7.19026 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14996	17869	597	26
Quasi-structured	15791	18664	162	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0844418	0.453326	1.10564	0.0924373	0.933383	0.977652
Quasi-structured	0.111066	0.446431	1.59762	0.356868	0.921518	0.969017



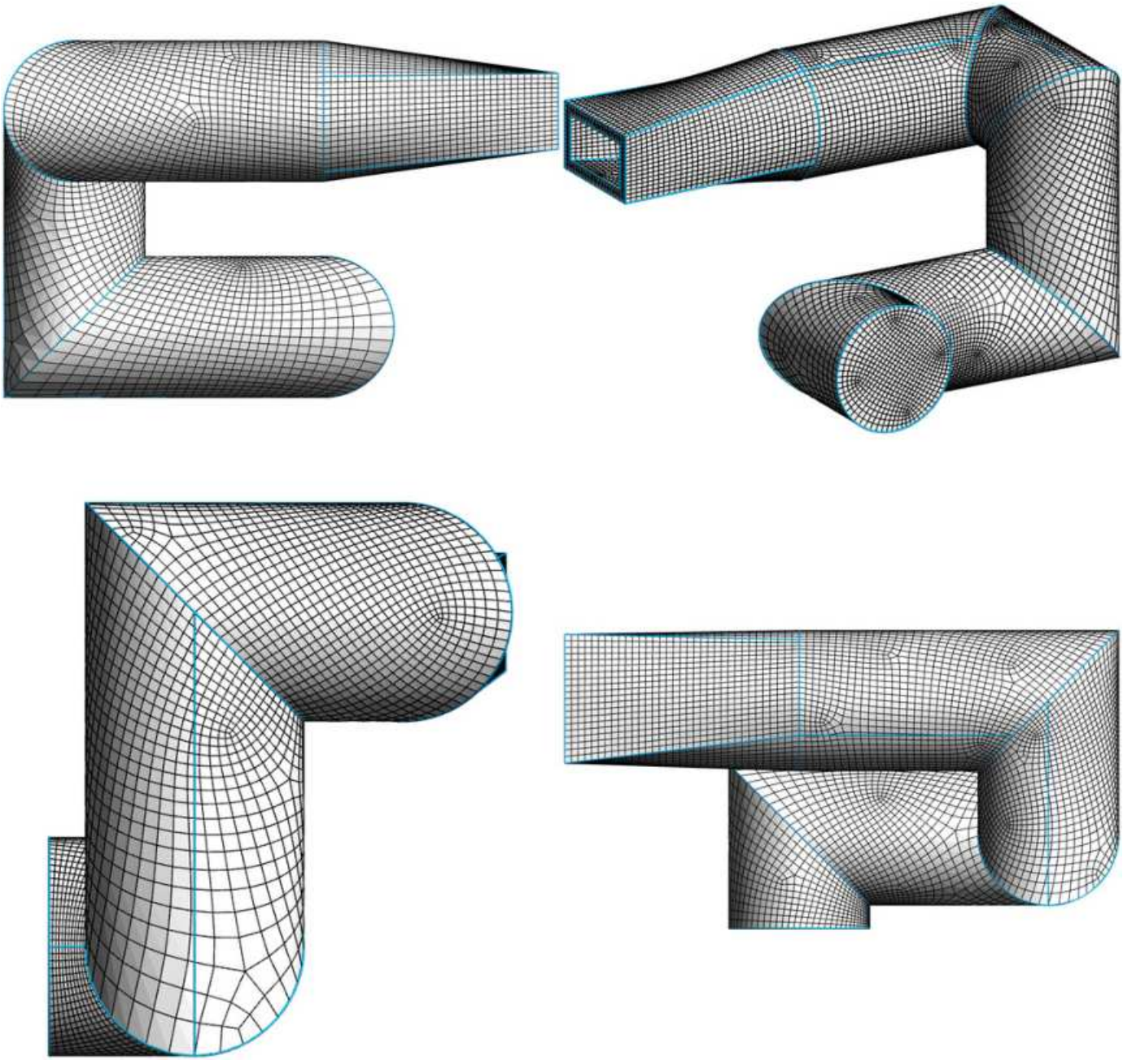


Model: 00005859 (from ABC dataset)
CAD: 34 corners, 52 curves, 21 faces
Cross field: 35 singularities detected
Timings: 18.9768 sec to generate the unstructured mesh, 4.75634 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22014	23262	586	300
Quasi-structured	22726	23974	110	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.233875	1.36006	5.11366	0.368144	0.958755	0.983508
Quasi-structured	0.285351	1.33362	6.39861	0.578789	0.972154	0.983614

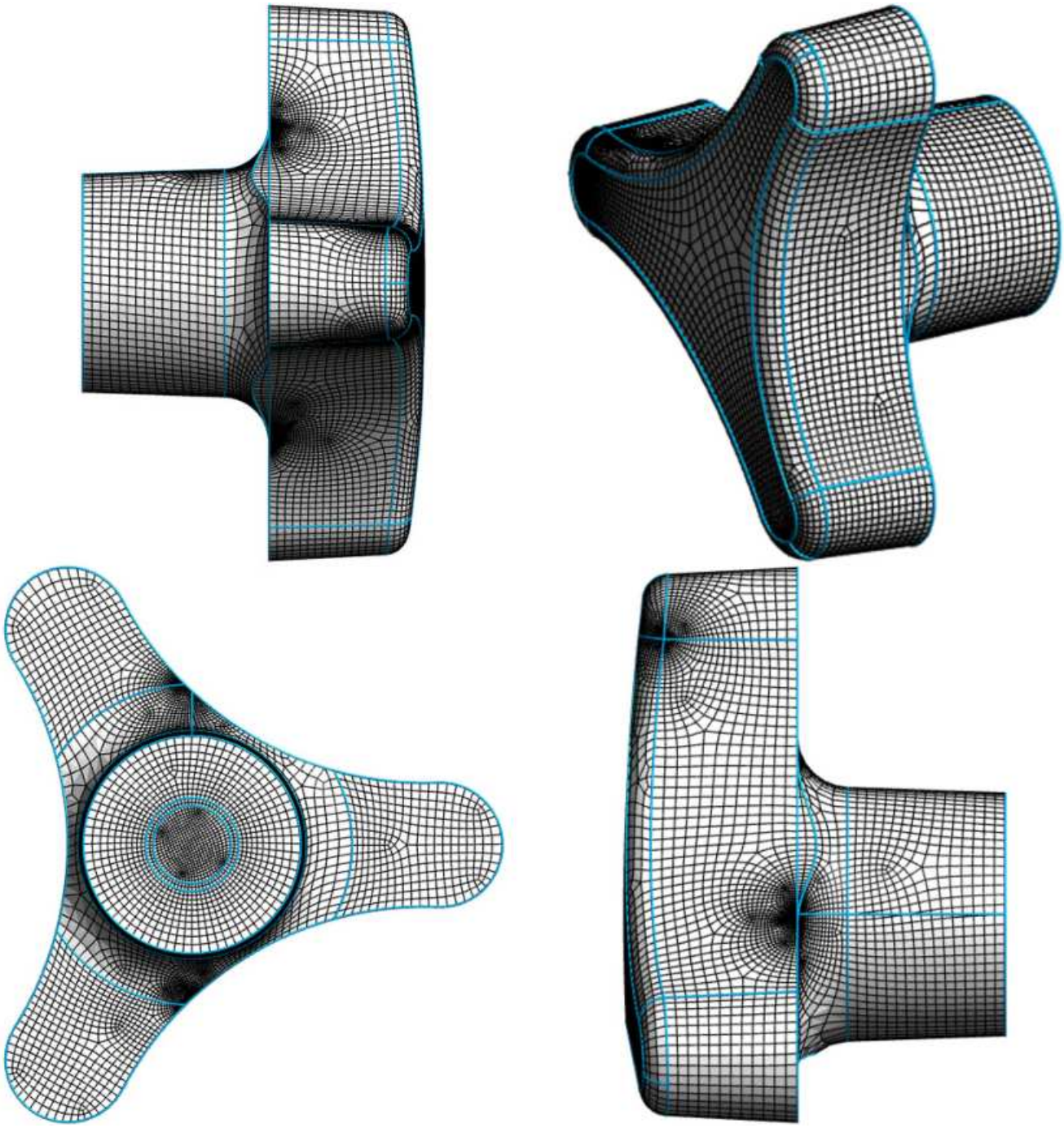


Model: 00005874 (from ABC dataset)
CAD: 43 corners, 68 curves, 29 faces
Cross field: 30 singularities detected
Timings: 15.4517 sec to generate the unstructured mesh, 18.5249 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18222	19887	840	156
Quasi-structured	18332	19997	196	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00138077	0.348322	5.5092	0.0105952	0.930473	0.982774
Quasi-structured	0.000794145	0.344417	1.786	0.0114157	0.968622	0.991785

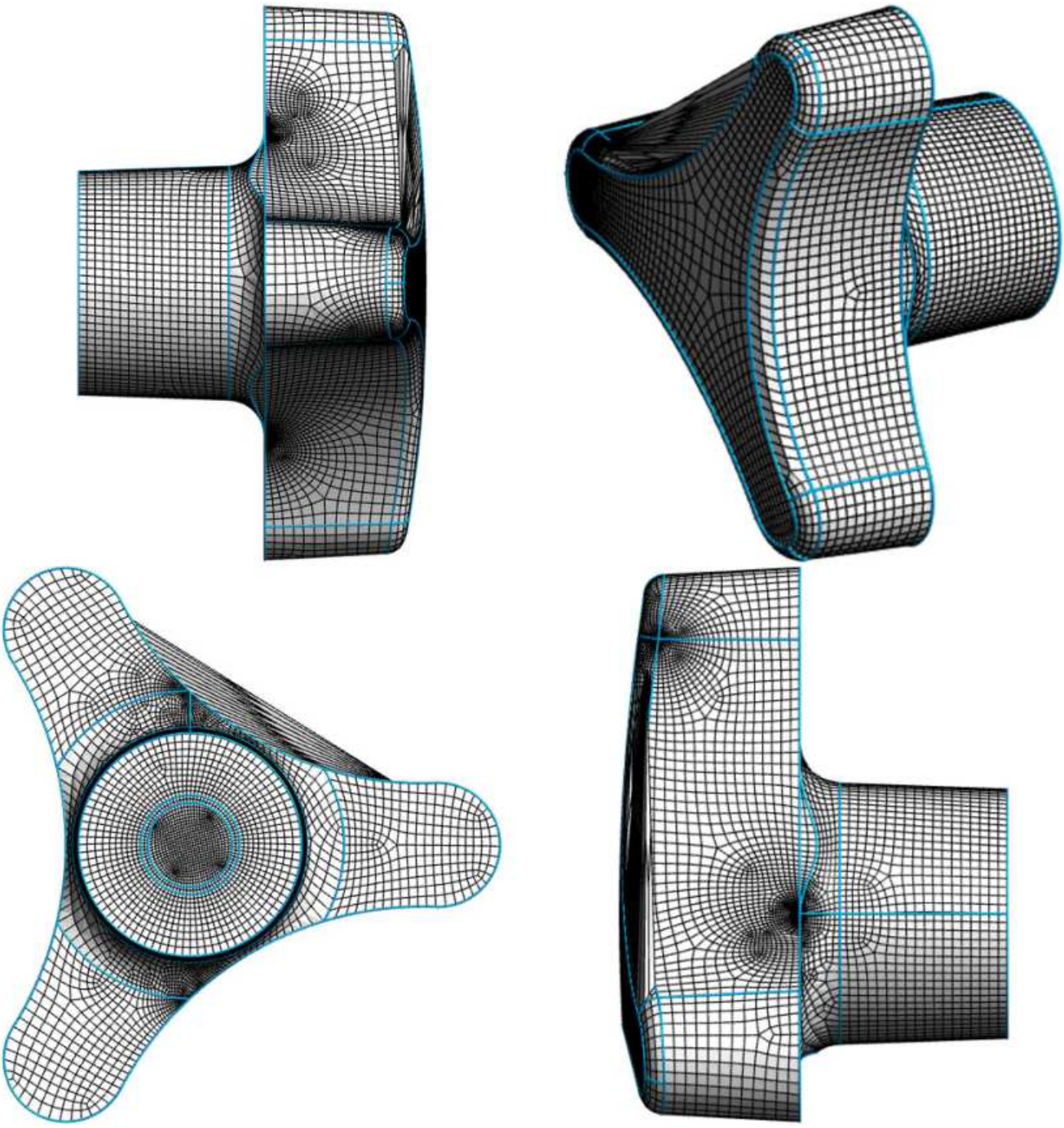


Model: 00005875 (from ABC dataset)
CAD: 43 corners, 68 curves, 29 faces
Cross field: 24 singularities detected
Timings: 15.1379 sec to generate the unstructured mesh, 19.3303 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17872	19479	826	145
Quasi-structured	17791	19398	295	4

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00267842	0.459885	14.2028	0.00145041	0.925883	0.987204
Quasi-structured	0.0021271	0.455441	14.2028	0.00243082	0.960077	0.990131

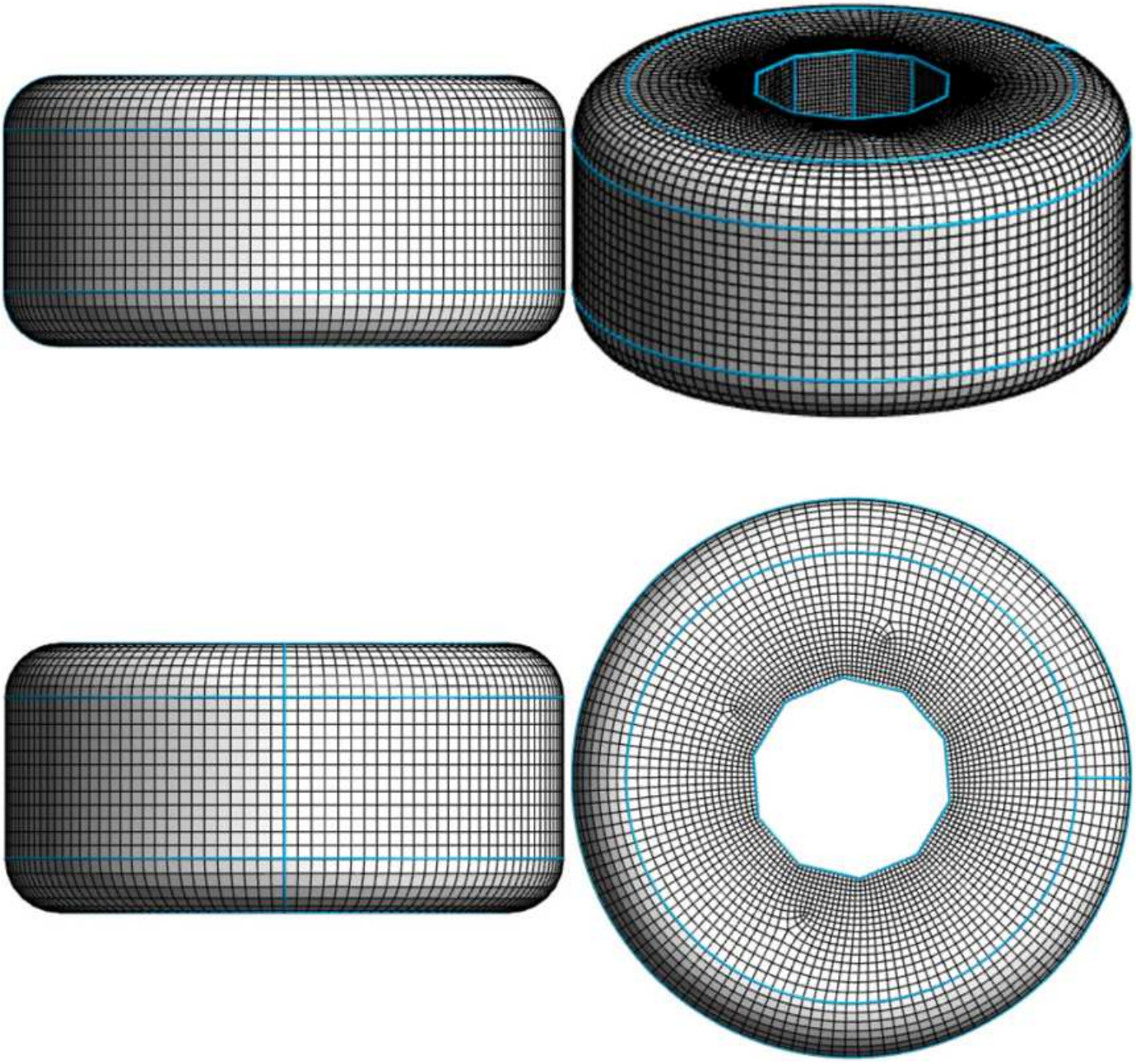


Model: 00005882 (from ABC dataset)
CAD: 24 corners, 37 curves, 15 faces
Cross field: 0 singularities detected
Timings: 10.5887 sec to generate the unstructured mesh, 1.56172 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15896	17266	140	26
Quasi-structured	15758	17128	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.179019	0.674193	1.62542	0.498924	0.976851	0.996627
Quasi-structured	0.298033	0.676103	1.43058	0.827851	0.99393	0.997287

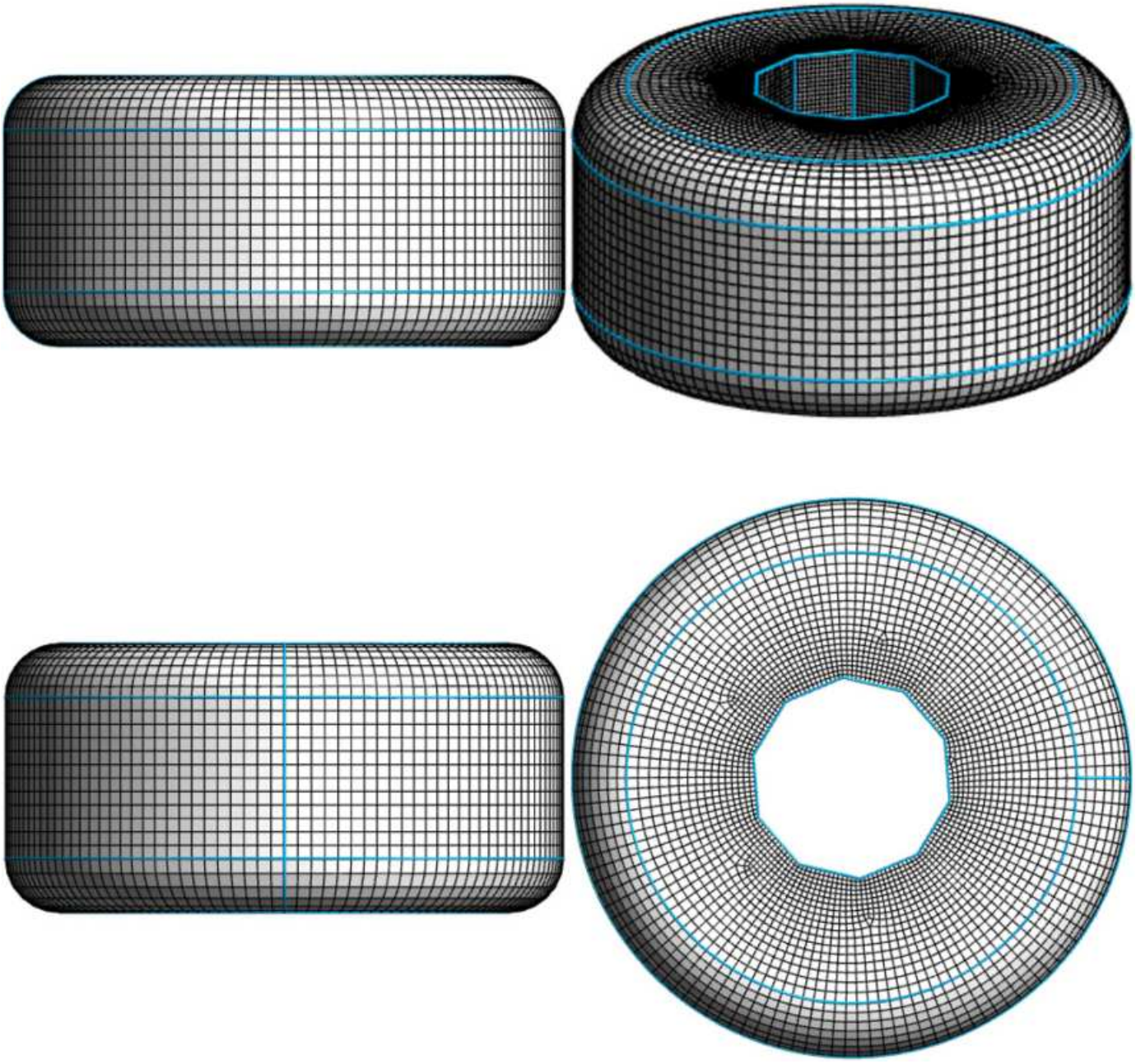


Model: 00005883 (from ABC dataset)
CAD: 24 corners, 37 curves, 15 faces
Cross field: 0 singularities detected
Timings: 8.68438 sec to generate the unstructured mesh, 1.75923 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15842	17212	138	28
Quasi-structured	15750	17120	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.178665	0.675375	1.62542	0.498924	0.976742	0.99663
Quasi-structured	0.230192	0.676371	1.42766	0.765057	0.994205	0.997291

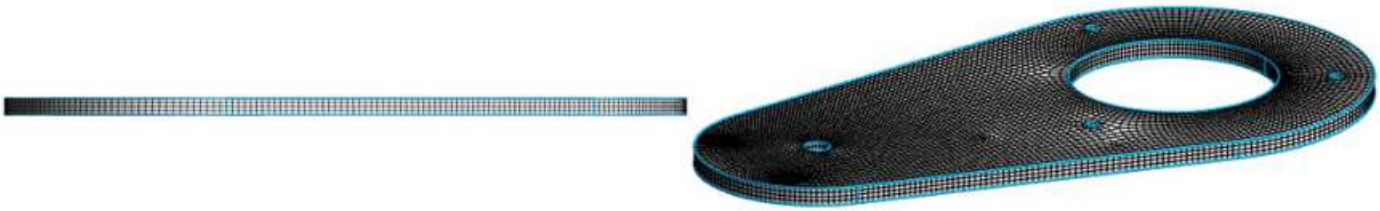


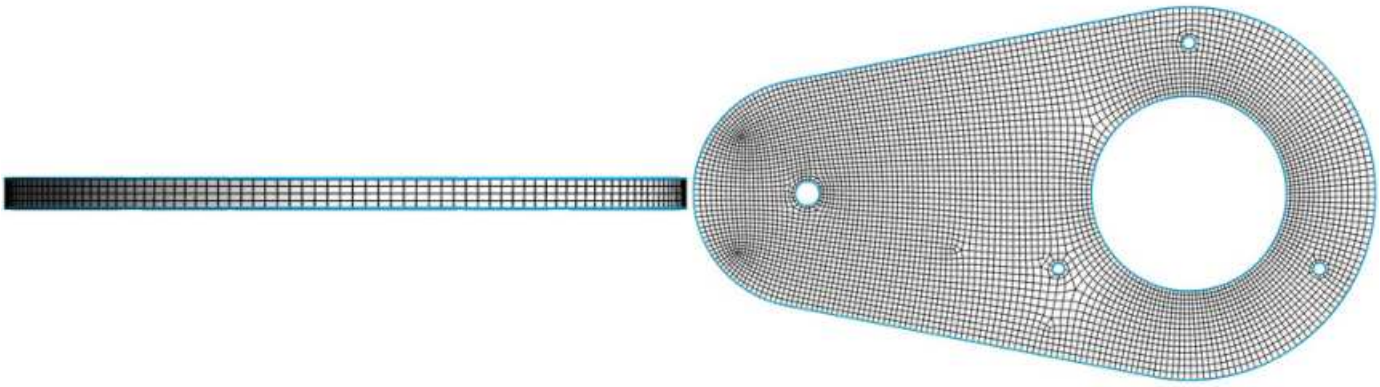
Model: 00005888 (from ABC dataset)
CAD: 20 corners, 29 curves, 11 faces
Cross field: 40 singularities detected
Timings: 14.4094 sec to generate the unstructured mesh, 4.61328 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13248	14240	231	26
Quasi-structured	13111	14103	67	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.549082	2.02354	3.99112	0.00848474	0.969946	0.995019
Quasi-structured	0.363315	2.02947	4.75313	0.320236	0.985256	0.997079



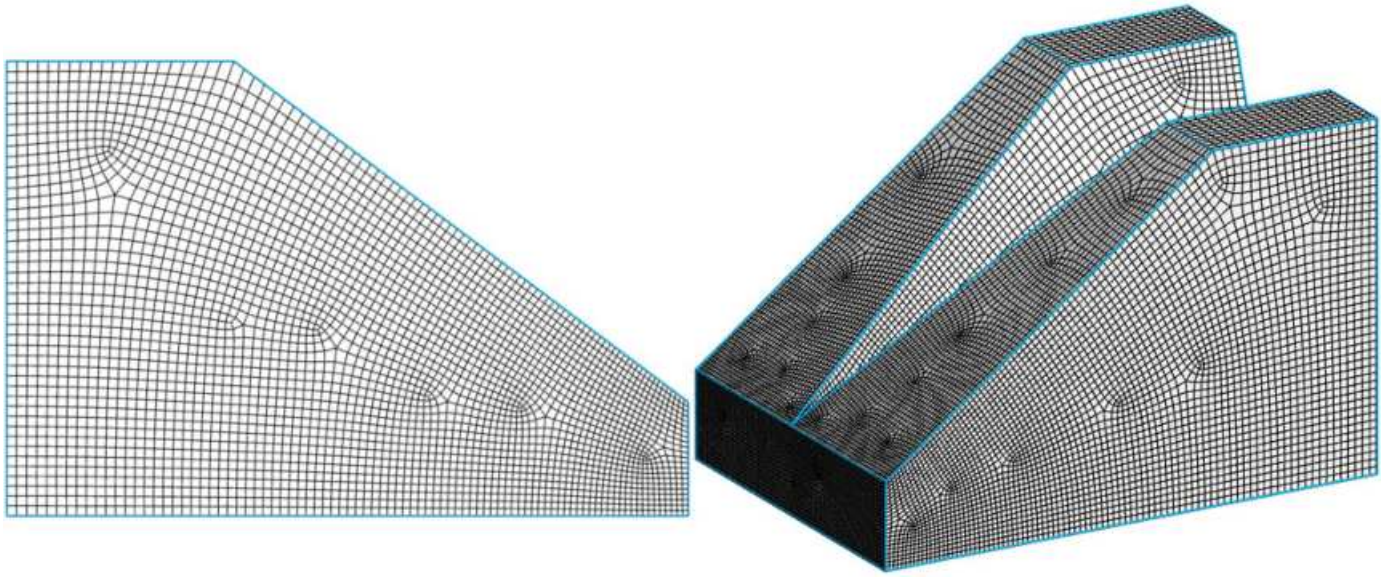


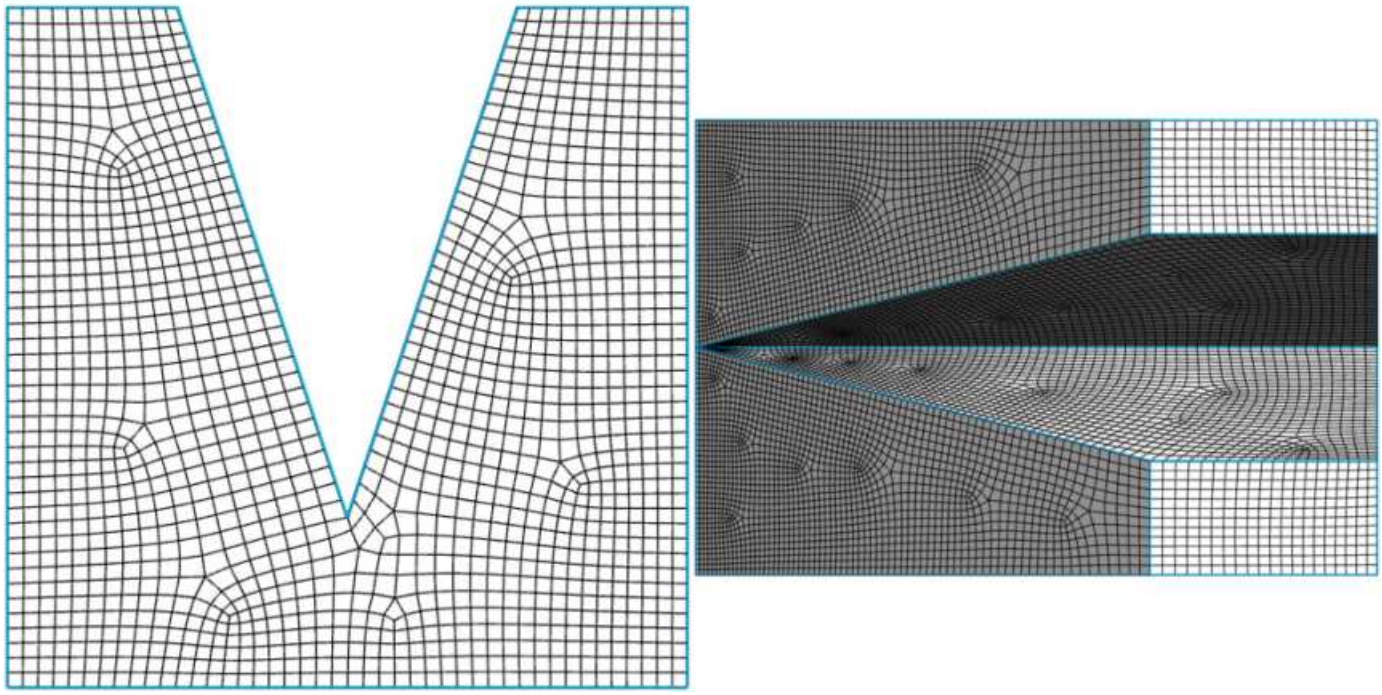
Model: 00005894 (from ABC dataset)
CAD: 16 corners, 25 curves, 11 faces
Cross field: 0 singularities detected
Timings: 12.6804 sec to generate the unstructured mesh, 10.3296 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22614	23713	331	3
Quasi-structured	22534	23633	125	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.462066	1.80568	4.29179	0.526671	0.983007	0.997373
Quasi-structured	0.371534	1.80192	5.21551	0.552242	0.992285	0.997966



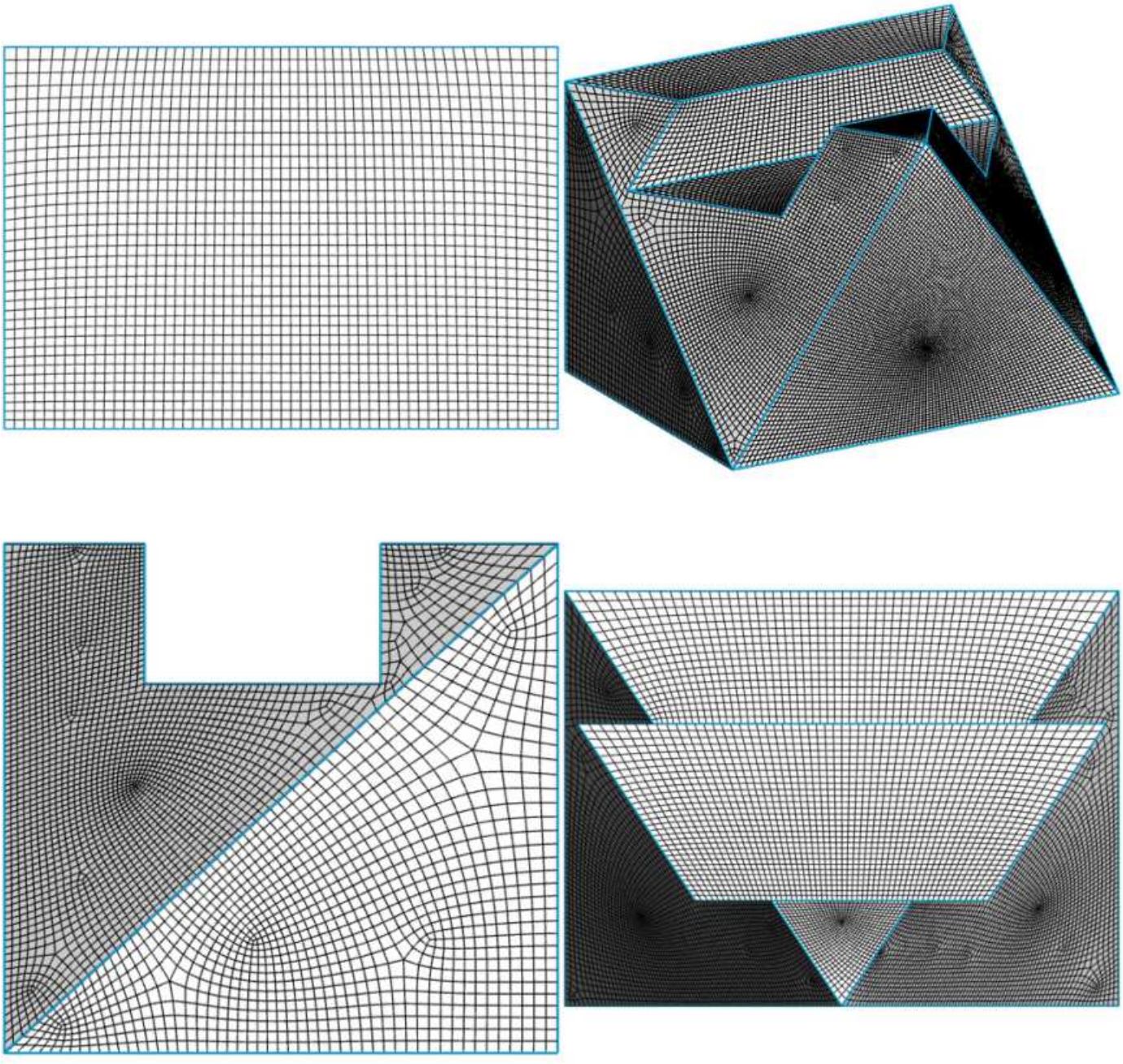


Model: 00005898 (from ABC dataset)
CAD: 15 corners, 25 curves, 12 faces
Cross field: 8 singularities detected
Timings: 16.3969 sec to generate the unstructured mesh, 8.90545 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21768	22890	447	3
Quasi-structured	23659	24781	74	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	6.5663	31.4792	89.3625	0.479615	0.966896	0.991481
Quasi-structured	4.83574	29.8021	100.453	0.507793	0.976735	0.991697

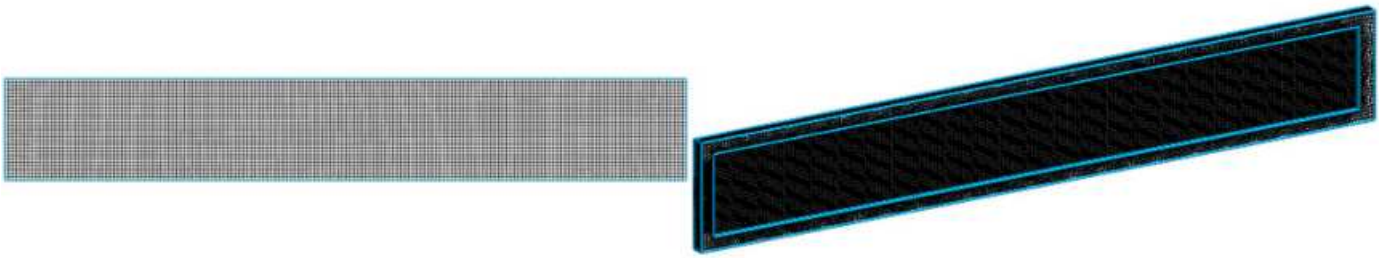


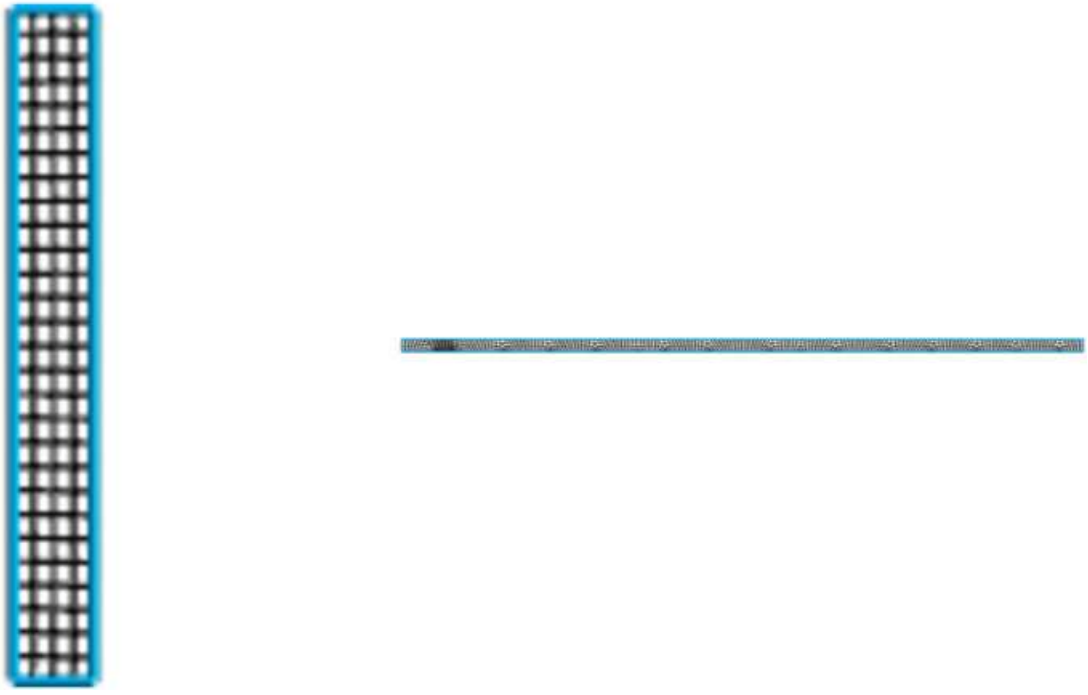
Model: 00005904 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 2.74771 sec to generate the unstructured mesh, 33.4939 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27354	29884	416	4
Quasi-structured	27107	29637	166	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.43284	3.91971	7.0749	0.542883	0.984538	0.999773
Quasi-structured	1.08566	3.96362	10.5593	0.469999	0.974786	0.999773



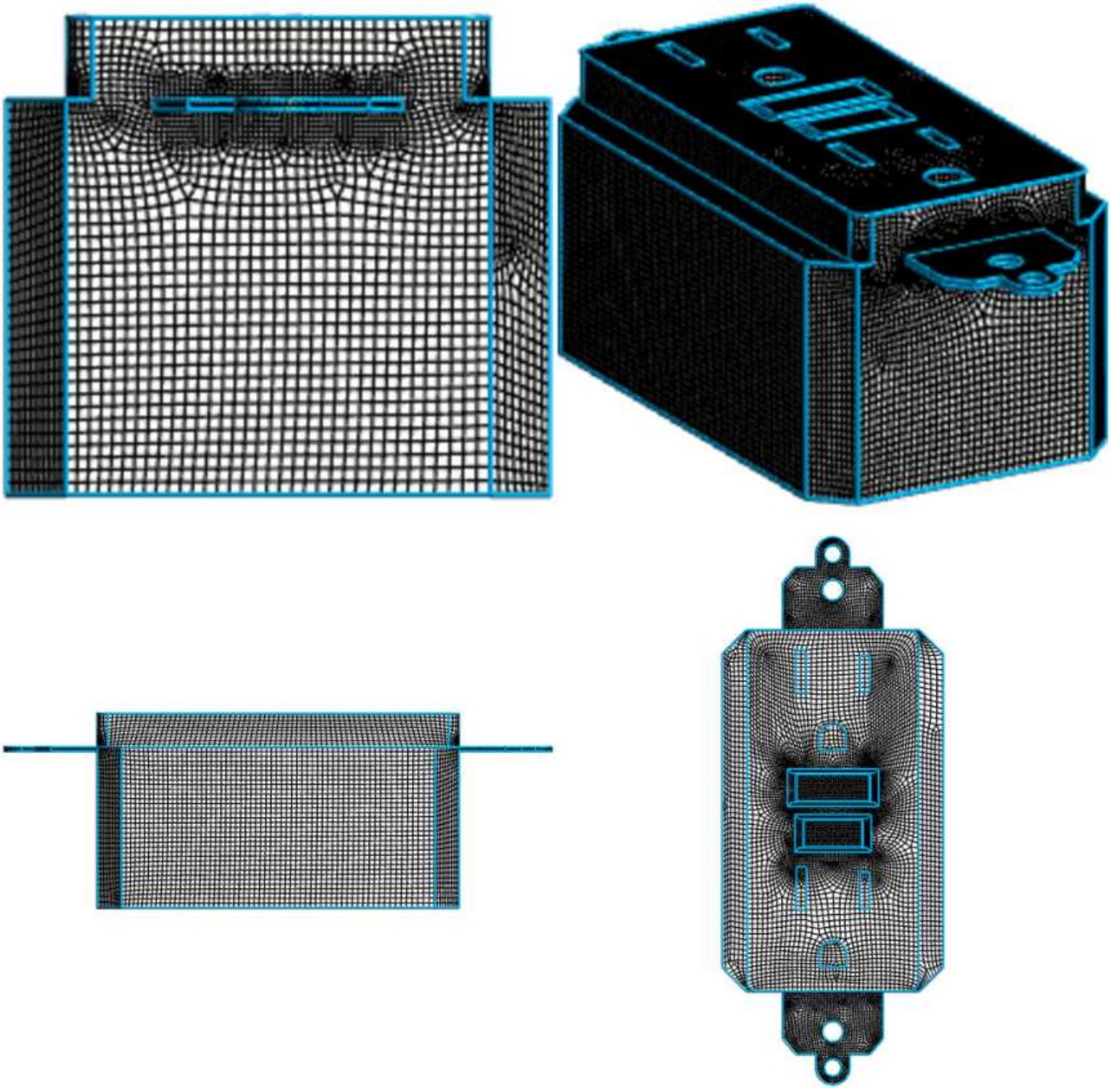


Model: 00005913 (from ABC dataset)
CAD: 177 corners, 265 curves, 102 faces
Cross field: 57 singularities detected
Timings: 10.1331 sec to generate the unstructured mesh, 13.1237 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40112	45106	1730	118
Quasi-structured	41588	46582	499	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0463786	0.525889	1.50793	0.206837	0.935435	0.984599
Quasi-structured	0.029556	0.516884	2.10713	0.194003	0.94461	0.978992

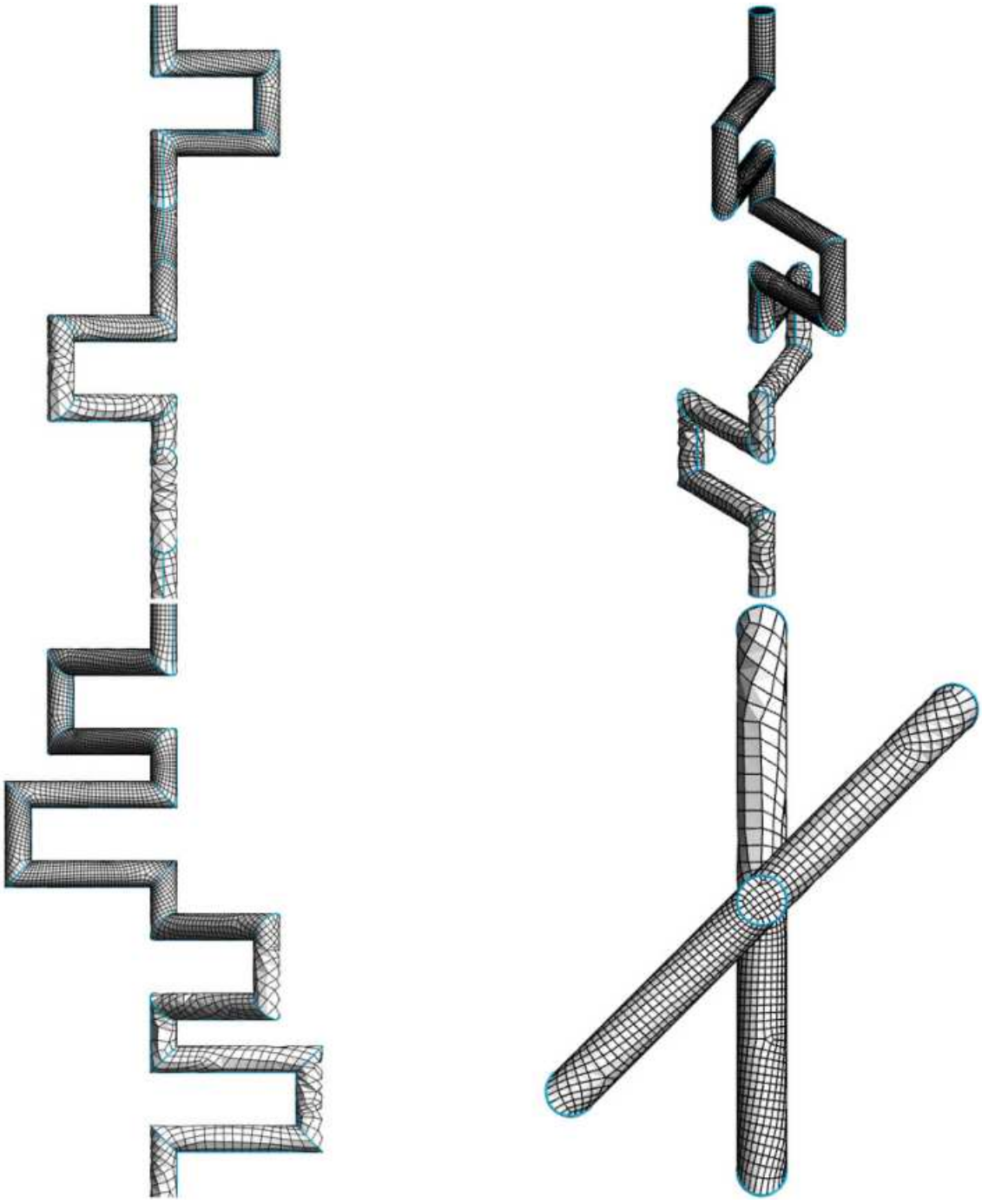


Model: 00005914 (from ABC dataset)
CAD: 27 corners, 44 curves, 19 faces
Cross field: 48 singularities detected
Timings: 9.0672 sec to generate the unstructured mesh, 1.50621 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6068	6414	358	314
Quasi-structured	6113	6459	114	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.595996	2.25905	8.74967	0.257284	0.928545	0.97525
Quasi-structured	0.746029	2.23779	9.52181	0.252026	0.957204	0.983105

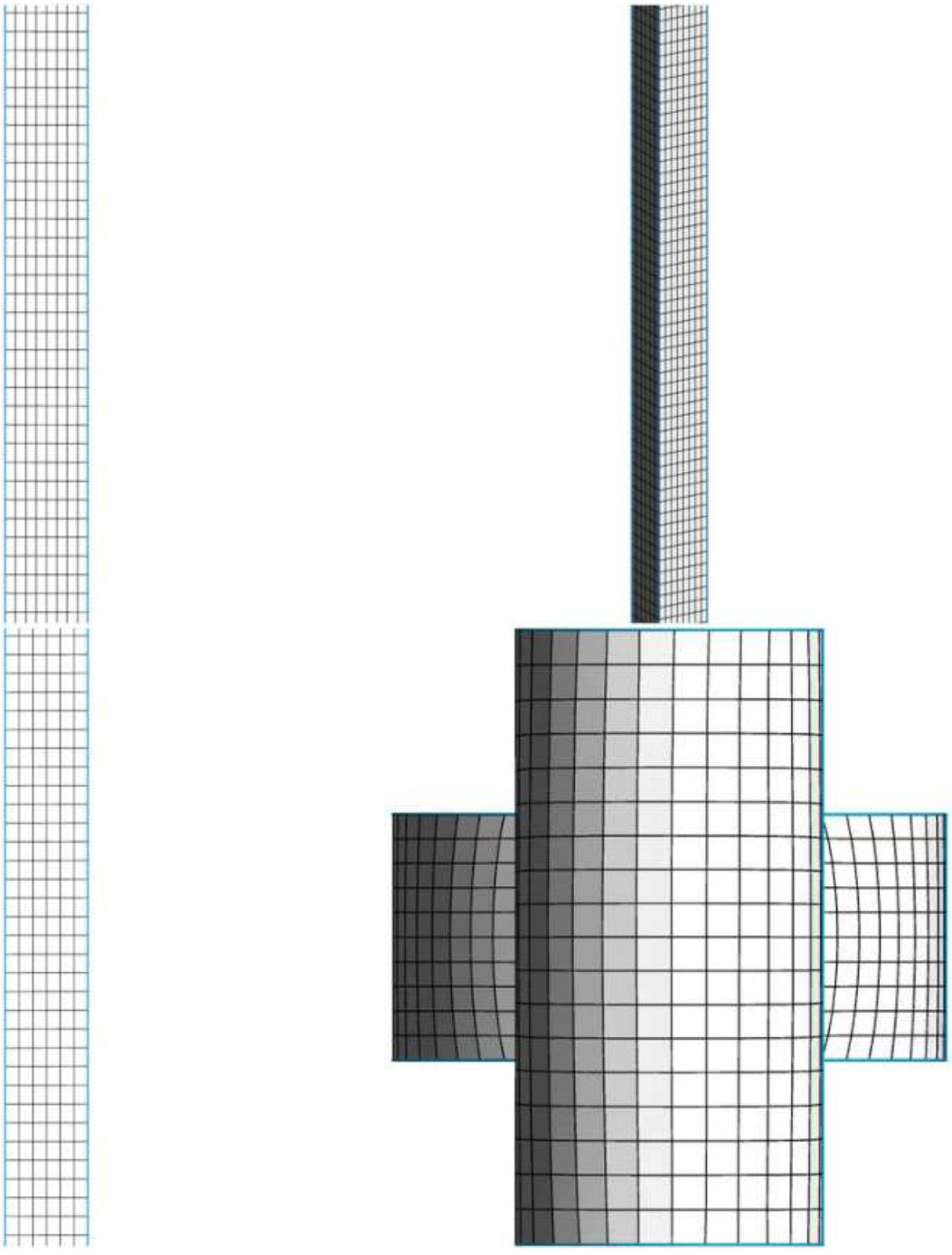


Model: 00005915 (from ABC dataset)
CAD: 14 corners, 21 curves, 11 faces
Cross field: 8 singularities detected
Timings: 2.35627 sec to generate the unstructured mesh, 0.448126 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	4384	5028	58	40
Quasi-structured	4522	5166	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.269326	1.13959	2.08629	0.220129	0.922175	0.948242
Quasi-structured	0.485866	1.12425	2.02593	0.656663	0.929598	0.95505

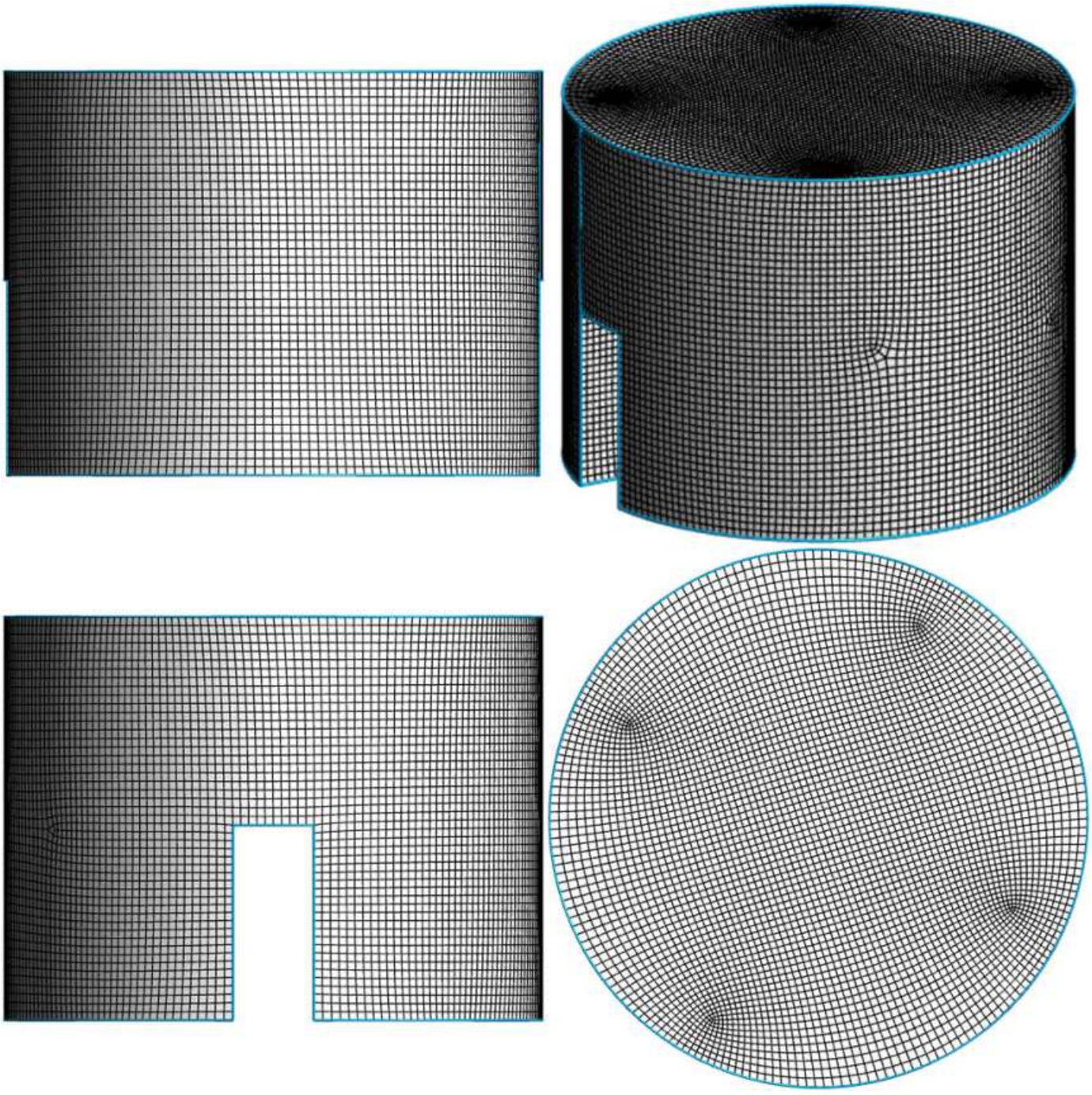


Model: 00005916 (from ABC dataset)
CAD: 16 corners, 23 curves, 11 faces
Cross field: 24 singularities detected
Timings: 15.1809 sec to generate the unstructured mesh, 2.47975 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24520	25612	300	65
Quasi-structured	25032	26124	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.185508	0.711586	1.28707	0.404031	0.980147	0.994357
Quasi-structured	0.156994	0.701352	1.6376	0.665052	0.992938	0.997749

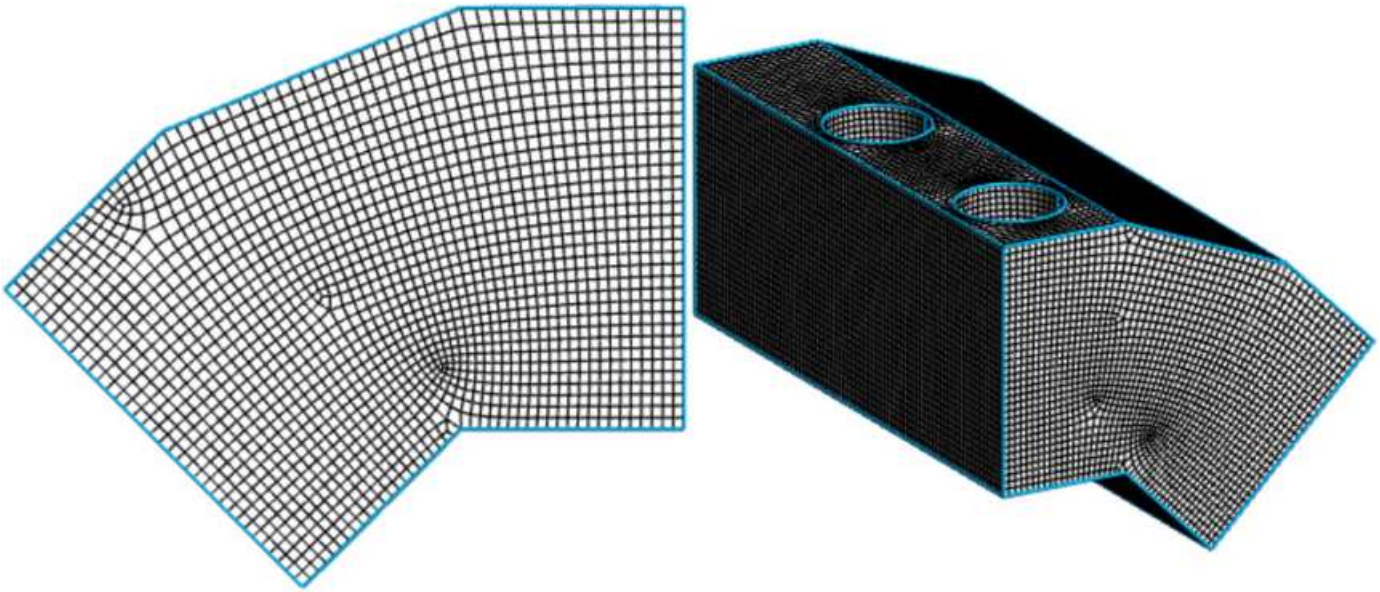


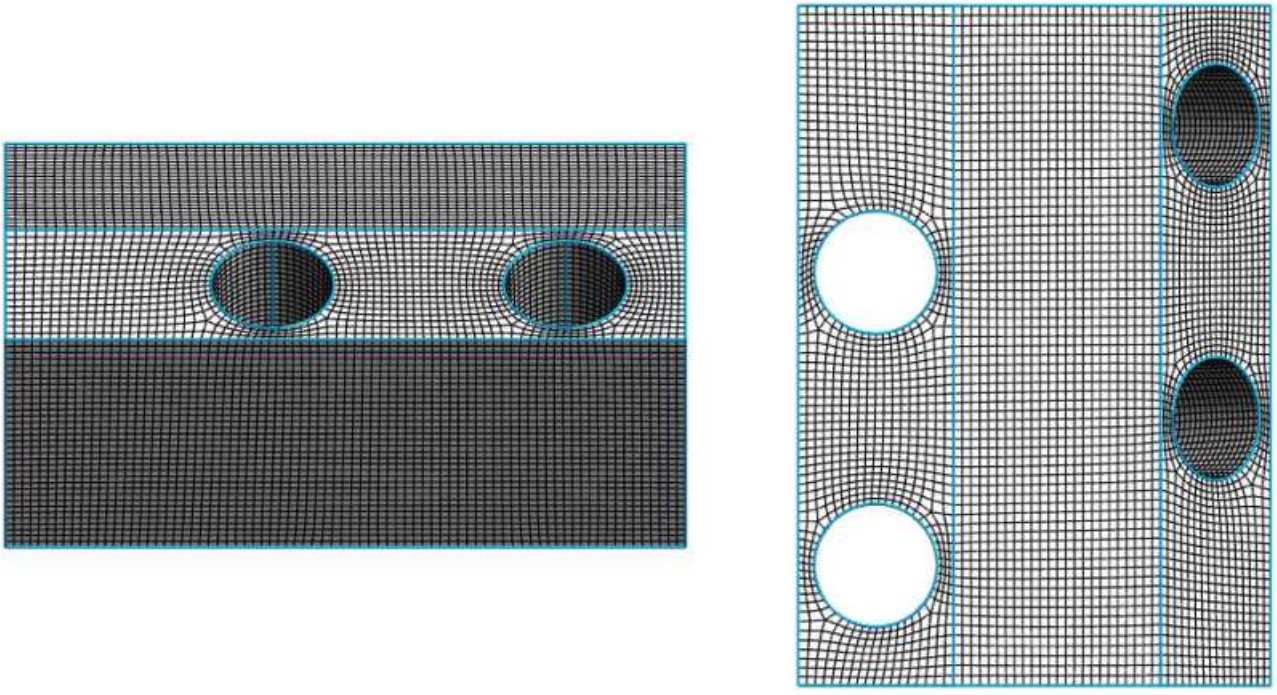
Model: 00005917 (from ABC dataset)
CAD: 26 corners, 37 curves, 13 faces
Cross field: 34 singularities detected
Timings: 17.3867 sec to generate the unstructured mesh, 3.88457 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23548	24859	310	159
Quasi-structured	24309	25620	66	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.0078	3.5356	6.45899	0.396044	0.98103	0.996425
Quasi-structured	1.24152	3.47113	7.10535	0.610586	0.989631	0.998841



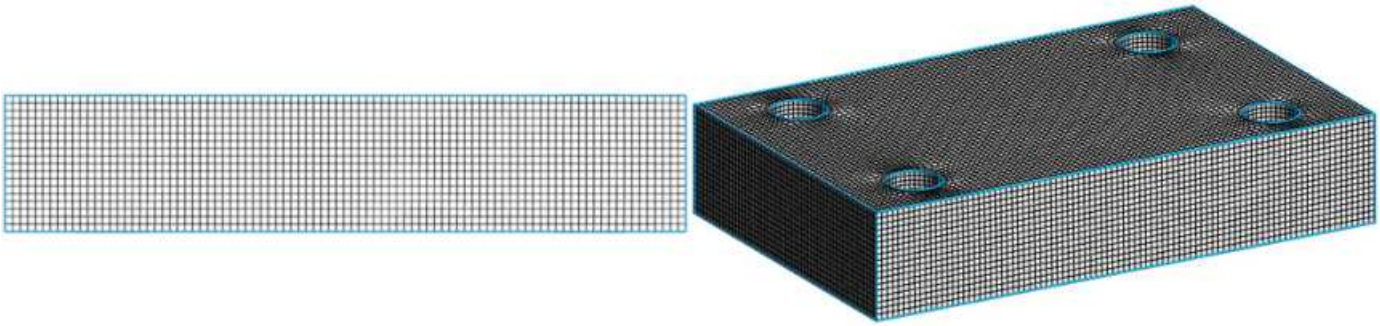


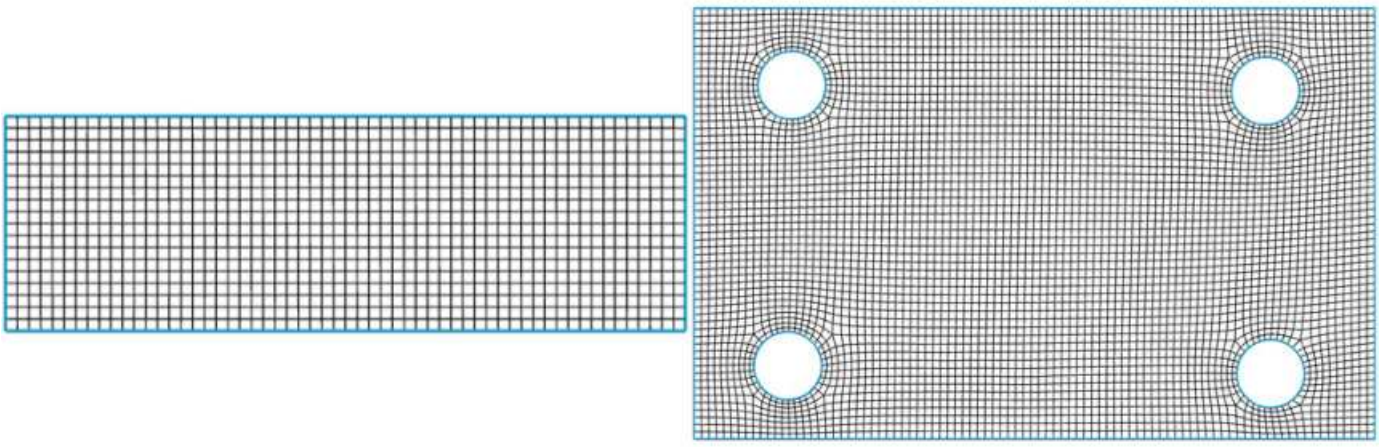
Model: 00005921 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 32 singularities detected
Timings: 10.5217 sec to generate the unstructured mesh, 1.43873 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18538	19488	168	96
Quasi-structured	18744	19694	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.21333	0.638726	1.03807	0.482428	0.986087	0.999678
Quasi-structured	0.342577	0.633753	1.15603	0.732912	0.994268	0.998943



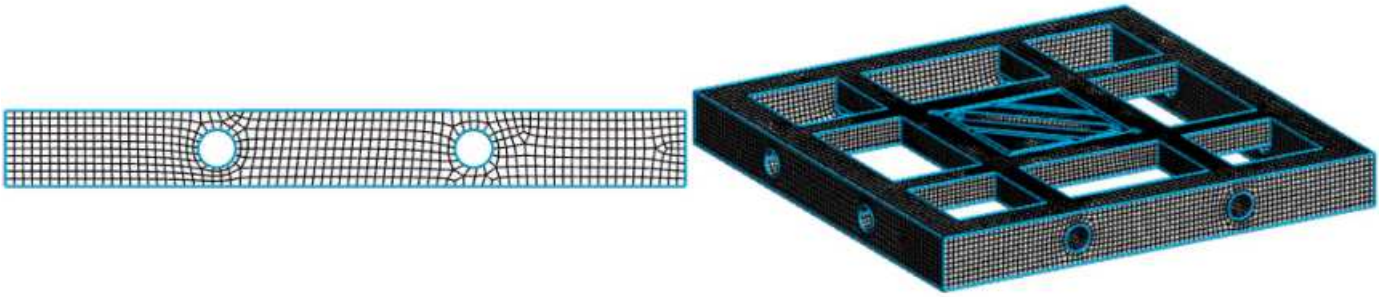


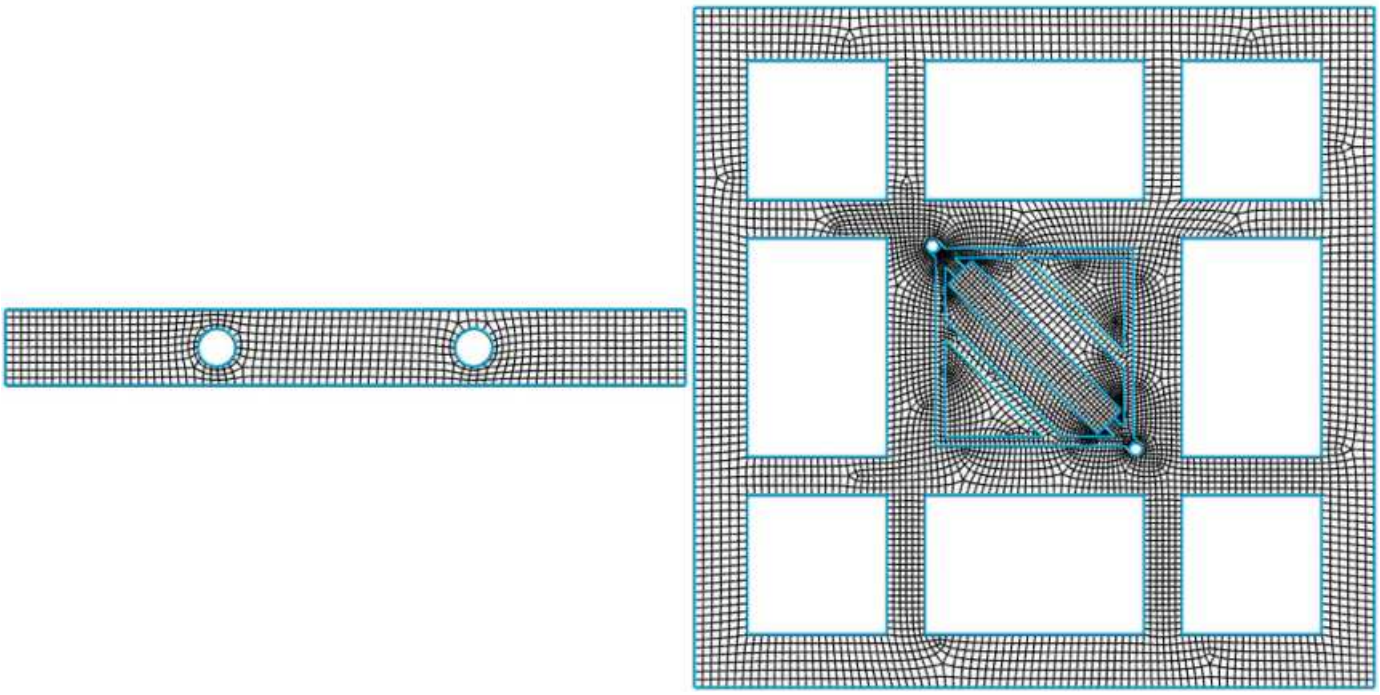
Model: 00005933 (from ABC dataset)
CAD: 158 corners, 248 curves, 79 faces
Cross field: 89 singularities detected
Timings: 13.2282 sec to generate the unstructured mesh, 13.447 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27116	31656	1066	181
Quasi-structured	28131	32671	340	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0188471	0.51394	1.18921	0.00741056	0.943678	0.984593
Quasi-structured	0.00501987	0.503469	1.32396	0.0650571	0.959009	0.986042



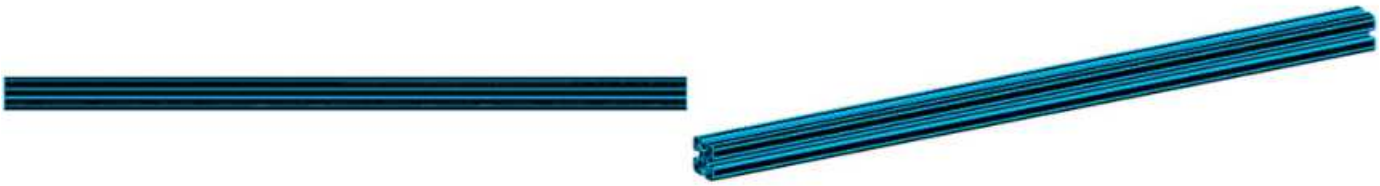


Model: 00005972 (from ABC dataset)
CAD: 146 corners, 219 curves, 75 faces
Cross field: 110 singularities detected
Timings: 19.8244 sec to generate the unstructured mesh, 10959 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	660342	754678	14045	1088
Quasi-structured	660957	755293	12776	7

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0493661	0.308694	2.78572	0.159038	0.921838	0.950682
Quasi-structured	0.0834417	0.307012	4.41803	0.214894	0.939985	0.959818





Model: 00005973 (from ABC dataset)
CAD: 146 corners, 219 curves, 75 faces
Cross field: 91 singularities detected
Timings: 19.8088 sec to generate the unstructured mesh, 8556.18 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	577414	661910	12786	950
Quasi-structured	577820	662316	11378	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0741327	0.31386	2.92956	0.116379	0.922714	0.951931
Quasi-structured	0.0478503	0.312359	4.07119	0.239315	0.939792	0.959889

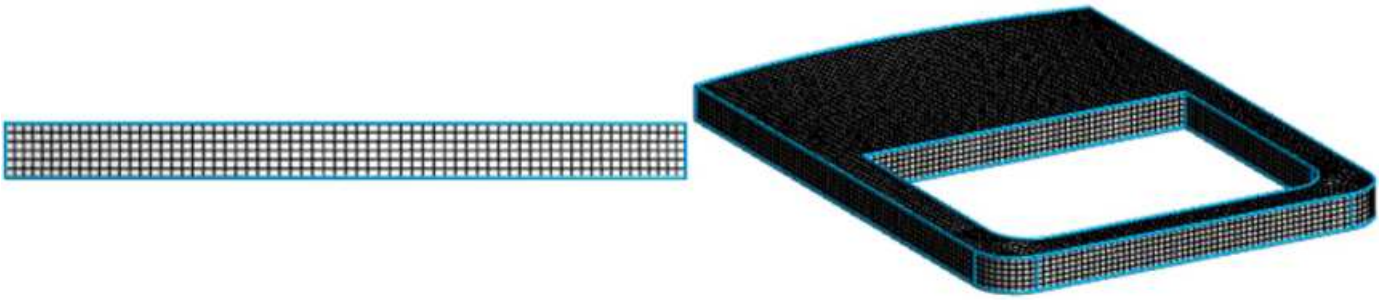


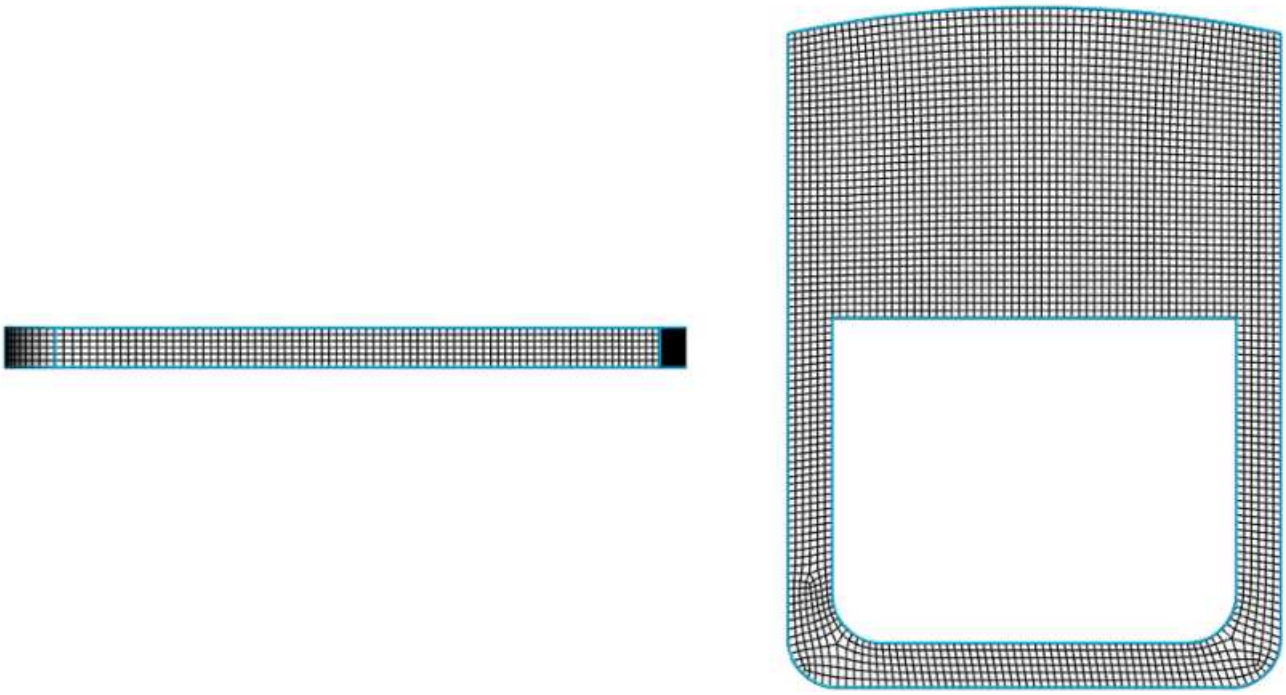
Model: 00006005 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 8 singularities detected
Timings: 5.79108 sec to generate the unstructured mesh, 0.815638 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10086	11166	44	5
Quasi-structured	10080	11160	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.167169	0.373202	0.713772	0.587603	0.989194	0.998354
Quasi-structured	0.203448	0.372791	0.701426	0.781931	0.993927	0.998292



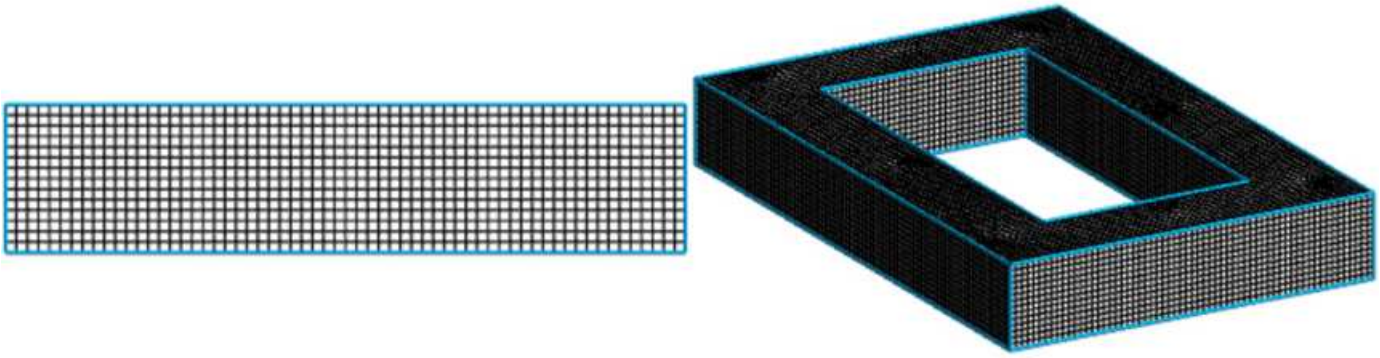


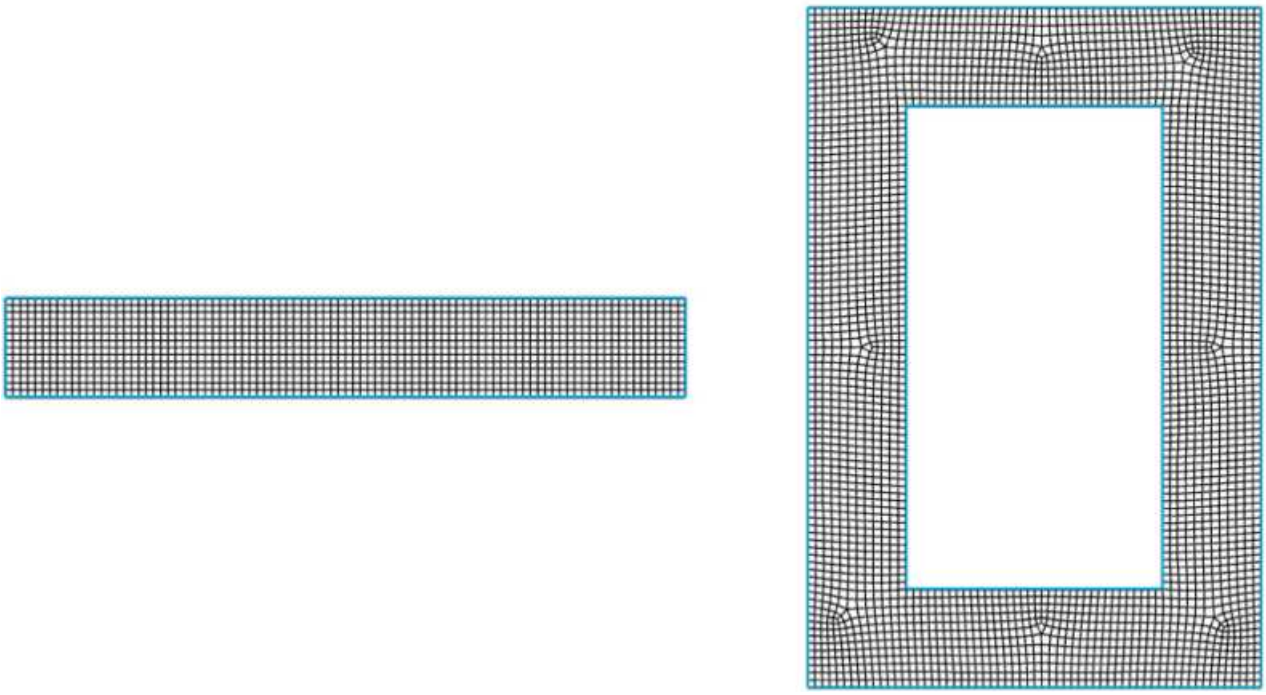
Model: 00006007 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 5.68599 sec to generate the unstructured mesh, 1.32237 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13436	14580	48	0
Quasi-structured	13382	14526	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.160766	0.3768	0.633433	0.599985	0.987152	0.999254
Quasi-structured	0.222041	0.376763	0.578604	0.832933	0.995085	0.998811





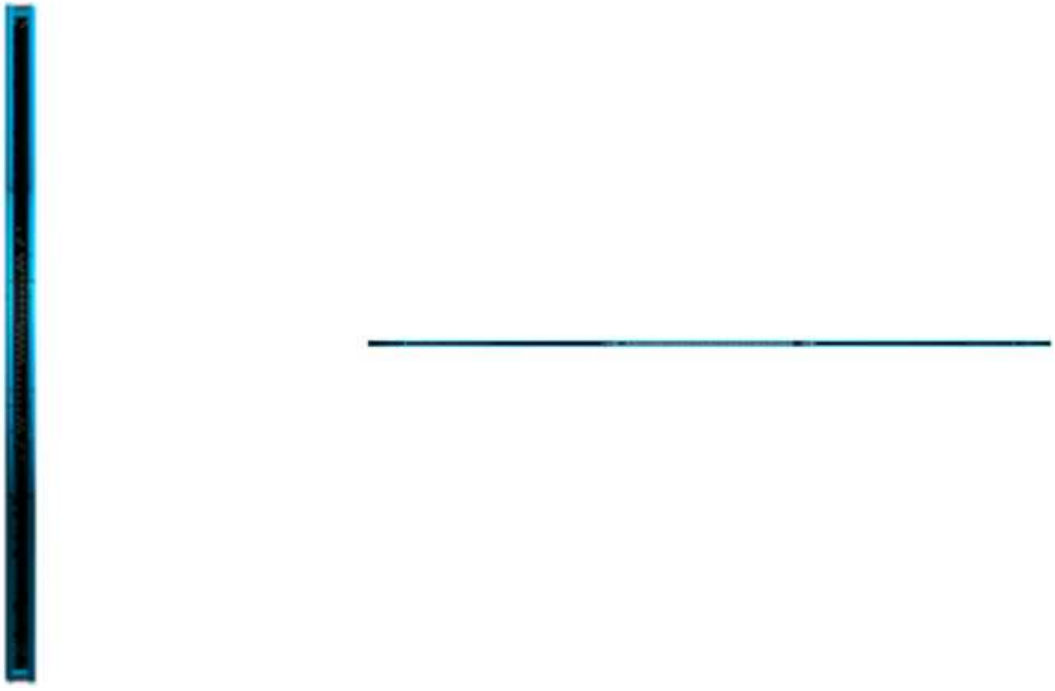
Model: 00006023 (from ABC dataset)
CAD: 188 corners, 282 curves, 96 faces
Cross field: 152 singularities detected
Timings: 13.1971 sec to generate the unstructured mesh, 17.2911 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21742	26172	2069	259
Quasi-structured	22127	26557	304	4

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.126638	0.682135	1.46087	0.206149	0.891341	0.949644
Quasi-structured	0.144193	0.681375	2.94872	0.342256	0.910236	0.964699



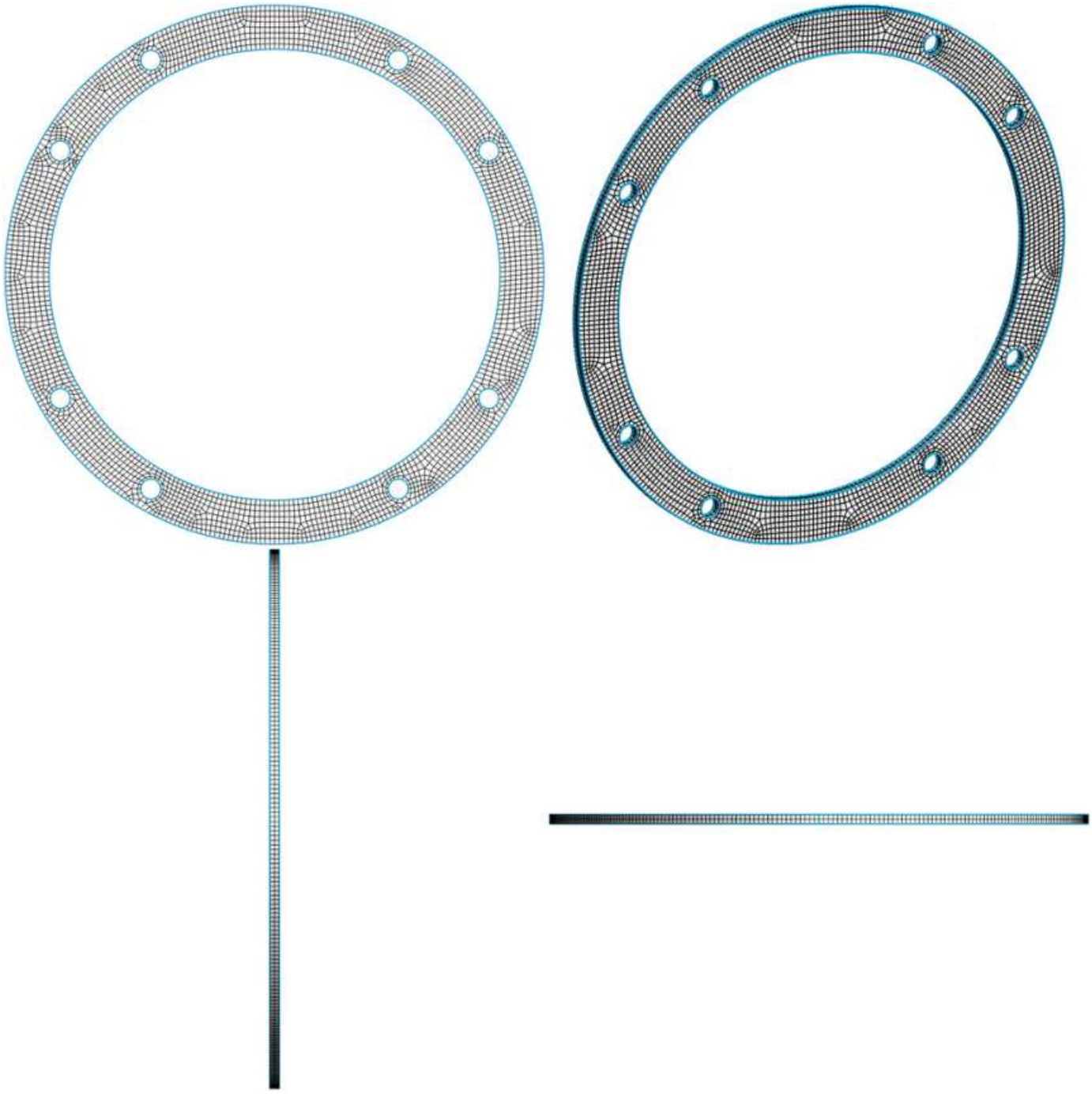


Model: 00006024 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 64 singularities detected
Timings: 3.05056 sec to generate the unstructured mesh, 6.86565 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6862	8426	324	36
Quasi-structured	6907	8471	164	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.230754	0.787235	1.32483	0.231453	0.947625	0.991708
Quasi-structured	0.222032	0.784593	1.4261	0.47289	0.961916	0.983269

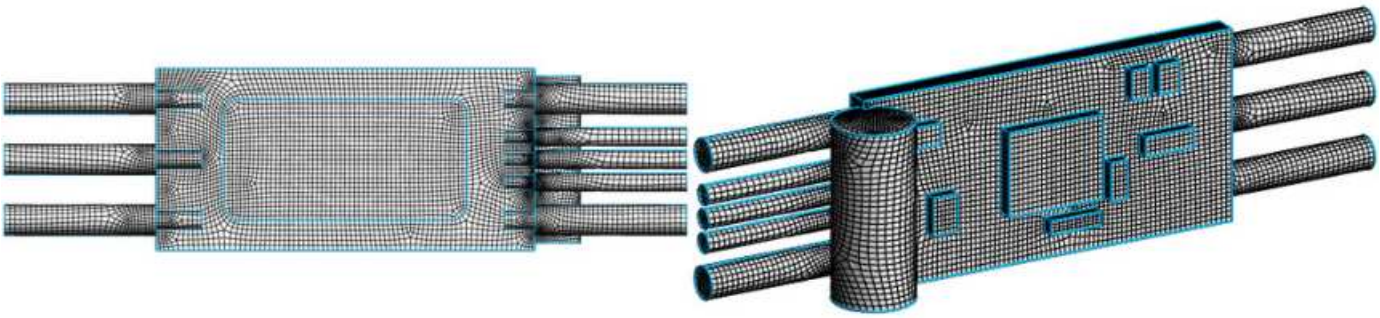


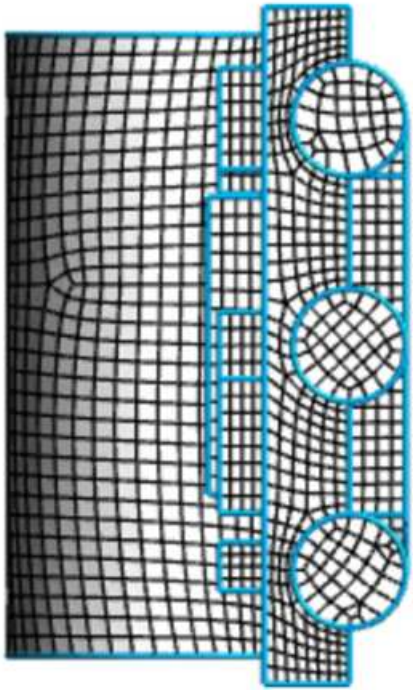
Model: 00006035 (from ABC dataset)
CAD: 150 corners, 237 curves, 98 faces
Cross field: 80 singularities detected
Timings: 6.7152 sec to generate the unstructured mesh, 5.36354 sec to make it quasi-structured
Mesh topology:

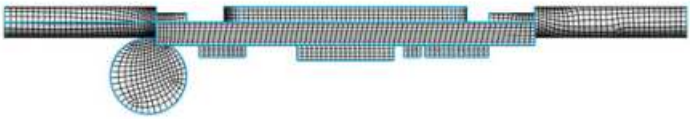
	# quads	# vertices	# irregular	# very irregular
Unstructured	18382	20959	818	273
Quasi-structured	19364	21941	298	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0322738	0.271011	0.625164	0.162592	0.938487	0.975945
Quasi-structured	0.0202212	0.263325	0.85755	0.306095	0.953207	0.980671





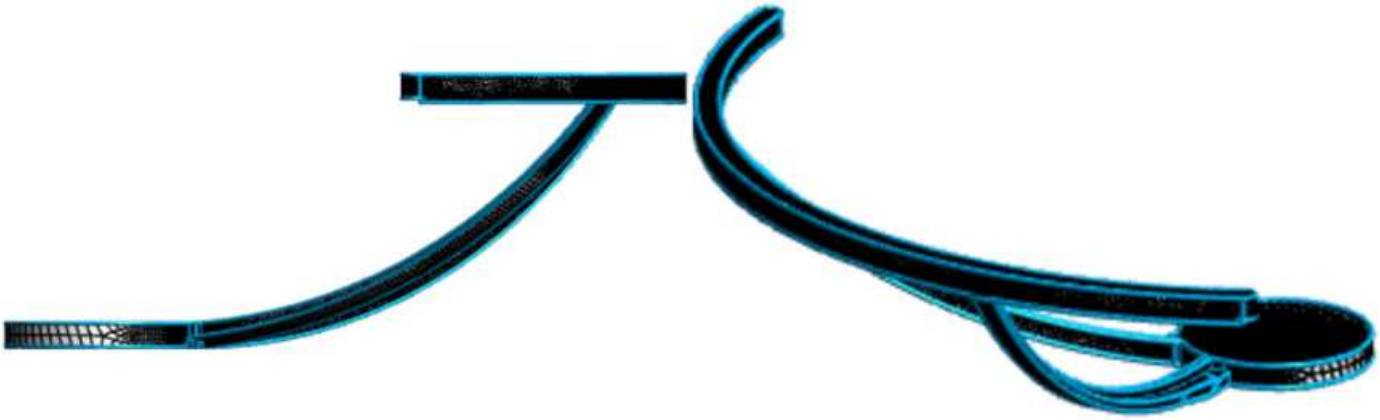


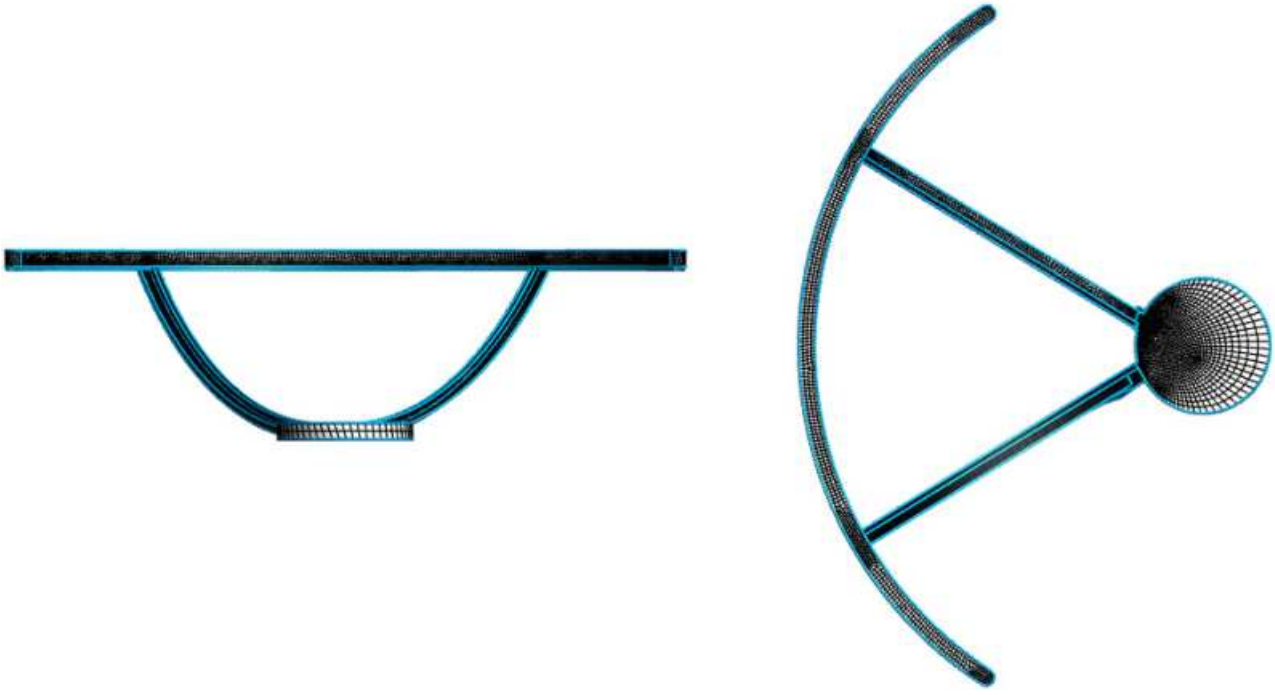
Model: 00006037 (from ABC dataset)
CAD: 84 corners, 130 curves, 46 faces
Cross field: 34 singularities detected
Timings: 25.5584 sec to generate the unstructured mesh, 624.459 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	57608	65862	6002	251
Quasi-structured	60025	68279	3193	9

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000831139	0.213508	1.5715	0.000422003	0.858903	0.95754
Quasi-structured	0.000831139	0.211722	2.30899	0.000708886	0.872798	0.964117



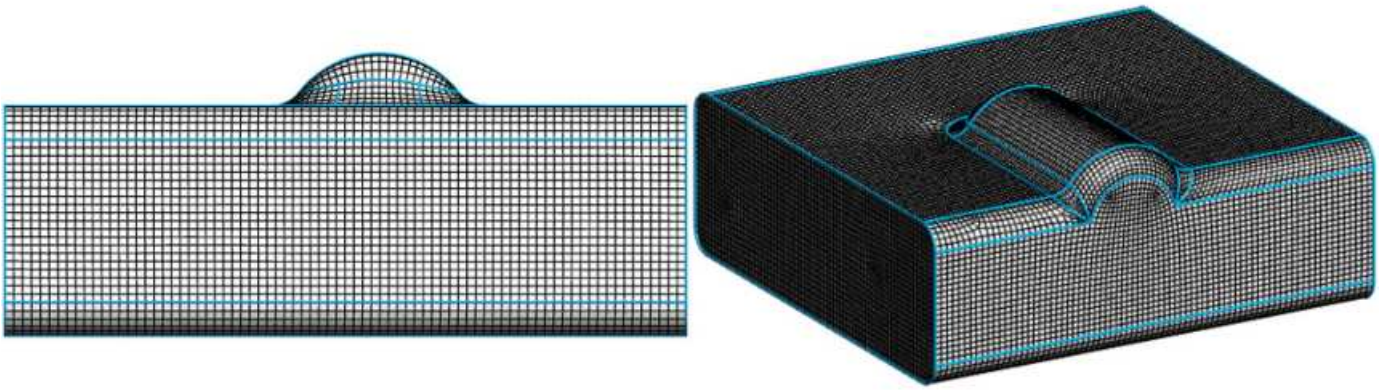


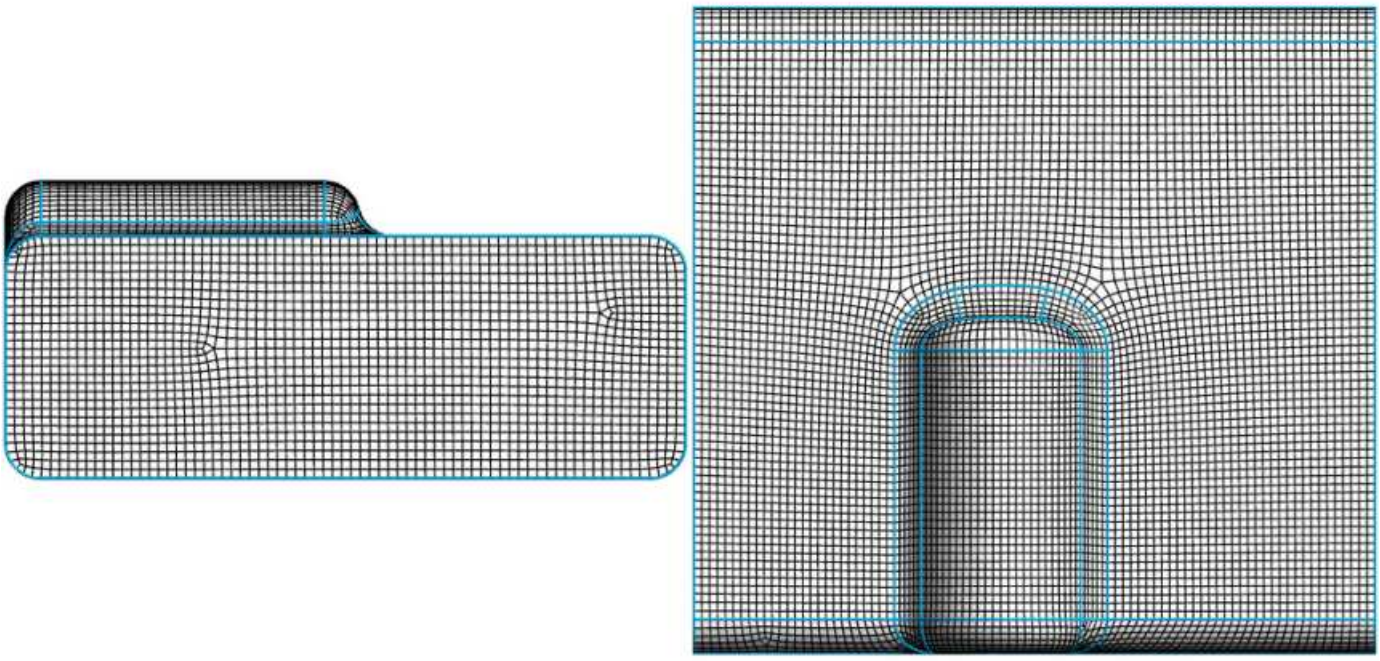
Model: 00006043 (from ABC dataset)
CAD: 30 corners, 51 curves, 21 faces
Cross field: 18 singularities detected
Timings: 14.9215 sec to generate the unstructured mesh, 2.42226 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20200	21545	141	5
Quasi-structured	20454	21799	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0875807	0.322564	0.942354	0.0821649	0.984484	0.999237
Quasi-structured	0.0808006	0.320042	0.562717	0.424657	0.991379	0.999037



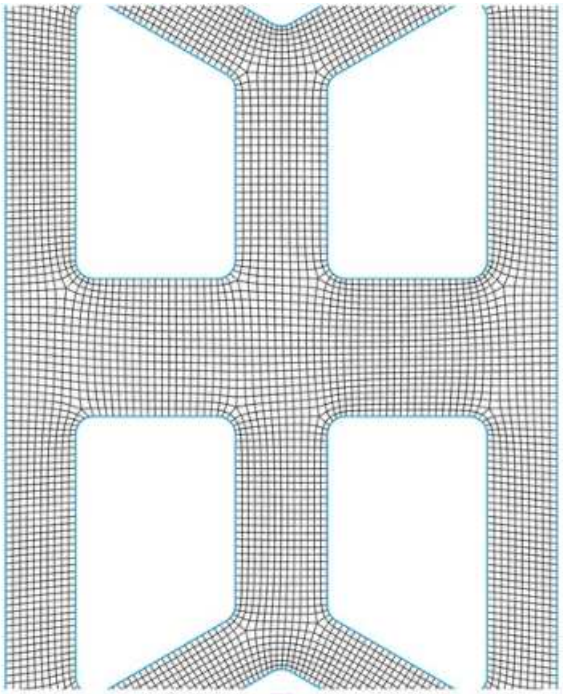


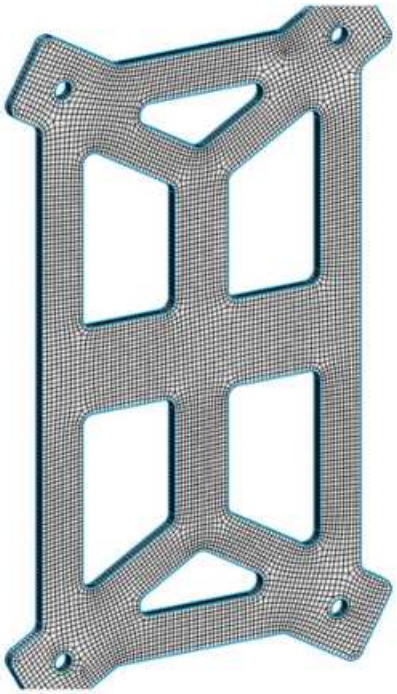
Model: 00006056 (from ABC dataset)
CAD: 160 corners, 240 curves, 82 faces
Cross field: 104 singularities detected
Timings: 13.6298 sec to generate the unstructured mesh, 3.07973 sec to make it quasi-structured
Mesh topology:

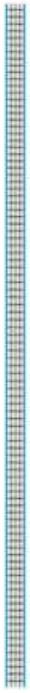
	# quads	# vertices	# irregular	# very irregular
Unstructured	19504	22276	442	20
Quasi-structured	19728	22500	168	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.182781	0.594794	1.08677	0.215324	0.954312	0.985433
Quasi-structured	0.268382	0.589111	1.37647	0.529848	0.96977	0.991476







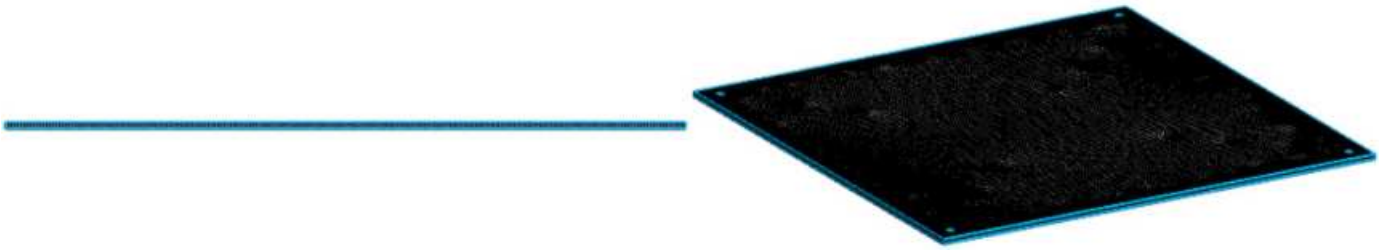


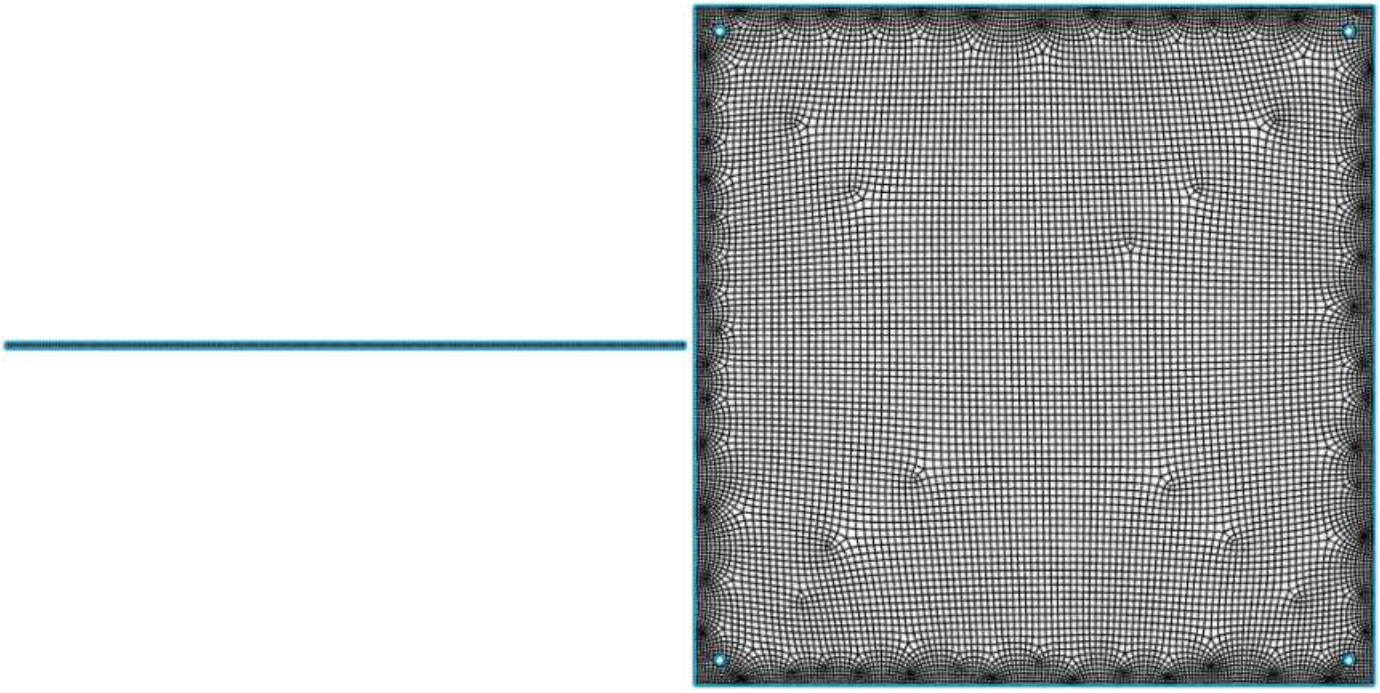
Model: 00006067 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 32 singularities detected
Timings: 15.0067 sec to generate the unstructured mesh, 241.369 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30262	32060	843	94
Quasi-structured	30505	32303	484	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.457077	1.68009	3.71172	0.408242	0.953863	0.975409
Quasi-structured	0.424104	1.66317	3.45396	0.466124	0.984826	0.993271



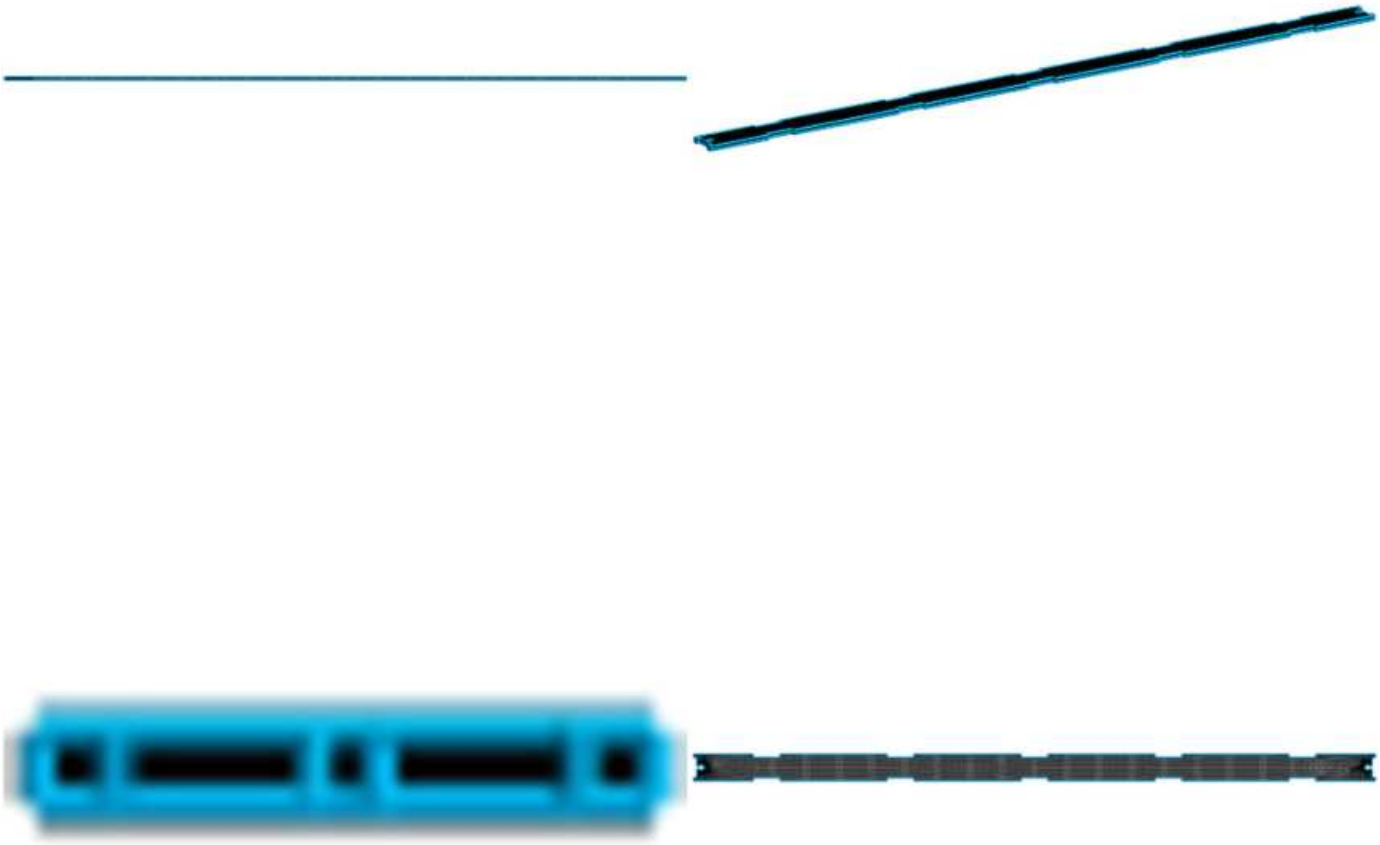


Model: 00006078 (from ABC dataset)
CAD: 152 corners, 228 curves, 78 faces
Cross field: 2 singularities detected
Timings: 3.96289 sec to generate the unstructured mesh, 4.10316 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13868	16262	383	68
Quasi-structured	14397	16791	86	9

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.260229	1.5678	3.67144	0.308108	0.952063	0.987199
Quasi-structured	0.274843	1.53573	2.66628	0.345159	0.981077	0.990494

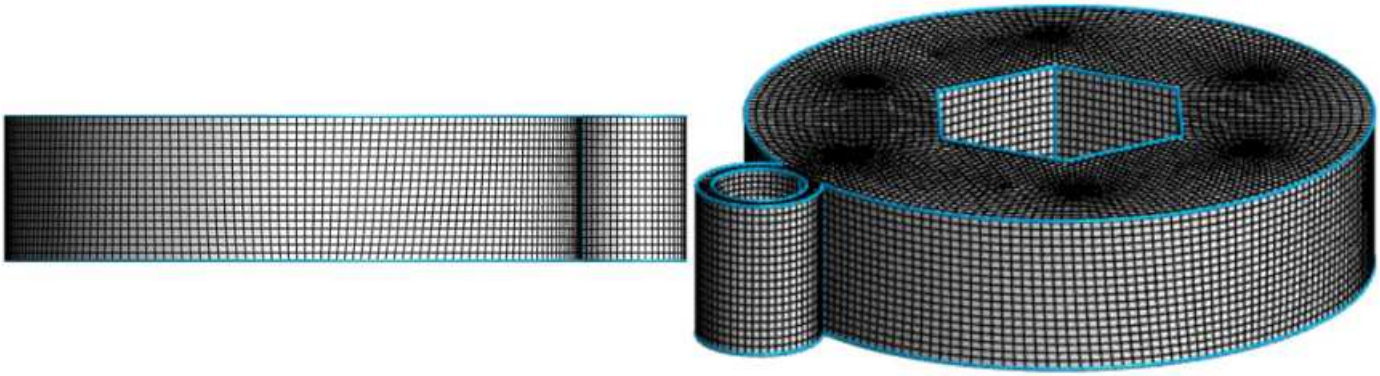


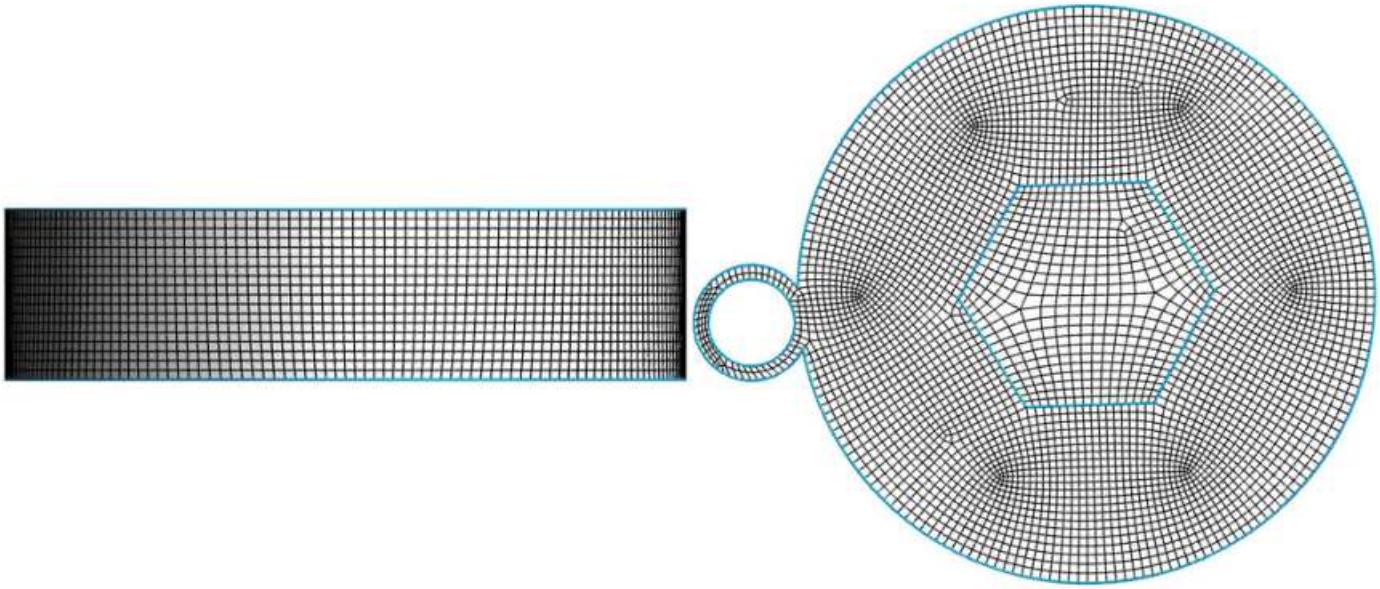
Model: 00006080 (from ABC dataset)
CAD: 18 corners, 27 curves, 12 faces
Cross field: 12 singularities detected
Timings: 8.4738 sec to generate the unstructured mesh, 1.33567 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15252	16124	135	27
Quasi-structured	15313	16185	39	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.367775	1.36443	2.4627	0.441123	0.981695	0.992694
Quasi-structured	0.450851	1.35681	3.61177	0.514577	0.991263	0.996406



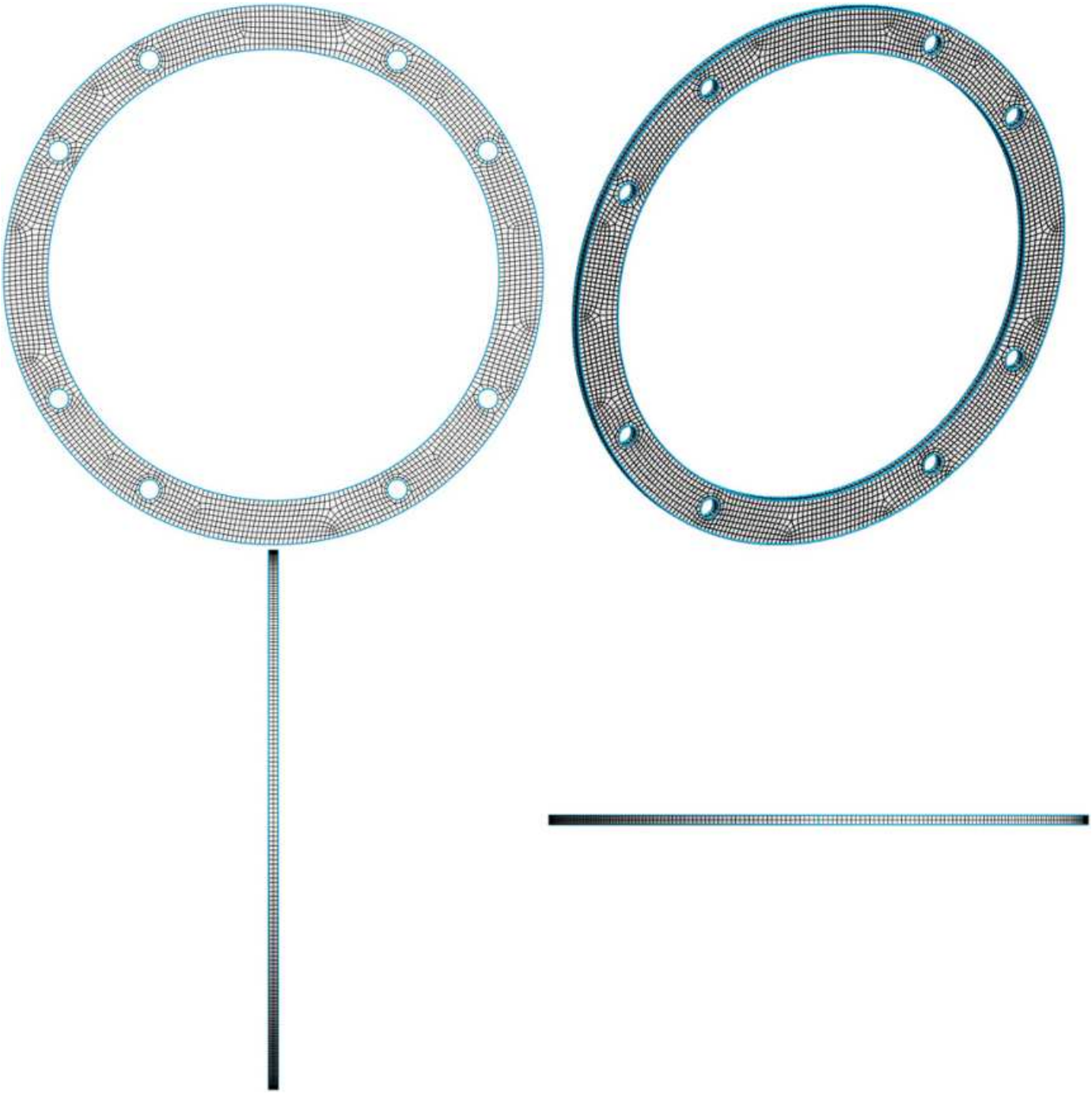


Model: 00006088 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 64 singularities detected
Timings: 5.11569 sec to generate the unstructured mesh, 5.47387 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6932	8496	313	39
Quasi-structured	6933	8497	140	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.221434	0.784045	1.32483	0.225719	0.945355	0.986486
Quasi-structured	0.267924	0.783468	1.75475	0.488283	0.960563	0.980243

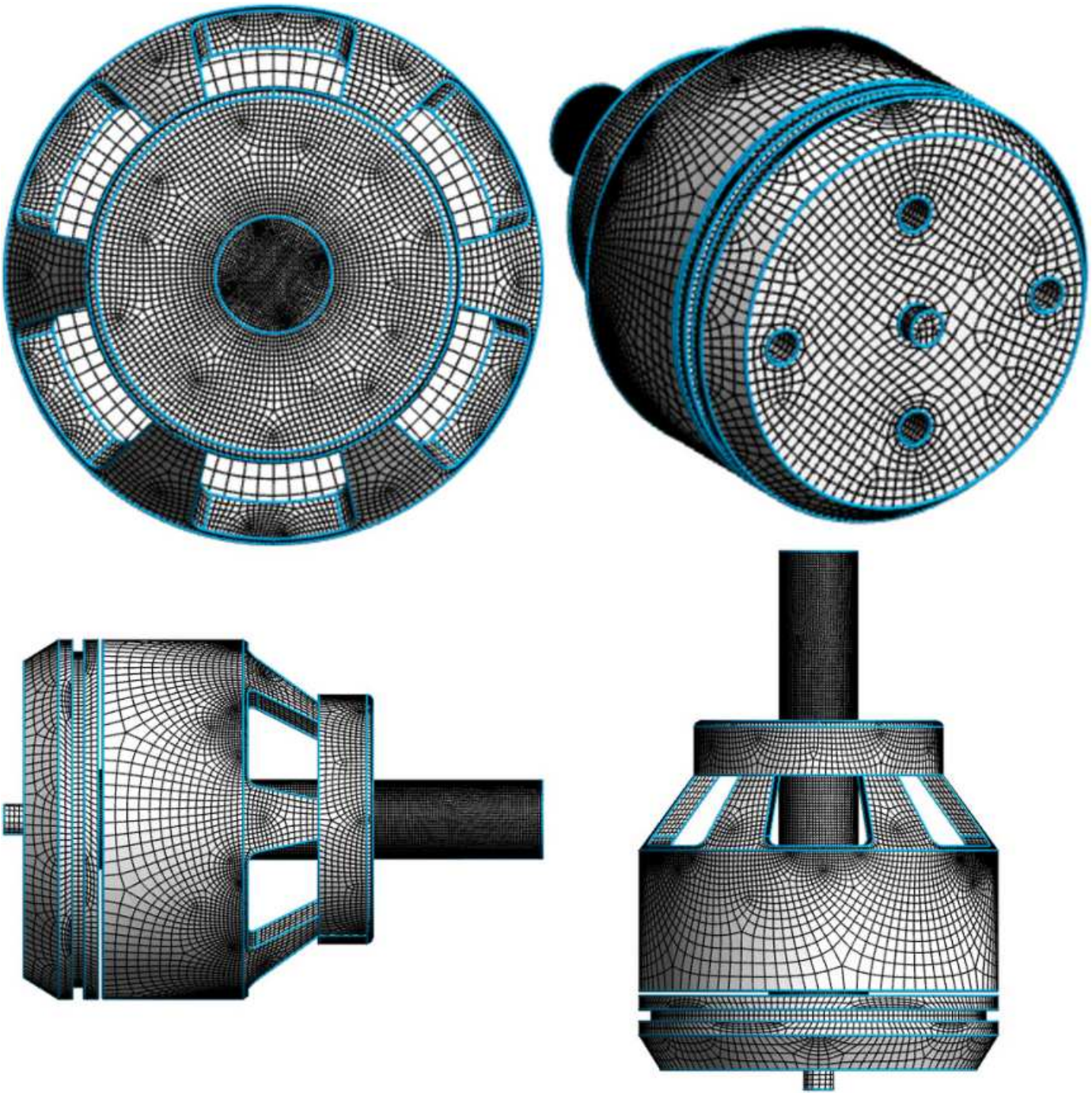


Model: 00006093 (from ABC dataset)
CAD: 104 corners, 164 curves, 62 faces
Cross field: 67 singularities detected
Timings: 30.8705 sec to generate the unstructured mesh, 58.9287 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	41920	46096	1391	291
Quasi-structured	42277	46453	450	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.046463	0.289121	1.109	0.143795	0.949242	0.993235
Quasi-structured	0.0532229	0.288658	1.61765	0.291192	0.965489	0.993398

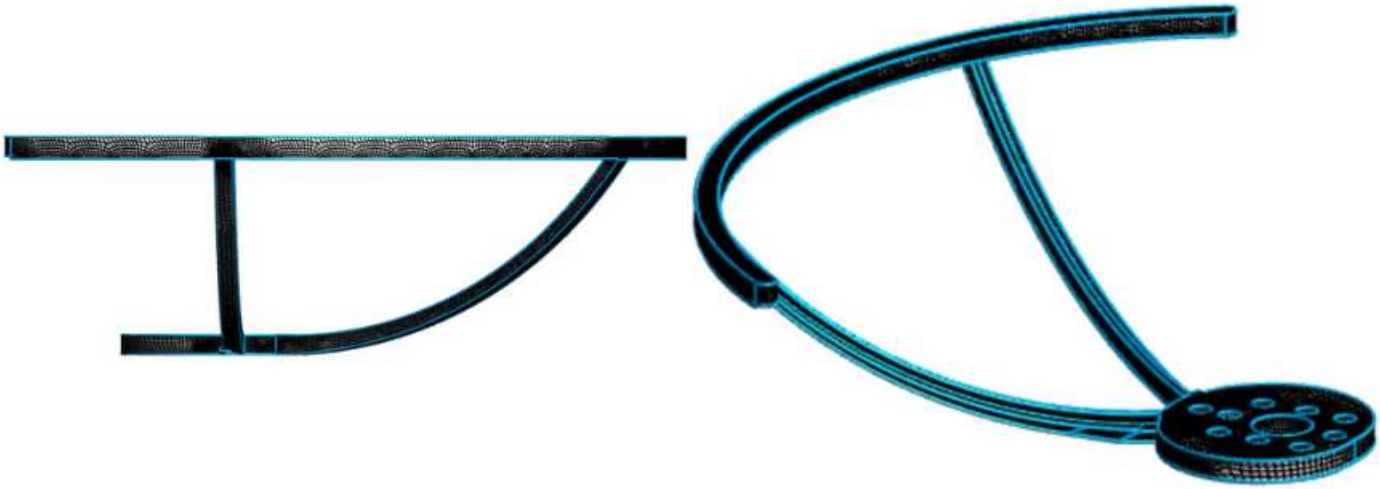


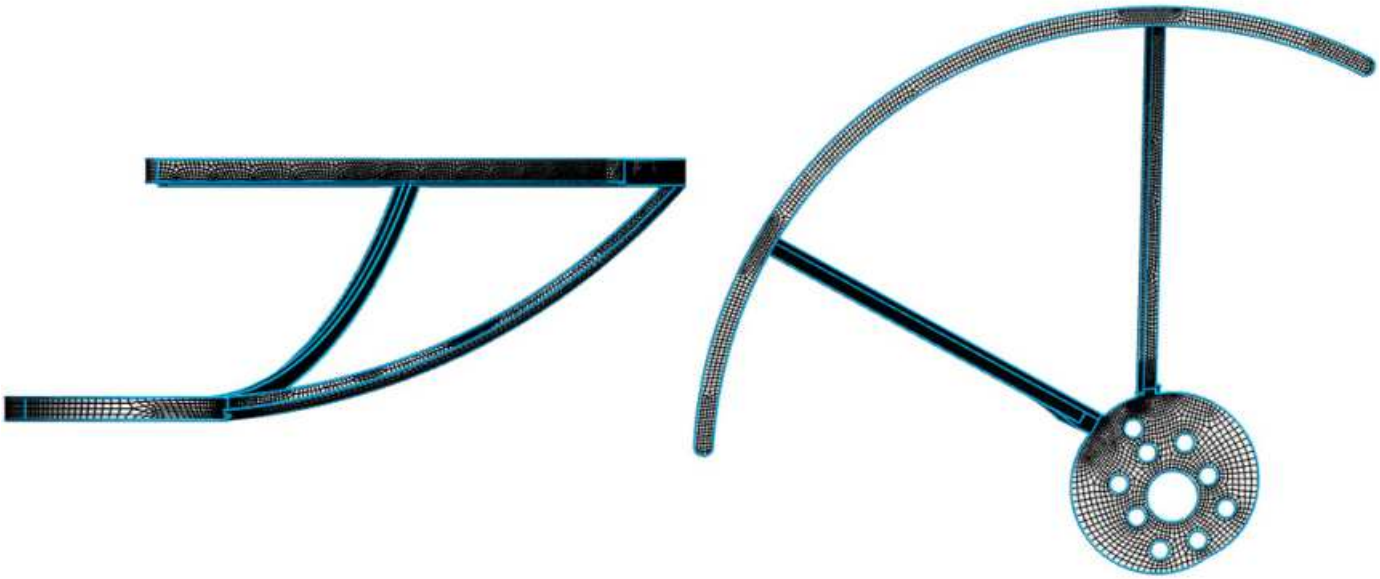
Model: 00006098 (from ABC dataset)
CAD: 107 corners, 166 curves, 59 faces
Cross field: 102 singularities detected
Timings: 21.3792 sec to generate the unstructured mesh, 835.641 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	74474	84451	8320	277
Quasi-structured	75892	85869	3928	5

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	4.29236e-05	0.188697	1.64207	1.39619e-06	0.861593	0.954443
Quasi-structured	4.29236e-05	0.187529	1.89483	1.39619e-06	0.886792	0.972667



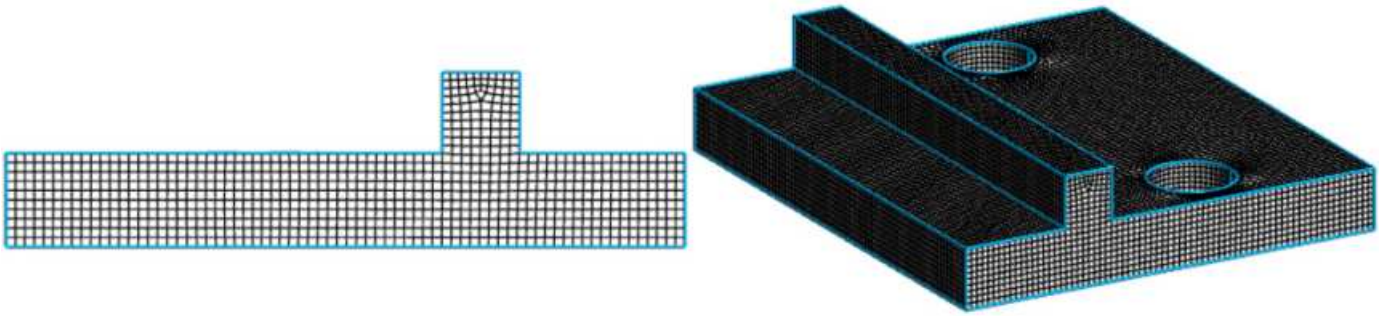


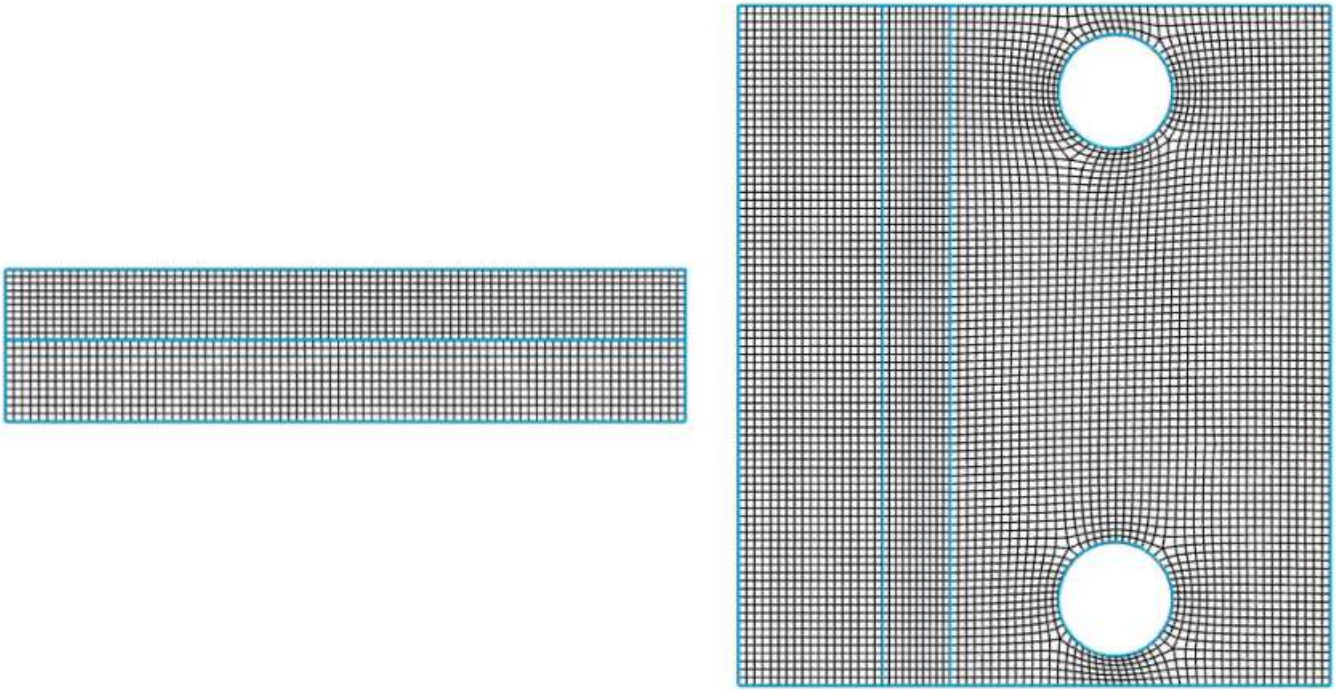
Model: 00006109 (from ABC dataset)
CAD: 22 corners, 32 curves, 12 faces
Cross field: 16 singularities detected
Timings: 12.8678 sec to generate the unstructured mesh, 2.32123 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17670	18924	144	26
Quasi-structured	17676	18930	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.162943	0.47447	0.795534	0.50613	0.981905	0.997879
Quasi-structured	0.255557	0.473317	0.917109	0.695615	0.993654	0.999107



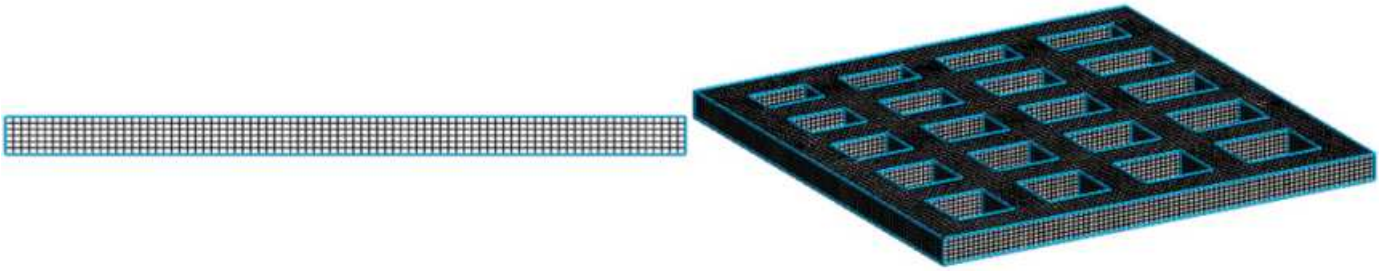


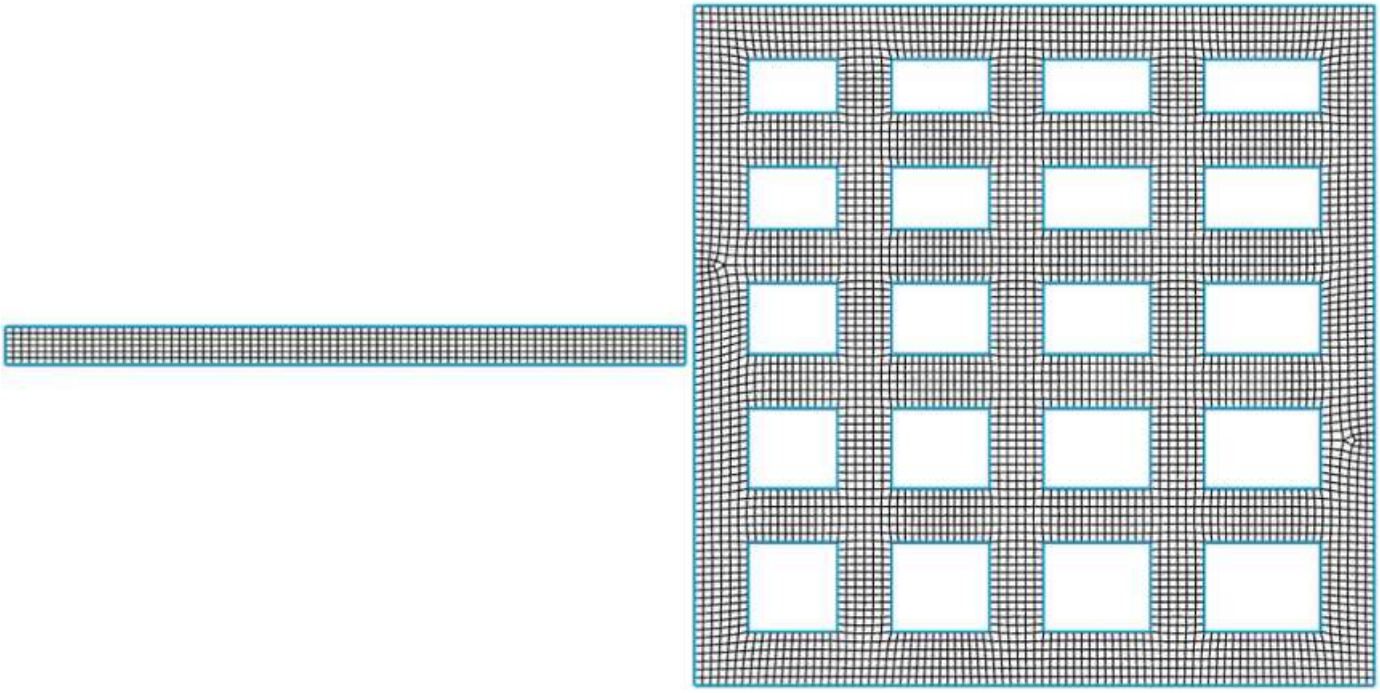
Model: 00006116 (from ABC dataset)
CAD: 168 corners, 252 curves, 86 faces
Cross field: 0 singularities detected
Timings: 12.7433 sec to generate the unstructured mesh, 1.82925 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16854	19980	36	0
Quasi-structured	16828	19954	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.144227	0.429147	0.62066	0.343478	0.977825	0.984991
Quasi-structured	0.289404	0.429364	0.679225	0.841476	0.983542	0.984991



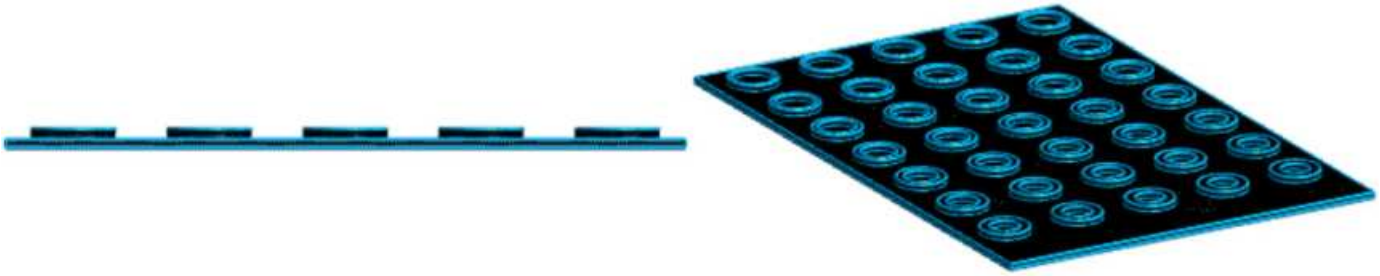


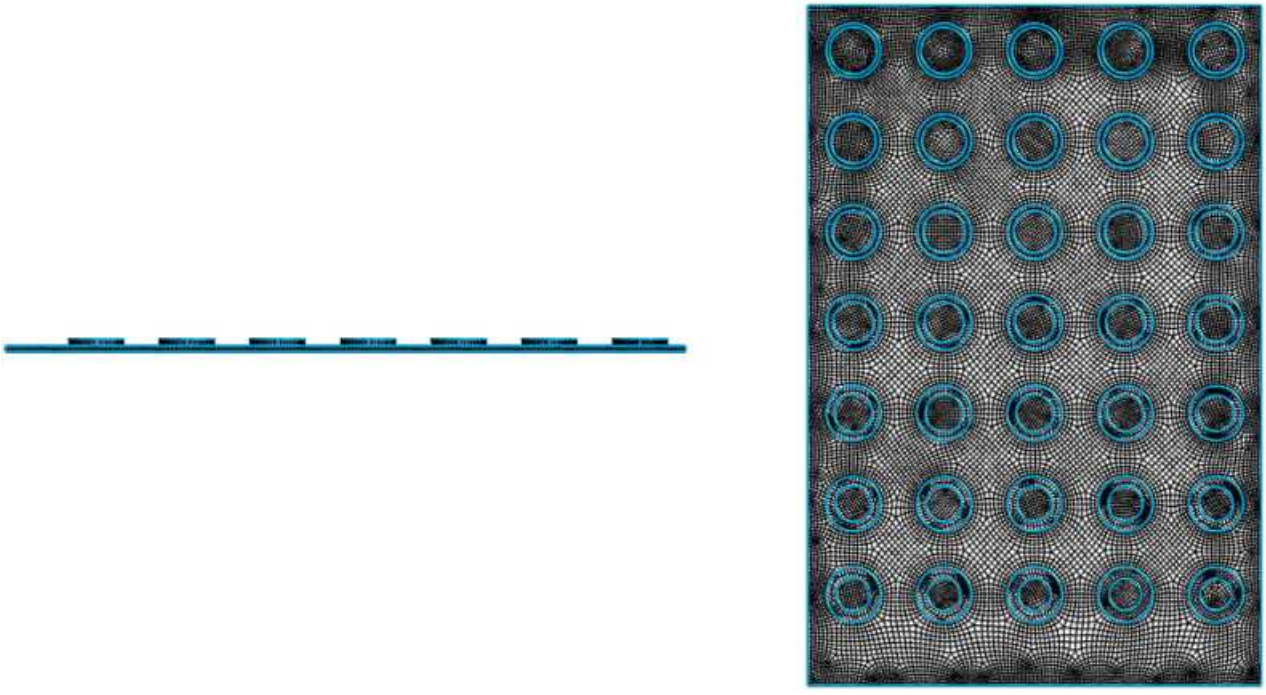
Model: 00006118 (from ABC dataset)
CAD: 148 corners, 222 curves, 146 faces
Cross field: 280 singularities detected
Timings: 13.2717 sec to generate the unstructured mesh, 52.9875 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	76854	85592	2434	192
Quasi-structured	78731	87469	1080	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.169437	0.655971	1.78092	0.120537	0.967815	0.999968
Quasi-structured	0.067011	0.64865	2.15117	0.122463	0.964491	0.999968



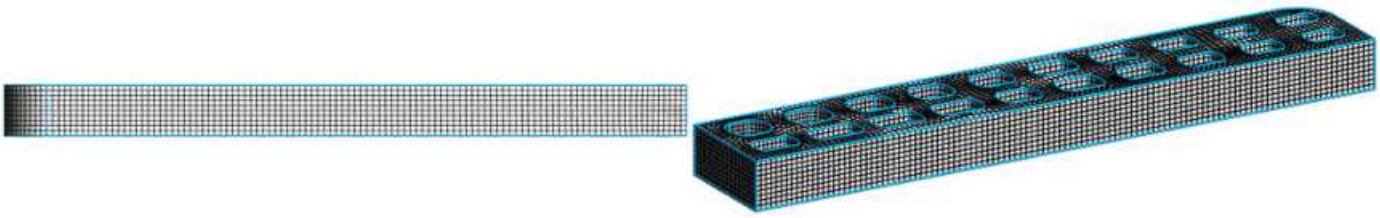


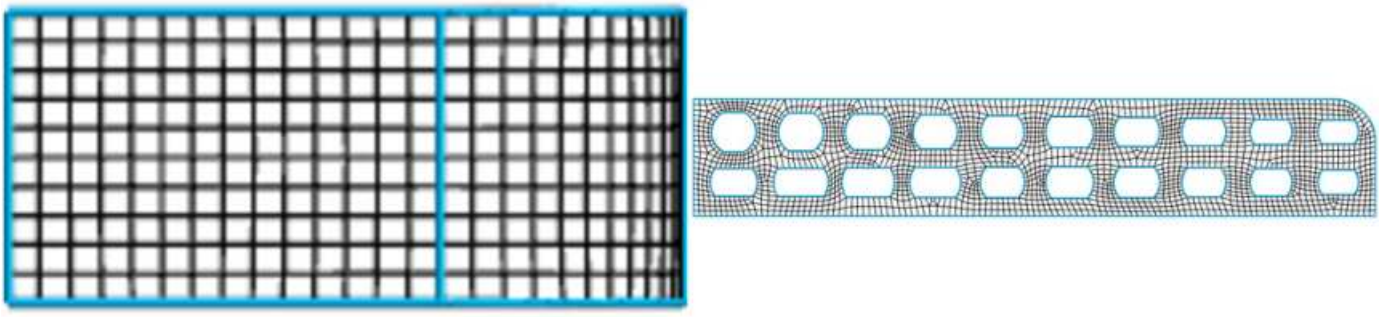
Model: 00006123 (from ABC dataset)
CAD: 170 corners, 255 curves, 87 faces
Cross field: 18 singularities detected
Timings: 5.47275 sec to generate the unstructured mesh, 2.71682 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12302	14891	319	20
Quasi-structured	12380	14969	114	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.203892	0.61182	1.14785	0.418007	0.956087	0.984137
Quasi-structured	0.200137	0.608605	1.58857	0.470383	0.96752	0.984139



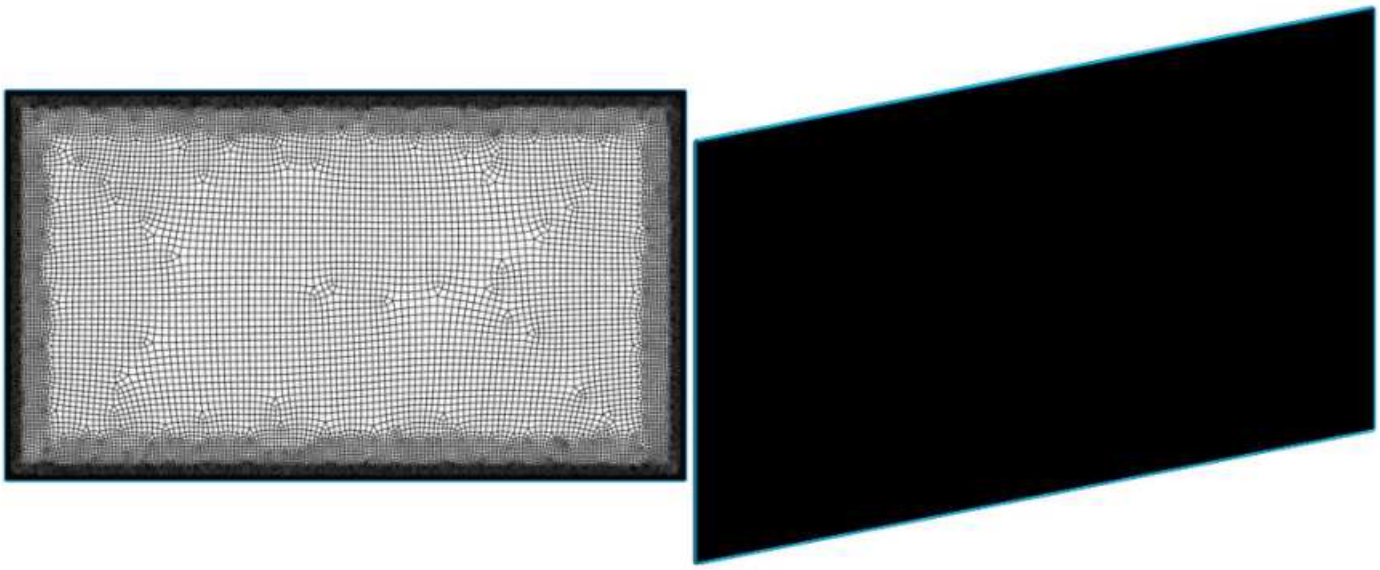


Model: 00006137 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 9.65933 sec to generate the unstructured mesh, 3492.32 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	102024	108498	4559	494
Quasi-structured	653623	660097	2240	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0278635	0.887539	5.55365	0.258765	0.935954	0.980932
Quasi-structured	0.12565	0.390645	5.10575	0.655513	0.998429	0.999998

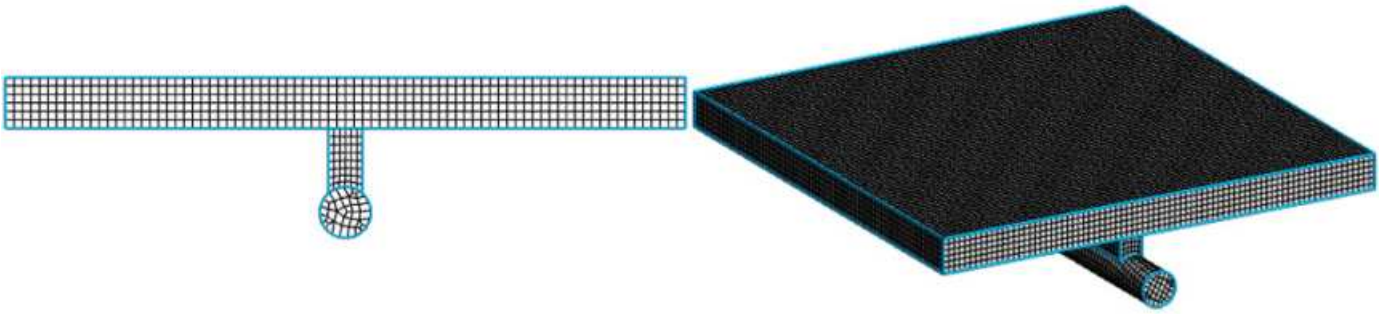


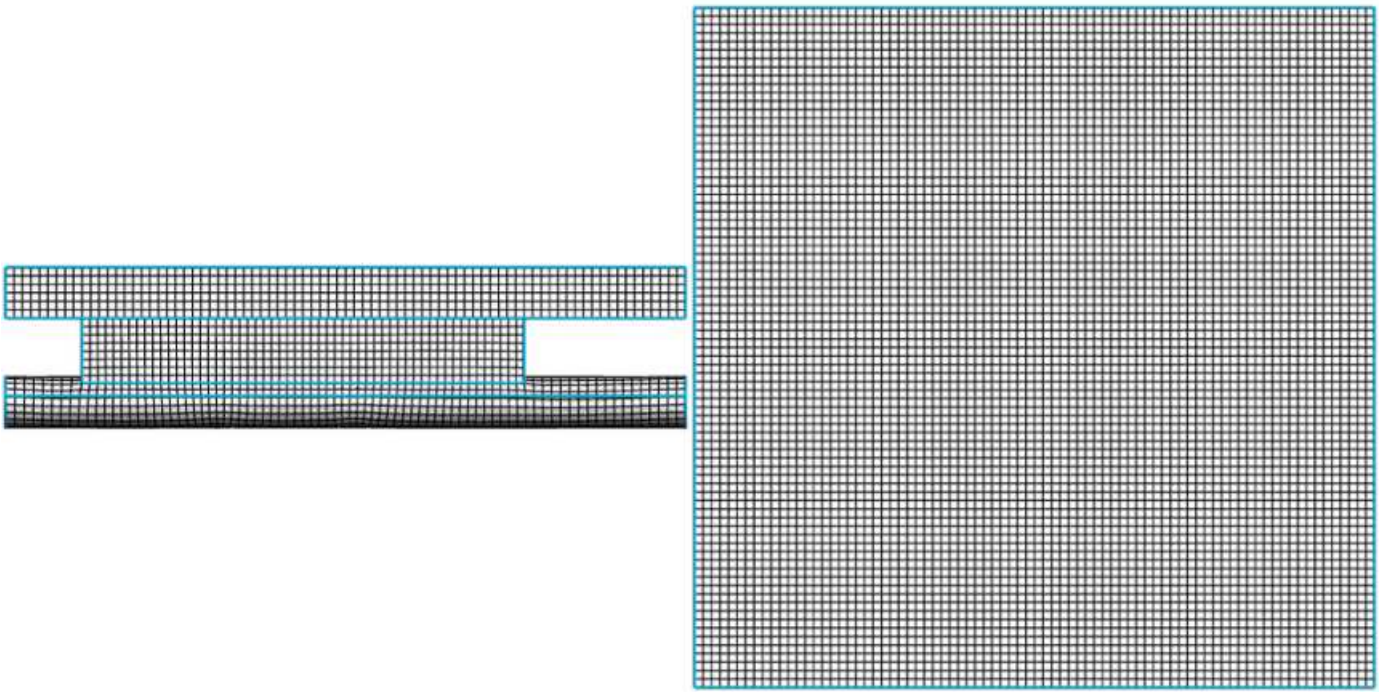
Model: 00006154 (from ABC dataset)
CAD: 18 corners, 27 curves, 13 faces
Cross field: 8 singularities detected
Timings: 12.913 sec to generate the unstructured mesh, 6.044 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15872	16858	108	102
Quasi-structured	15688	16674	56	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0772344	0.507033	7.63747	0.0284867	0.984736	1
Quasi-structured	0.156563	0.5092	8.24323	0.316001	0.992618	1



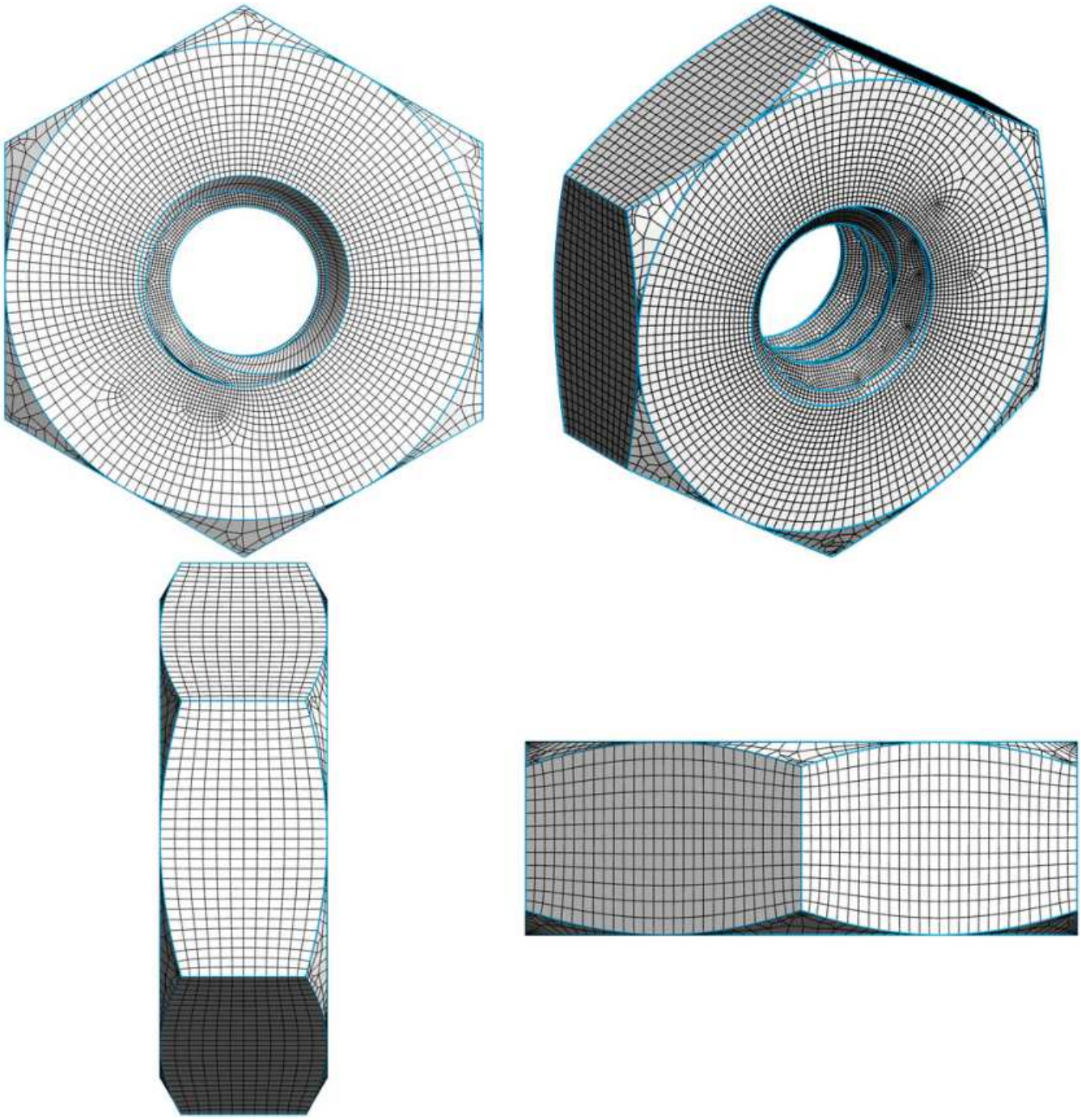


Model: 00006167 (from ABC dataset)
CAD: 50 corners, 74 curves, 26 faces
Cross field: 48 singularities detected
Timings: 17.8725 sec to generate the unstructured mesh, 93.3361 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22190	25830	898	12
Quasi-structured	21889	25529	428	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00252364	0.0852571	0.286224	0.0131816	0.931253	0.986837
Quasi-structured	0.00173496	0.0856399	0.365593	0.0240479	0.932289	0.981444

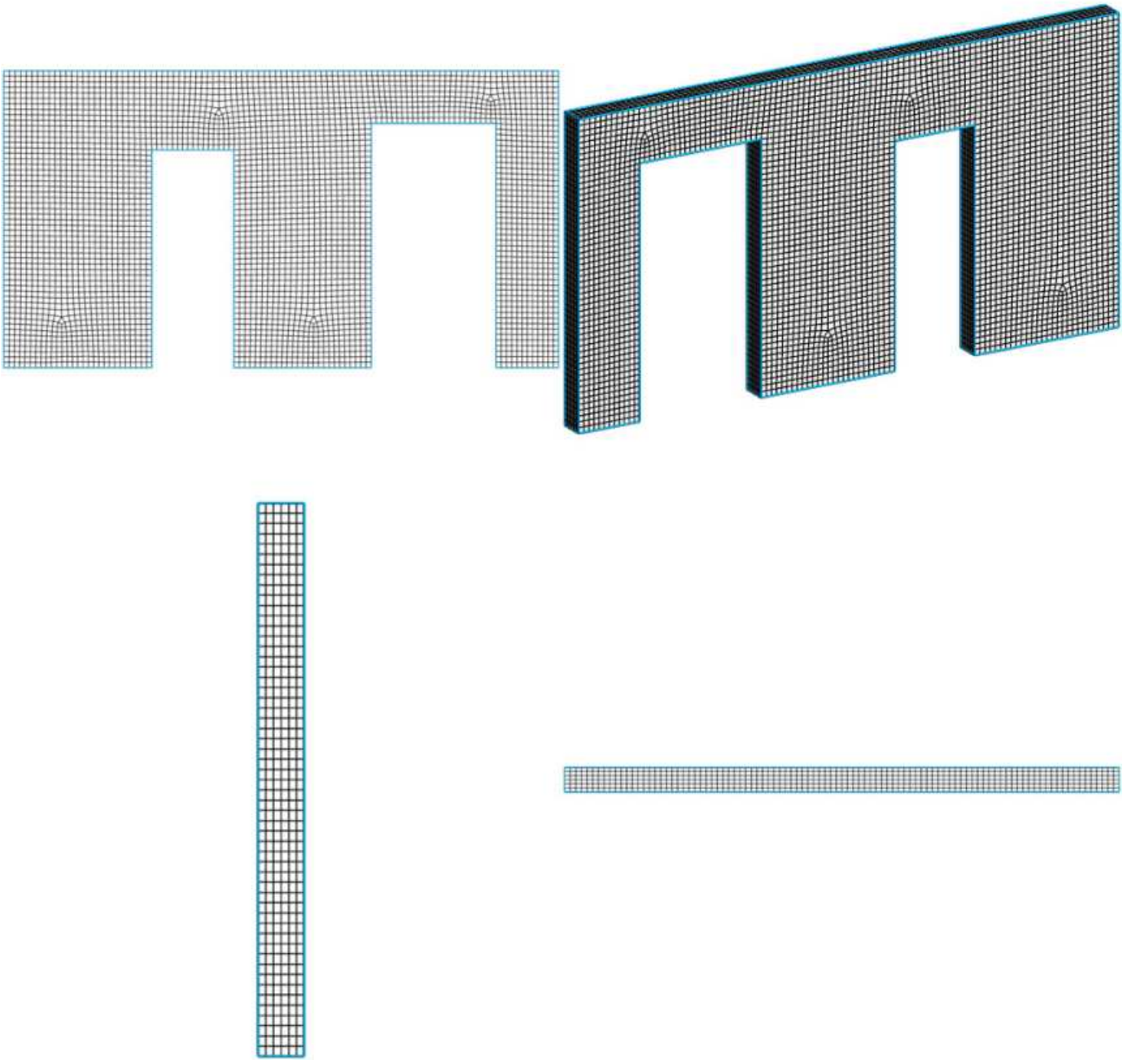


Model: 00006190 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 6.29978 sec to generate the unstructured mesh, 1.45992 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10528	11574	58	0
Quasi-structured	10536	11582	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	22.6066	53.8199	90.3509	0.613196	0.980203	0.997654
Quasi-structured	32.8057	53.6959	74.5433	0.835342	0.98791	0.998499

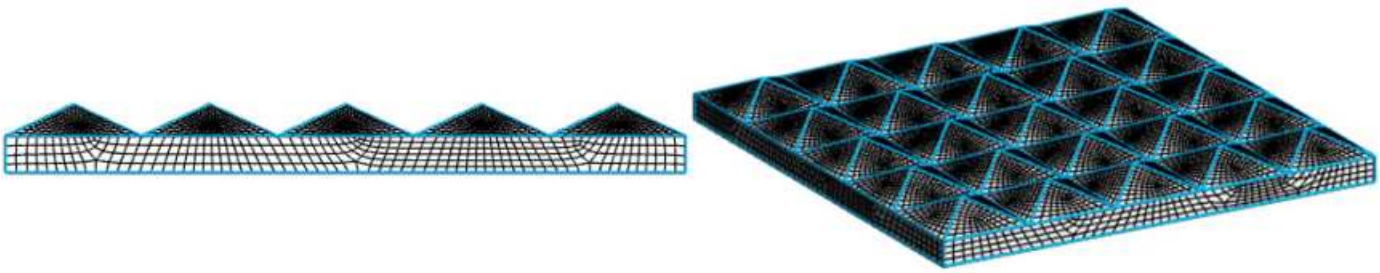


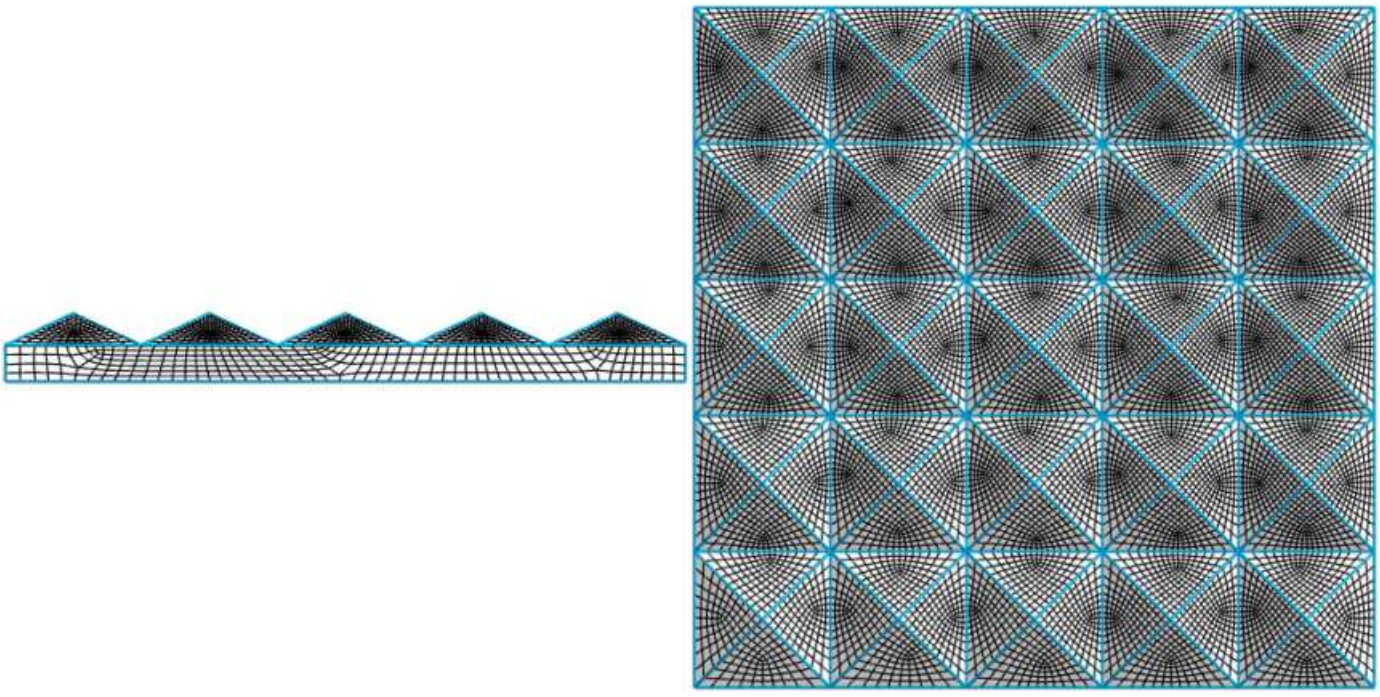
Model: 00006193 (from ABC dataset)
CAD: 65 corners, 168 curves, 105 faces
Cross field: 100 singularities detected
Timings: 9.43369 sec to generate the unstructured mesh, 28.8381 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15398	18045	1154	14
Quasi-structured	19593	22240	138	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.476108	2.33244	5.9631	0.461729	0.937703	0.977059
Quasi-structured	0.541636	2.03083	6.70048	0.407019	0.955385	0.97917



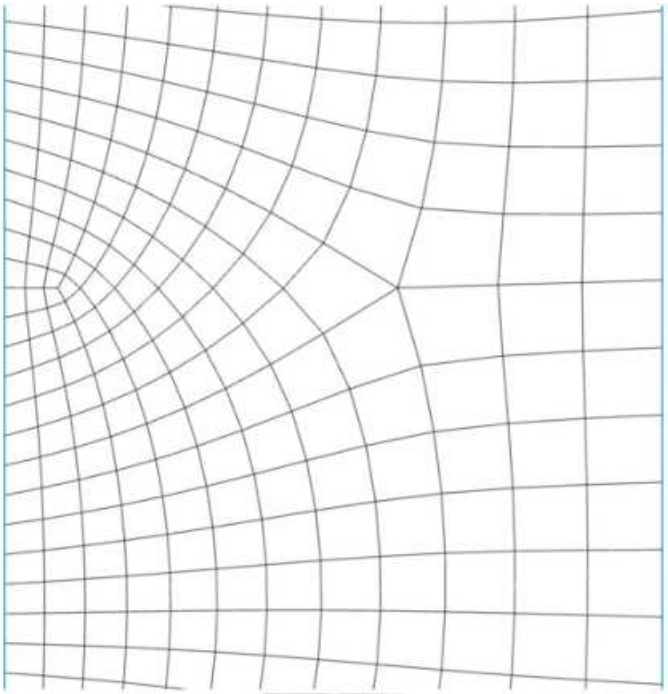


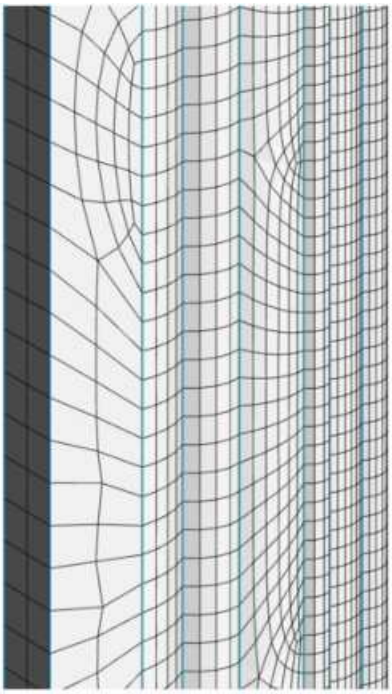
Model: 00006215 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 21 singularities detected
Timings: 2.48878 sec to generate the unstructured mesh, 40.2981 sec to make it quasi-structured
Mesh topology:

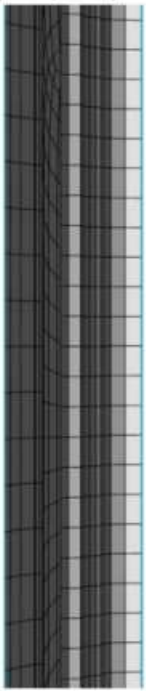
	# quads	# vertices	# irregular	# very irregular
Unstructured	16502	19713	507	11
Quasi-structured	17404	20615	188	5

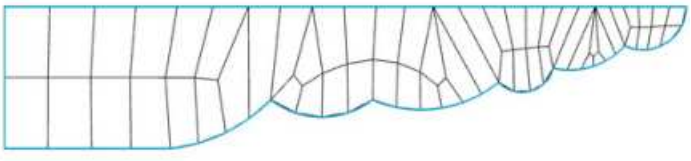
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.33367	6.22404	15.8376	0.130146	0.802877	0.82657
Quasi-structured	1.20755	6.13269	29.8208	0.239591	0.806544	0.819553







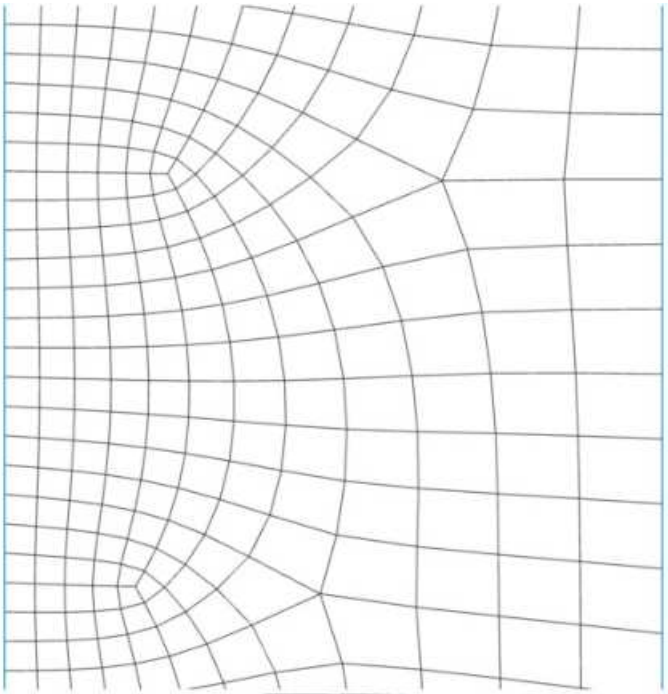


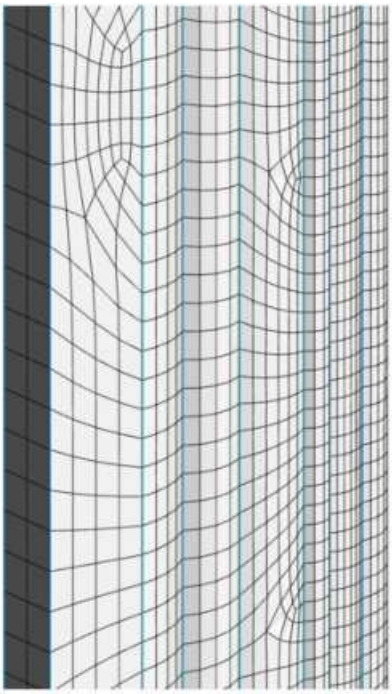
Model: 00006216 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 17 singularities detected
Timings: 2.56891 sec to generate the unstructured mesh, 31.2864 sec to make it quasi-structured
Mesh topology:

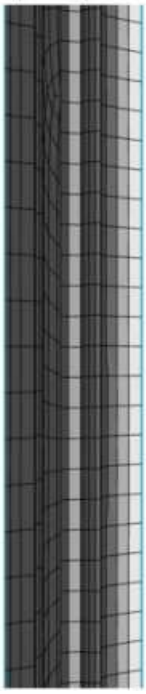
	# quads	# vertices	# irregular	# very irregular
Unstructured	8954	10651	283	12
Quasi-structured	9039	10736	119	4

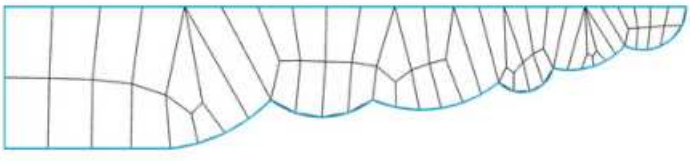
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.96181	6.10584	16.2241	0.320267	0.809556	0.820561
Quasi-structured	1.37663	6.15725	25.766	0.236224	0.809734	0.806134







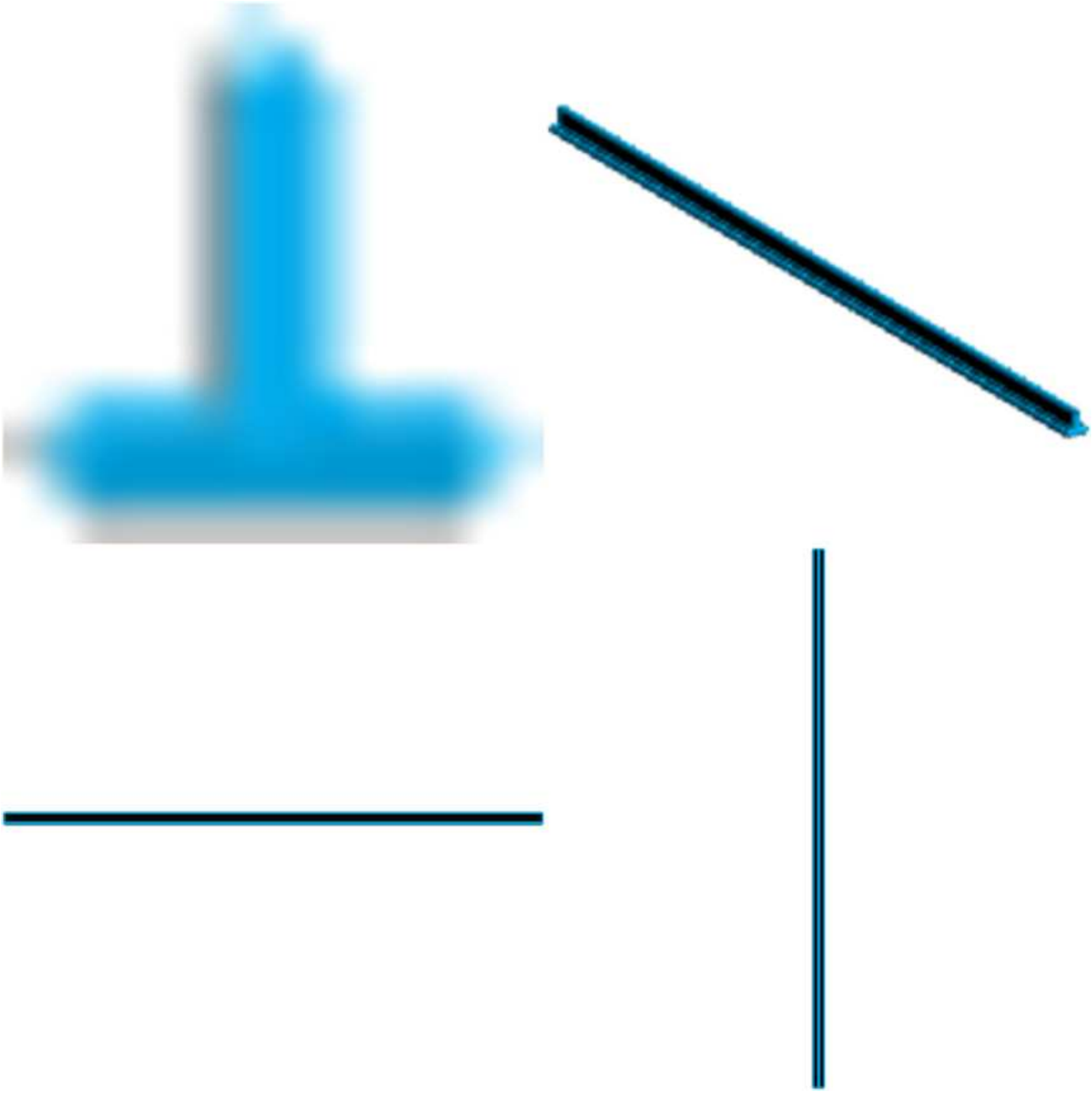


Model: 00006224 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 3.64775 sec to generate the unstructured mesh, 504.696 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	52836	59906	2104	46
Quasi-structured	55078	62148	1356	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.202233	0.884503	1.9723	0.362066	0.964051	0.999634
Quasi-structured	0.185821	0.874017	2.62964	0.377504	0.97244	0.997242

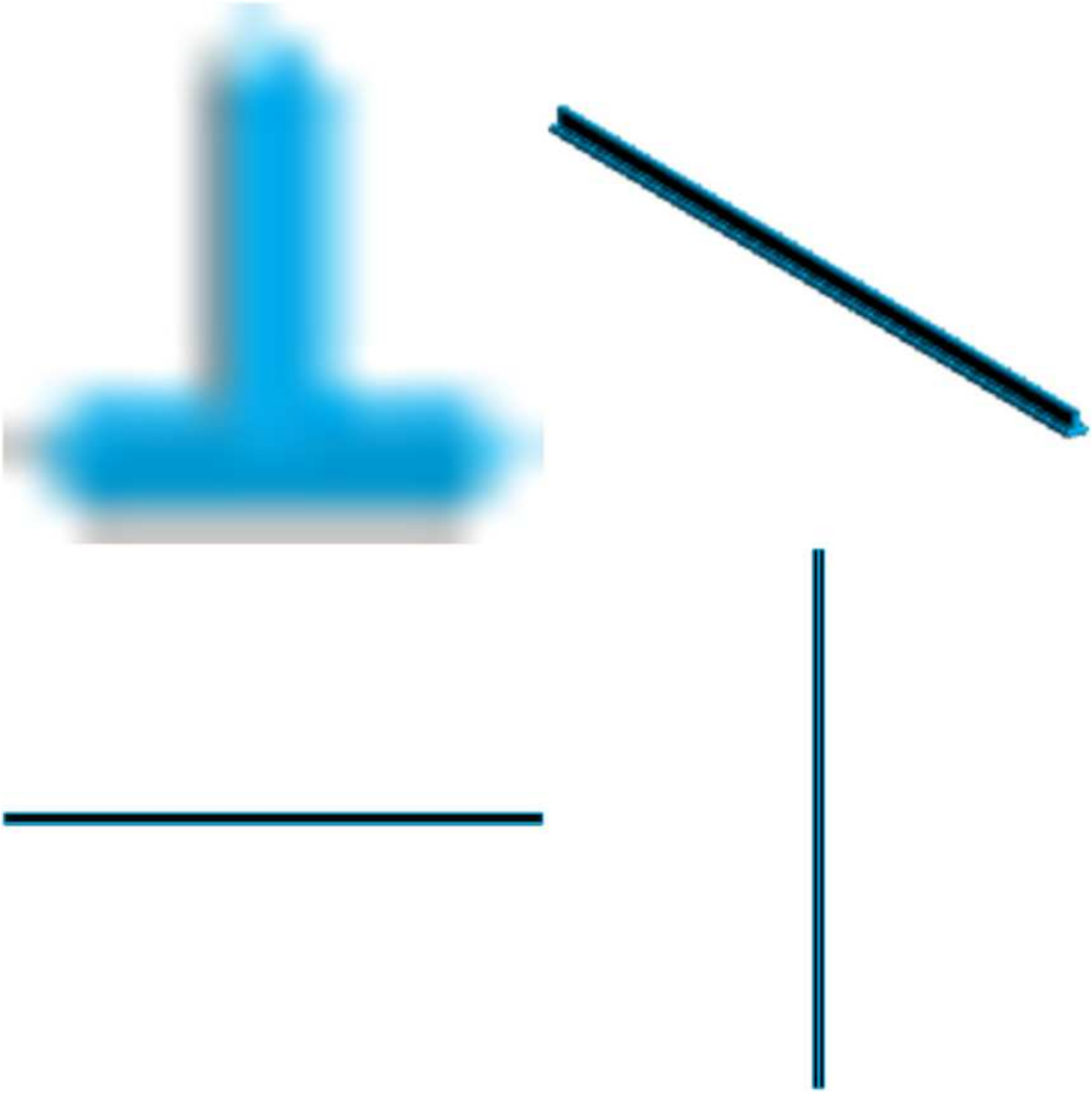


Model: 00006225 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 2.01565 sec to generate the unstructured mesh, 476.877 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	52708	59778	2103	43
Quasi-structured	54841	61911	962	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.202233	0.885197	1.91696	0.362066	0.964527	0.999634
Quasi-structured	0.155063	0.878664	2.6143	0.508549	0.968103	0.996469



Model: 00006230 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 8 singularities detected
Timings: 2.23662 sec to generate the unstructured mesh, 285.714 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	61896	72686	1027	3
Quasi-structured	62285	73075	862	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.63609	11.9395	30.0246	0.187328	0.961738	0.987264
Quasi-structured	1.01494	11.8648	37.6798	0.119021	0.971078	0.985815

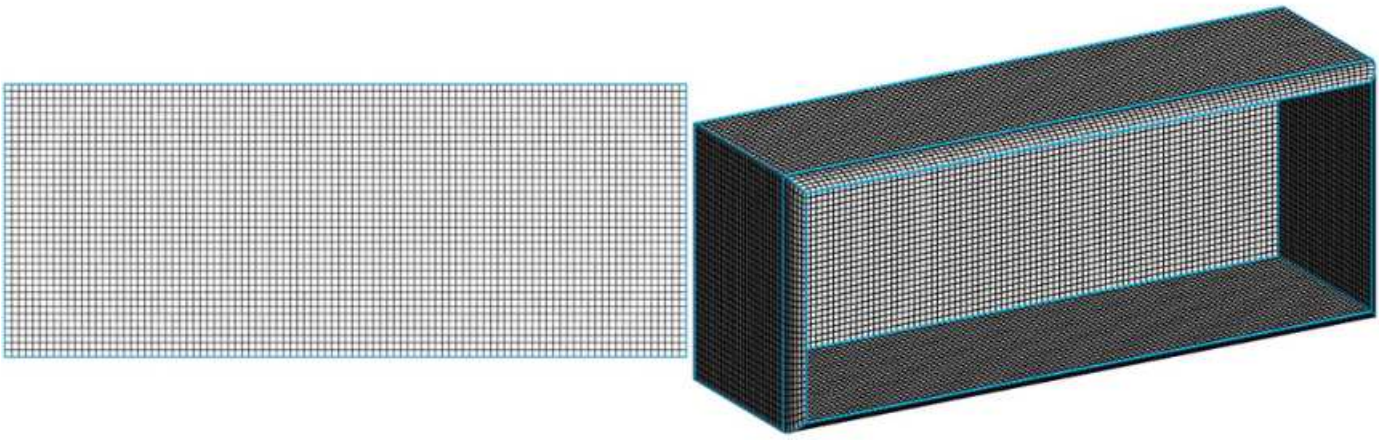


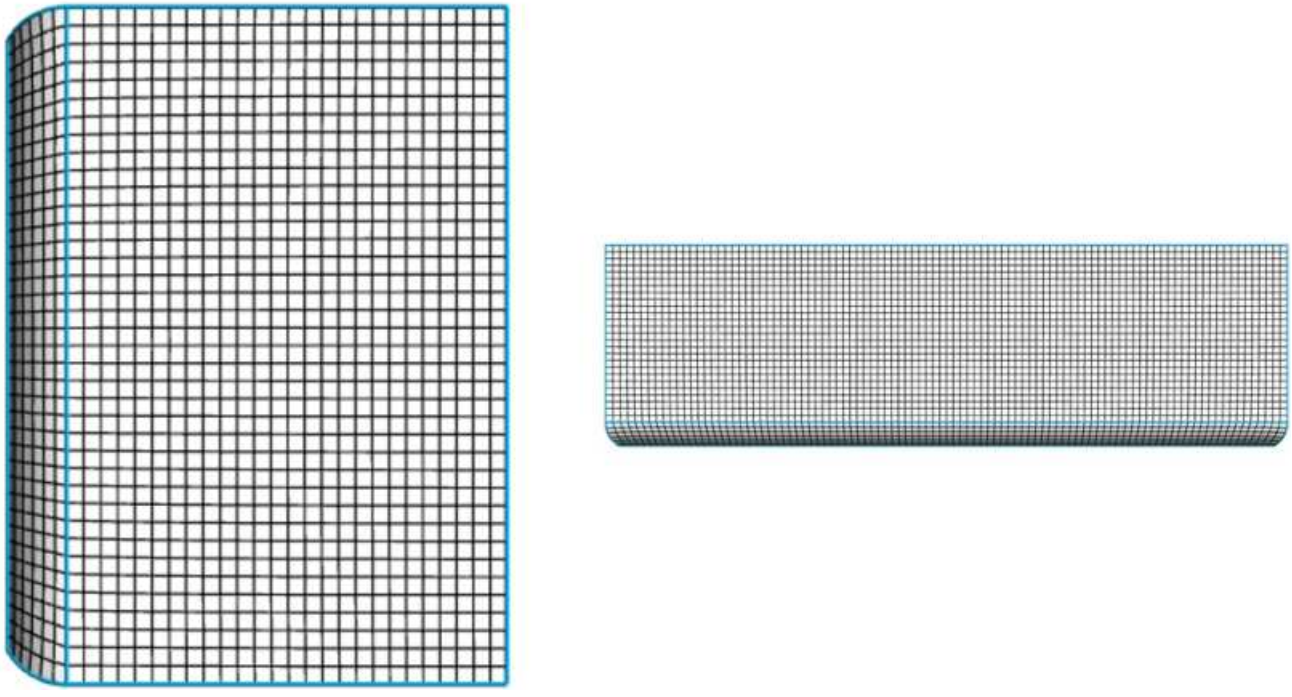
Model: 00006258 (from ABC dataset)
CAD: 16 corners, 28 curves, 14 faces
Cross field: 0 singularities detected
Timings: 16.7994 sec to generate the unstructured mesh, 1.18572 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24312	25662	0	0
Quasi-structured	24312	25662	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.740184	1.23935	1.45981	0.748859	0.993014	0.999245
Quasi-structured	0.873862	1.23914	1.60673	0.748923	0.993797	0.999276



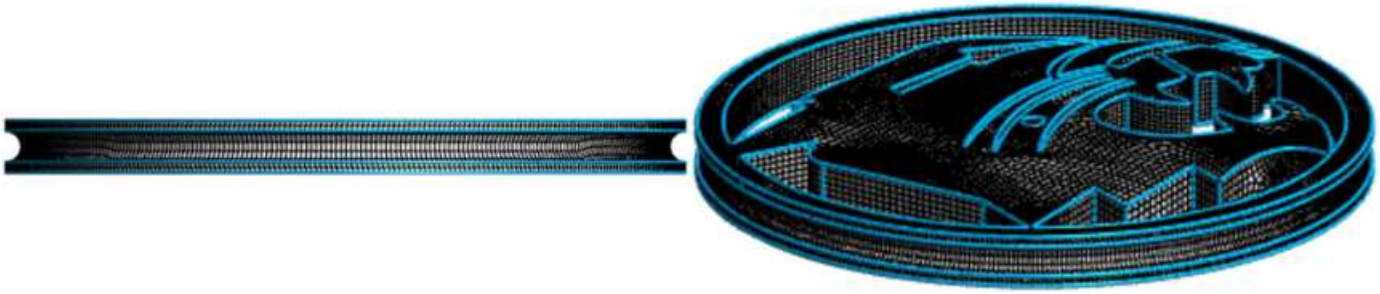


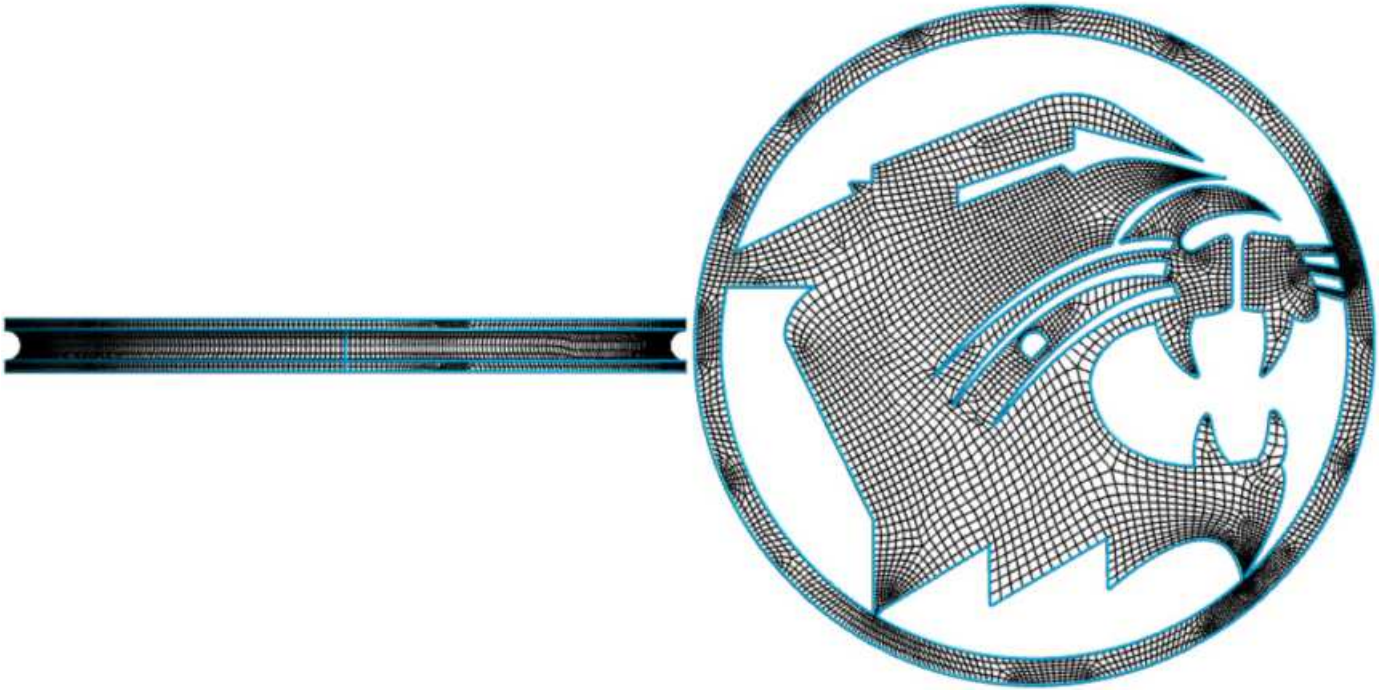
Model: 00006259 (from ABC dataset)
CAD: 146 corners, 219 curves, 75 faces
Cross field: 60 singularities detected
Timings: 29.9469 sec to generate the unstructured mesh, 243.14 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36518	42454	1760	101
Quasi-structured	38640	44576	550	3

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000626677	0.561397	2.08413	0.00806284	0.897036	0.96236
Quasi-structured	0.000626677	0.552478	2.37253	0.0169965	0.897166	0.955946



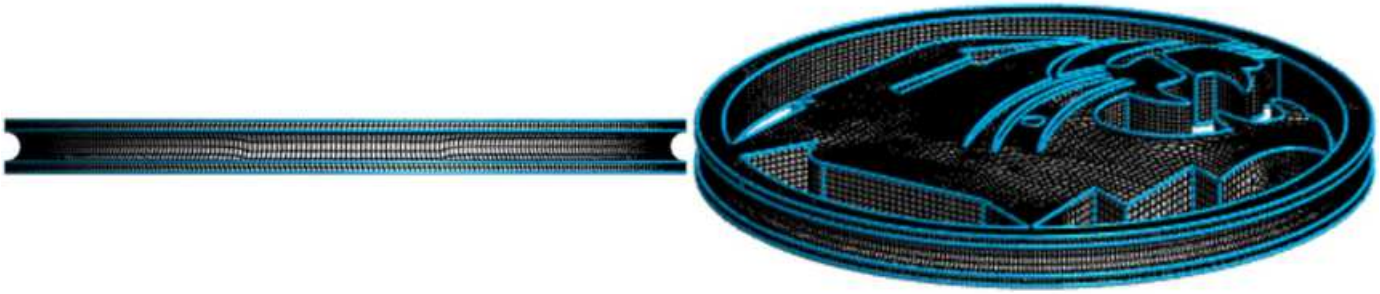


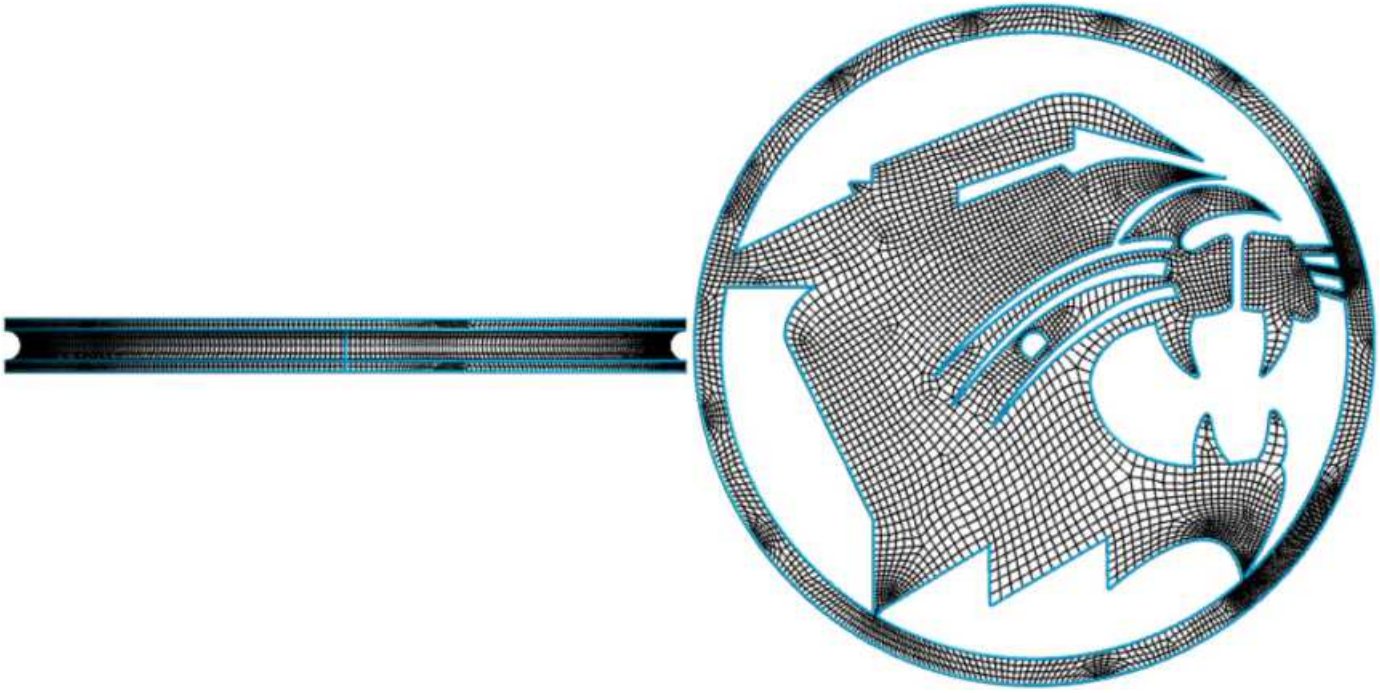
Model: 00006260 (from ABC dataset)
CAD: 146 corners, 219 curves, 75 faces
Cross field: 64 singularities detected
Timings: 28.8799 sec to generate the unstructured mesh, 114.984 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36312	42244	1760	107
Quasi-structured	38177	44109	560	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000626679	0.562668	2.08876	0.00799699	0.89709	0.962122
Quasi-structured	0.000626679	0.556042	2.37348	0.0169938	0.898012	0.95364



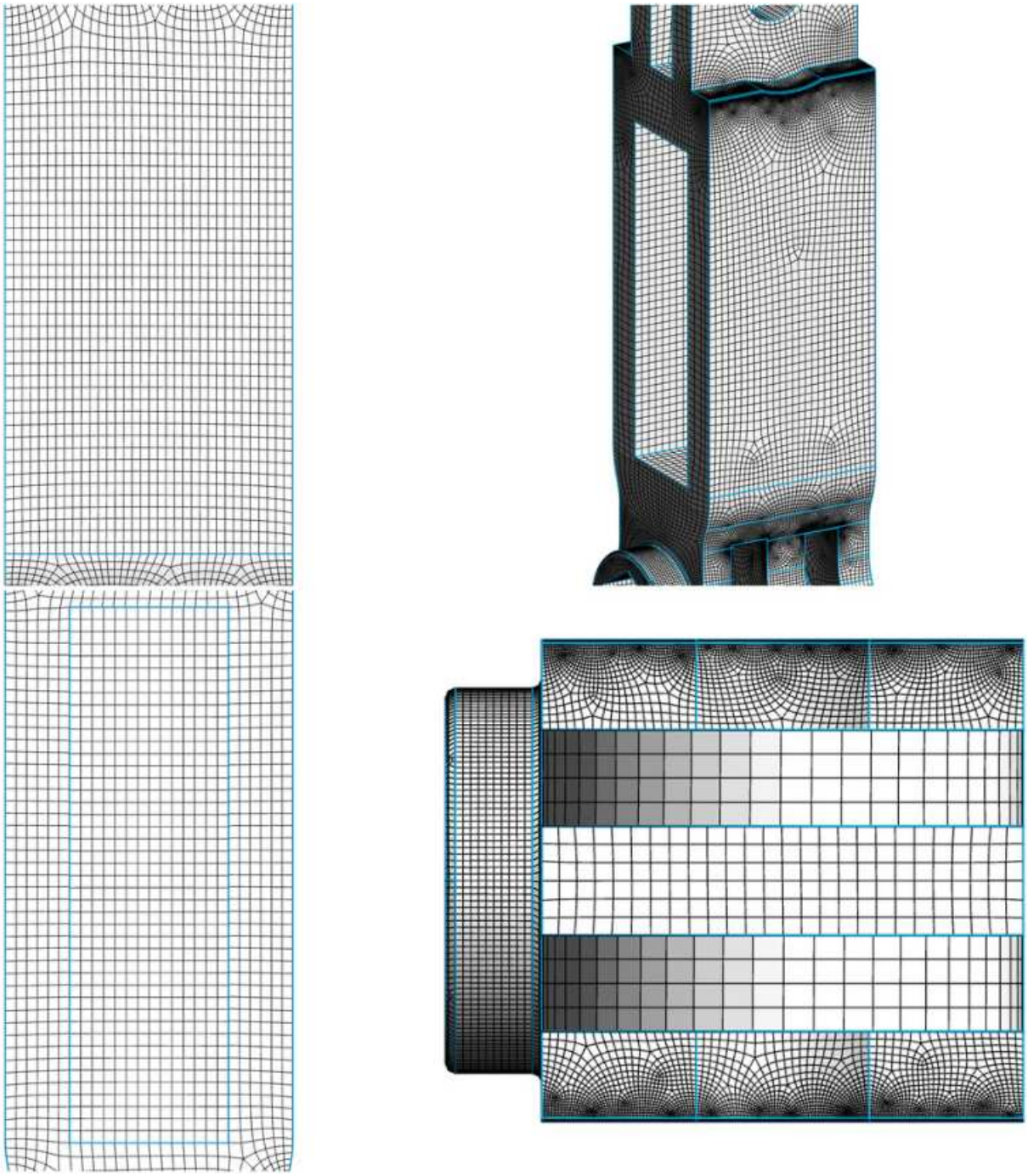


Model: 00006268 (from ABC dataset)
CAD: 137 corners, 209 curves, 78 faces
Cross field: 34 singularities detected
Timings: 9.86209 sec to generate the unstructured mesh, 50.9038 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	59808	66110	2818	172
Quasi-structured	60027	66329	623	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00203558	0.247849	1.06281	0.00354075	0.871588	0.957222
Quasi-structured	0.00203558	0.248522	1.67154	0.0589235	0.892944	0.96698

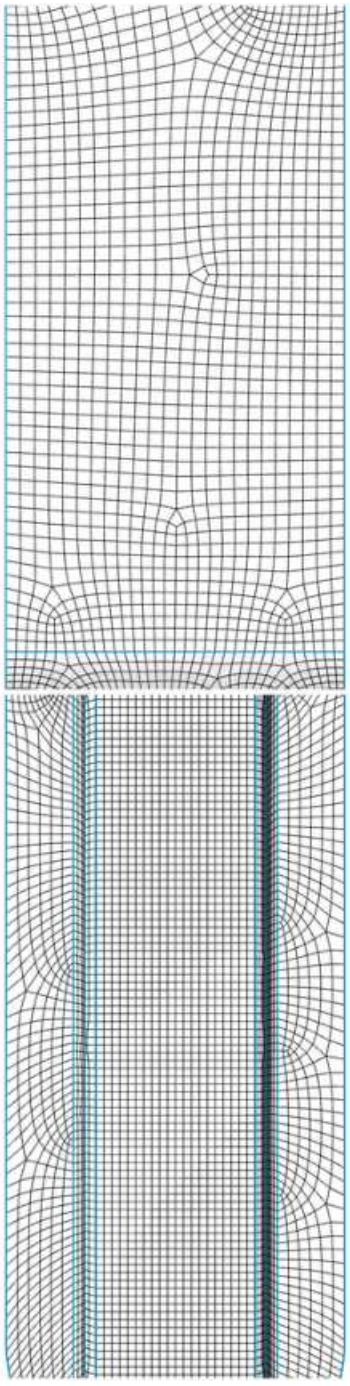


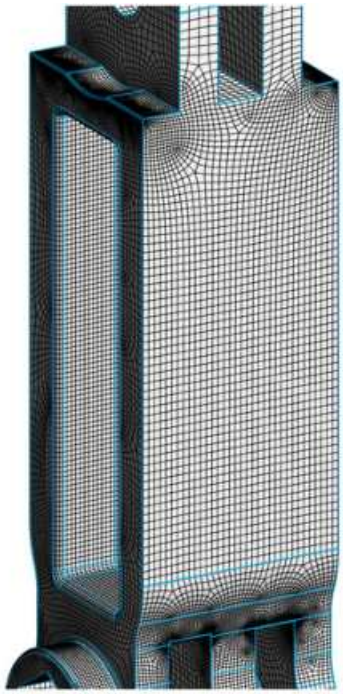
Model: 00006269 (from ABC dataset)
CAD: 165 corners, 269 curves, 106 faces
Cross field: 58 singularities detected
Timings: 14.2357 sec to generate the unstructured mesh, 74.8214 sec to make it quasi-structured
Mesh topology:

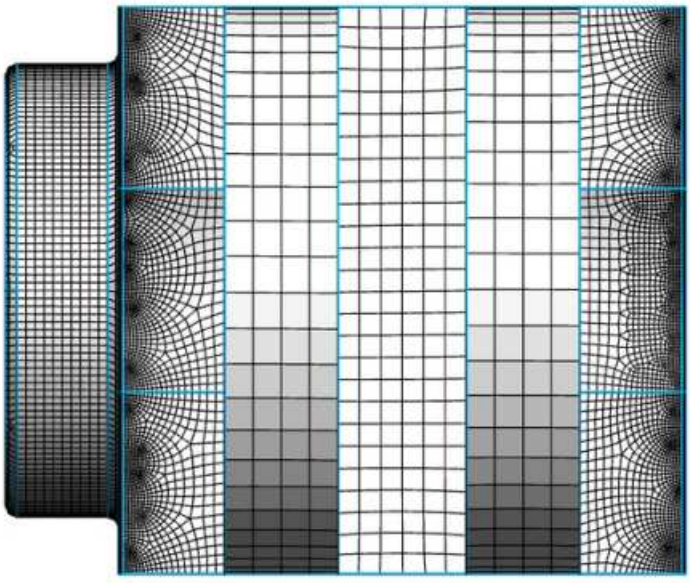
	# quads	# vertices	# irregular	# very irregular
Unstructured	68924	76856	2876	182
Quasi-structured	68397	76329	717	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00203558	0.245931	1.07561	-0.896548	0.880735	0.963044
Quasi-structured	0.00203558	0.248807	1.20798	0.102007	0.89363	0.966143





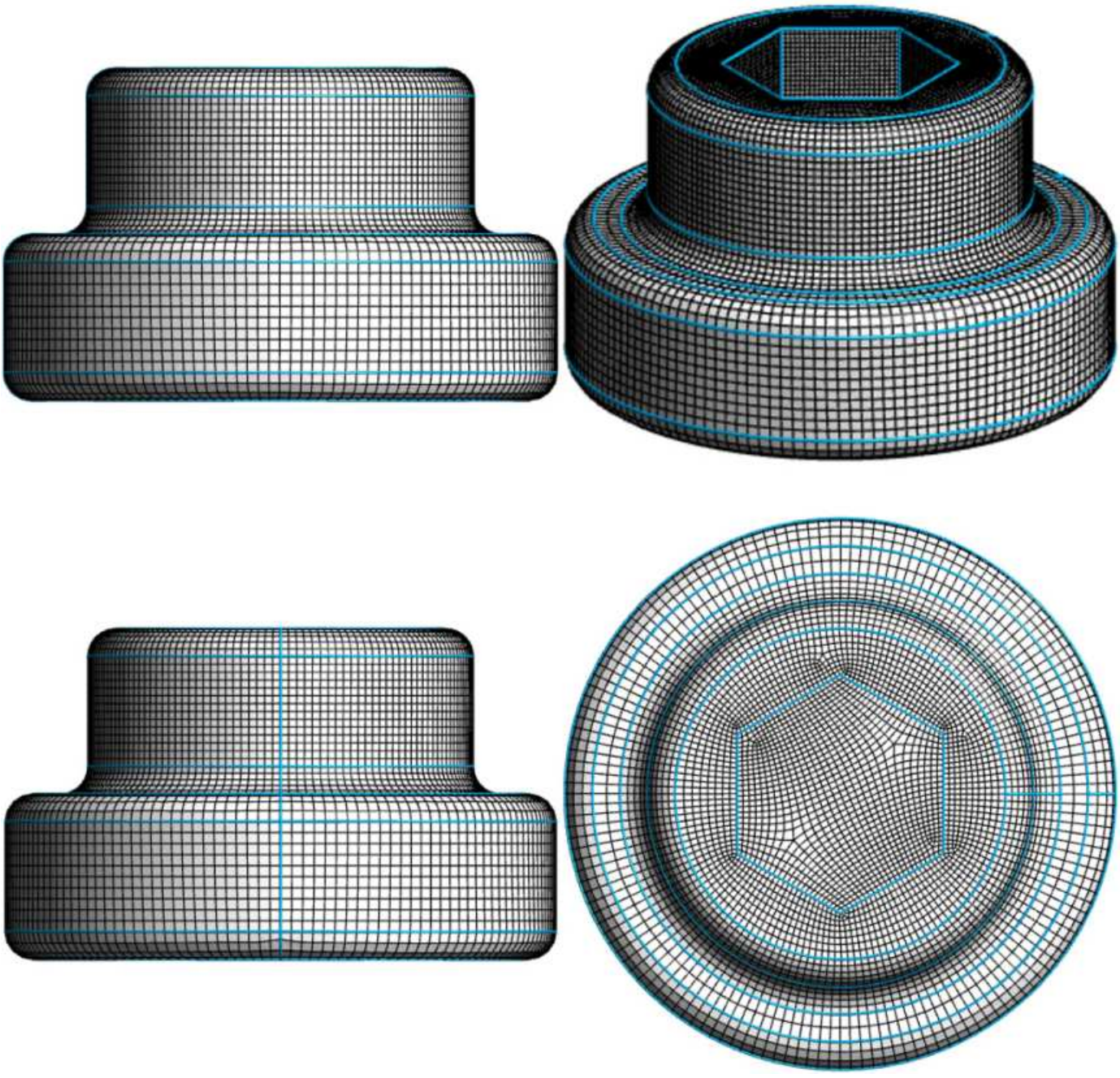


Model: 00006273 (from ABC dataset)
CAD: 20 corners, 32 curves, 16 faces
Cross field: 12 singularities detected
Timings: 11.4753 sec to generate the unstructured mesh, 1.25919 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15400	17044	106	42
Quasi-structured	15226	16870	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0659178	0.277508	0.551174	0.607538	0.984112	0.997011
Quasi-structured	0.088974	0.278991	0.519596	0.747002	0.992063	0.998615

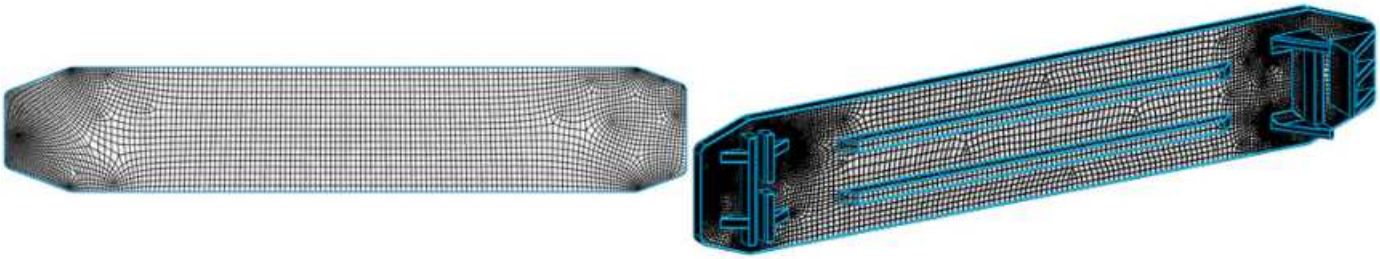


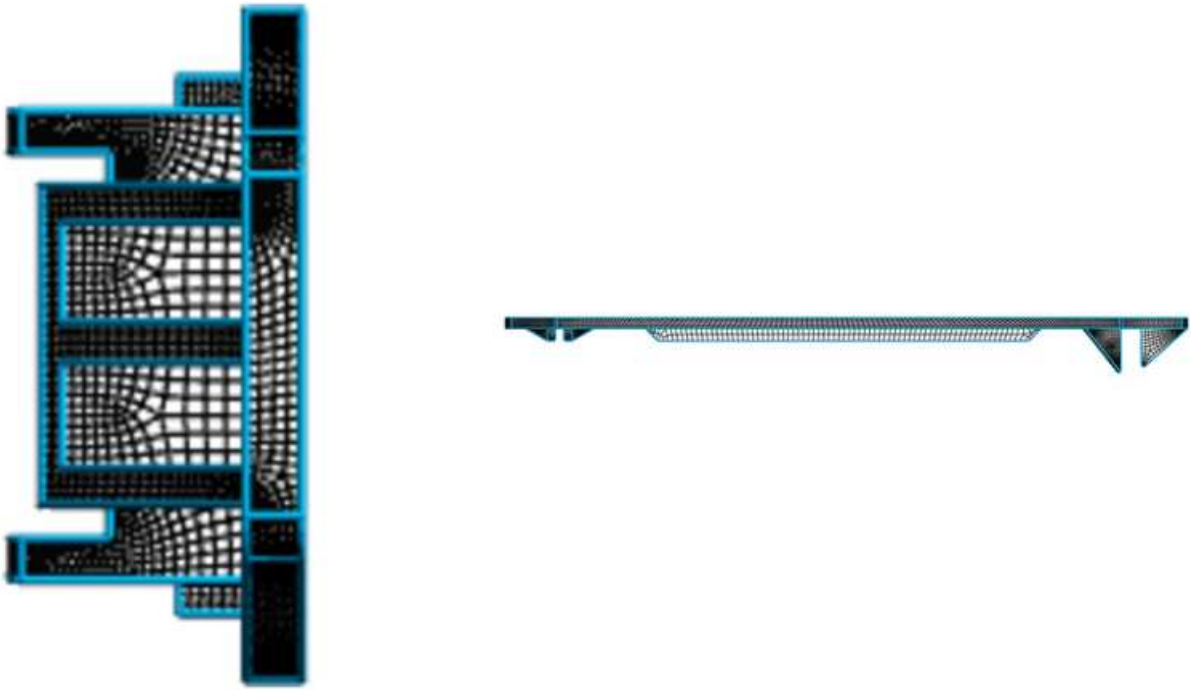
Model: 00006280 (from ABC dataset)
CAD: 162 corners, 251 curves, 97 faces
Cross field: 47 singularities detected
Timings: 6.86859 sec to generate the unstructured mesh, 31.5424 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32528	37225	2058	86
Quasi-structured	32650	37347	527	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00585591	0.508559	2.16323	0.000280195	0.891701	0.955292
Quasi-structured	0.003477	0.513244	2.86983	0.037133	0.895805	0.948209



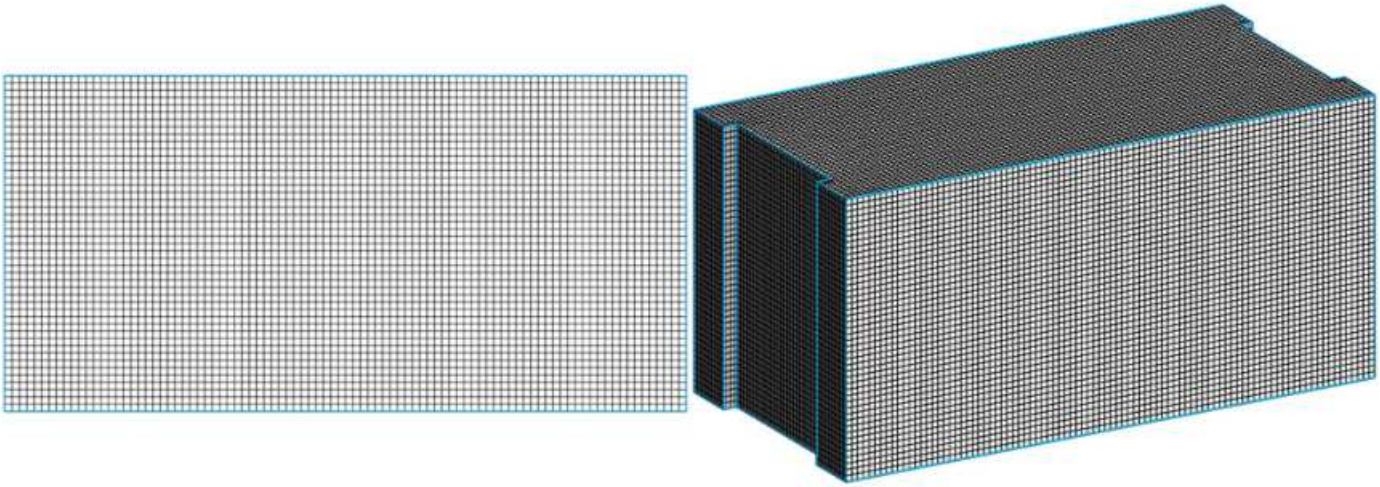


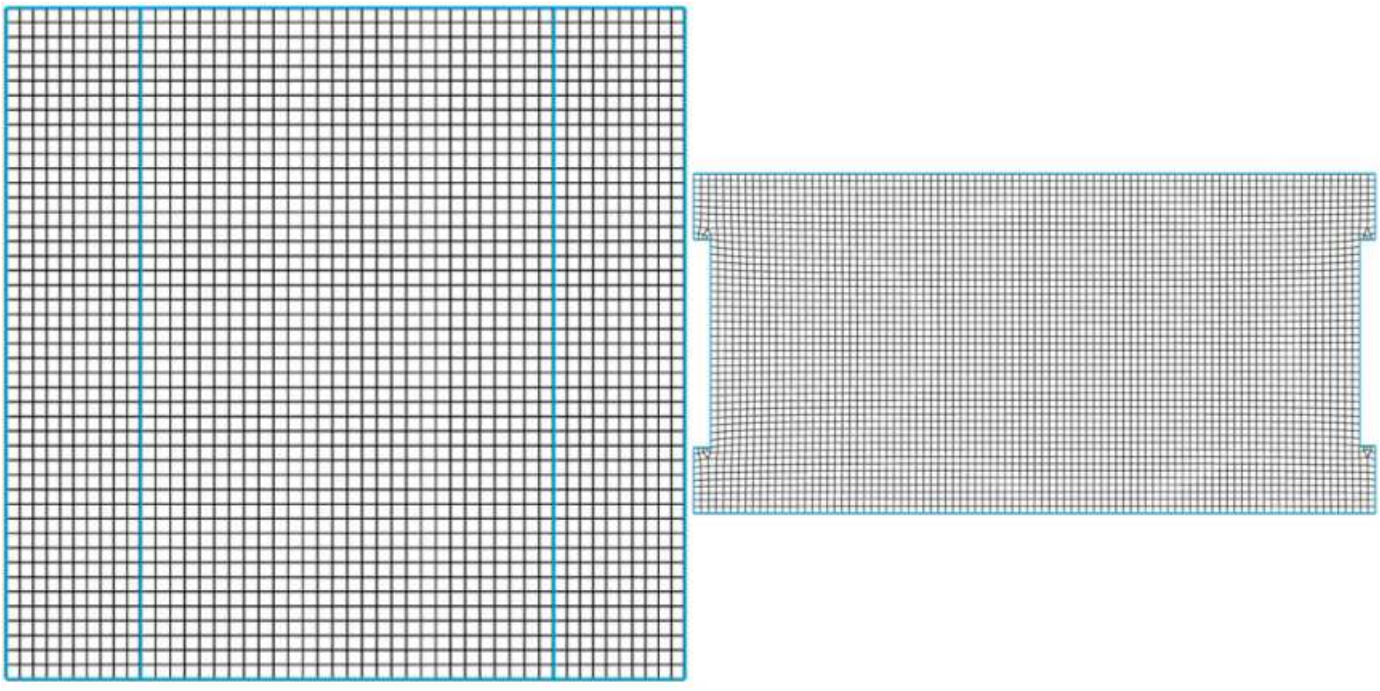
Model: 00006284 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 8.73248 sec to generate the unstructured mesh, 1.44996 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21596	22754	32	0
Quasi-structured	22248	23406	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.47205	4.25086	6.19712	0.49461	0.991275	0.999815
Quasi-structured	1.72541	4.18793	5.05171	0.790017	0.993674	0.999815



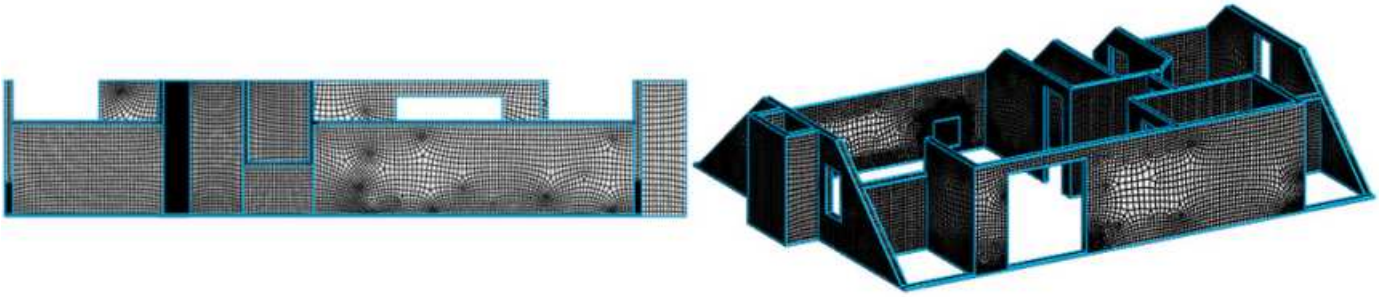


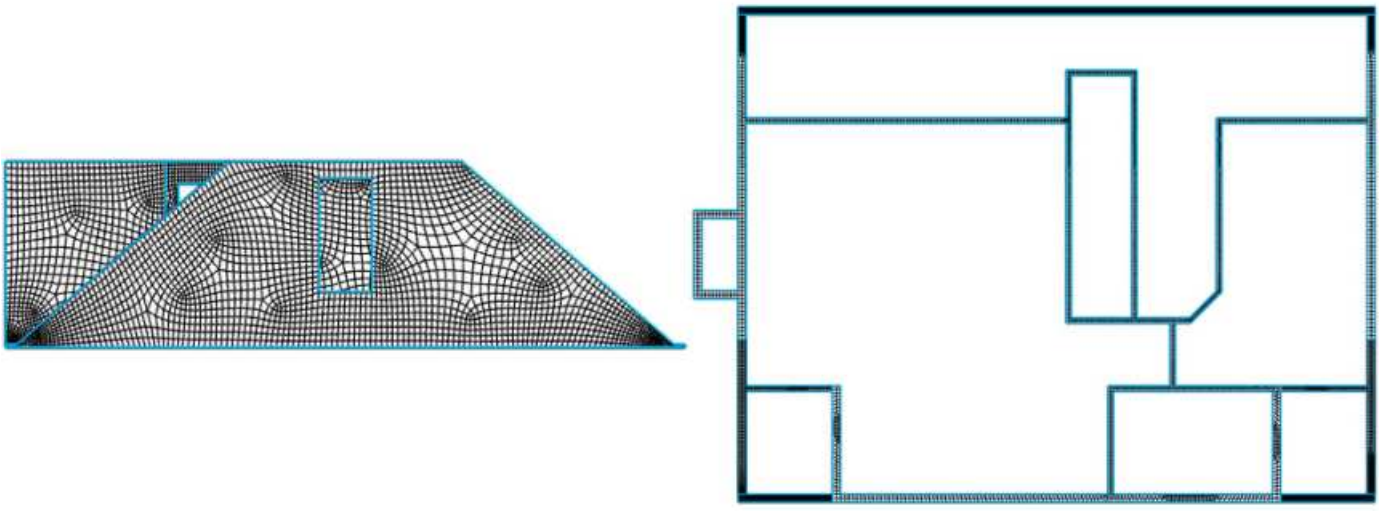
Model: 00006294 (from ABC dataset)
CAD: 218 corners, 329 curves, 105 faces
Cross field: 1 singularities detected
Timings: 10.8532 sec to generate the unstructured mesh, 60.3445 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	83616	95605	2973	182
Quasi-structured	86574	98563	855	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.75733	48.5719	207.889	0.24359	0.935073	0.97919
Quasi-structured	5.55214	48.0476	255.765	0.246912	0.947766	0.977168



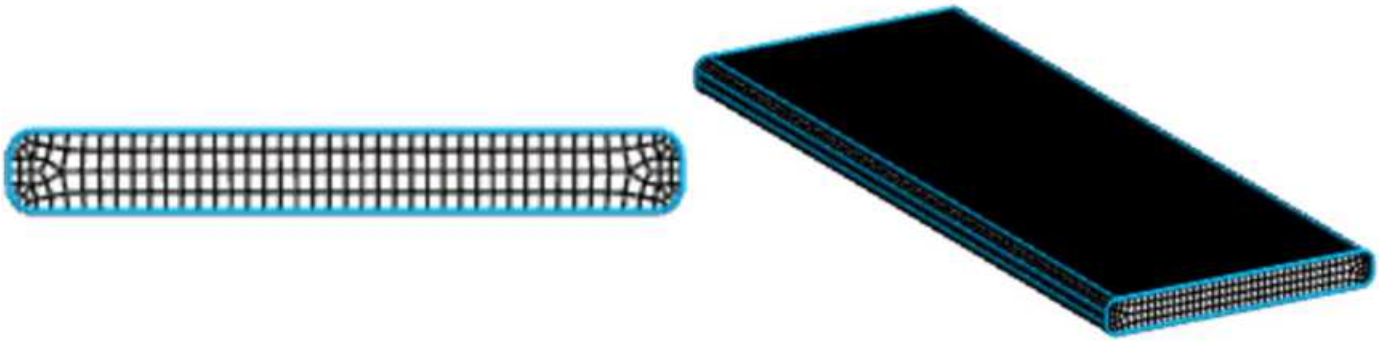


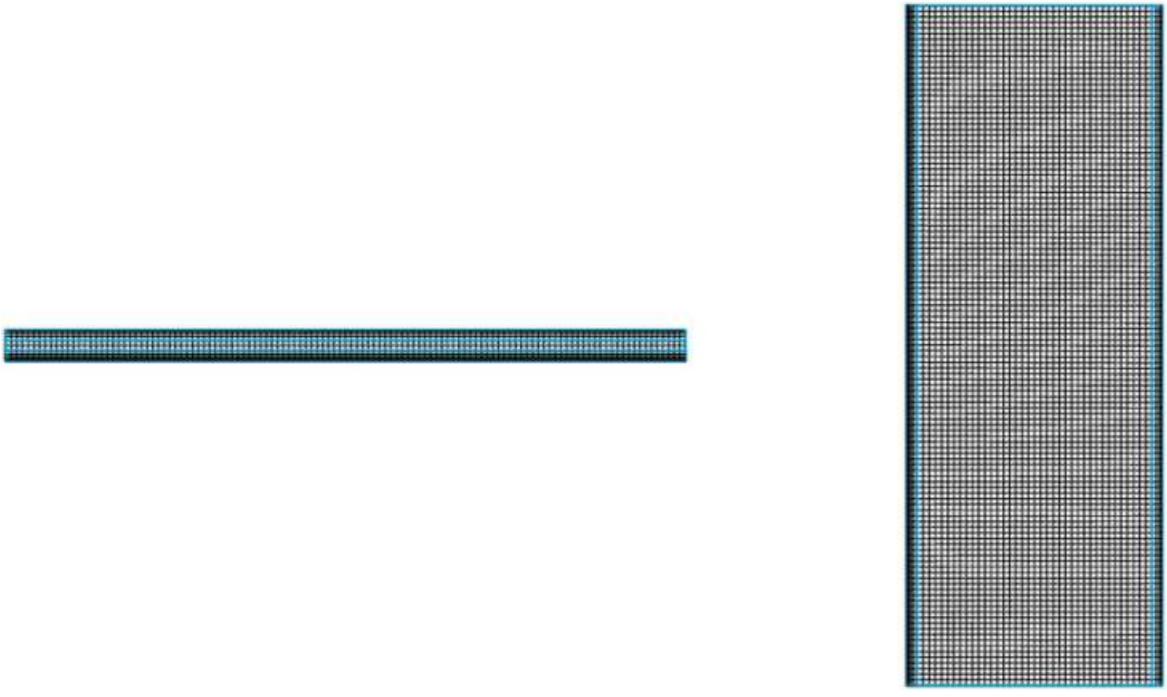
Model: 00006310 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 3.76997 sec to generate the unstructured mesh, 0.614213 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11884	13046	16	0
Quasi-structured	11900	13062	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.232226	0.561991	0.867618	0.380627	0.985258	0.995984
Quasi-structured	0.256238	0.561478	0.823995	0.819657	0.985596	0.996023



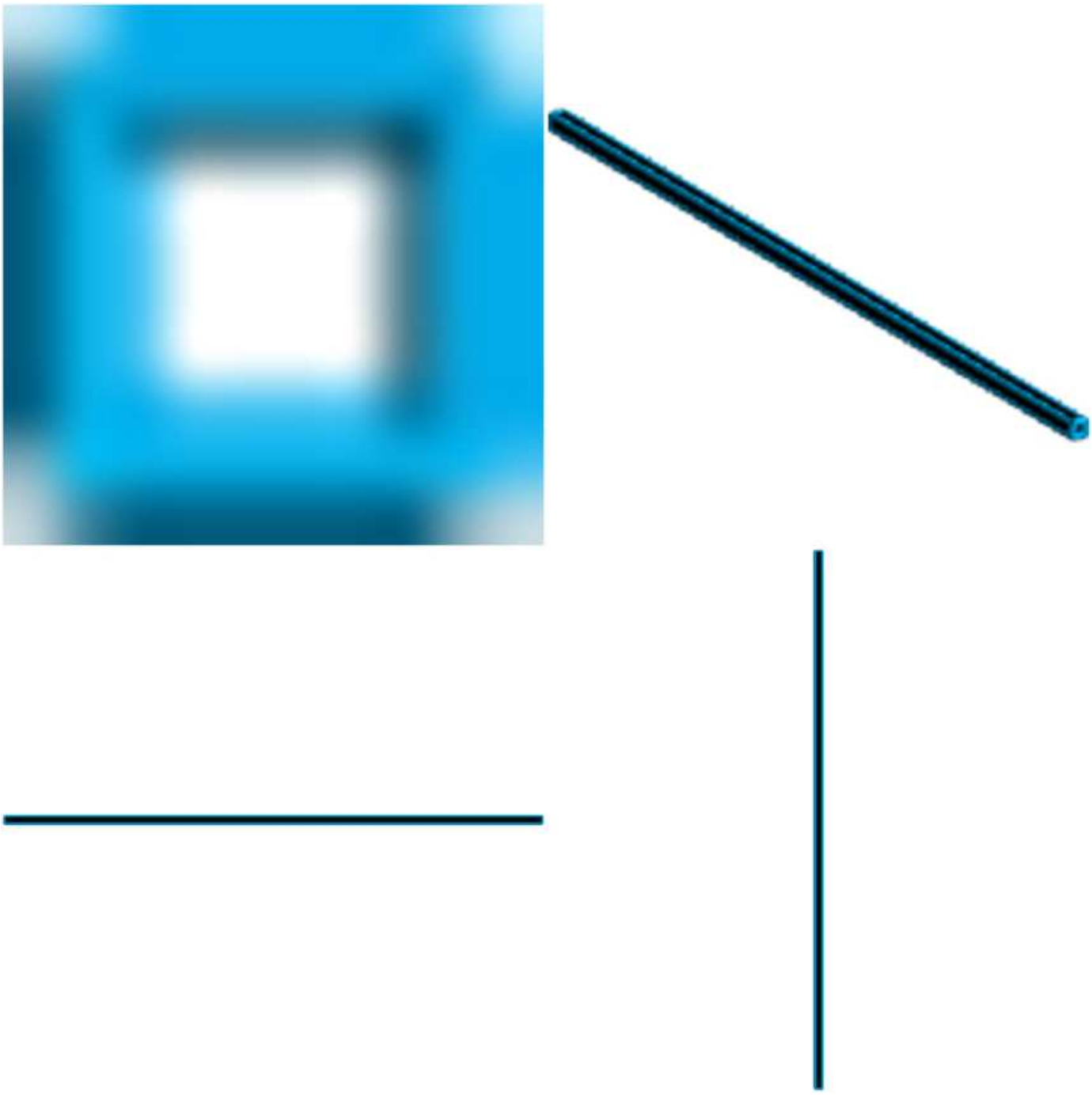


Model: 00006313 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 7.19735 sec to generate the unstructured mesh, 486.129 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	339354	361626	2316	403
Quasi-structured	339776	362048	1873	96

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.120675	0.541212	7.27758	0.0584178	0.954817	0.996101
Quasi-structured	0.0544847	0.537639	11.833	0.116659	0.959377	0.997411

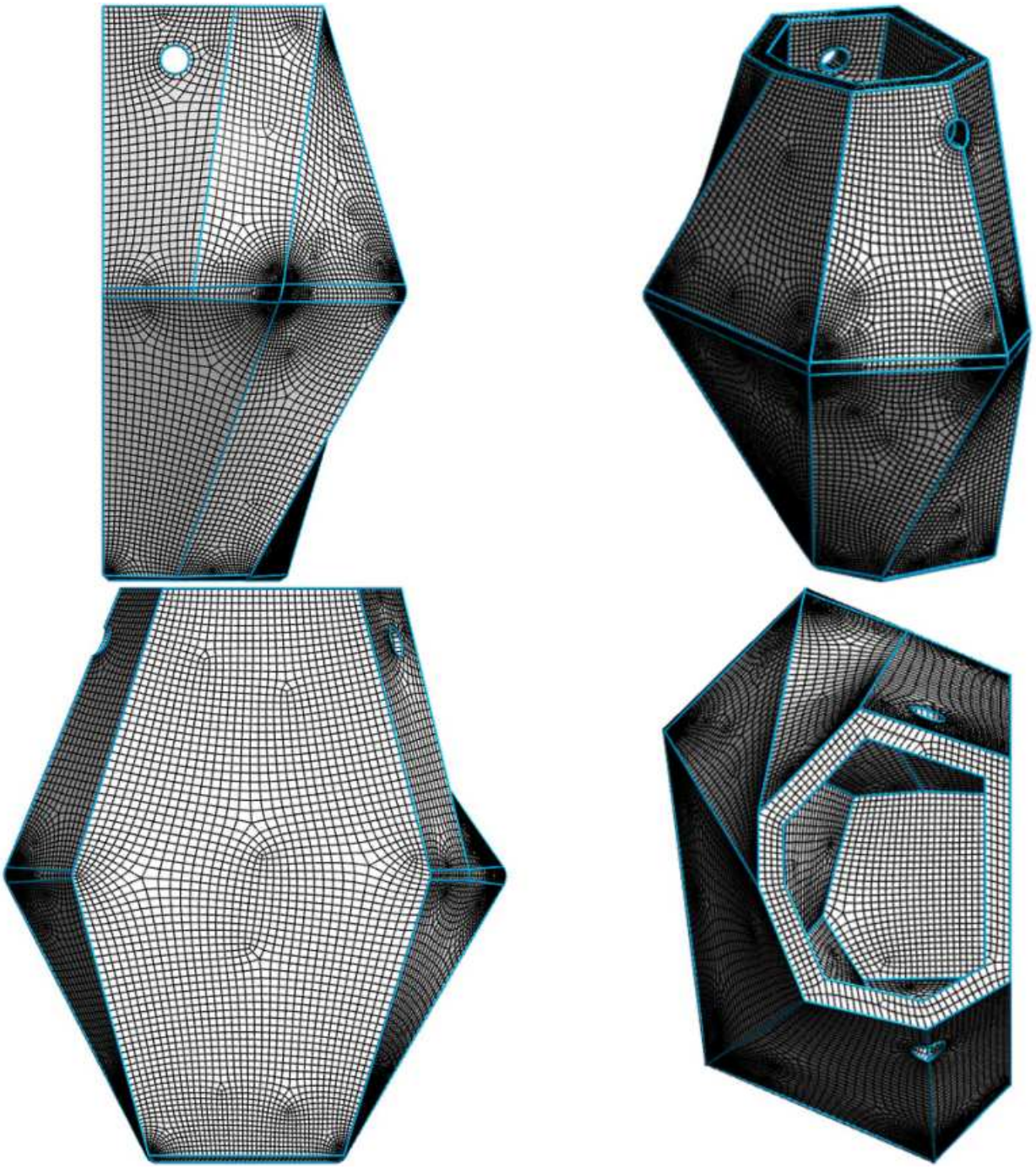


Model: 00006330 (from ABC dataset)
CAD: 77 corners, 117 curves, 41 faces
Cross field: 26 singularities detected
Timings: 19.6105 sec to generate the unstructured mesh, 19.7894 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	33576	36720	1667	56
Quasi-structured	33371	36515	379	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00243926	0.581612	3.73222	0.000171792	0.923927	0.975565
Quasi-structured	0.00931771	0.576007	6.84684	0.00962906	0.952924	0.98523

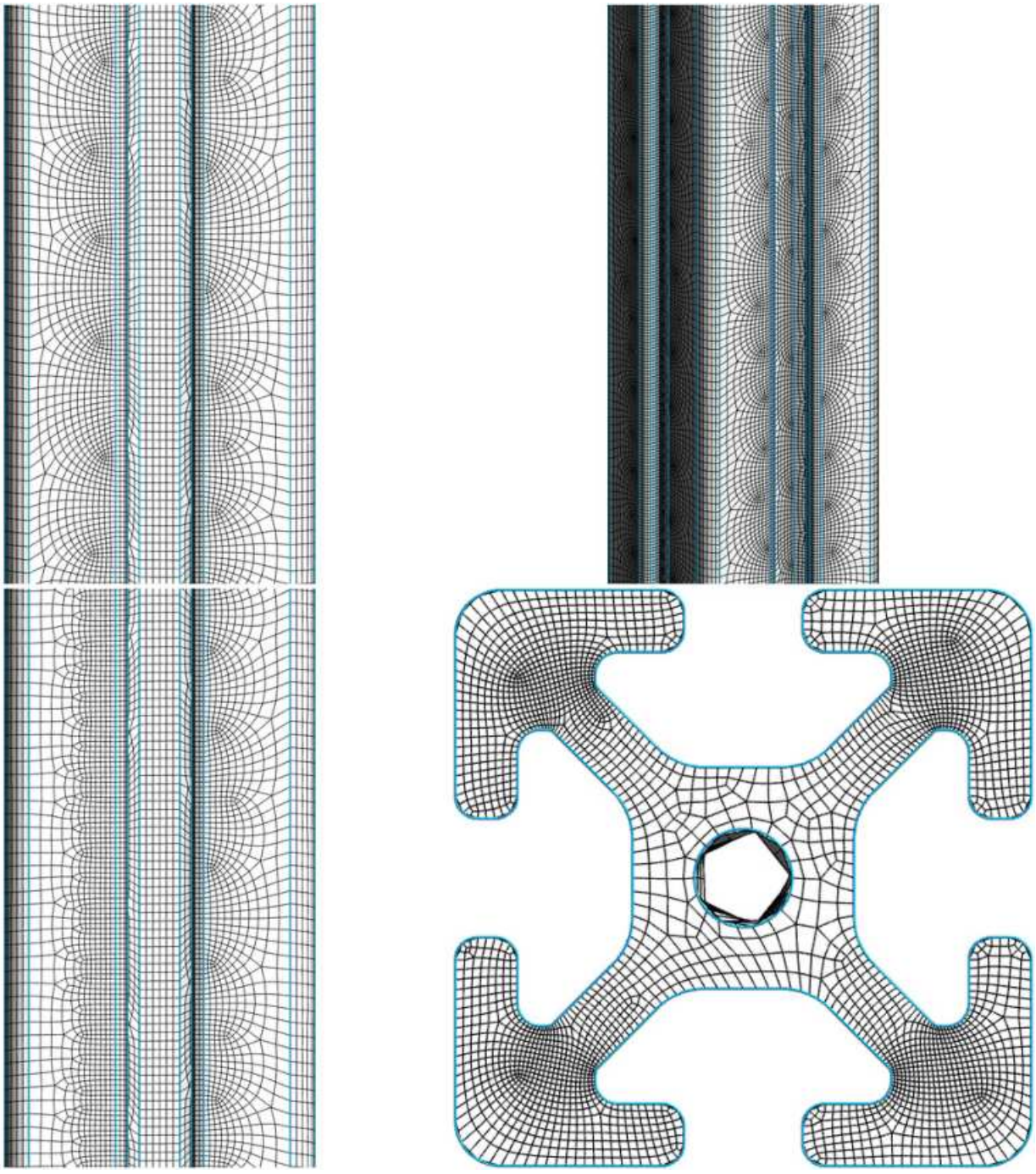


Model: 00006362 (from ABC dataset)
CAD: 178 corners, 267 curves, 91 faces
Cross field: 81 singularities detected
Timings: 28.9835 sec to generate the unstructured mesh, 7012.45 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	407642	483770	20036	1221
Quasi-structured	413895	490023	13384	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0831637	0.486302	2.48144	0.343627	0.925905	0.965122
Quasi-structured	0.10051	0.483696	3.05209	0.42629	0.94358	0.972875

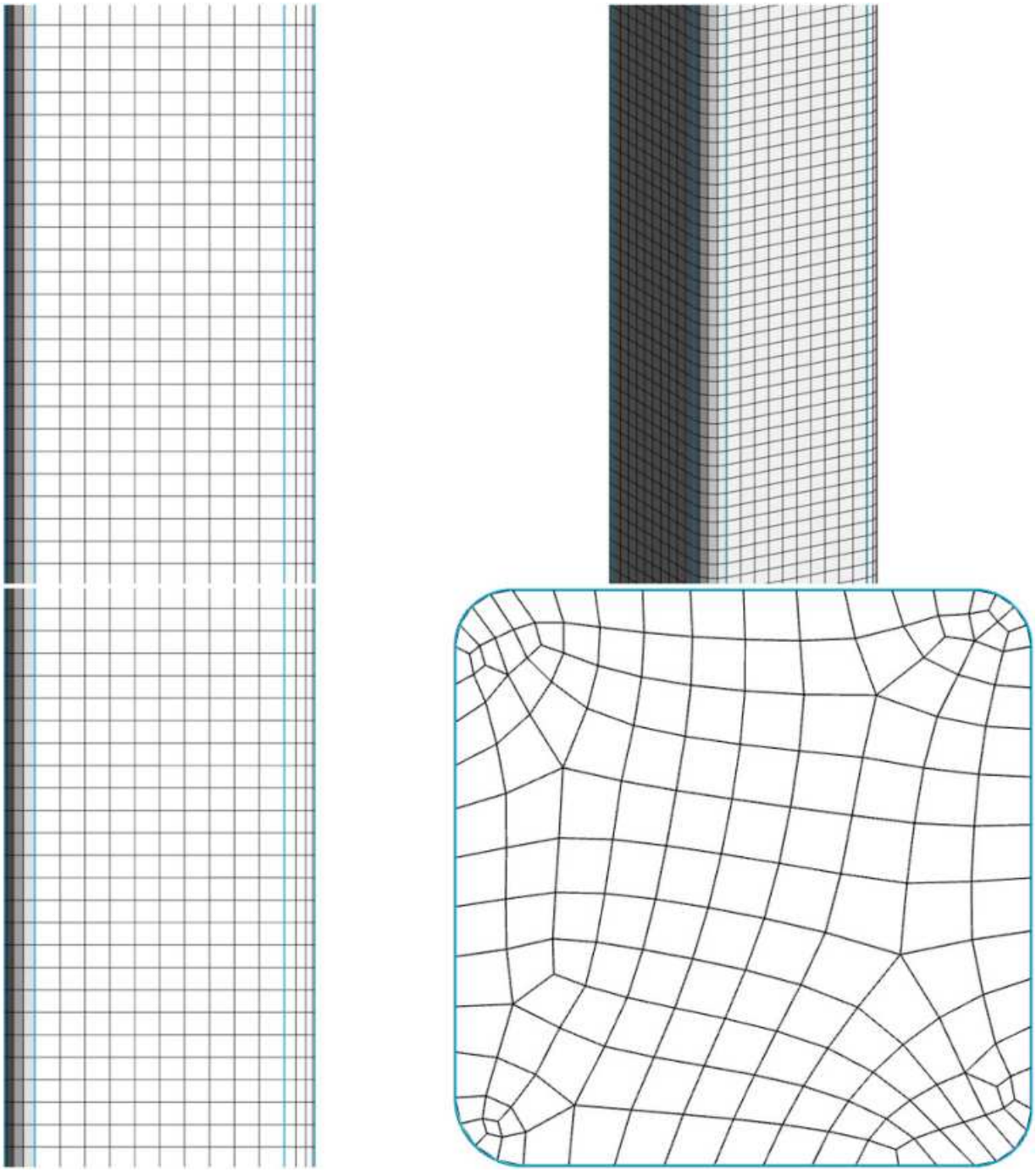


Model: 00006371 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 1.17526 sec to generate the unstructured mesh, 1.3941 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23132	26518	44	0
Quasi-structured	23169	26555	42	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.59947	3.57842	7.41179	0.382683	0.949408	0.987176
Quasi-structured	1.1401	3.5744	7.94726	0.616518	0.95255	0.994602

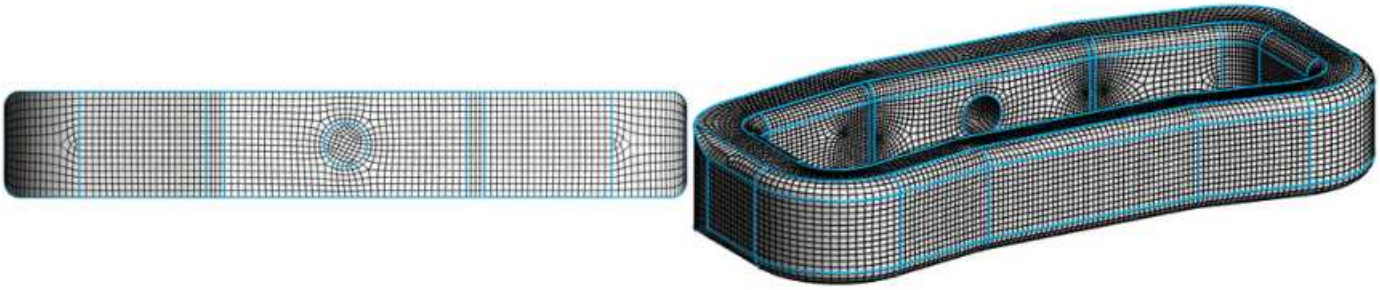


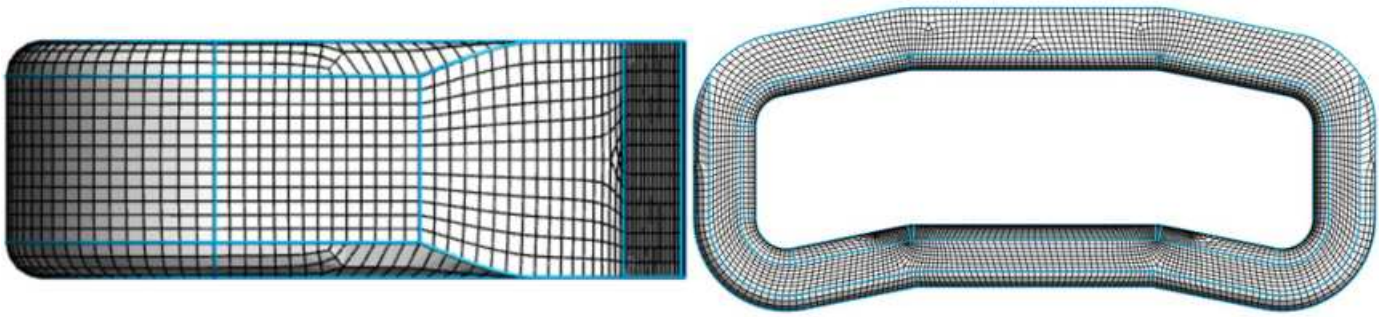
Model: 00006374 (from ABC dataset)
CAD: 113 corners, 191 curves, 81 faces
Cross field: 16 singularities detected
Timings: 10.9452 sec to generate the unstructured mesh, 10.8604 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18090	21134	552	33
Quasi-structured	19416	22460	94	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00335175	0.830046	2.31932	0.00737177	0.934683	0.975732
Quasi-structured	0.137264	0.807854	2.29724	0.433979	0.937315	0.967432



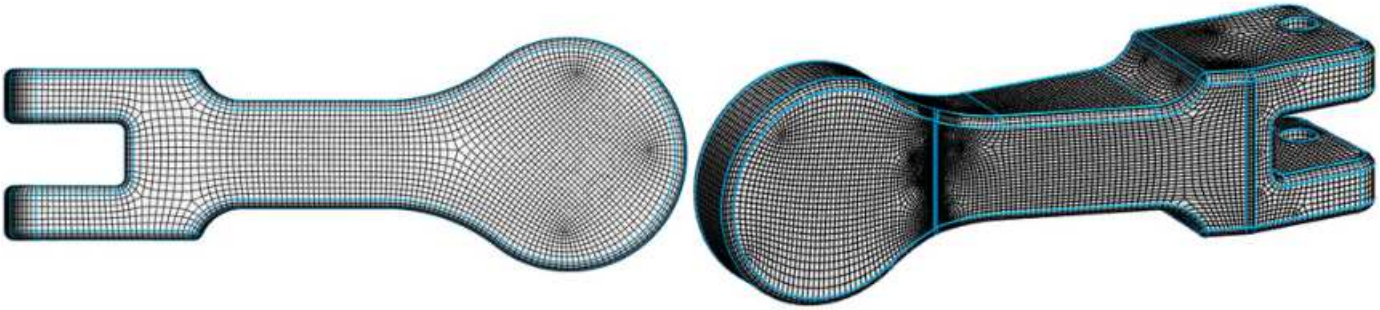


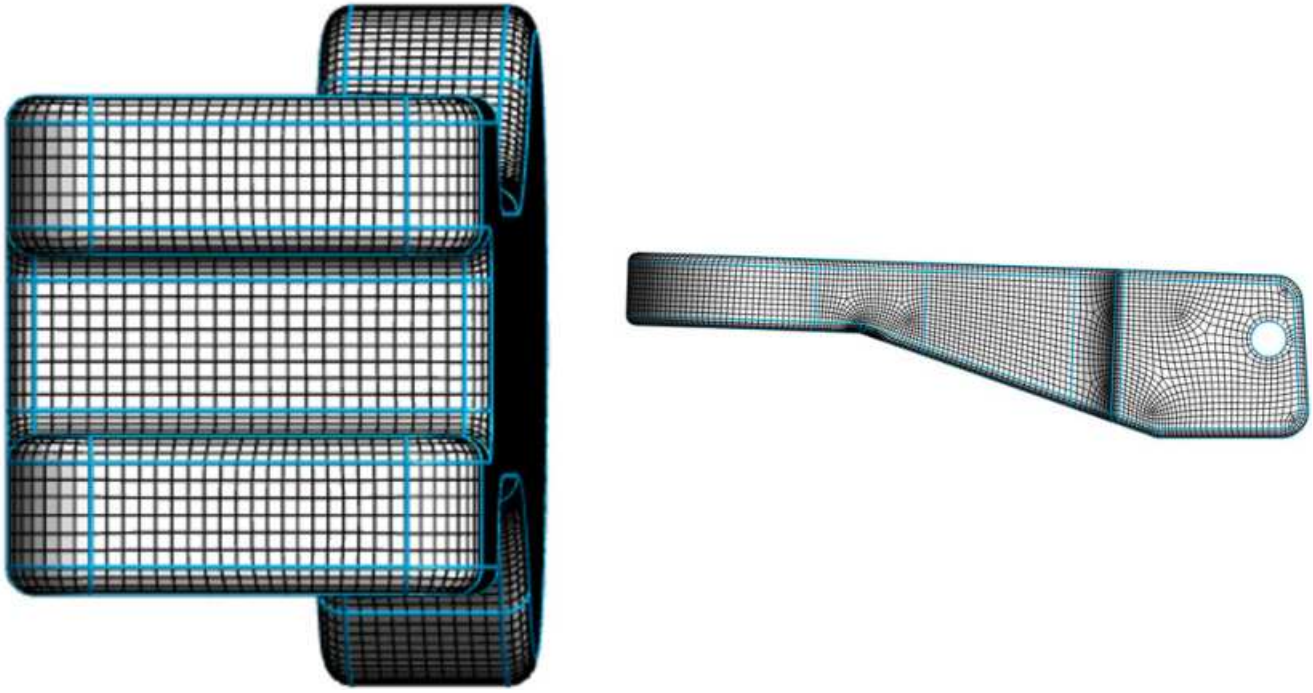
Model: 00006390 (from ABC dataset)
CAD: 104 corners, 188 curves, 82 faces
Cross field: 42 singularities detected
Timings: 10.6472 sec to generate the unstructured mesh, 7.9749 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17548	20174	532	49
Quasi-structured	18103	20729	148	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.037201	0.528212	1.49421	0.0835004	0.927756	0.970692
Quasi-structured	0.0617154	0.517766	1.50235	0.485127	0.940509	0.973634



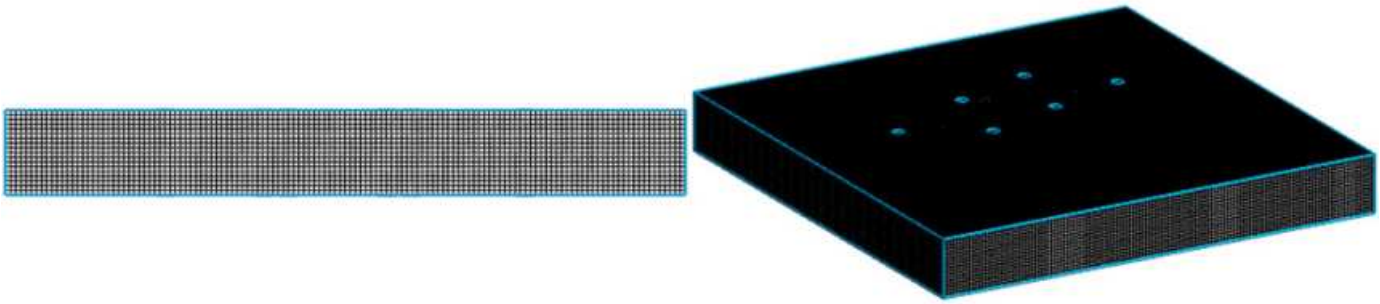


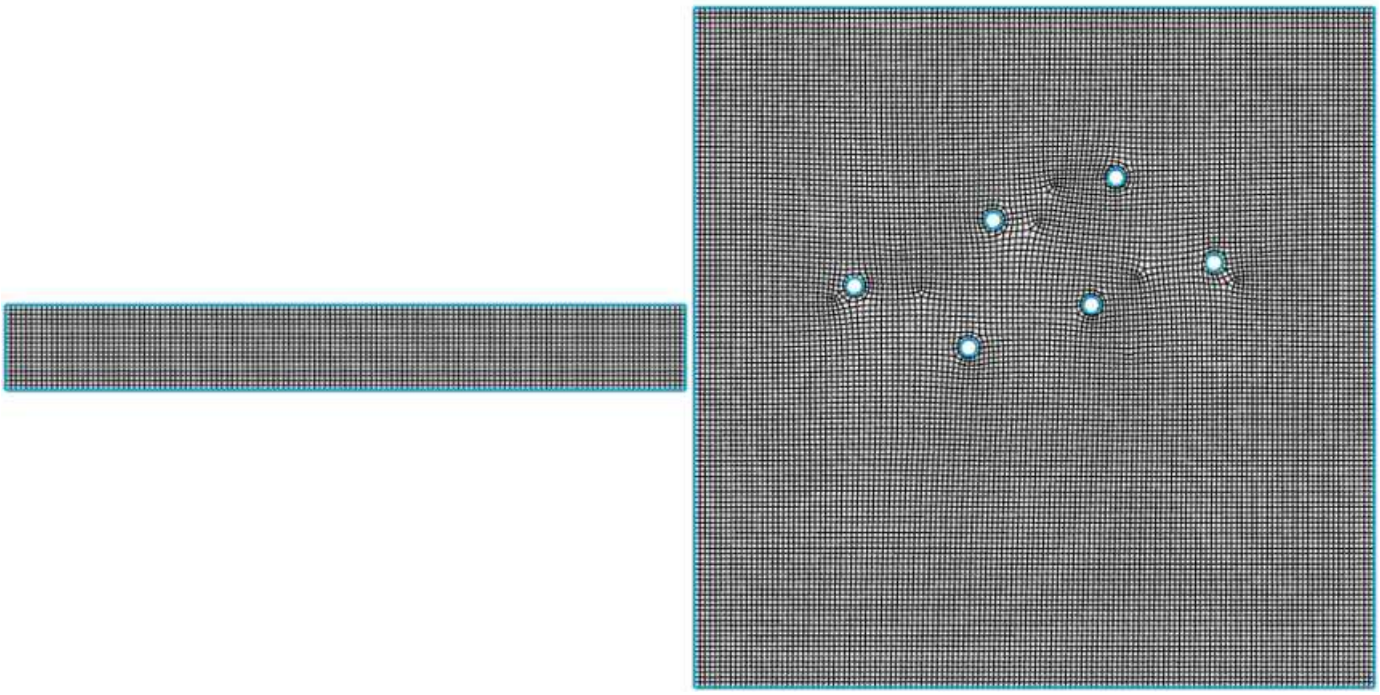
Model: 00006429 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 48 singularities detected
Timings: 37.8223 sec to generate the unstructured mesh, 7.06548 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	45682	46972	266	139
Quasi-structured	45747	47037	80	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0950921	0.38008	0.623914	0.147921	0.986996	0.999799
Quasi-structured	0.066351	0.379047	0.624445	0.619858	0.996421	0.999438



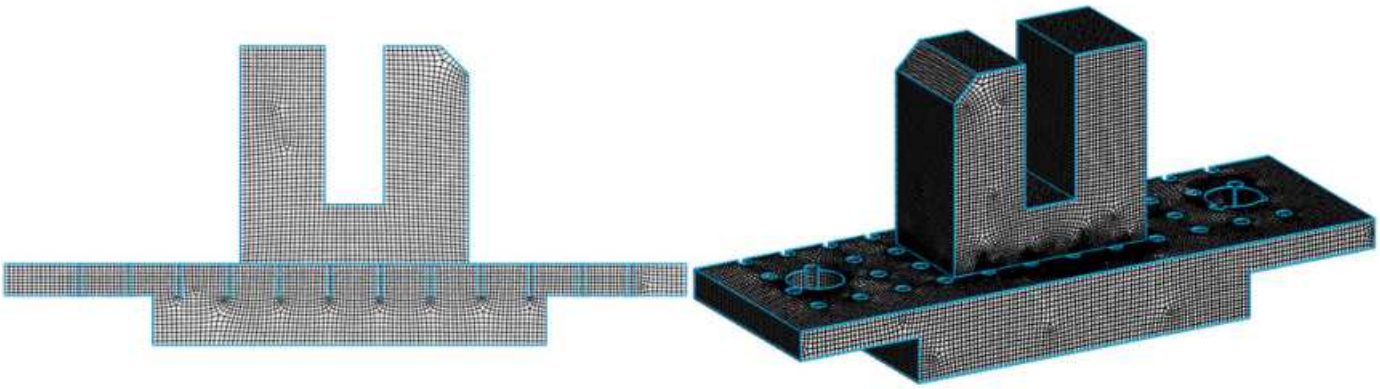


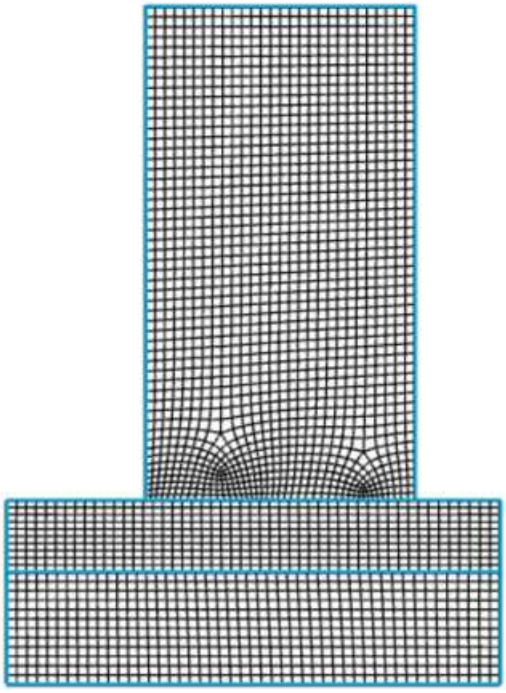
Model: 00006436 (from ABC dataset)
CAD: 172 corners, 262 curves, 121 faces
Cross field: 350 singularities detected
Timings: 31.1302 sec to generate the unstructured mesh, 21.2717 sec to make it quasi-structured
Mesh topology:

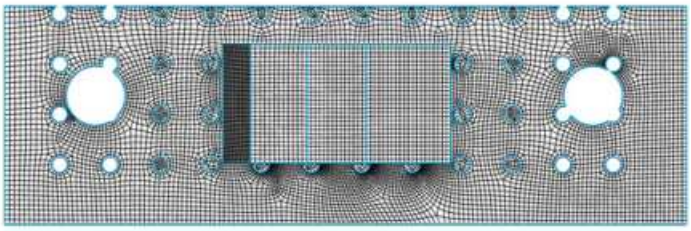
	# quads	# vertices	# irregular	# very irregular
Unstructured	43586	47779	1610	373
Quasi-structured	43569	47762	730	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0165311	0.188406	0.440235	0.0919459	0.953505	0.992598
Quasi-structured	0.00771365	0.188074	0.508842	0.236524	0.971247	0.993744





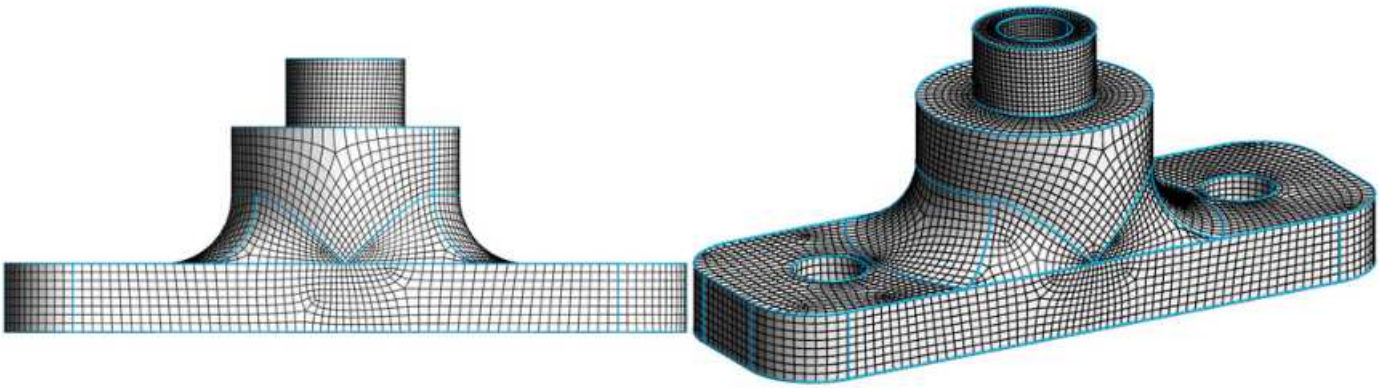


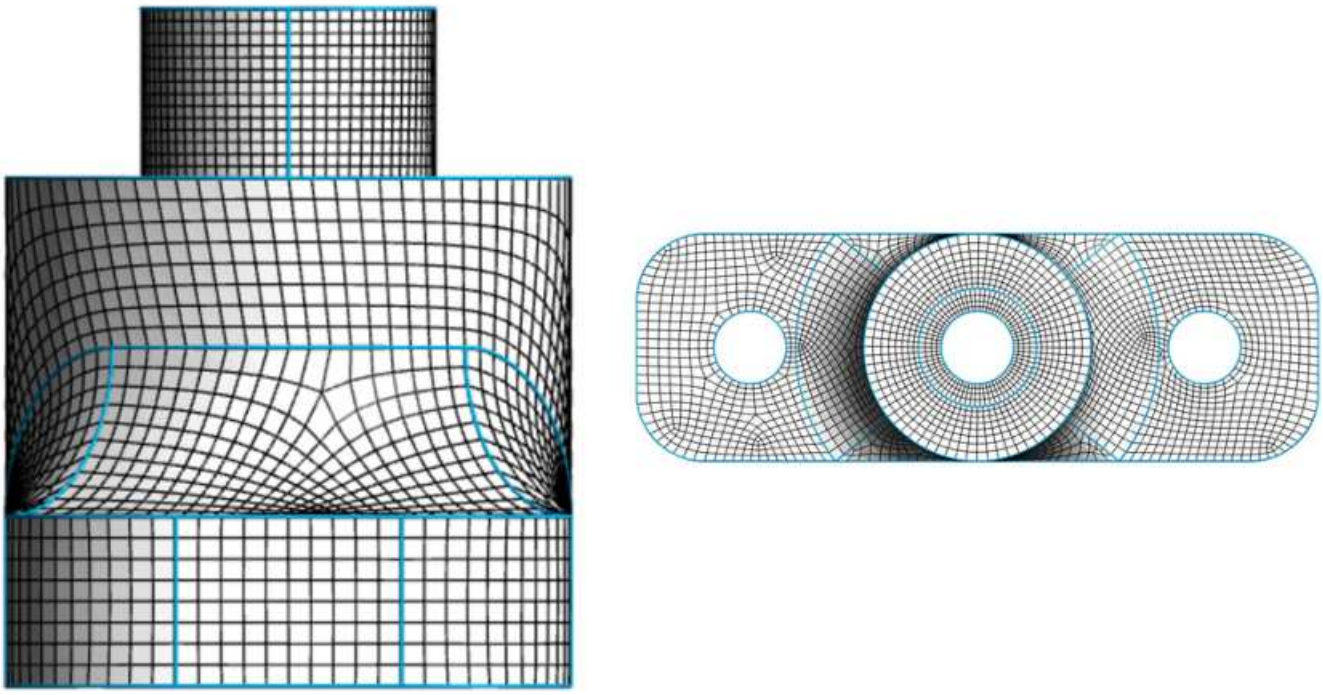
Model: 00006443 (from ABC dataset)
CAD: 39 corners, 65 curves, 26 faces
Cross field: 34 singularities detected
Timings: 10.4958 sec to generate the unstructured mesh, 3.51163 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12852	14128	369	128
Quasi-structured	13416	14692	86	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0647278	0.285295	0.761372	0.229213	0.959748	0.993418
Quasi-structured	0.0799674	0.280005	1.13759	0.466125	0.977144	0.995457



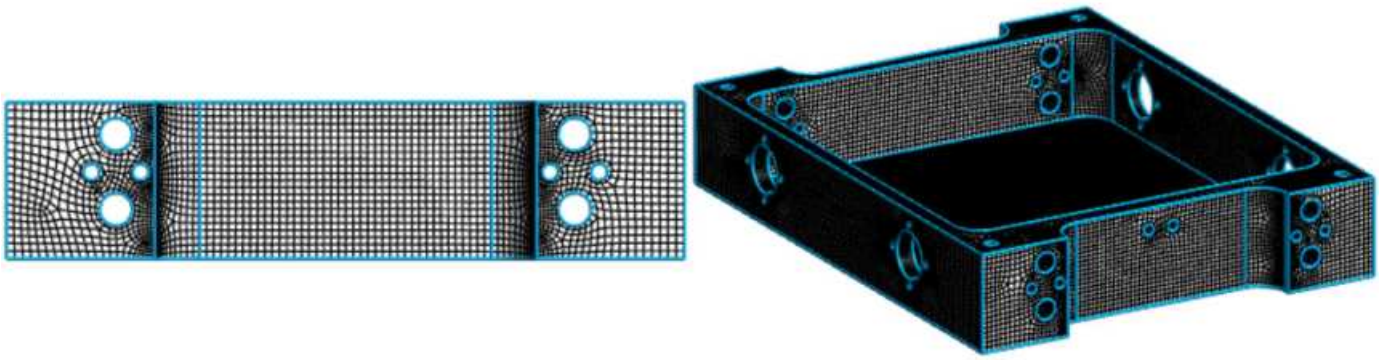


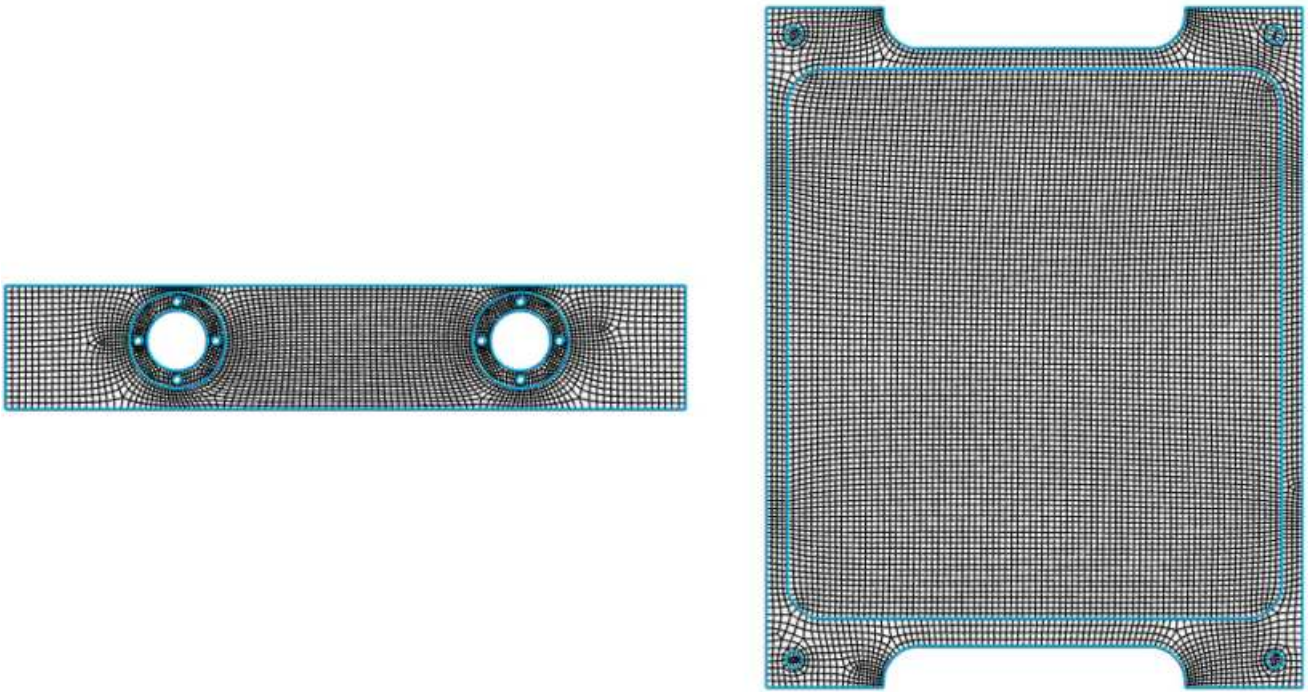
Model: 00006454 (from ABC dataset)
CAD: 160 corners, 228 curves, 77 faces
Cross field: 352 singularities detected
Timings: 31.9444 sec to generate the unstructured mesh, 19.763 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	46196	50452	1883	516
Quasi-structured	48463	52719	655	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.134928	1.18624	2.60768	0.0177297	0.953301	0.992251
Quasi-structured	0.165155	1.1605	3.0999	0.175073	0.968108	0.990476



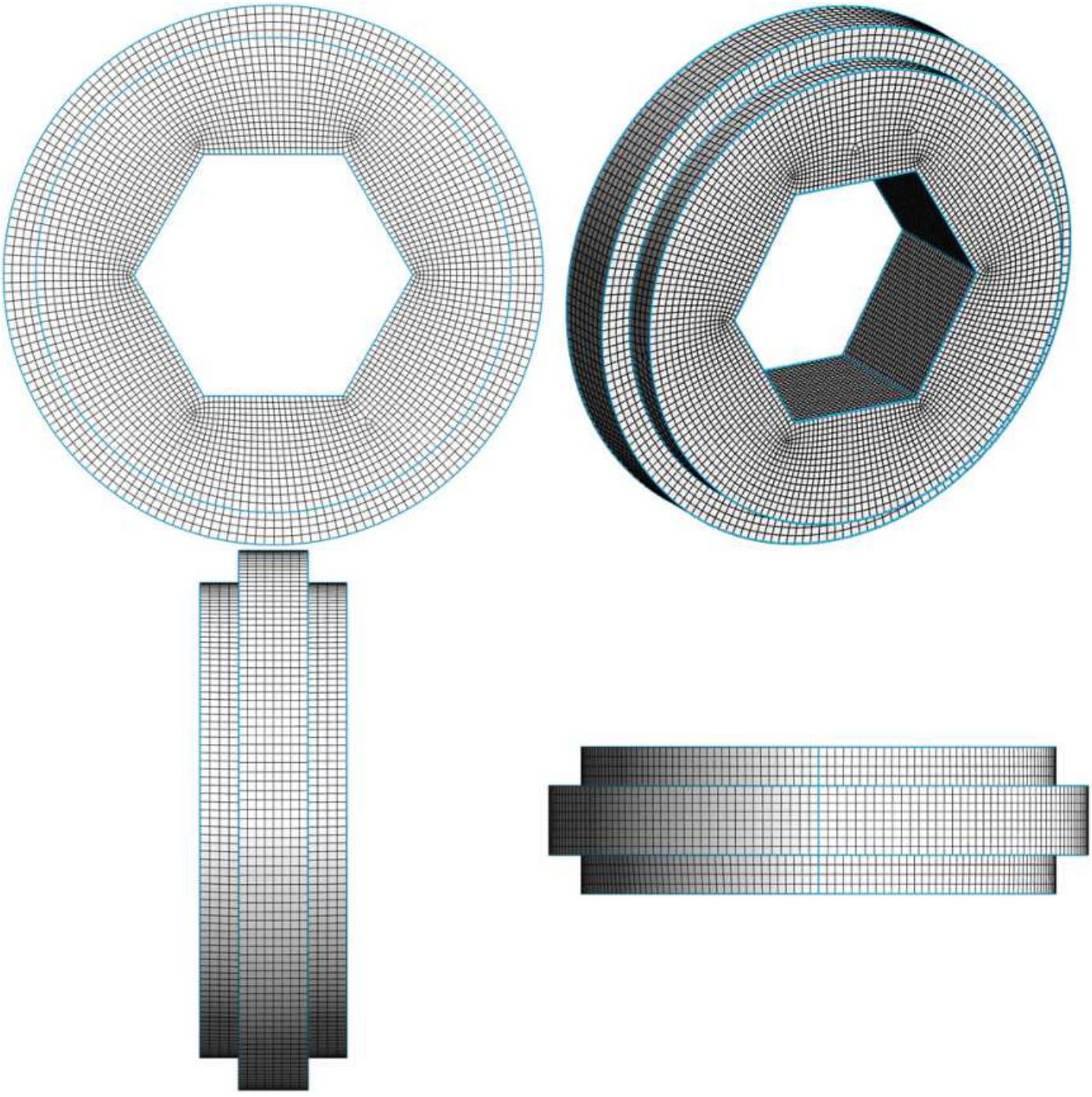


Model: 00006464 (from ABC dataset)
CAD: 20 corners, 29 curves, 13 faces
Cross field: 12 singularities detected
Timings: 9.68615 sec to generate the unstructured mesh, 1.01349 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14554	16122	95	18
Quasi-structured	14478	16046	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.154297	0.502998	0.864304	0.551611	0.984151	0.998432
Quasi-structured	0.177334	0.503692	0.877185	0.786882	0.994061	0.995292

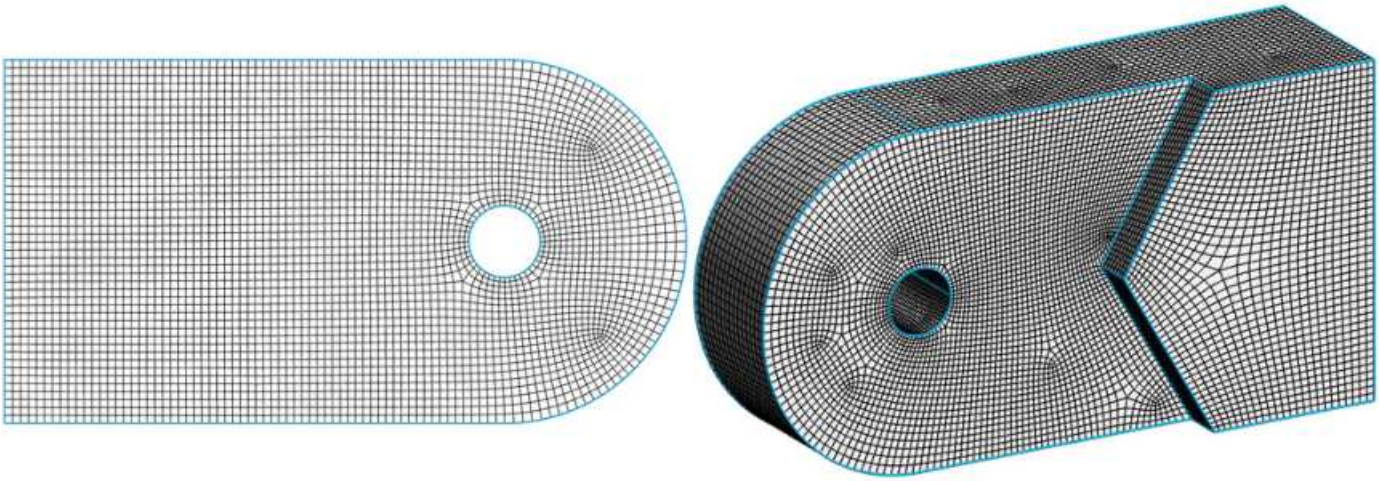


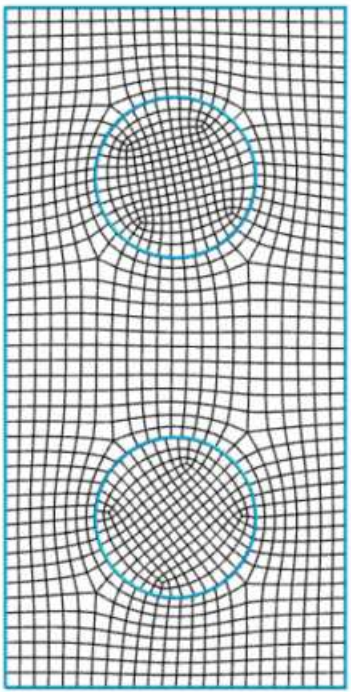
Model: 00006467 (from ABC dataset)
CAD: 21 corners, 31 curves, 14 faces
Cross field: 26 singularities detected
Timings: 15.9396 sec to generate the unstructured mesh, 3.15051 sec to make it quasi-structured
Mesh topology:

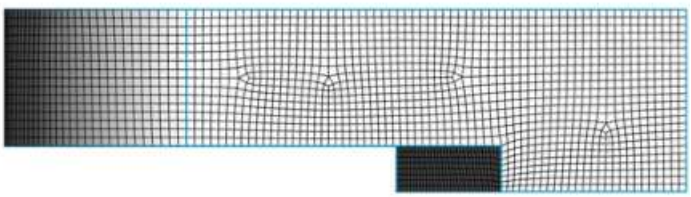
	# quads	# vertices	# irregular	# very irregular
Unstructured	19022	20005	235	117
Quasi-structured	19128	20111	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0634755	0.244407	0.485869	0.441556	0.98024	0.996232
Quasi-structured	0.0664432	0.243159	0.727028	0.538799	0.99099	0.998449





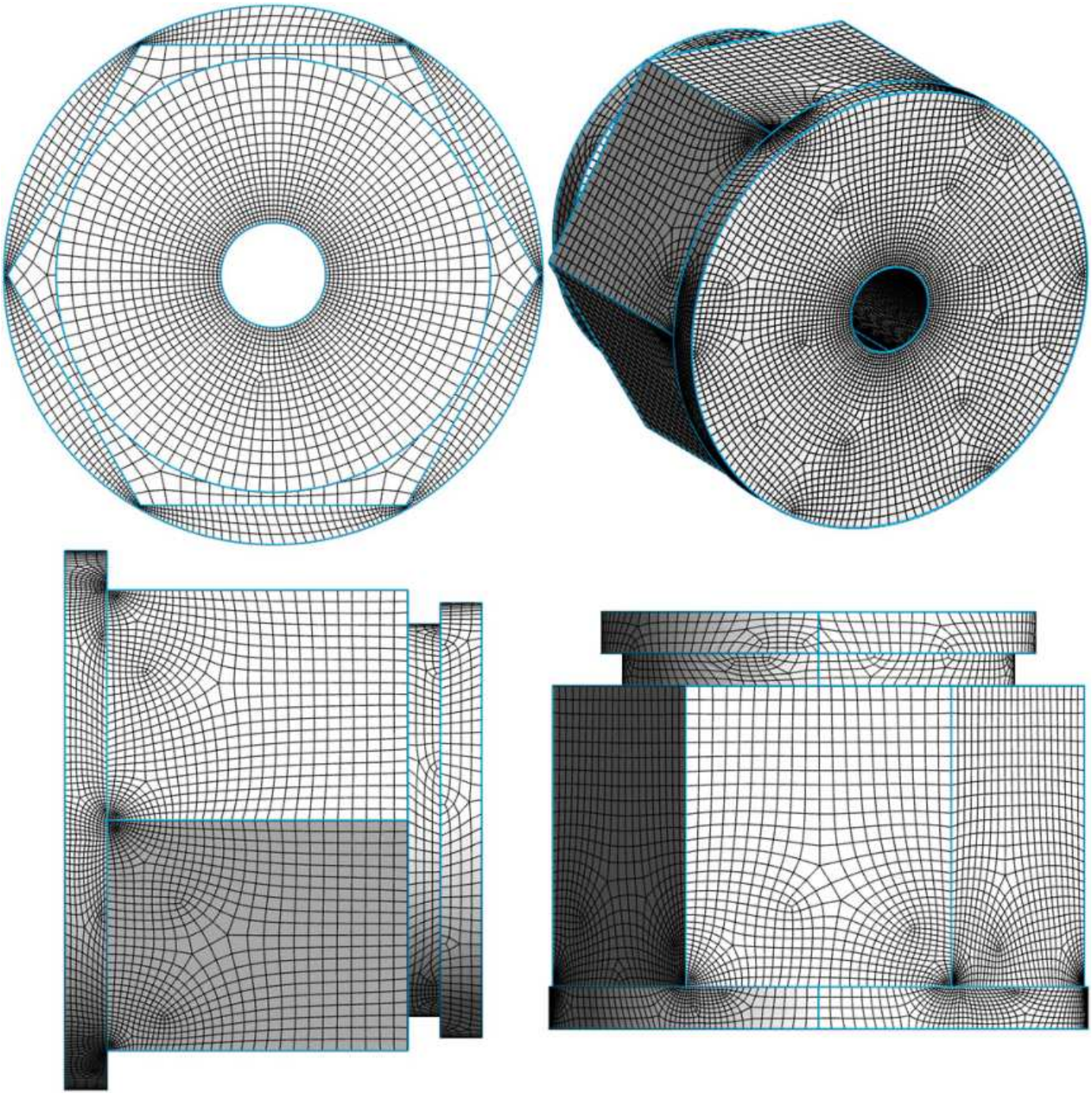


Model: 00006473 (from ABC dataset)
CAD: 21 corners, 31 curves, 15 faces
Cross field: 6 singularities detected
Timings: 13.6533 sec to generate the unstructured mesh, 22.704 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28356	30168	667	154
Quasi-structured	27920	29732	196	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0334897	0.222697	0.806229	0.238278	0.962422	0.994444
Quasi-structured	0.0248187	0.224696	0.868525	0.372894	0.974934	0.996351

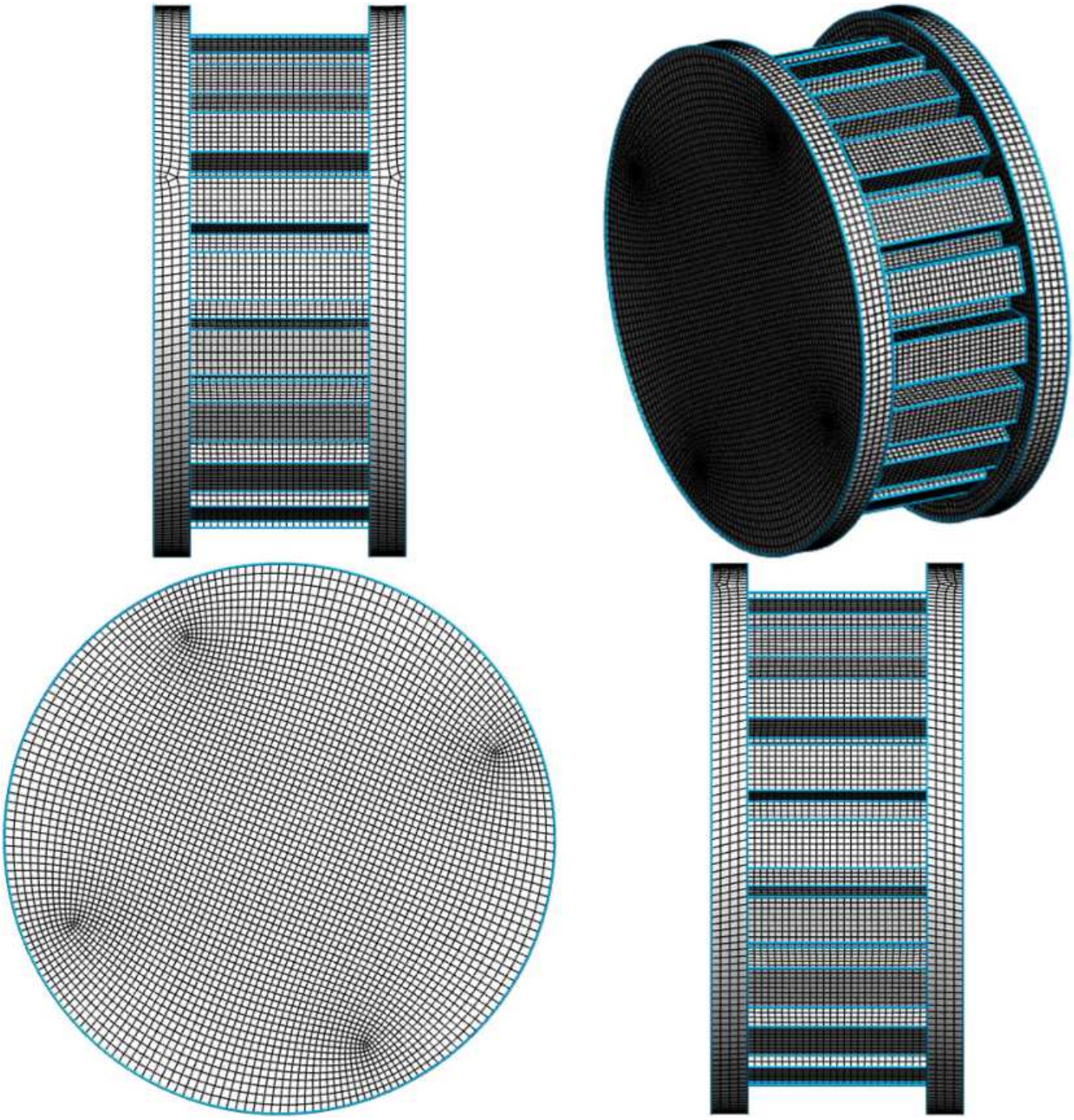


Model: 00006488 (from ABC dataset)
CAD: 164 corners, 246 curves, 86 faces
Cross field: 8 singularities detected
Timings: 21.9115 sec to generate the unstructured mesh, 48.8897 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26322	30256	208	14
Quasi-structured	26148	30082	60	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.326948	0.944467	1.94442	0.560021	0.97596	0.989486
Quasi-structured	0.319929	0.945153	1.98465	0.606363	0.981995	0.989981

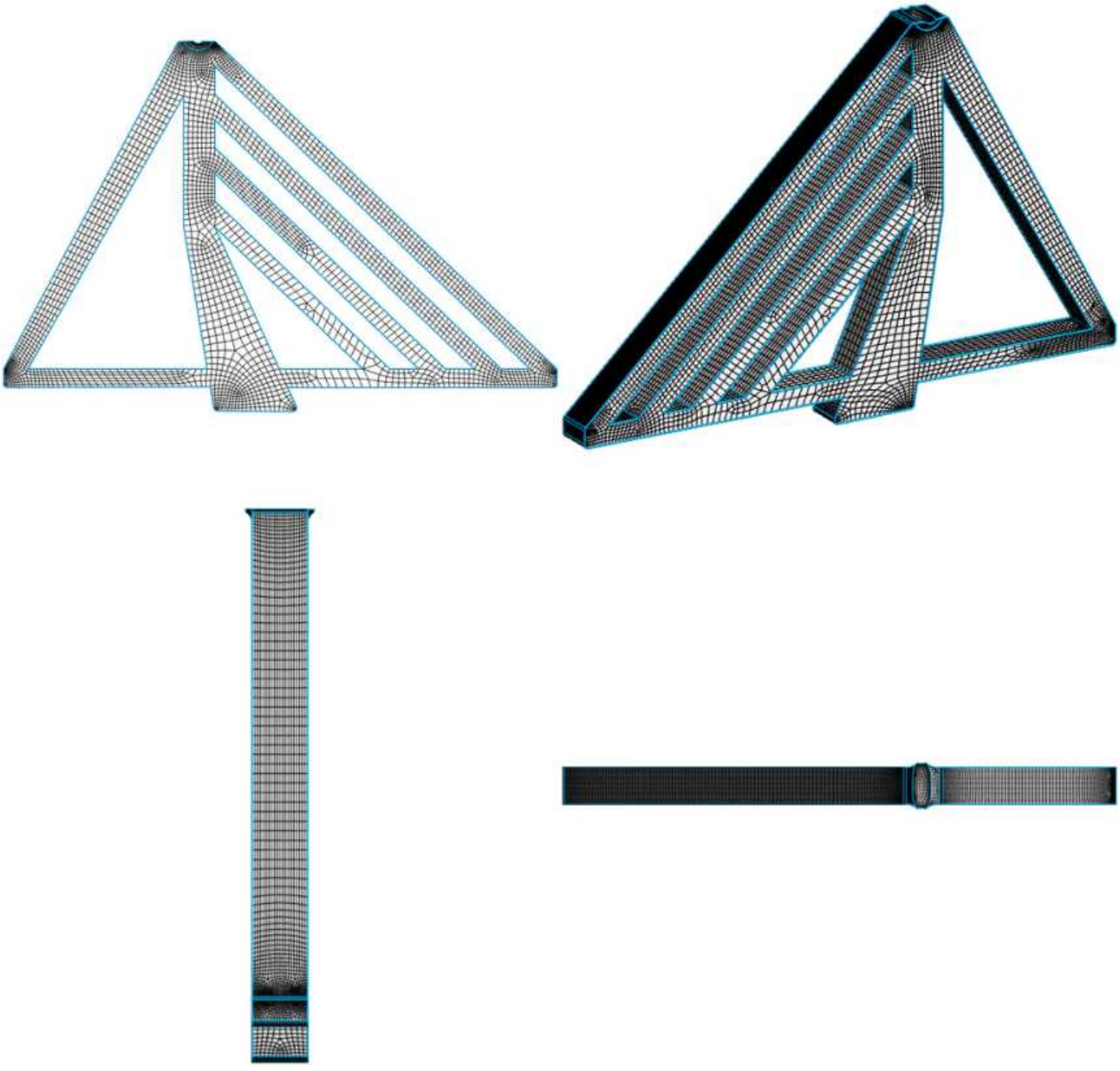


Model: 00006497 (from ABC dataset)
CAD: 88 corners, 129 curves, 43 faces
Cross field: 24 singularities detected
Timings: 8.86173 sec to generate the unstructured mesh, 7.57521 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17956	20673	603	29
Quasi-structured	19831	22548	196	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00166109	0.204713	0.585438	0.017648	0.863374	0.950336
Quasi-structured	0.00436445	0.199536	0.914822	0.0263093	0.847155	0.929581

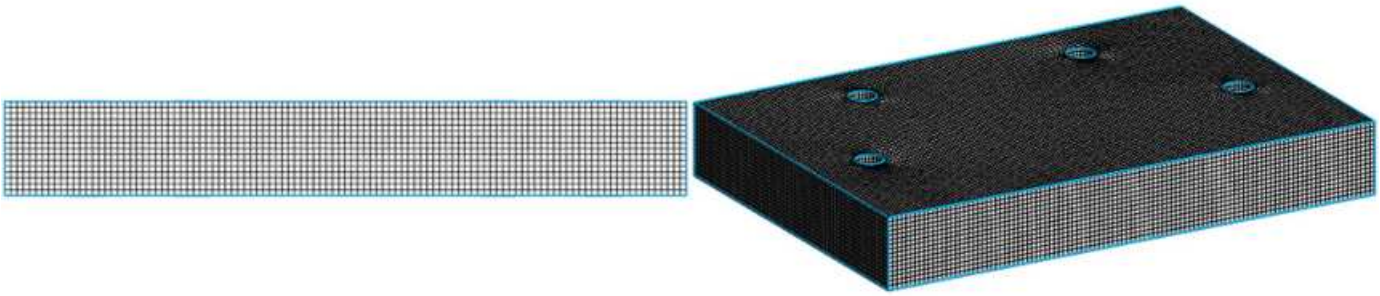


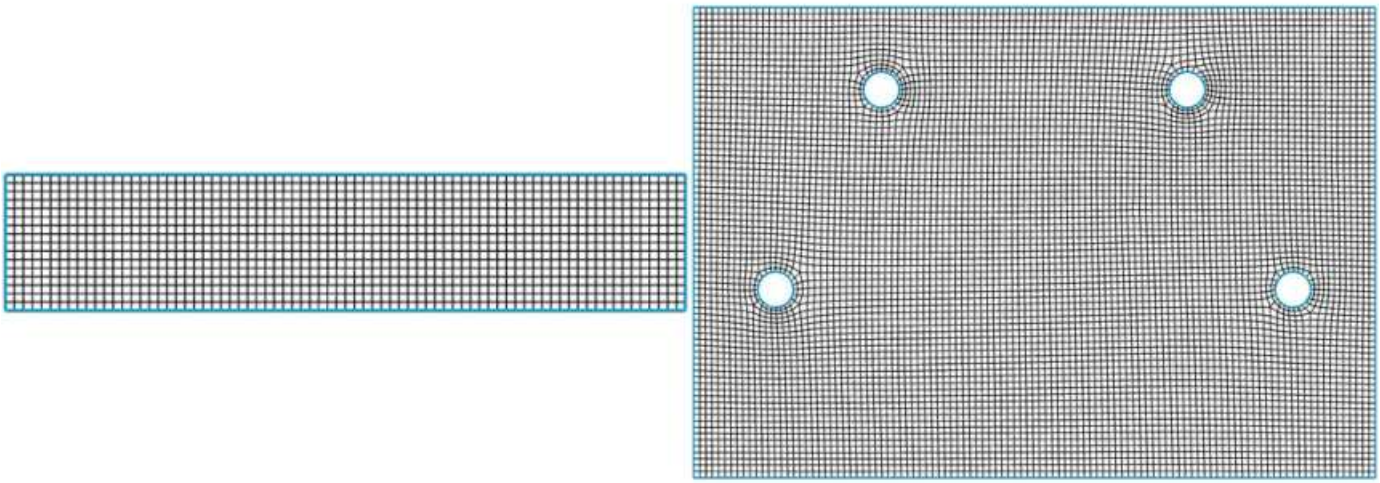
Model: 00006515 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 32 singularities detected
Timings: 16.7773 sec to generate the unstructured mesh, 2.42691 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23588	24574	226	81
Quasi-structured	23668	24654	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.583047	1.65966	2.74158	0.560631	0.984494	0.998007
Quasi-structured	0.804531	1.65371	3.13039	0.715457	0.994835	0.998111



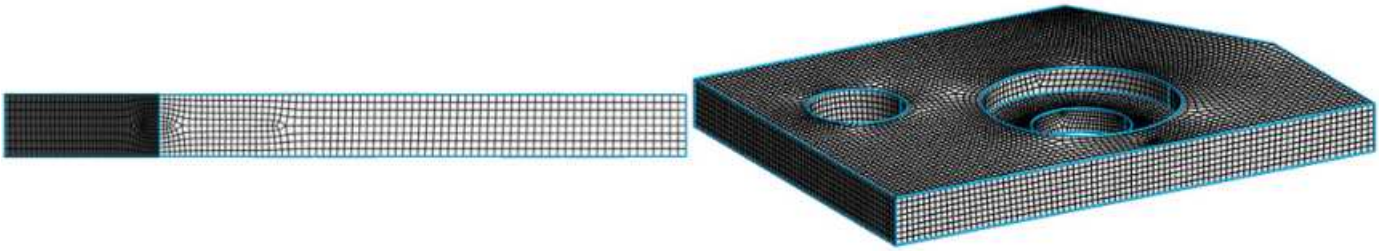


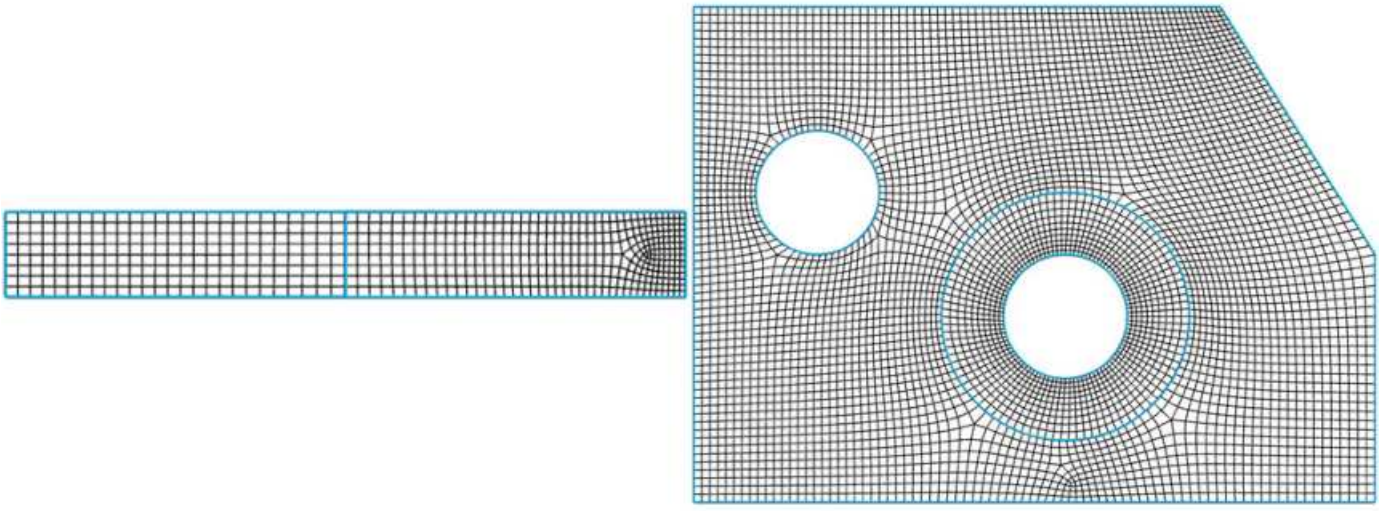
Model: 00006527 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 16 singularities detected
Timings: 11.8828 sec to generate the unstructured mesh, 2.88475 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13882	14983	235	23
Quasi-structured	13994	15095	38	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.405743	1.53064	3.20094	0.44499	0.977292	0.994615
Quasi-structured	0.405645	1.52676	3.50907	0.55825	0.983336	0.991666



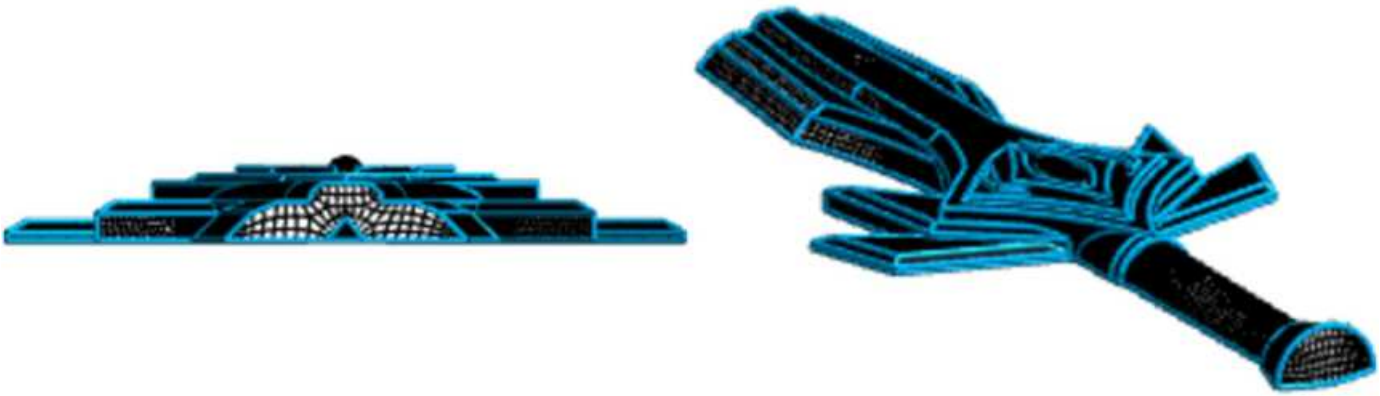


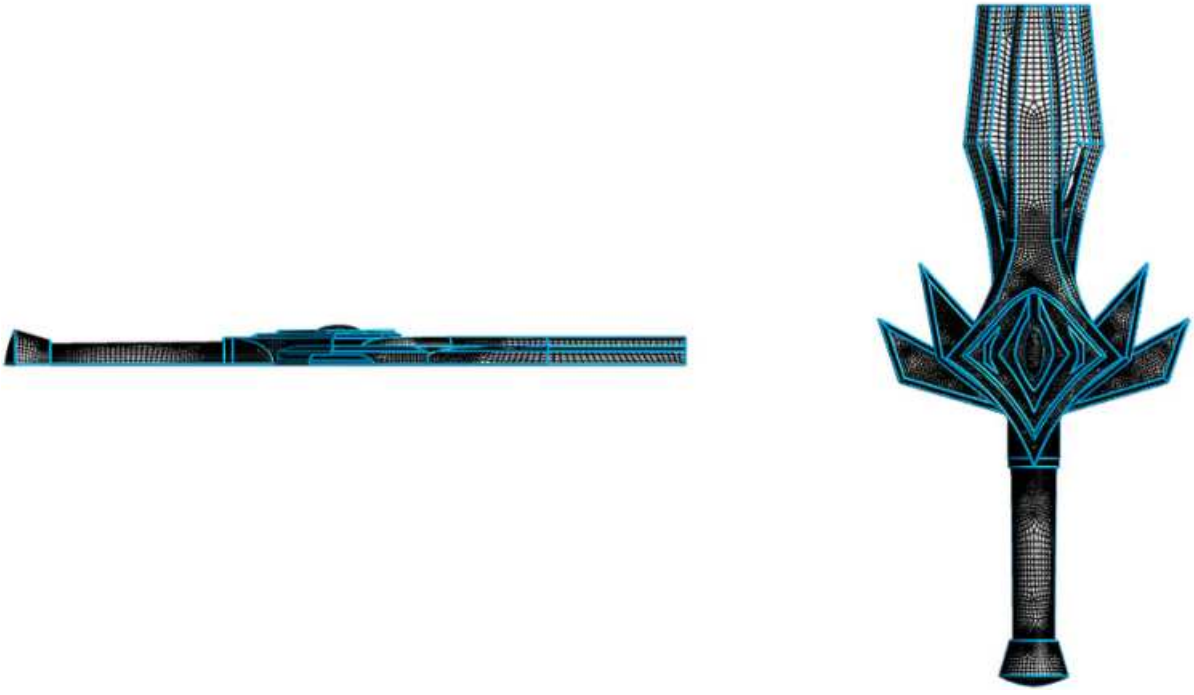
Model: 00006536 (from ABC dataset)
CAD: 175 corners, 273 curves, 102 faces
Cross field: 65 singularities detected
Timings: 10.3502 sec to generate the unstructured mesh, 71.3694 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31026	36941	2432	96
Quasi-structured	33801	39716	825	9

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0328424	1.67102	27.2237	0.000246853	0.870511	0.953319
Quasi-structured	0.0306495	1.60601	48.4344	0.00570186	0.865768	0.931208



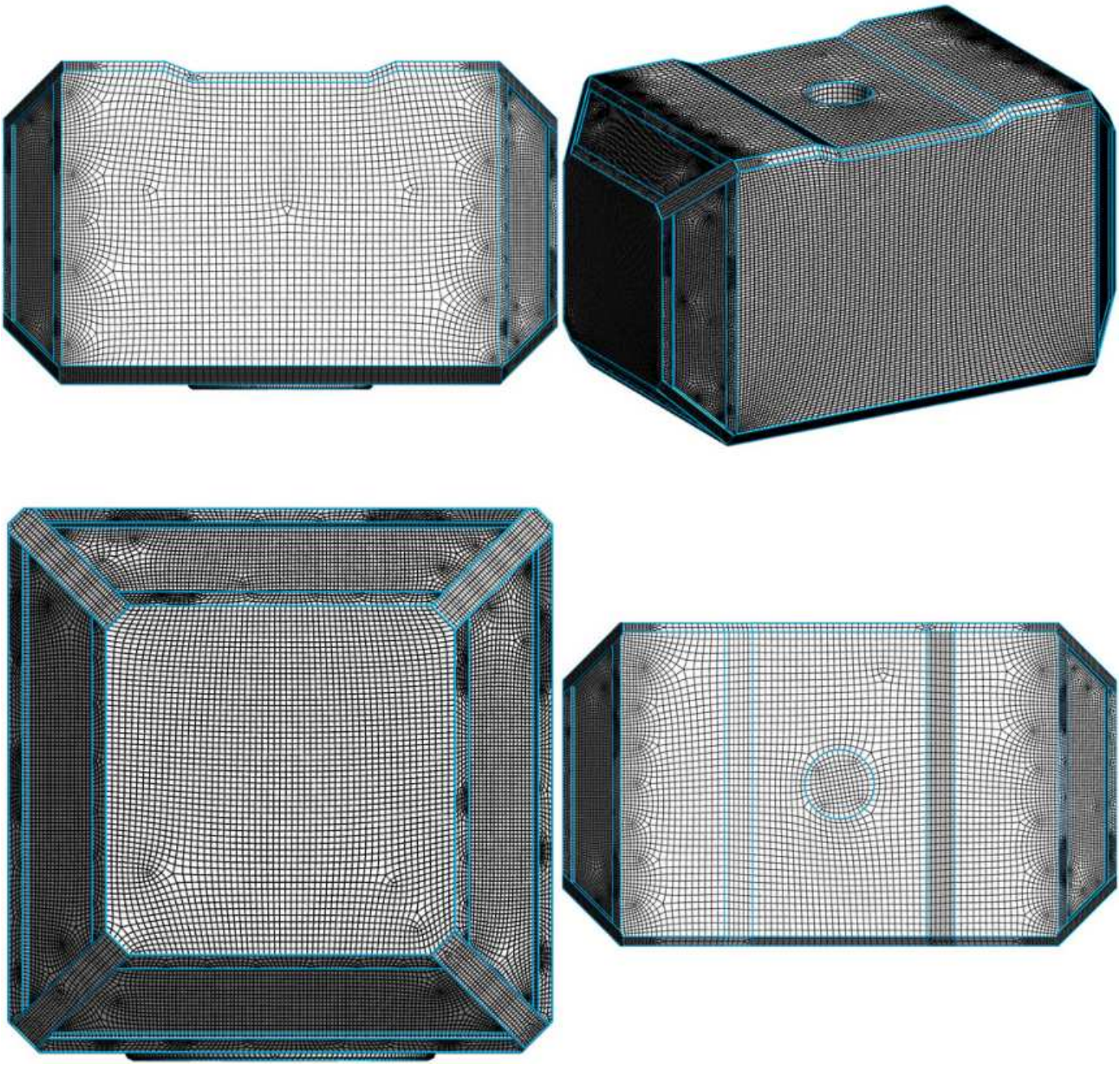


Model: 00006542 (from ABC dataset)
CAD: 133 corners, 219 curves, 90 faces
Cross field: 28 singularities detected
Timings: 14.5715 sec to generate the unstructured mesh, 88.391 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	53384	60658	2562	142
Quasi-structured	62091	69365	523	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.369346	2.04495	5.53153	0.417774	0.941328	0.98315
Quasi-structured	0.398247	1.96915	7.58061	0.327205	0.917932	0.949701

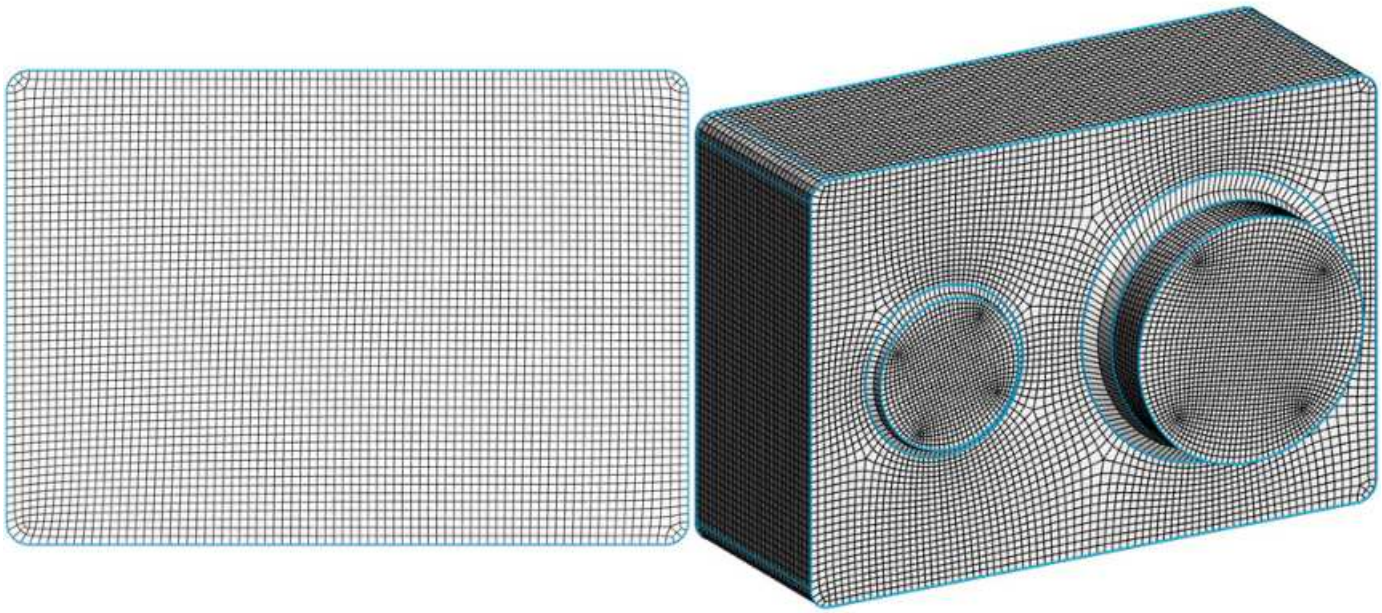


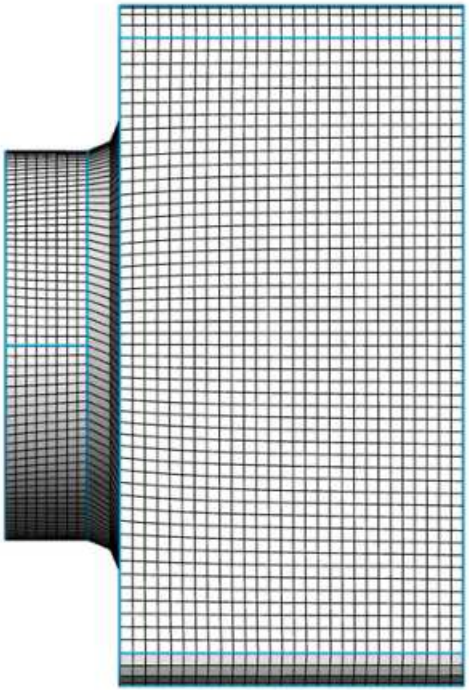
Model: 00006544 (from ABC dataset)
CAD: 23 corners, 34 curves, 15 faces
Cross field: 24 singularities detected
Timings: 13.8695 sec to generate the unstructured mesh, 2.77678 sec to make it quasi-structured
Mesh topology:

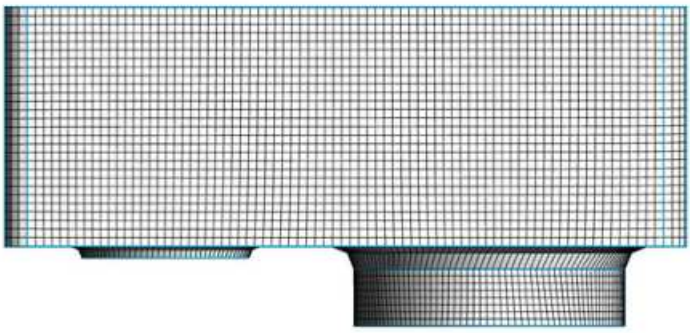
	# quads	# vertices	# irregular	# very irregular
Unstructured	19312	20652	177	27
Quasi-structured	19504	20844	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.163051	0.707574	1.68448	0.32825	0.980621	0.999105
Quasi-structured	0.192116	0.703246	1.79339	0.535432	0.988772	0.999006





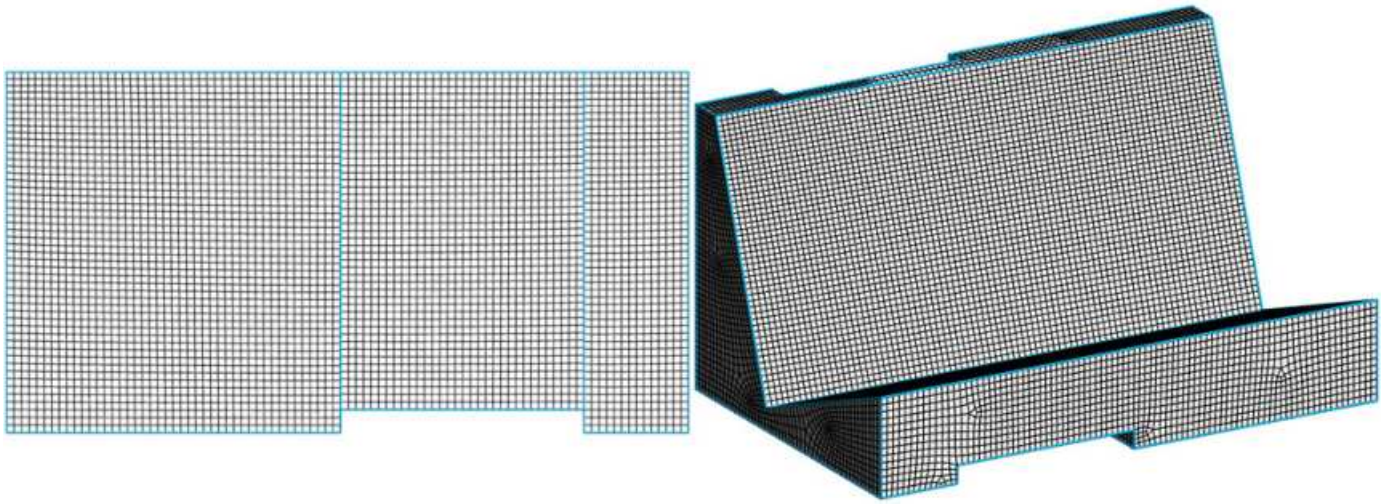


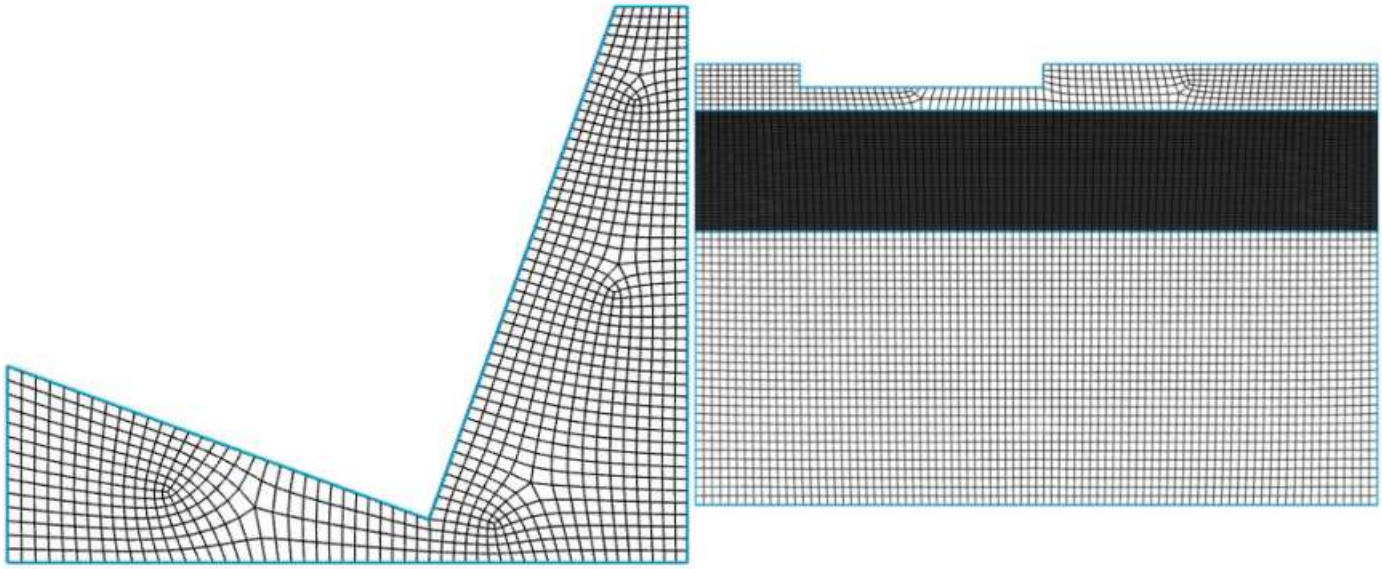
Model: 00006547 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 9.55185 sec to generate the unstructured mesh, 1.58748 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20600	21970	104	0
Quasi-structured	20654	22024	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.233769	0.669555	1.32927	0.583637	0.985765	0.995479
Quasi-structured	0.275629	0.668199	1.77566	0.692194	0.988748	0.99454





Model: 00006554 (from ABC dataset)
CAD: 21 corners, 33 curves, 20 faces
Cross field: 8 singularities detected
Timings: 6.82069 sec to generate the unstructured mesh, 68.5049 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40340	44538	1938	347
Quasi-structured	41483	45681	486	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0341097	0.156275	0.661356	0.331209	0.931568	0.979371
Quasi-structured	0.0315053	0.156903	0.773083	0.582878	0.958402	0.970186

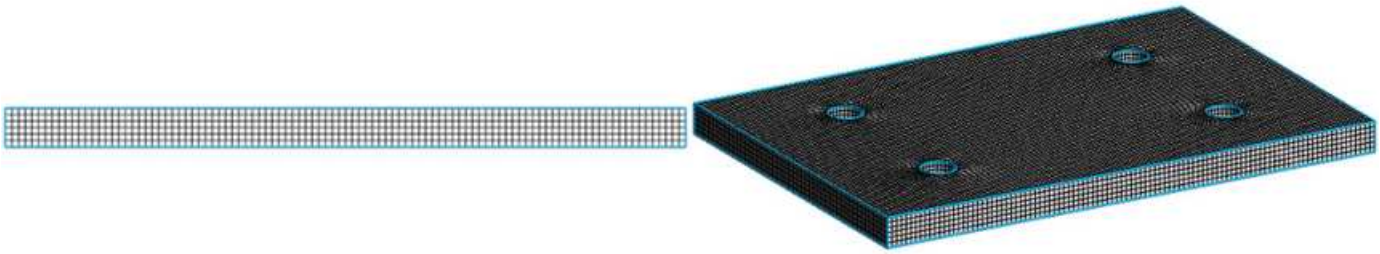


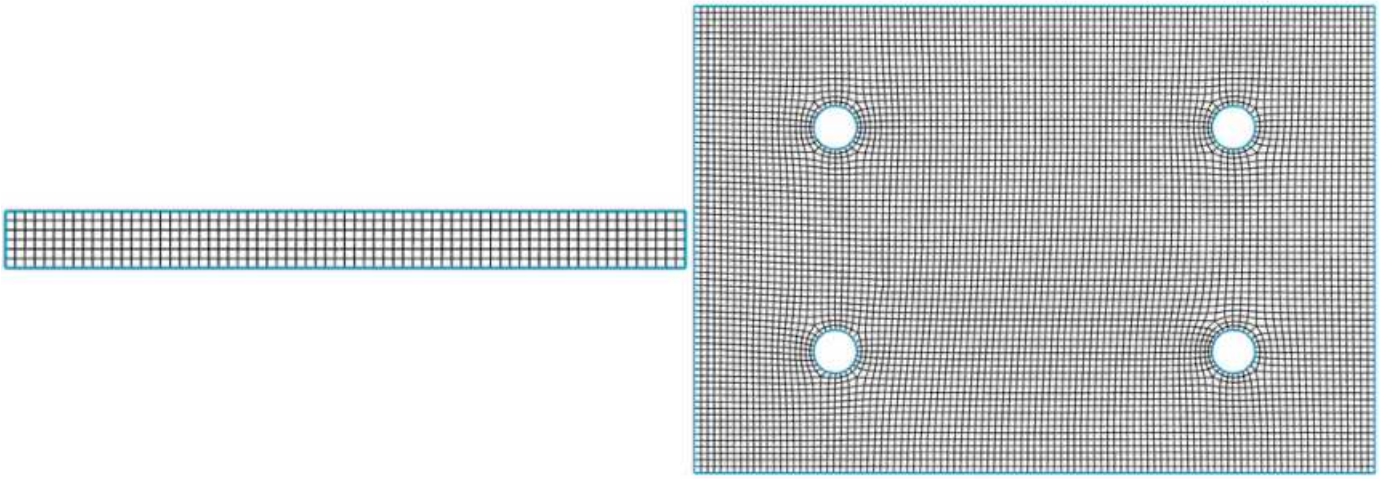
Model: 00006577 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 32 singularities detected
Timings: 12.9803 sec to generate the unstructured mesh, 1.90121 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17174	18112	122	29
Quasi-structured	17244	18182	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.773359	2.13675	3.51582	0.56435	0.984734	0.999622
Quasi-structured	1.11203	2.12654	3.68111	0.734628	0.995617	0.999466



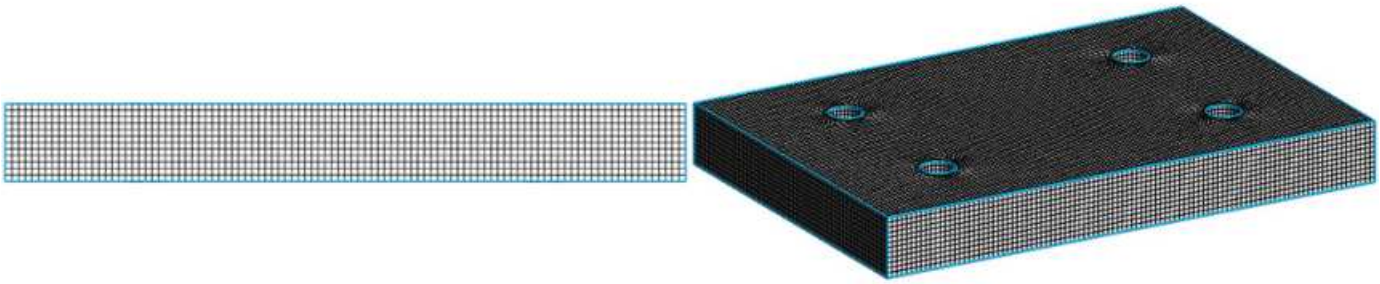


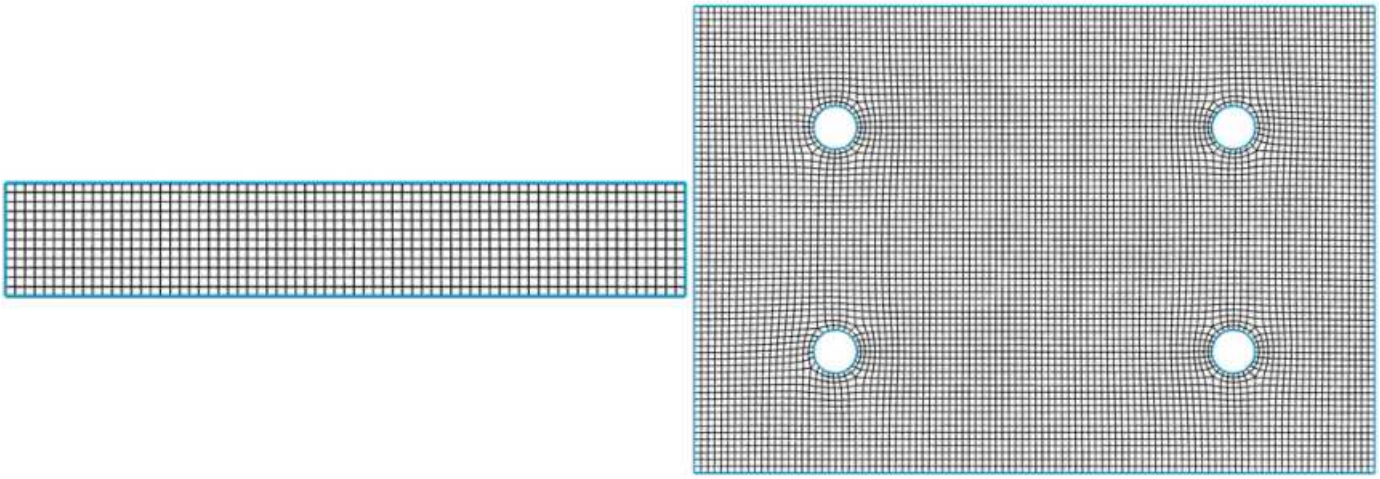
Model: 00006578 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 32 singularities detected
Timings: 11.8652 sec to generate the unstructured mesh, 1.49628 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19840	20790	130	64
Quasi-structured	19856	20806	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.650963	2.13055	3.27923	0.555493	0.984225	0.999605
Quasi-structured	1.14528	2.12401	3.64362	0.727364	0.995524	0.999527



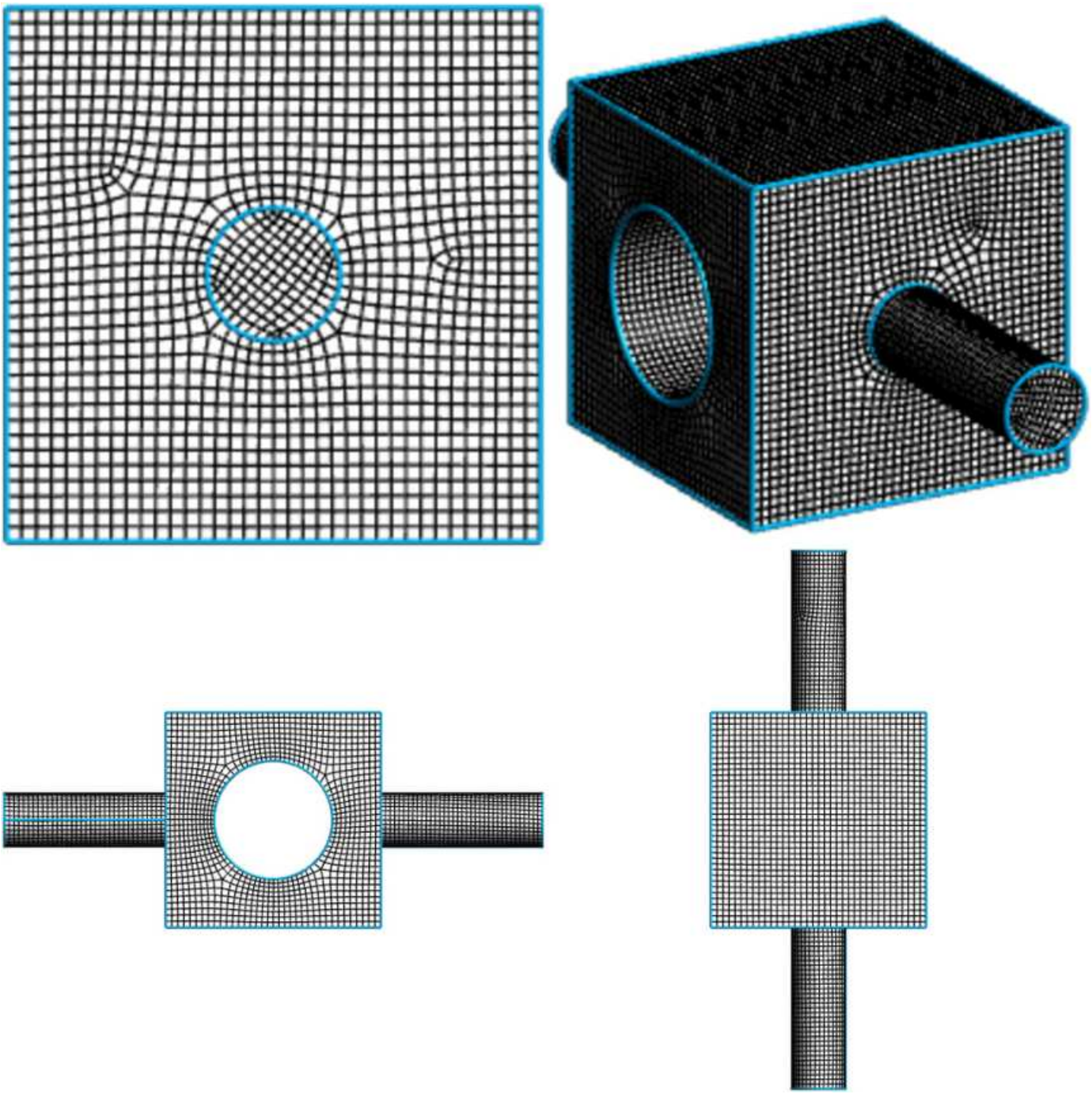


Model: 00006589 (from ABC dataset)
CAD: 16 corners, 23 curves, 11 faces
Cross field: 24 singularities detected
Timings: 9.54152 sec to generate the unstructured mesh, 1.54225 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13190	13926	147	115
Quasi-structured	13236	13972	38	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.189499	0.63999	1.16294	0.15594	0.982877	0.997982
Quasi-structured	0.211876	0.637373	1.26317	0.660984	0.995224	0.99919

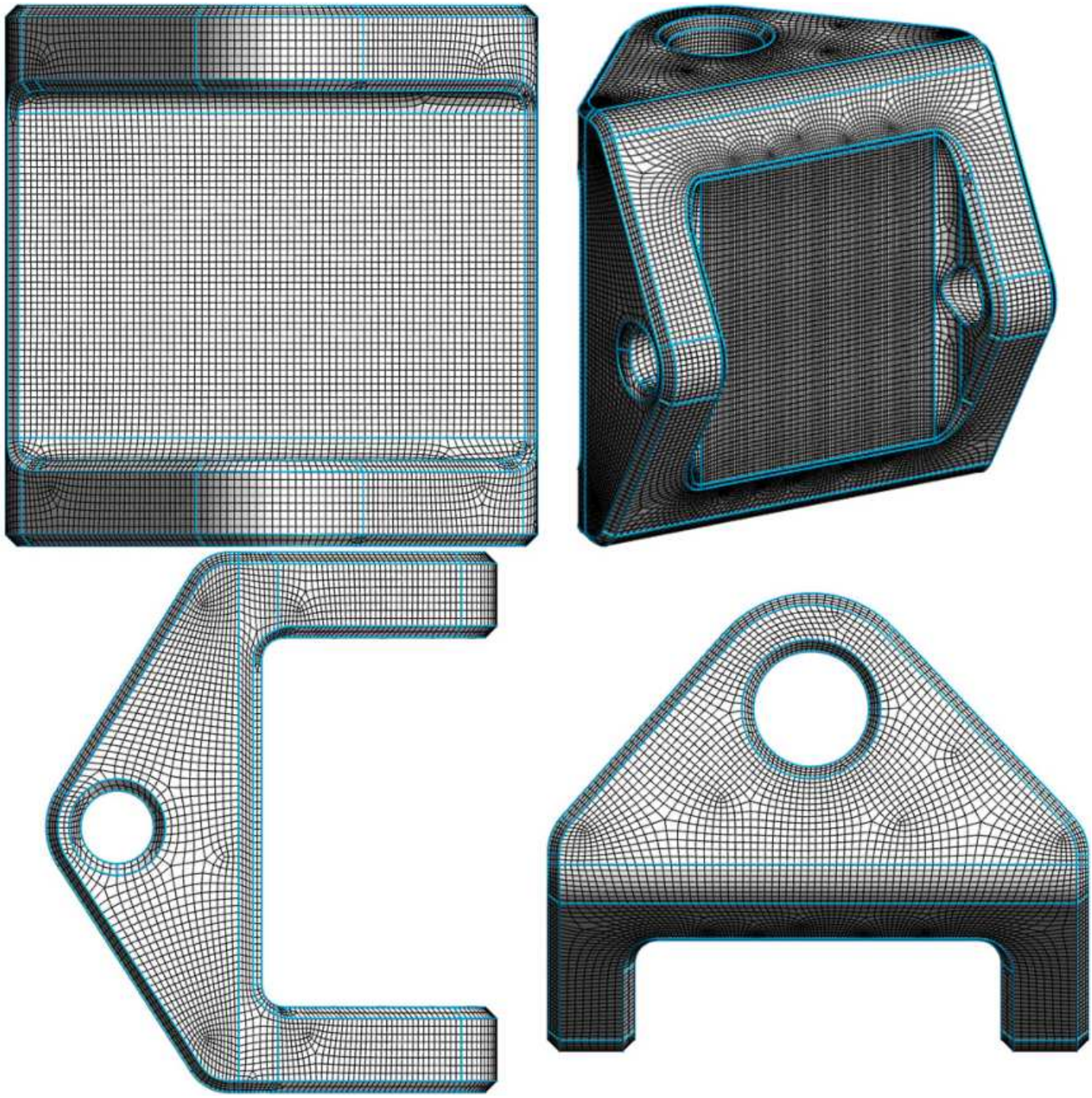


Model: 00006591 (from ABC dataset)
CAD: 124 corners, 212 curves, 88 faces
Cross field: 52 singularities detected
Timings: 14.7529 sec to generate the unstructured mesh, 7.91221 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30064	34094	851	83
Quasi-structured	31249	35279	269	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0485062	0.687608	2.3546	0.0516393	0.91771	0.978868
Quasi-structured	0.0775391	0.675478	2.90477	0.135611	0.91987	0.966954

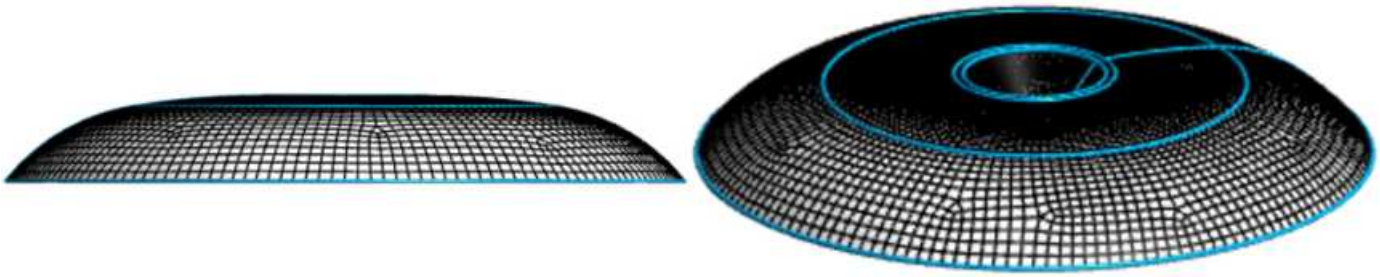


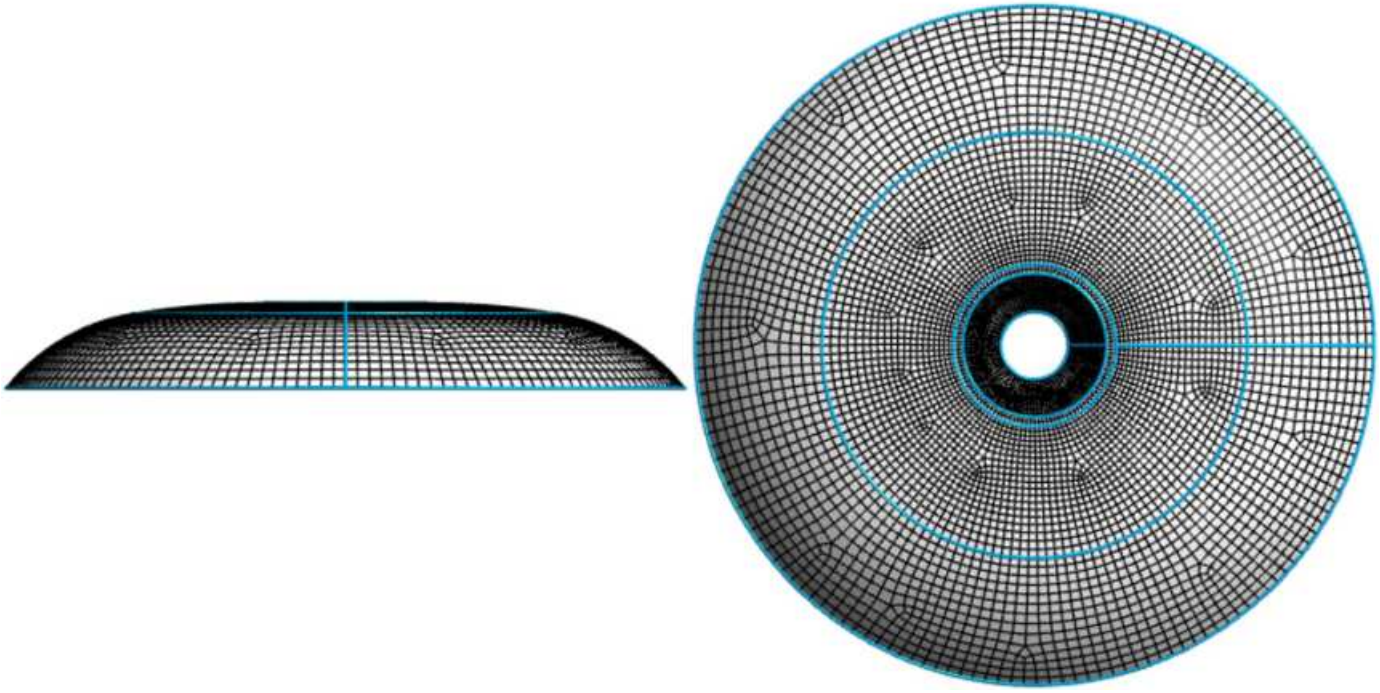
Model: 00006620 (from ABC dataset)
CAD: 177 corners, 266 curves, 108 faces
Cross field: 40 singularities detected
Timings: 8.8776 sec to generate the unstructured mesh, 3.00829 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14802	17287	414	82
Quasi-structured	14904	17389	208	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.139424	0.738032	1.85865	0.344266	0.956701	0.986594
Quasi-structured	0.106894	0.732426	2.12744	0.381441	0.976646	0.992968



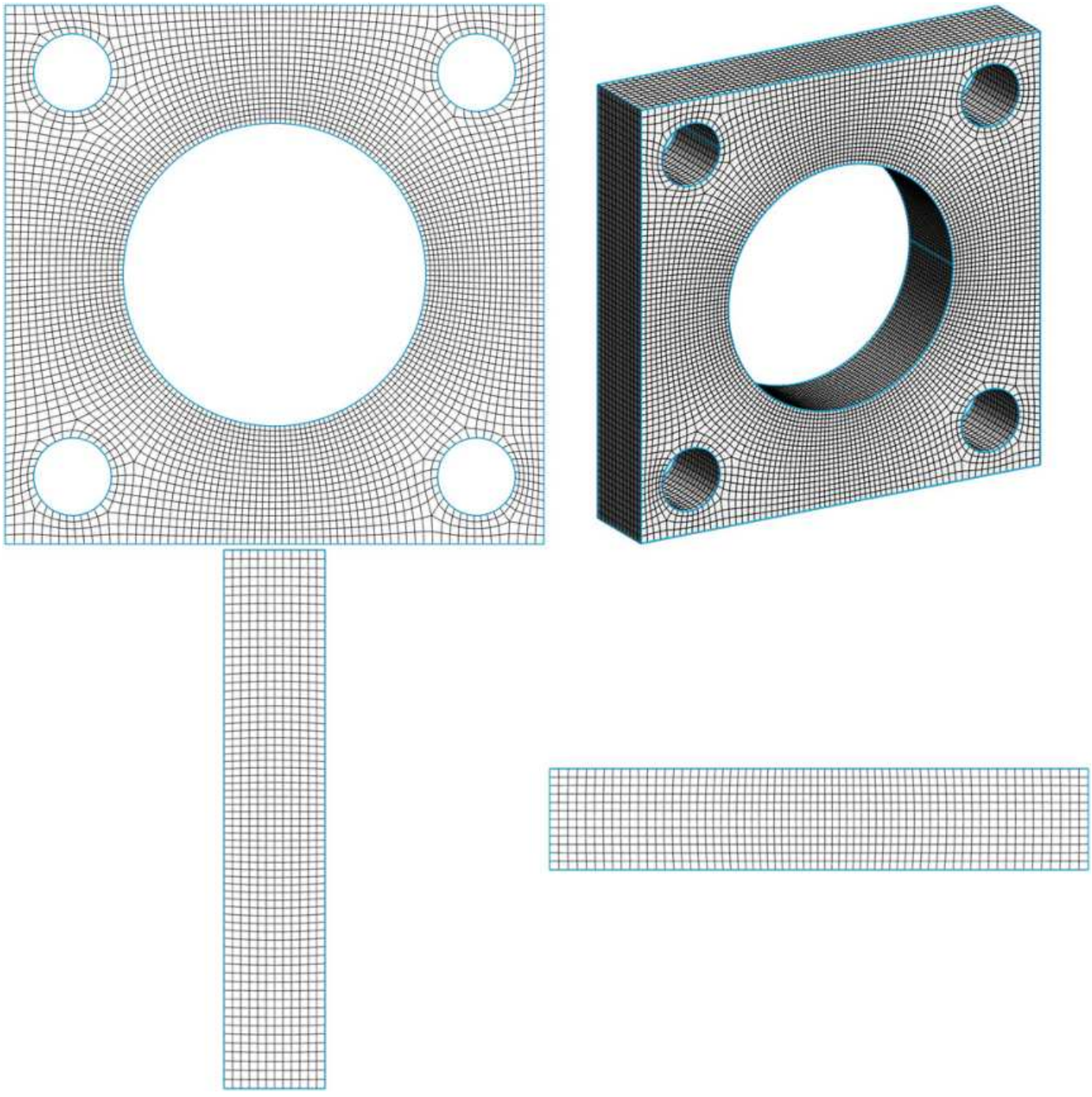


Model: 00006625 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 40 singularities detected
Timings: 13.3657 sec to generate the unstructured mesh, 1.86053 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16932	18148	192	85
Quasi-structured	16911	18127	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0750947	0.202096	0.428476	0.527614	0.982464	0.997856
Quasi-structured	0.122533	0.201949	0.483456	0.712492	0.992348	0.998215

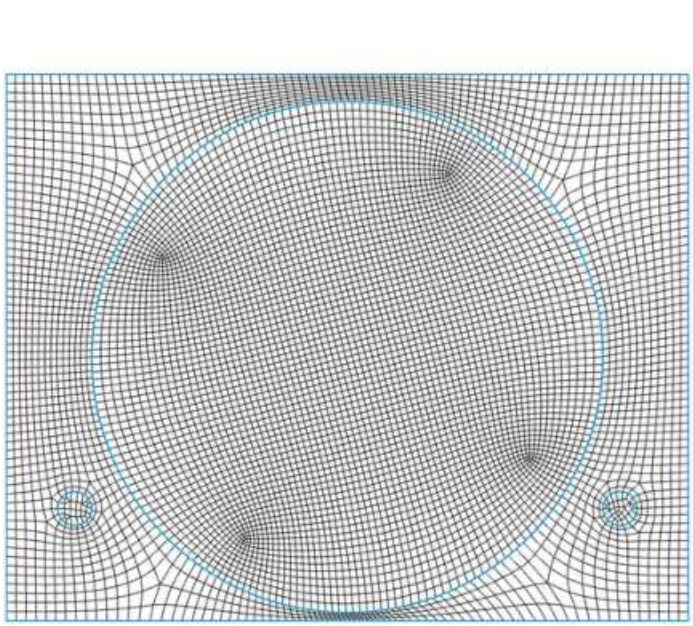


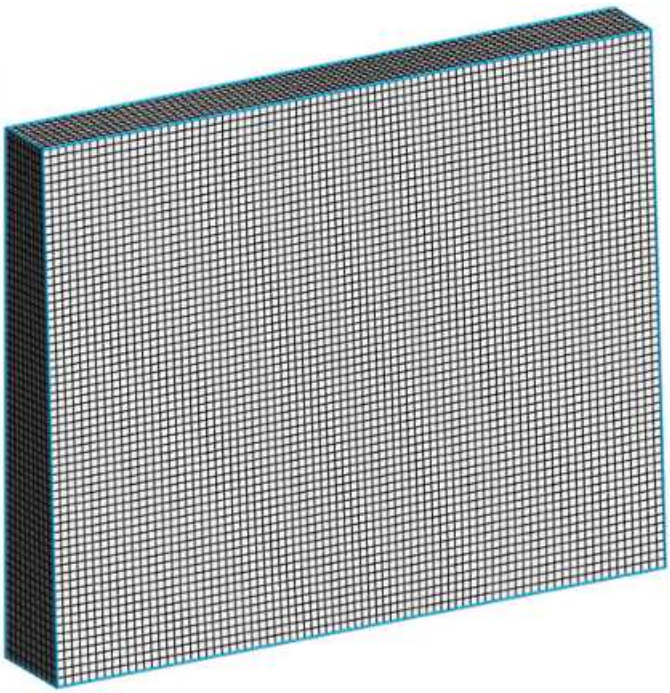
Model: 00006631 (from ABC dataset)
CAD: 14 corners, 21 curves, 12 faces
Cross field: 24 singularities detected
Timings: 15.0927 sec to generate the unstructured mesh, 2.32074 sec to make it quasi-structured
Mesh topology:

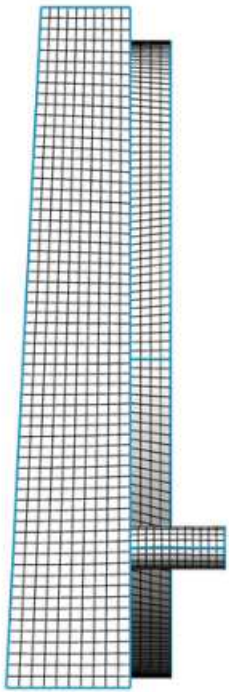
	# quads	# vertices	# irregular	# very irregular
Unstructured	16746	17864	167	34
Quasi-structured	16686	17804	40	0

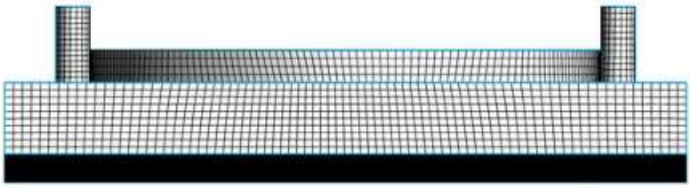
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.256882	0.910382	1.86157	0.334419	0.980803	0.995842
Quasi-structured	0.260409	0.91007	3.34019	0.560027	0.981041	0.996665







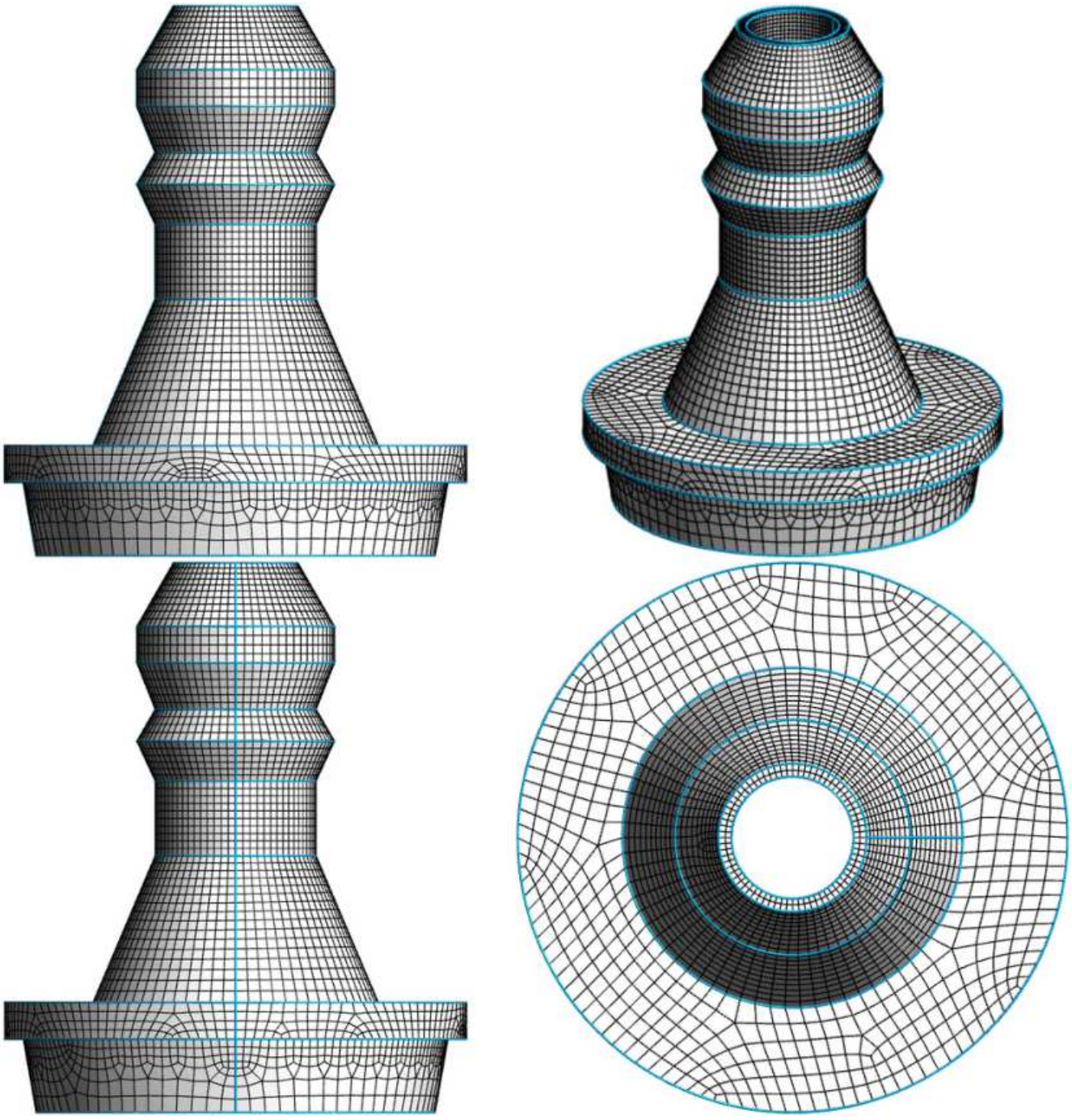


Model: 00006649 (from ABC dataset)
CAD: 14 corners, 24 curves, 14 faces
Cross field: 0 singularities detected
Timings: 10.8088 sec to generate the unstructured mesh, 19.3862 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16388	17624	212	192
Quasi-structured	16469	17705	124	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0705546	0.231139	0.635001	0.504789	0.981145	0.998088
Quasi-structured	0.0942127	0.230281	0.788851	0.583002	0.988926	0.999069

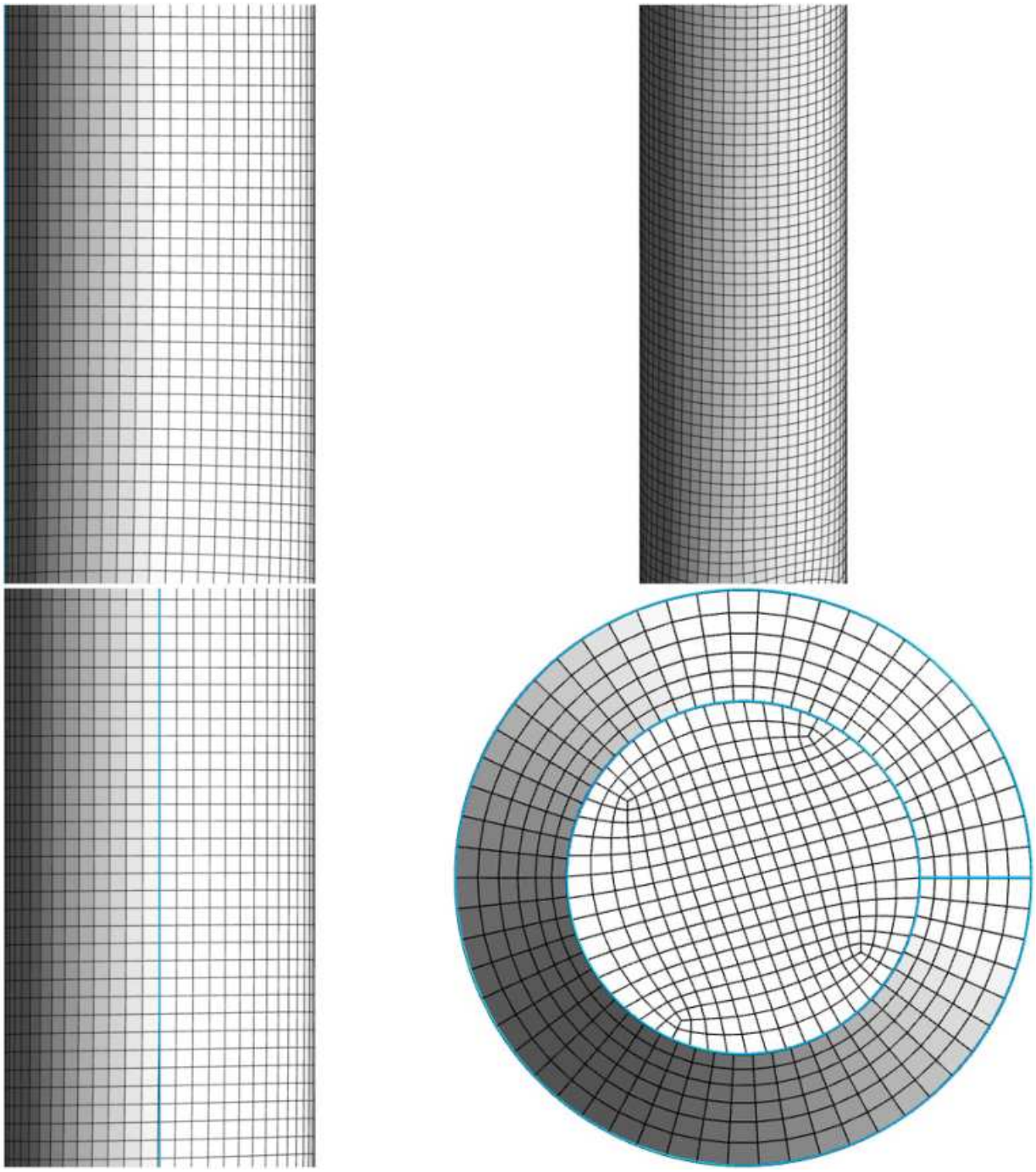


Model: 00006662 (from ABC dataset)
CAD: 8 corners, 13 curves, 7 faces
Cross field: 16 singularities detected
Timings: 10.9268 sec to generate the unstructured mesh, 1.14121 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9522	9908	102	161
Quasi-structured	9682	10068	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0889195	0.35921	0.69251	0.531202	0.981673	0.9987
Quasi-structured	0.121313	0.355044	0.684265	0.829618	0.993685	0.999235

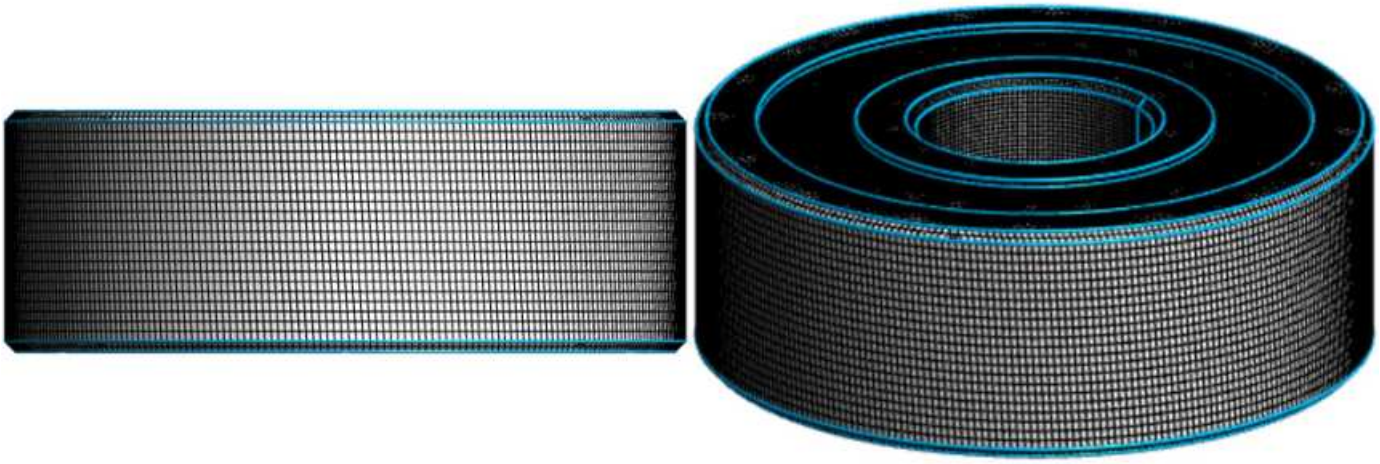


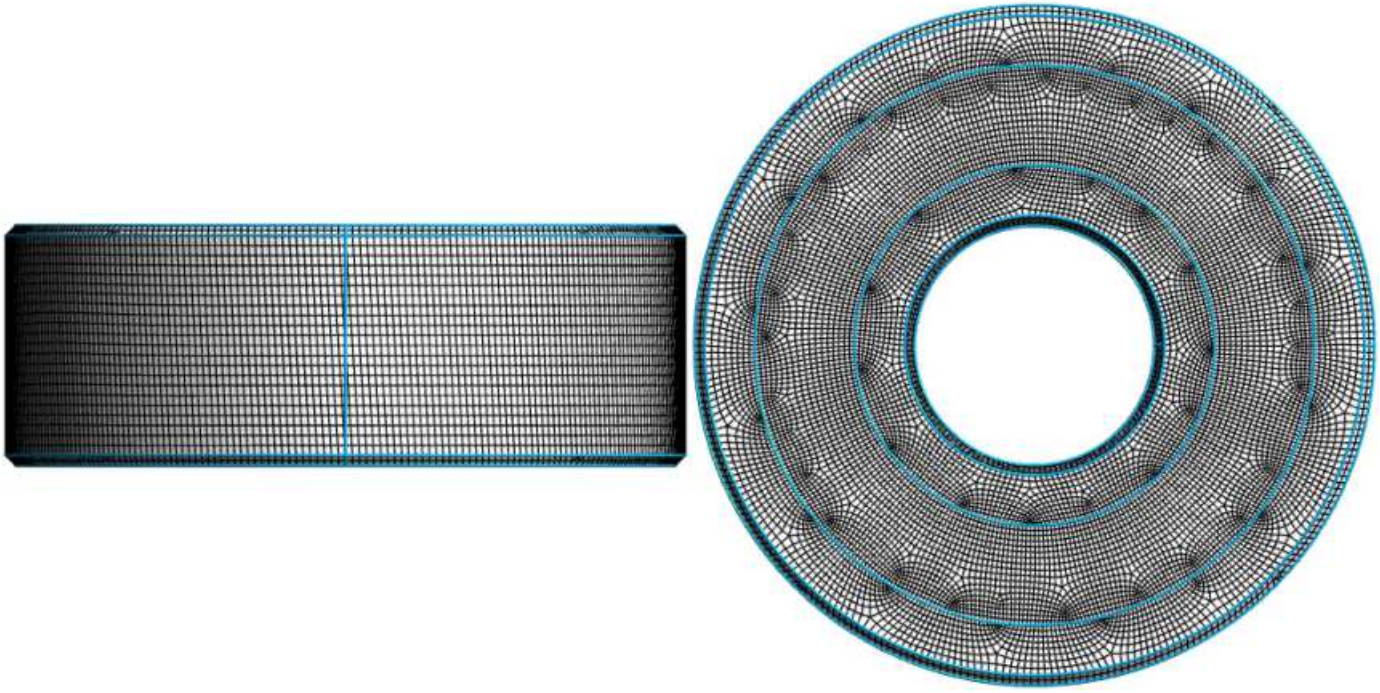
Model: 00006670 (from ABC dataset)
CAD: 16 corners, 26 curves, 16 faces
Cross field: 0 singularities detected
Timings: 14.5322 sec to generate the unstructured mesh, 70.7582 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	39354	44034	1290	165
Quasi-structured	40820	45500	278	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0479377	0.139504	0.482819	0.507686	0.95269	0.991112
Quasi-structured	0.0411006	0.139428	0.32748	0.622986	0.966306	0.971537



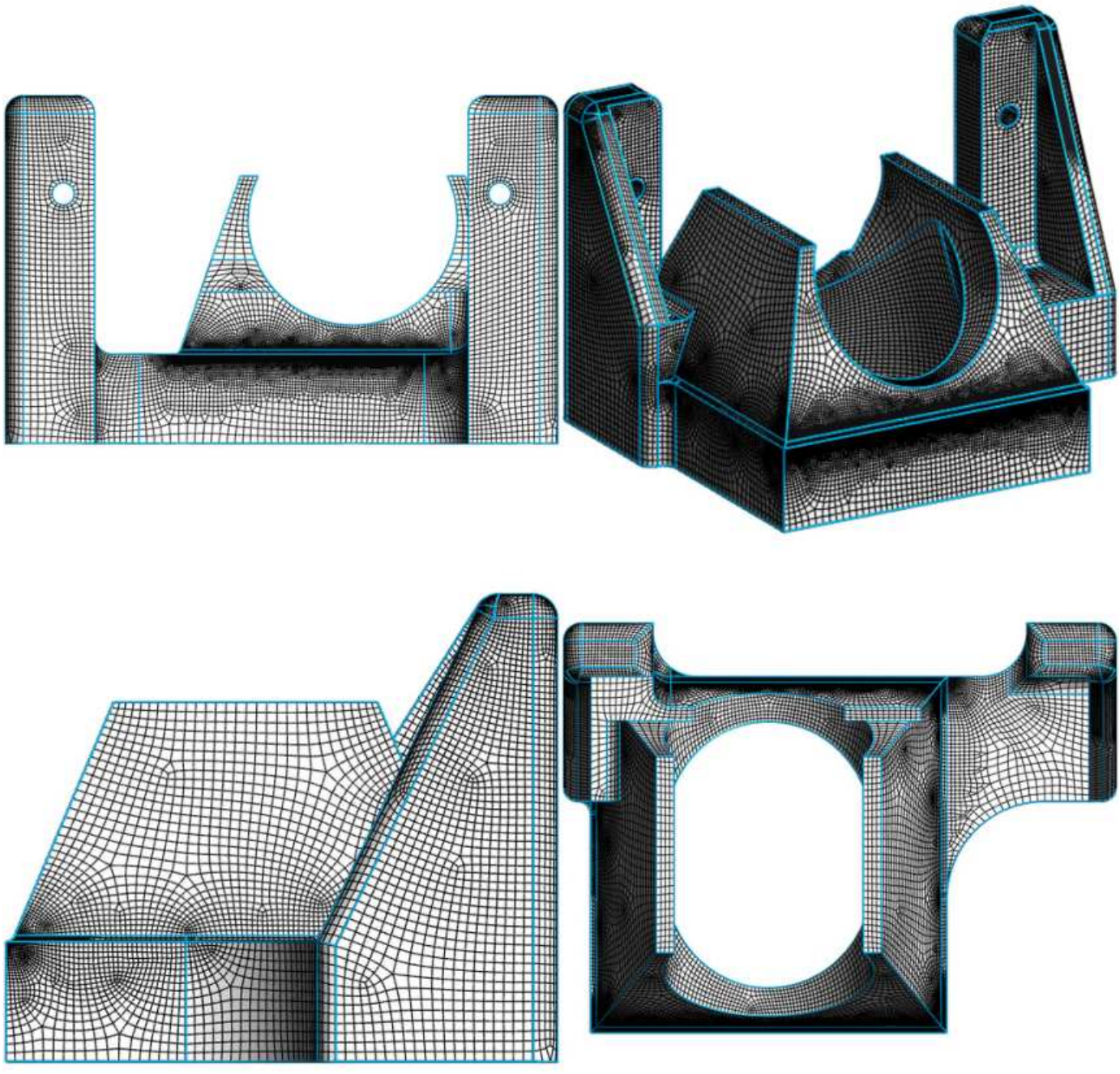


Model: 00006672 (from ABC dataset)
CAD: 134 corners, 219 curves, 86 faces
Cross field: 93 singularities detected
Timings: 26.533 sec to generate the unstructured mesh, 689.574 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	78872	87163	6463	278
Quasi-structured	80816	89107	4212	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00119549	0.266708	1.79037	0.000728069	0.865587	0.964097
Quasi-structured	0.000608571	0.264089	2.06903	0.035434	0.908261	0.985552

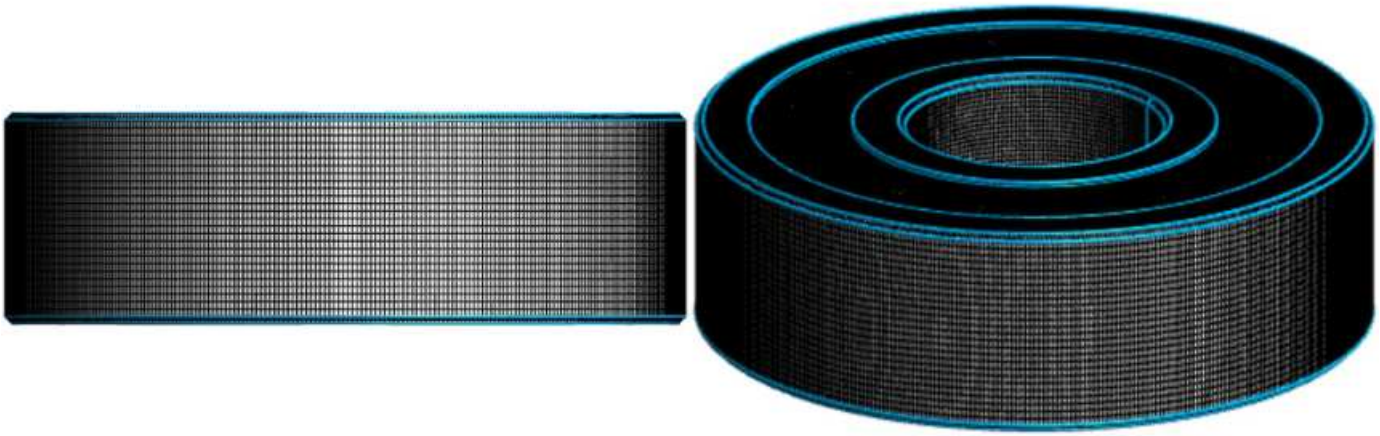


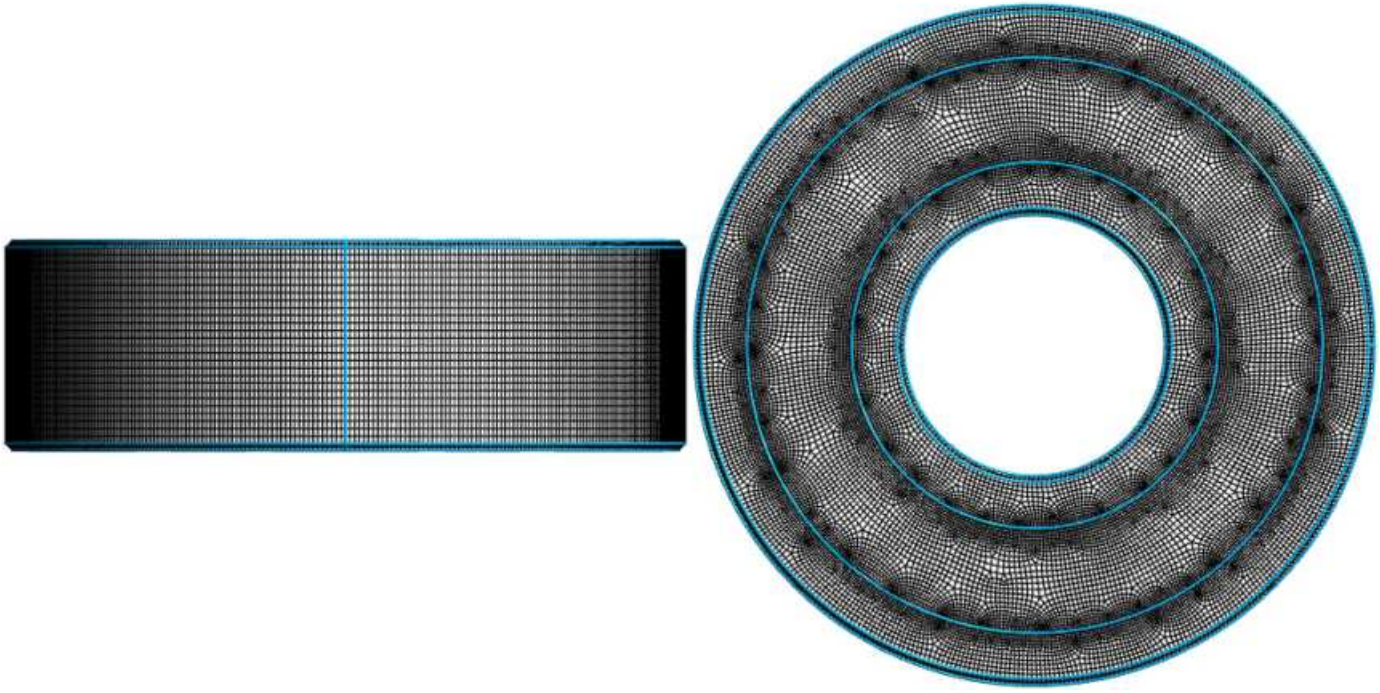
Model: 00006673 (from ABC dataset)
CAD: 16 corners, 26 curves, 16 faces
Cross field: 0 singularities detected
Timings: 16.3245 sec to generate the unstructured mesh, 424.069 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	67176	74266	2356	331
Quasi-structured	70880	77970	884	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0417779	0.155241	0.520195	0.516017	0.952994	0.989452
Quasi-structured	0.0438829	0.154558	0.386181	0.633752	0.966779	0.988055



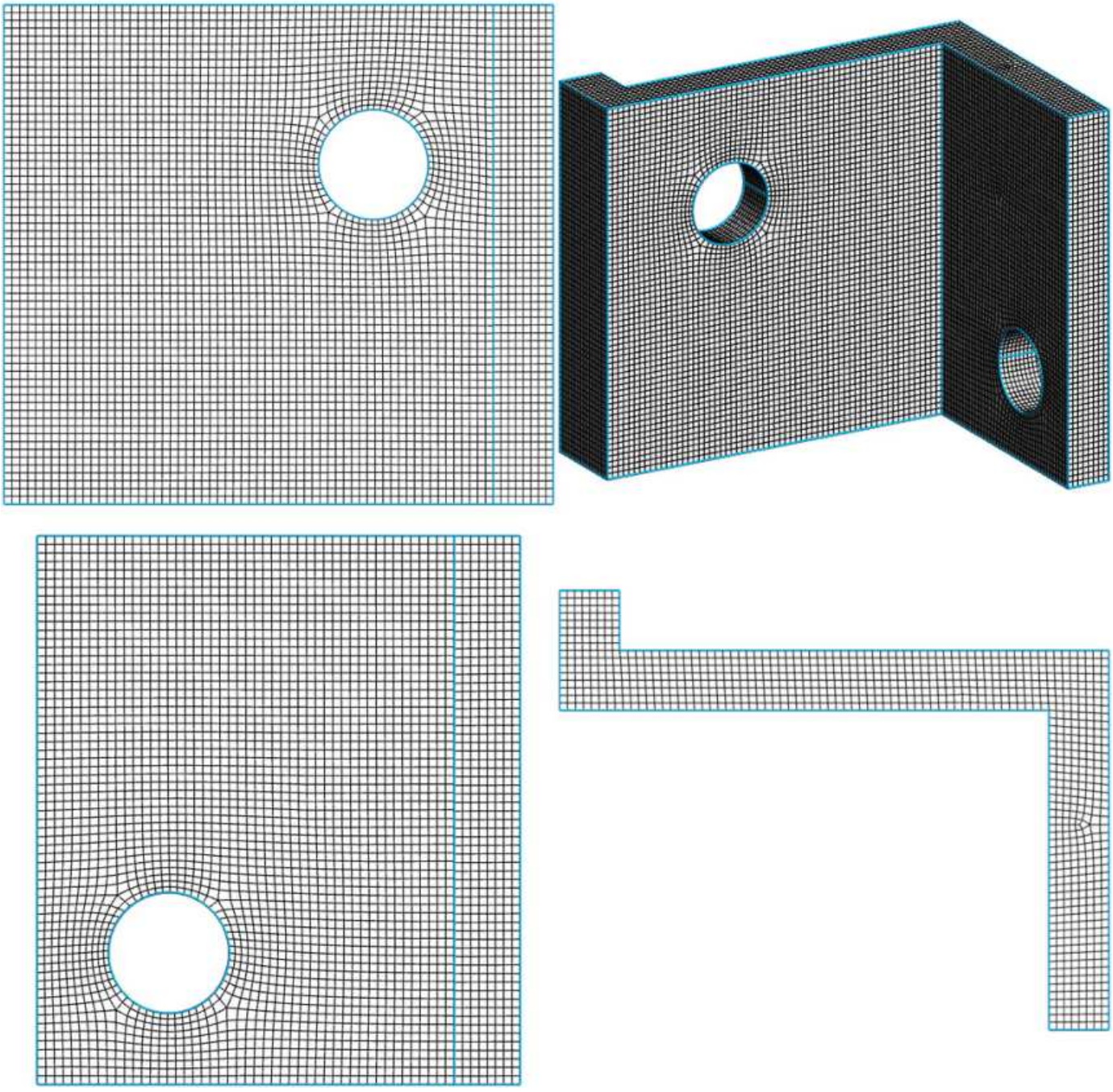


Model: 00006674 (from ABC dataset)
CAD: 21 corners, 31 curves, 12 faces
Cross field: 16 singularities detected
Timings: 10.7144 sec to generate the unstructured mesh, 1.32925 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18308	19544	148	21
Quasi-structured	18797	20033	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.110521	0.38888	0.663503	0.487518	0.985566	0.999214
Quasi-structured	0.184606	0.383067	0.696795	0.71731	0.996333	0.999266

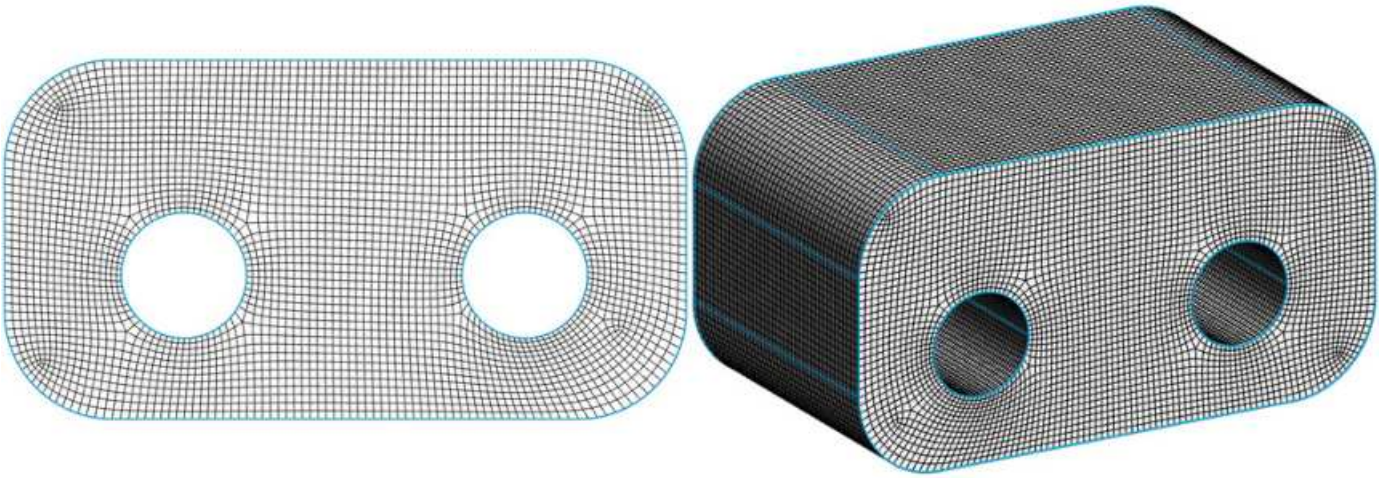


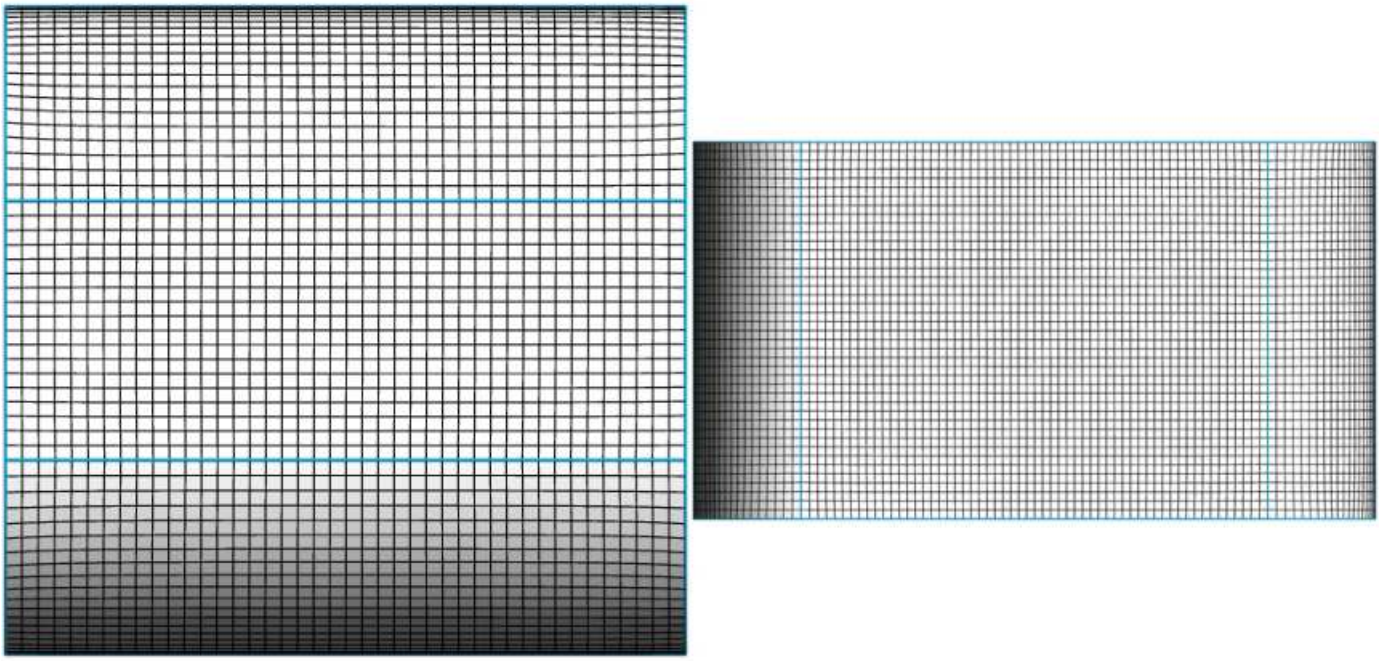
Model: 00006685 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 20 singularities detected
Timings: 12.404 sec to generate the unstructured mesh, 1.47842 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24254	25308	146	125
Quasi-structured	24578	25632	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0703019	0.21211	0.396708	0.549392	0.987721	0.994748
Quasi-structured	0.0898871	0.210543	0.380918	0.630038	0.994299	0.998234



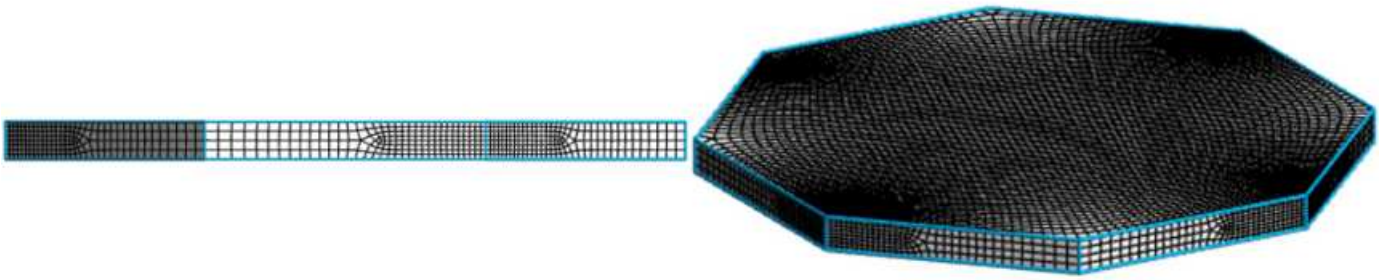


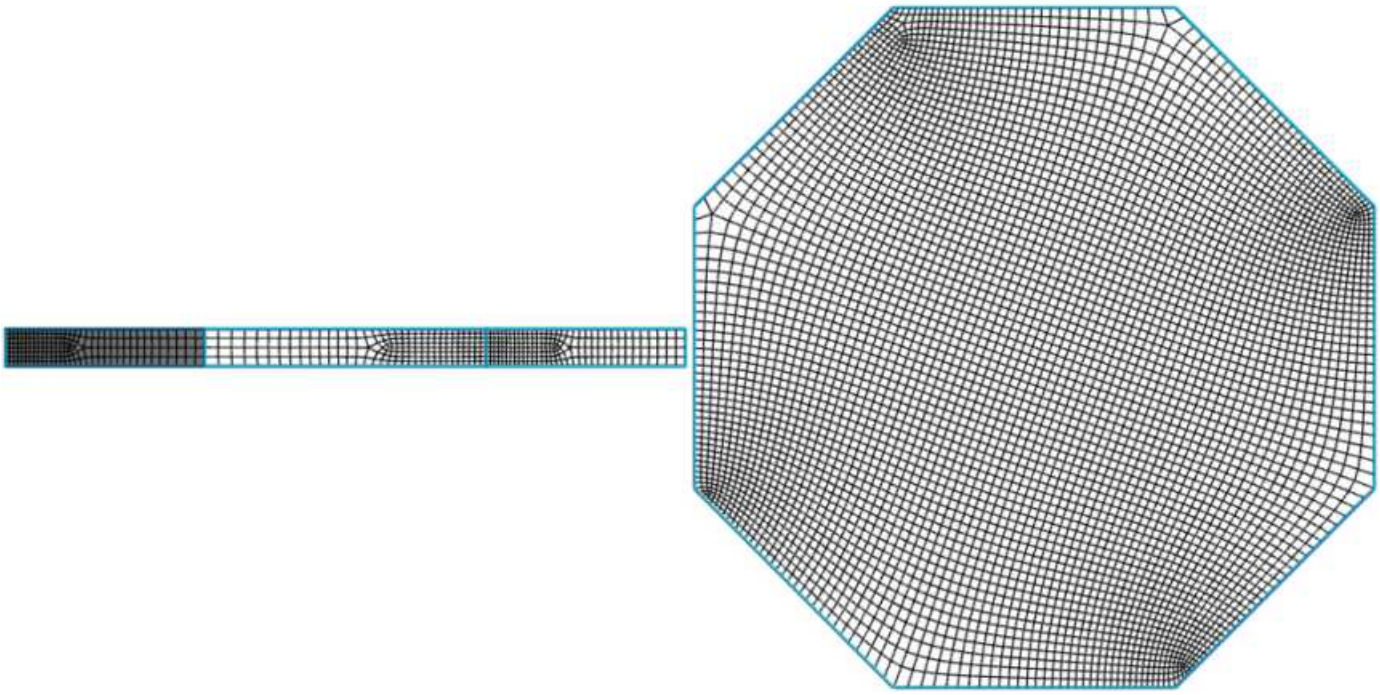
Model: 00006693 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 9 singularities detected
Timings: 7.39015 sec to generate the unstructured mesh, 1.86862 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11832	12434	124	0
Quasi-structured	11926	12528	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.330973	1.2309	2.73974	0.628656	0.984392	0.997508
Quasi-structured	0.35099	1.22027	3.57236	0.703116	0.987799	0.99636



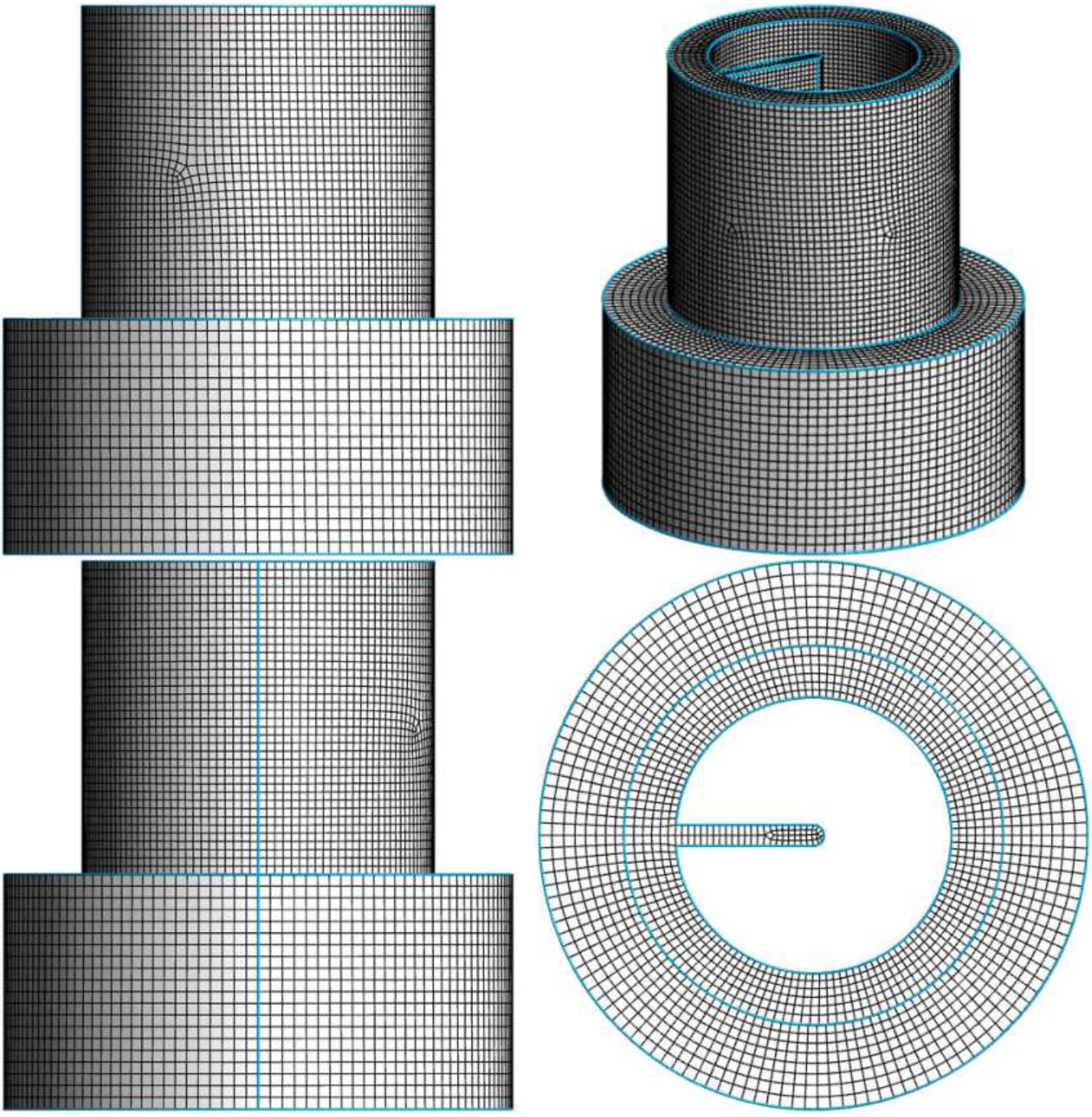


Model: 00006699 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 4 singularities detected
Timings: 18.6084 sec to generate the unstructured mesh, 2.60669 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26126	27632	40	57
Quasi-structured	26131	27637	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0590769	0.201427	0.338414	0.490727	0.991232	0.999371
Quasi-structured	0.0435354	0.201274	0.337827	0.57848	0.994846	0.999369

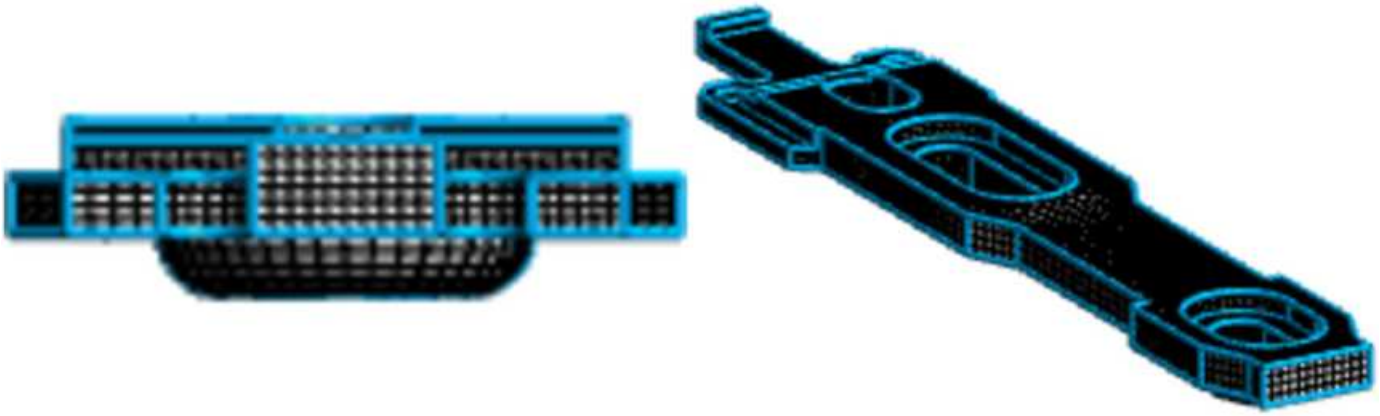


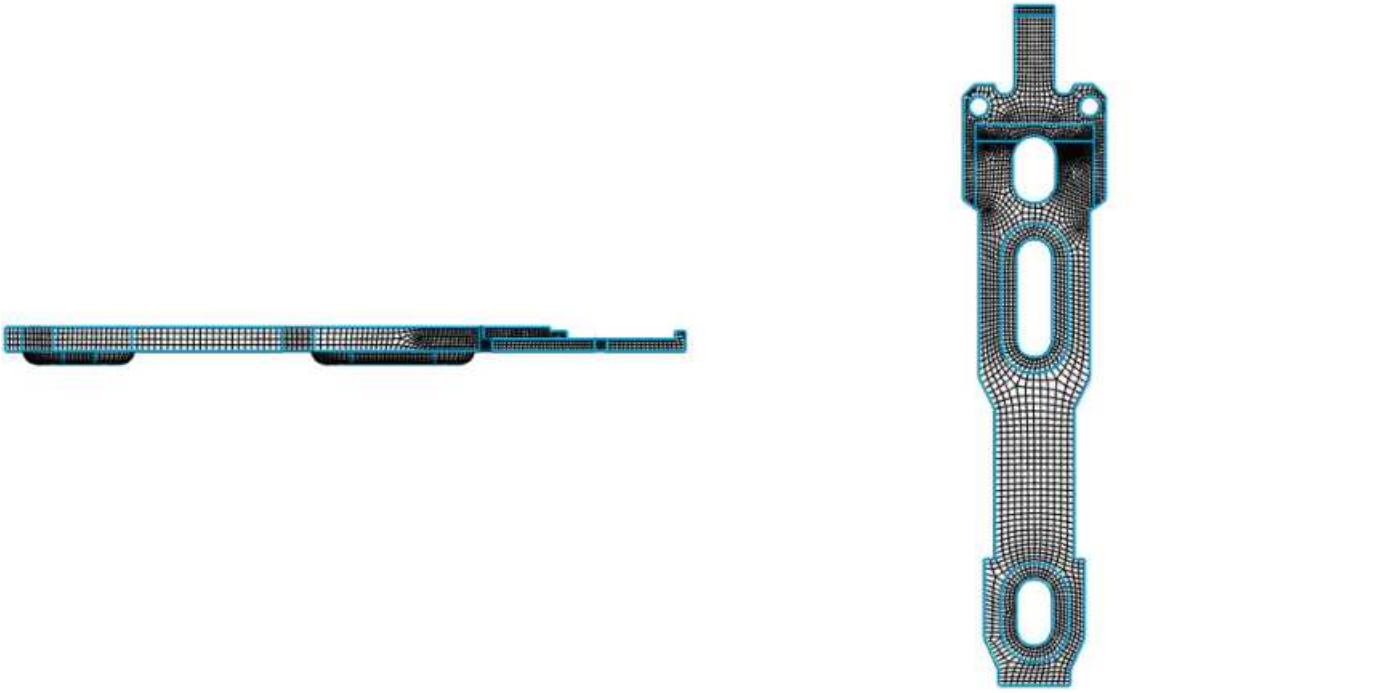
Model: 00006712 (from ABC dataset)
CAD: 137 corners, 205 curves, 73 faces
Cross field: 44 singularities detected
Timings: 4.48705 sec to generate the unstructured mesh, 4.65094 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10002	12424	428	22
Quasi-structured	10591	13013	157	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.107055	0.518162	1.25328	0.228537	0.932791	0.963077
Quasi-structured	0.101395	0.503195	1.56397	0.324934	0.93903	0.959955



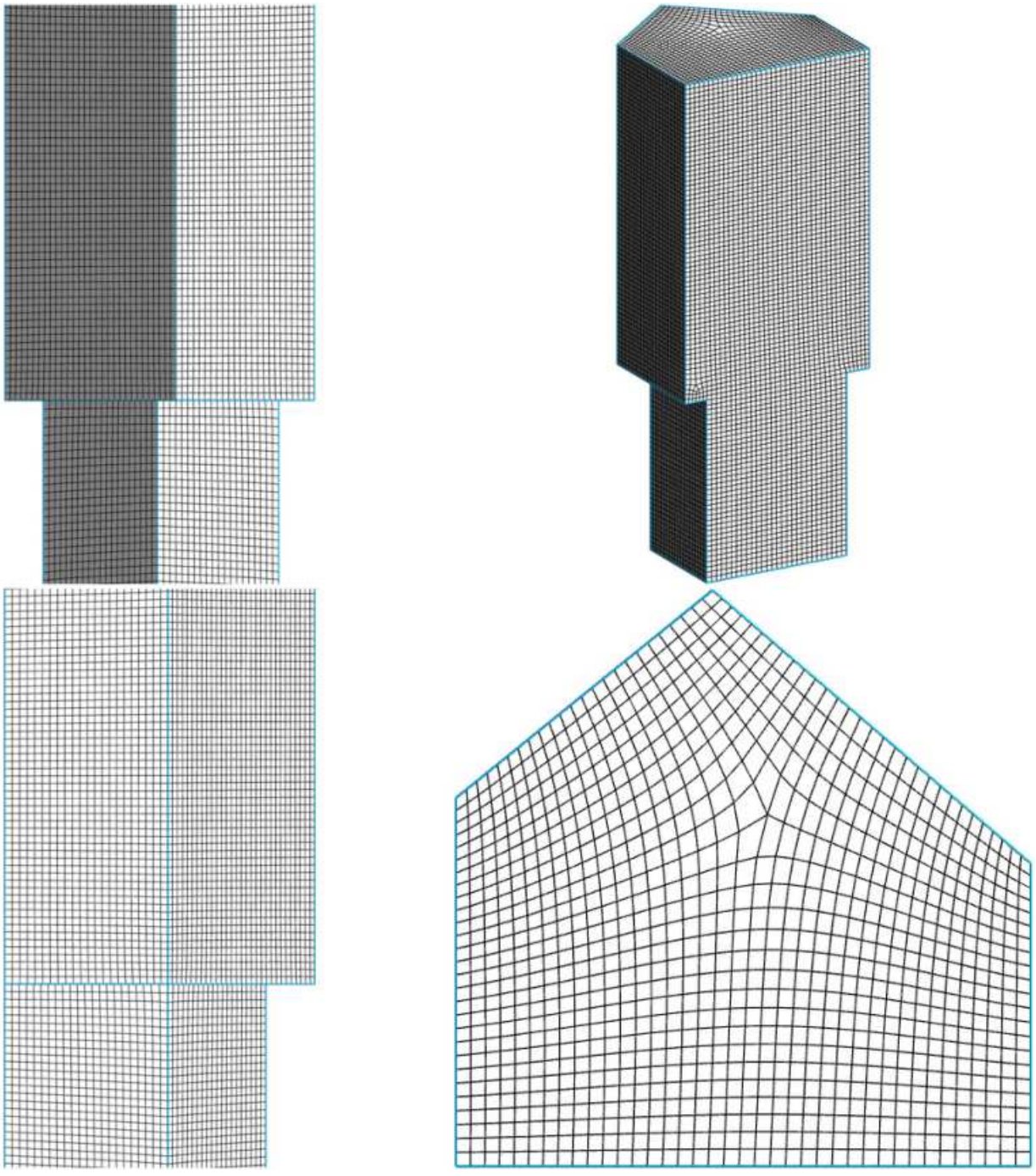


Model: 00006787 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 2 singularities detected
Timings: 10.1736 sec to generate the unstructured mesh, 1.64459 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15466	16438	76	1
Quasi-structured	15362	16334	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.557534	1.39037	2.75957	0.59513	0.9914	0.997987
Quasi-structured	0.733362	1.39487	4.22397	0.652682	0.992844	0.997947

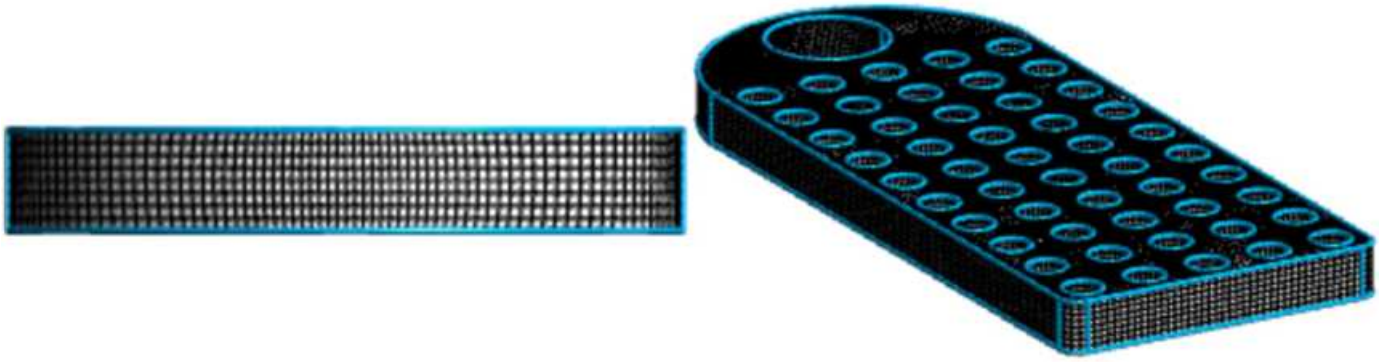


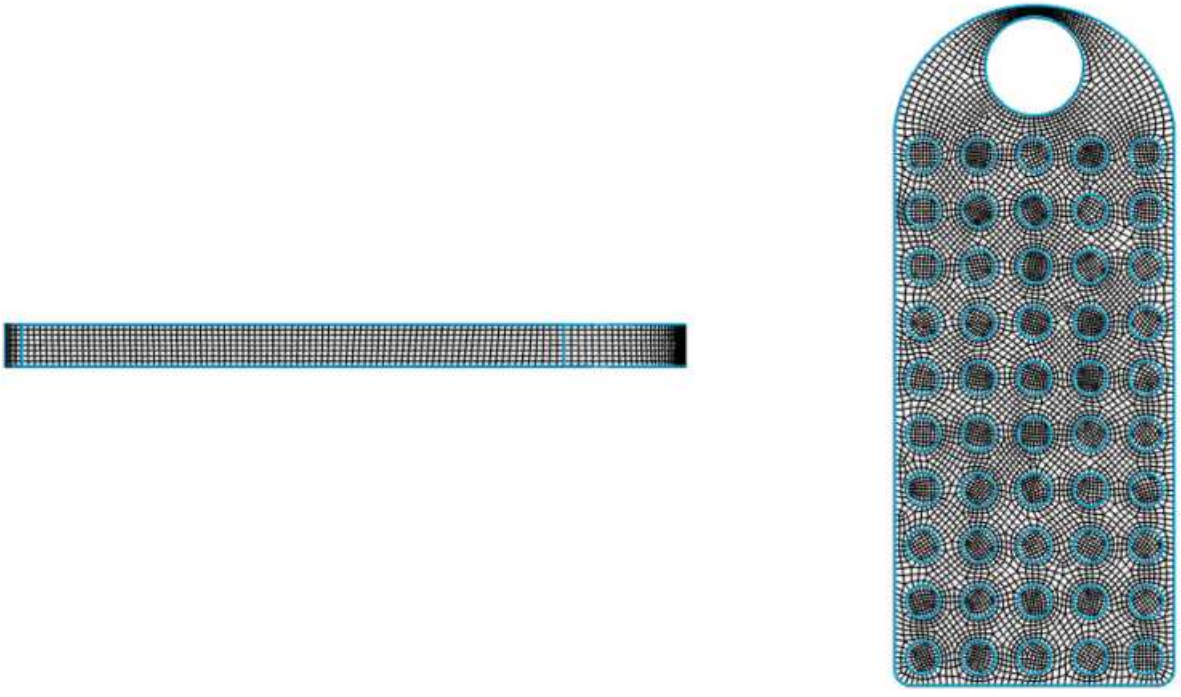
Model: 00006819 (from ABC dataset)
CAD: 114 corners, 171 curves, 109 faces
Cross field: 404 singularities detected
Timings: 19.319 sec to generate the unstructured mesh, 5.58545 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23772	27060	964	375
Quasi-structured	23887	27175	494	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.281621	1.4709	3.2859	0.208373	0.948344	0.983394
Quasi-structured	0.425108	1.4624	4.43162	0.546396	0.968356	0.989783



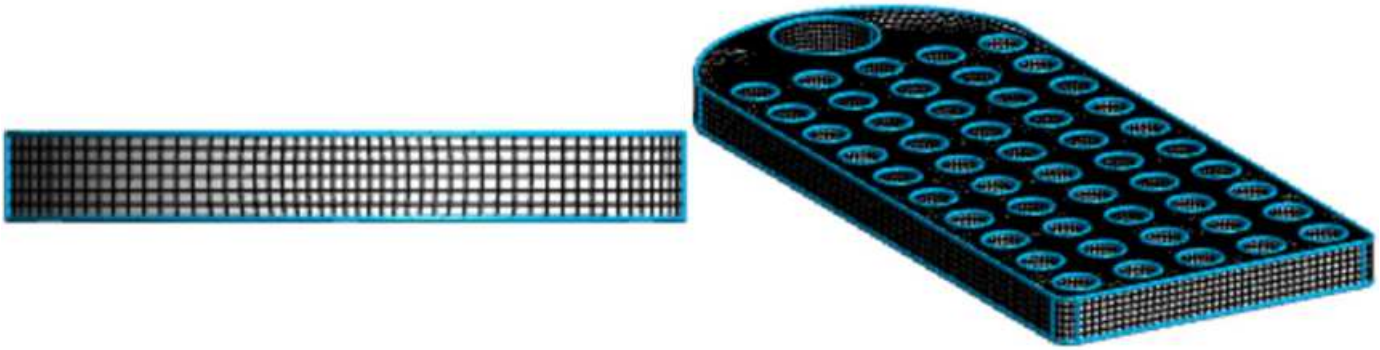


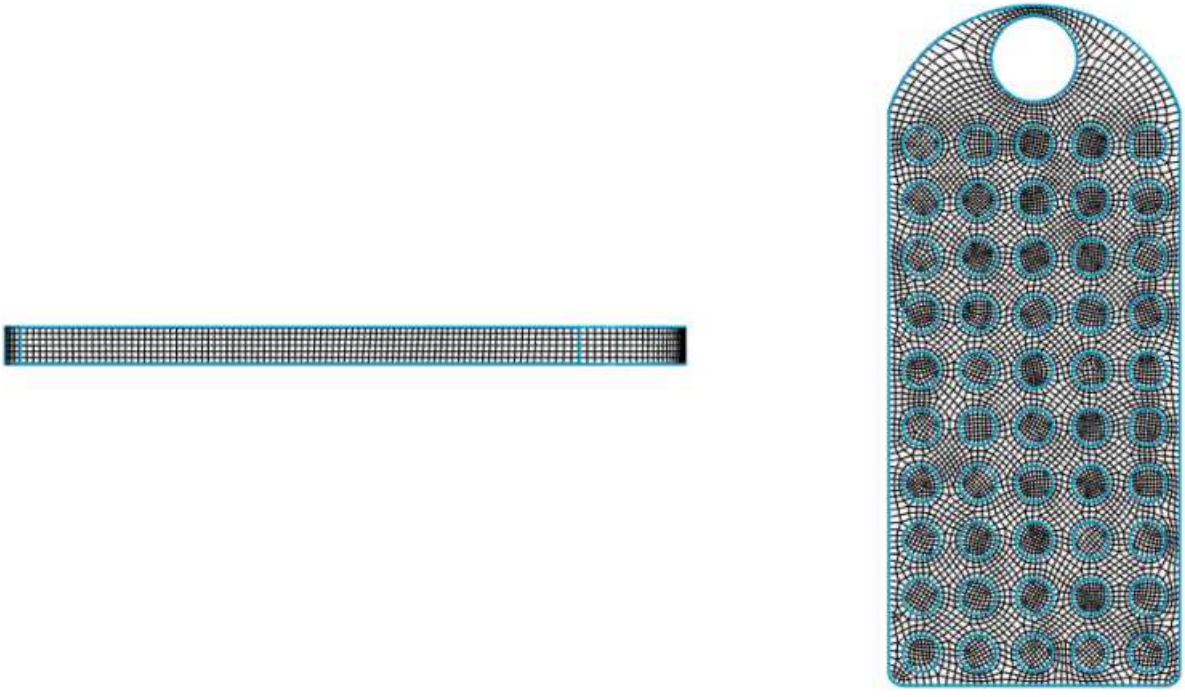
Model: 00006826 (from ABC dataset)
CAD: 114 corners, 171 curves, 109 faces
Cross field: 408 singularities detected
Timings: 18.3836 sec to generate the unstructured mesh, 3.89175 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21130	24376	1139	293
Quasi-structured	21297	24543	482	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.351382	1.78986	4.44515	0.205342	0.939283	0.973631
Quasi-structured	0.629567	1.77647	7.6887	0.482826	0.965352	0.984856



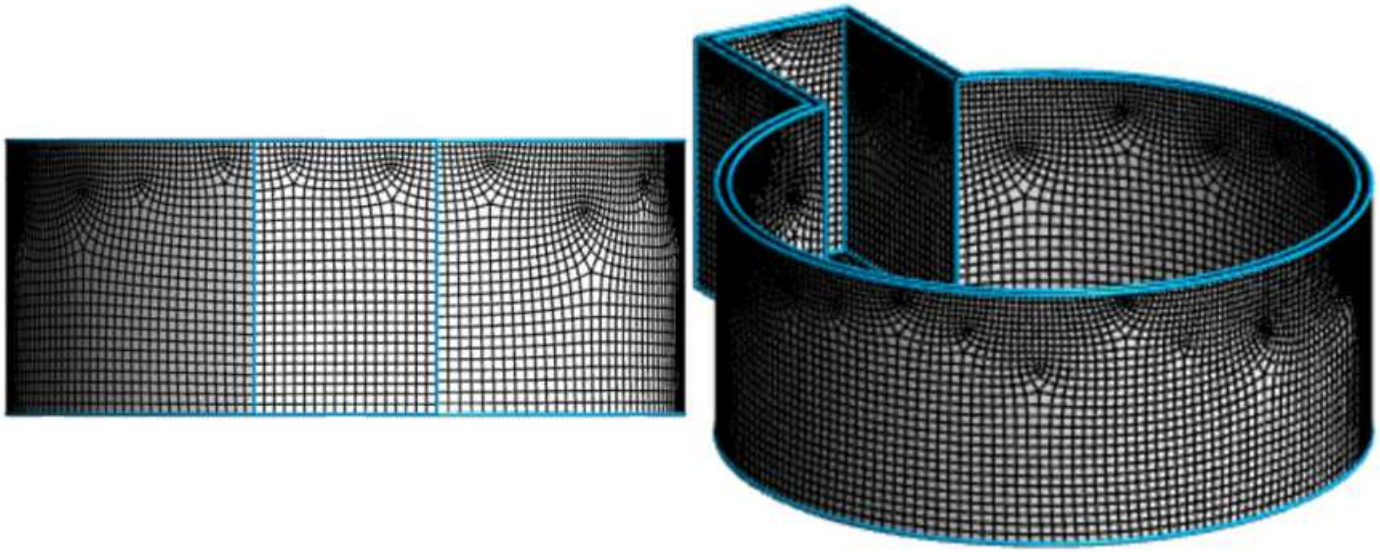


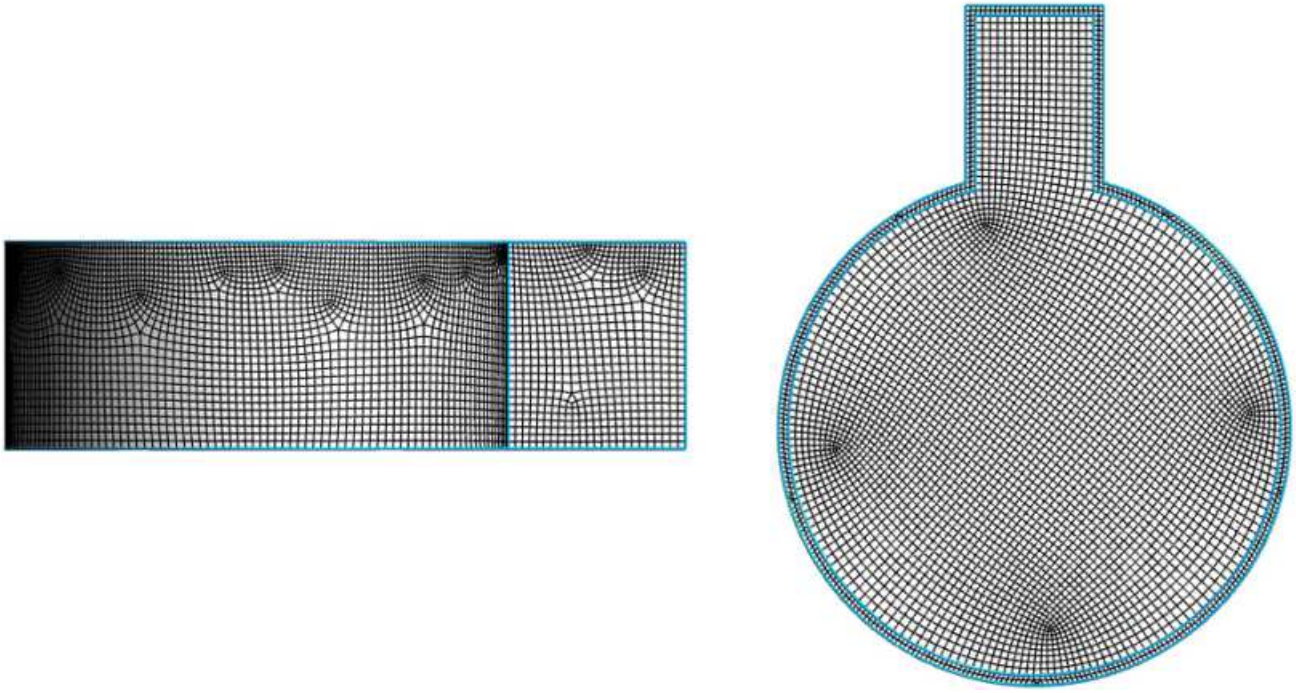
Model: 00006845 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 8 singularities detected
Timings: 15.4984 sec to generate the unstructured mesh, 29.7211 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23492	24970	484	51
Quasi-structured	25009	26487	140	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.225044	0.729117	1.66276	0.368163	0.965989	0.992309
Quasi-structured	0.231228	0.701181	1.73678	0.629739	0.990403	0.996221



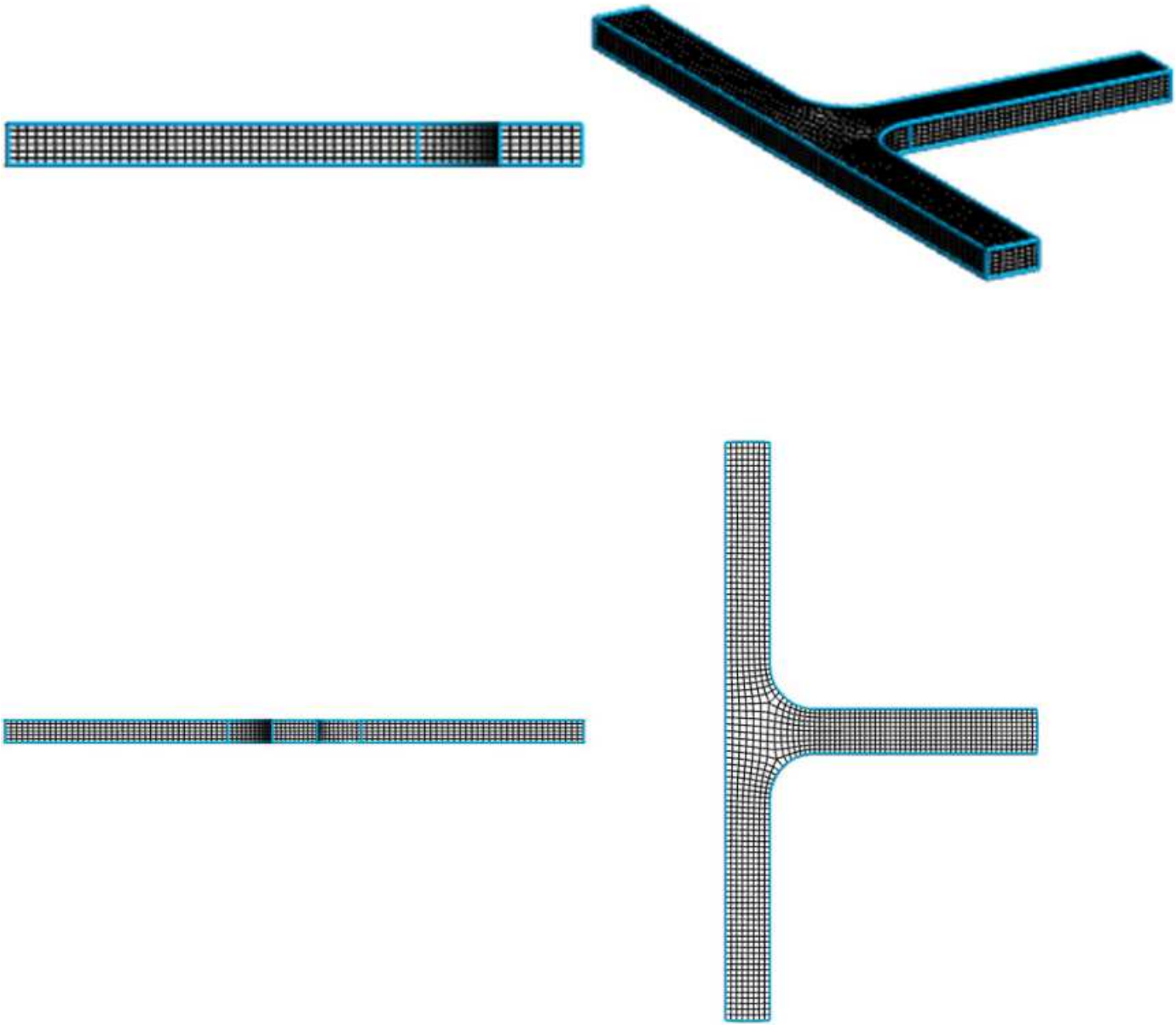


Model: 00006855 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 4 singularities detected
Timings: 2.25743 sec to generate the unstructured mesh, 0.406605 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	4326	5034	16	0
Quasi-structured	4486	5194	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.997098	2.32349	4.11809	0.660418	0.962207	0.970694
Quasi-structured	1.66043	2.27887	4.52515	0.843198	0.96641	0.991998

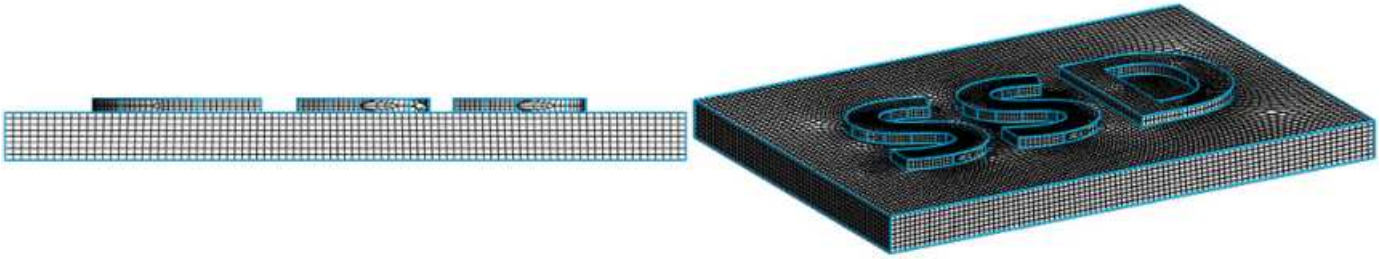


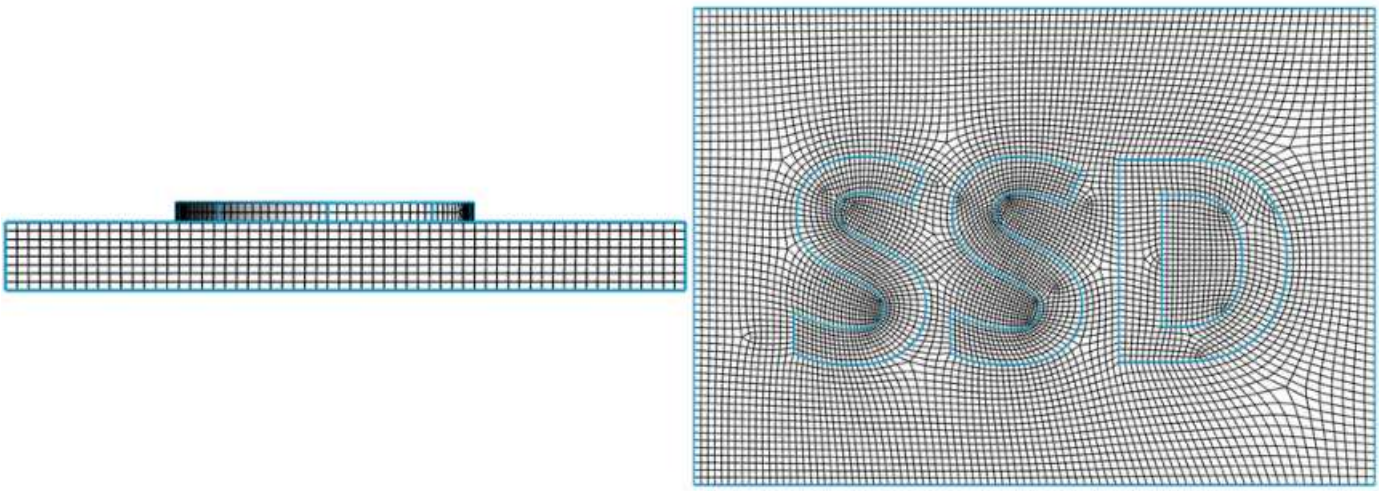
Model: 00006861 (from ABC dataset)
CAD: 144 corners, 216 curves, 78 faces
Cross field: 20 singularities detected
Timings: 19.2726 sec to generate the unstructured mesh, 5.06571 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17642	19718	314	14
Quasi-structured	17663	19739	99	5

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.165986	0.976412	5.99608	0.057049	0.961142	0.992234
Quasi-structured	0.165986	0.969752	3.41745	0.122896	0.967639	0.990587



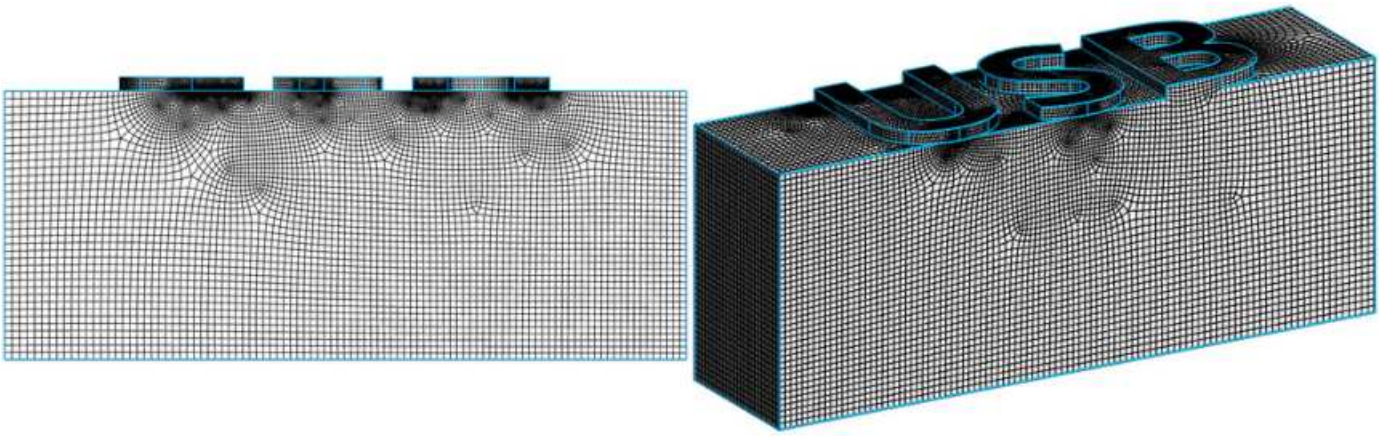


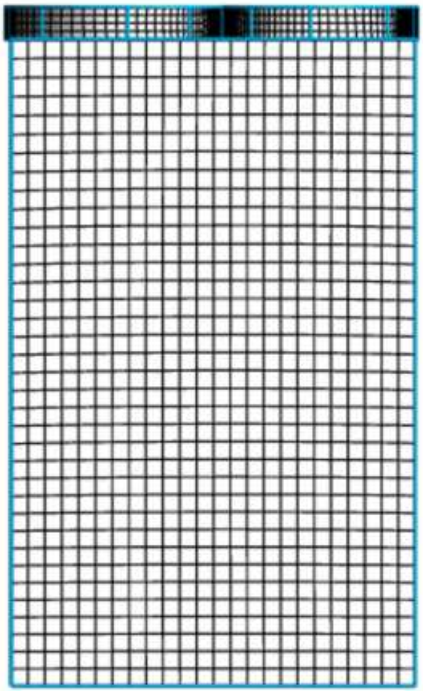
Model: 00006867 (from ABC dataset)
CAD: 150 corners, 228 curves, 82 faces
Cross field: 35 singularities detected
Timings: 12.0818 sec to generate the unstructured mesh, 121.681 sec to make it quasi-structured
Mesh topology:

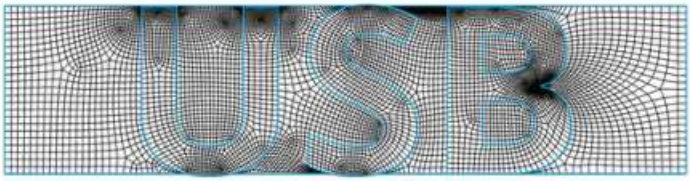
	# quads	# vertices	# irregular	# very irregular
Unstructured	32196	35382	1444	57
Quasi-structured	32364	35550	313	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0259815	0.609106	1.70685	0.0499574	0.942846	0.984732
Quasi-structured	0.0154018	0.605871	2.62537	0.0499574	0.955727	0.989628





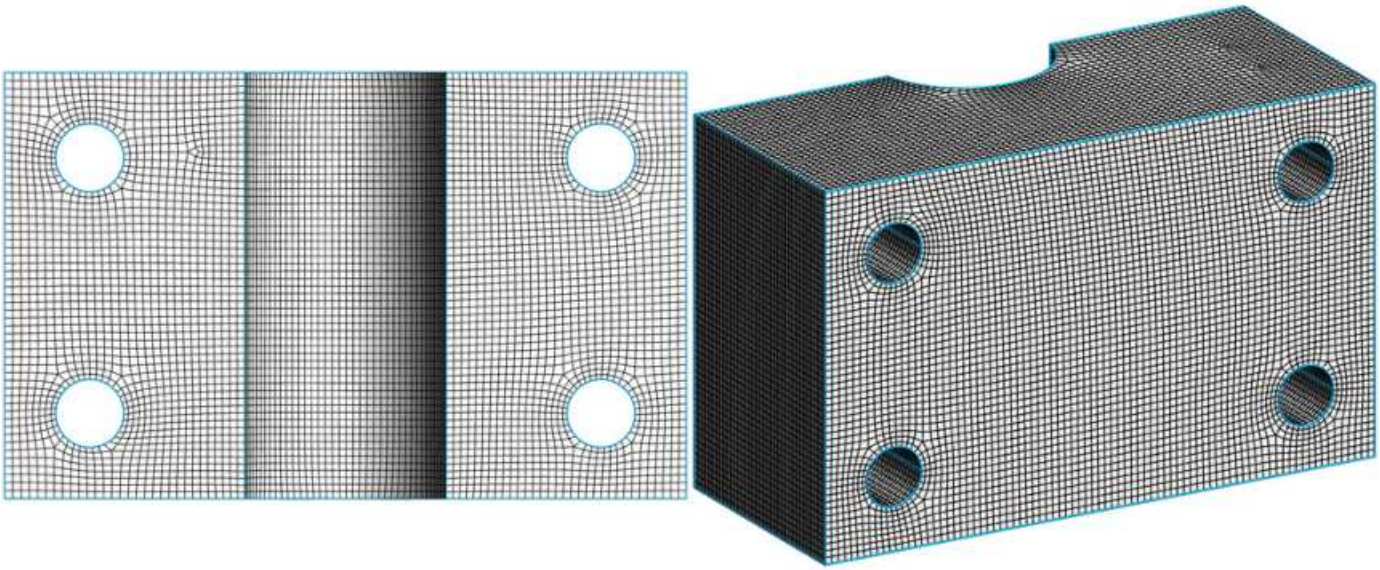


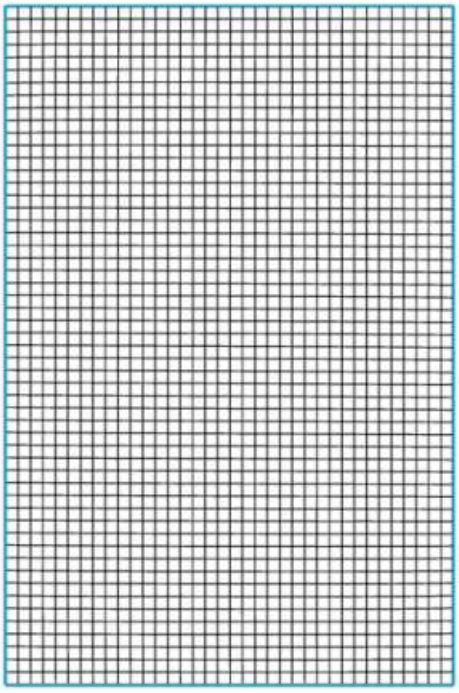
Model: 00006874 (from ABC dataset)
CAD: 24 corners, 34 curves, 12 faces
Cross field: 36 singularities detected
Timings: 19.1665 sec to generate the unstructured mesh, 1.90361 sec to make it quasi-structured
Mesh topology:

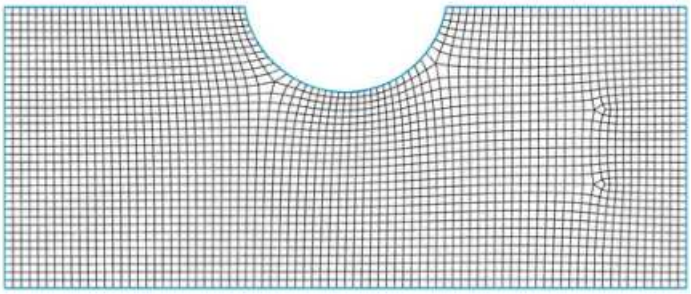
	# quads	# vertices	# irregular	# very irregular
Unstructured	25272	26398	238	181
Quasi-structured	25716	26842	50	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.15814	0.439092	0.781613	0.525972	0.986415	0.998794
Quasi-structured	0.211065	0.434748	0.963208	0.681772	0.995197	0.999264





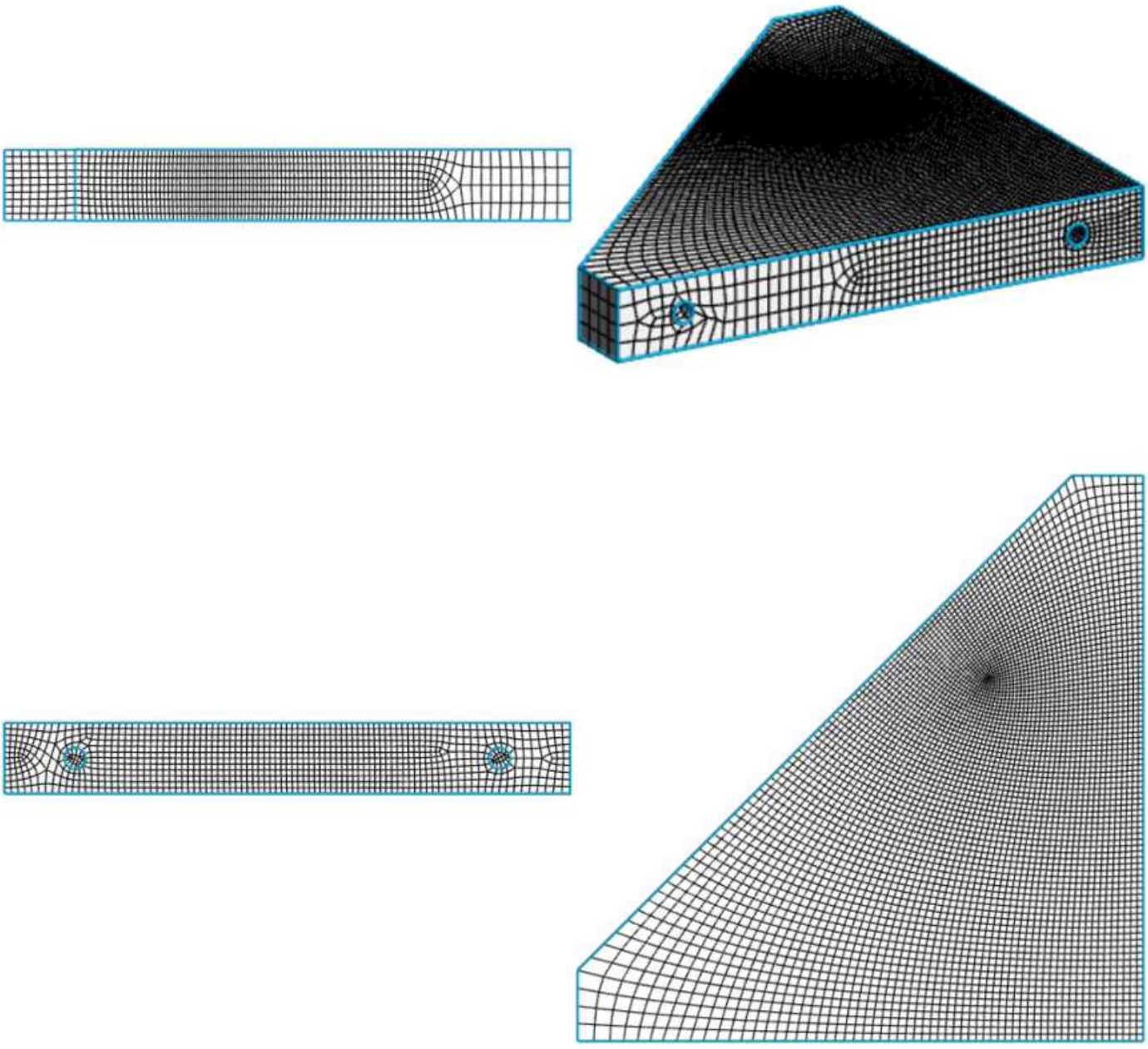


Model: 00006888 (from ABC dataset)
CAD: 24 corners, 37 curves, 17 faces
Cross field: 38 singularities detected
Timings: 11.5628 sec to generate the unstructured mesh, 4.67489 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12034	12729	202	74
Quasi-structured	13370	14065	65	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.219073	0.928337	2.95732	0.0705303	0.980966	0.999084
Quasi-structured	0.192449	0.877972	3.99958	0.385293	0.982719	0.990438

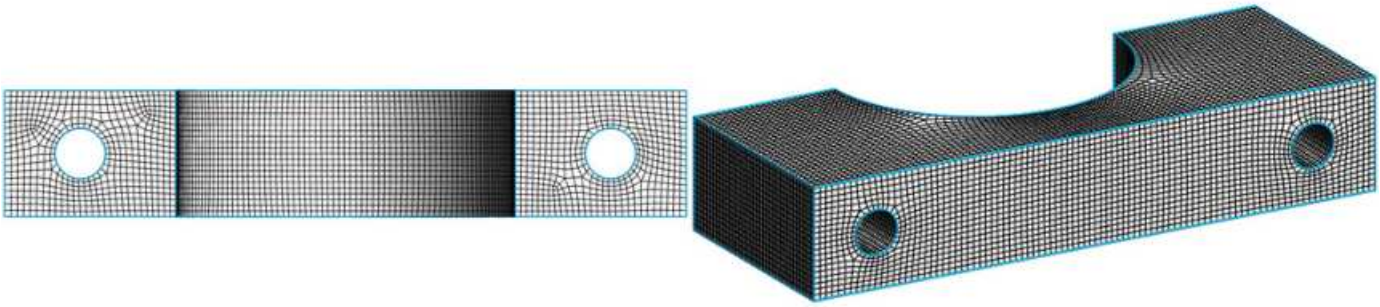


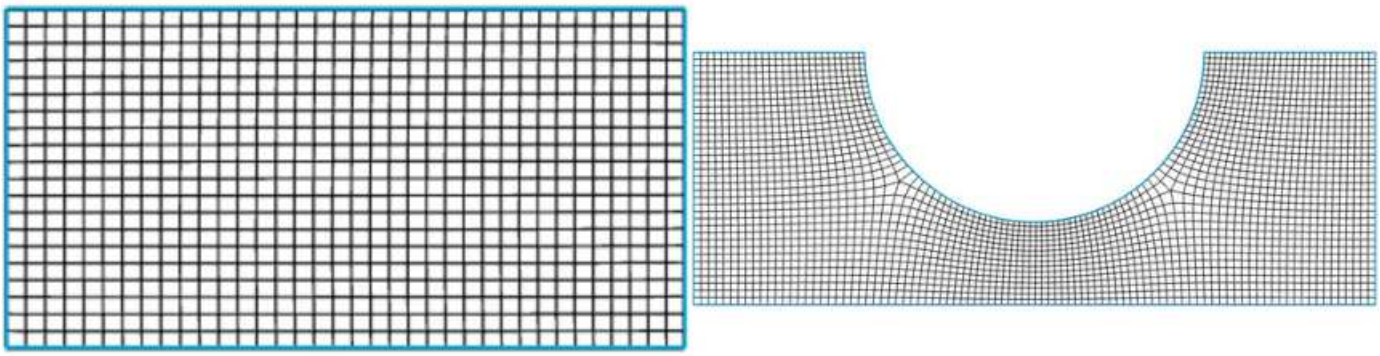
Model: 00006889 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 20 singularities detected
Timings: 10.7973 sec to generate the unstructured mesh, 1.5533 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13948	14810	119	100
Quasi-structured	14352	15214	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.204746	0.510702	0.978871	0.559354	0.986772	0.997906
Quasi-structured	0.254819	0.502997	1.37172	0.687975	0.992103	0.997248



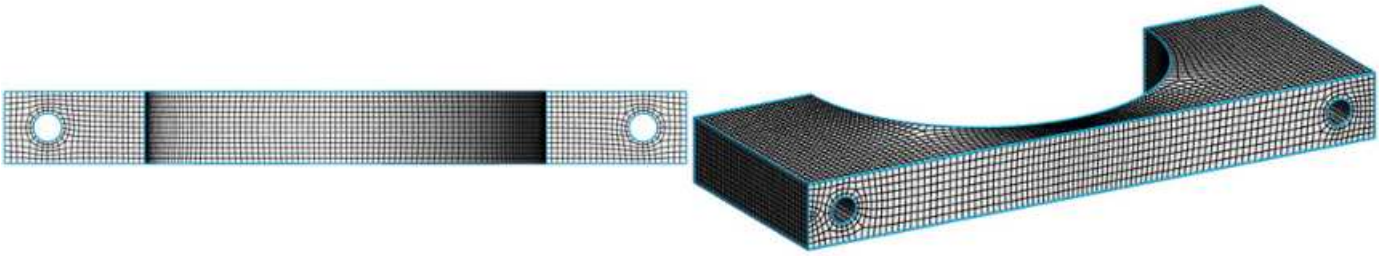


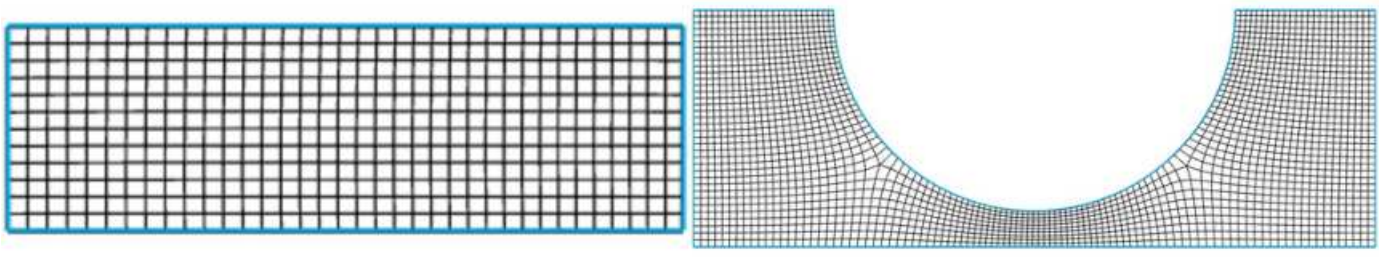
Model: 00006892 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 20 singularities detected
Timings: 7.77968 sec to generate the unstructured mesh, 1.22216 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10042	10840	134	97
Quasi-structured	9930	10728	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.232349	0.853736	1.98871	0.279885	0.982372	0.997888
Quasi-structured	0.377832	0.855581	2.99355	0.62109	0.98346	0.99703



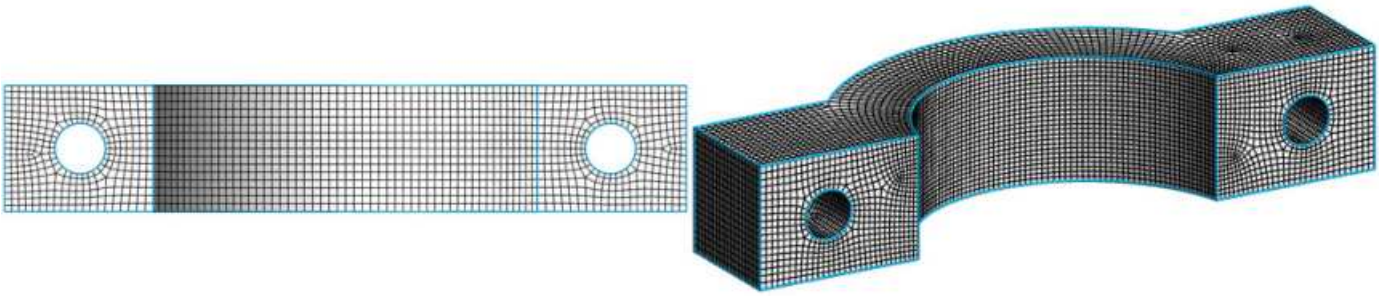


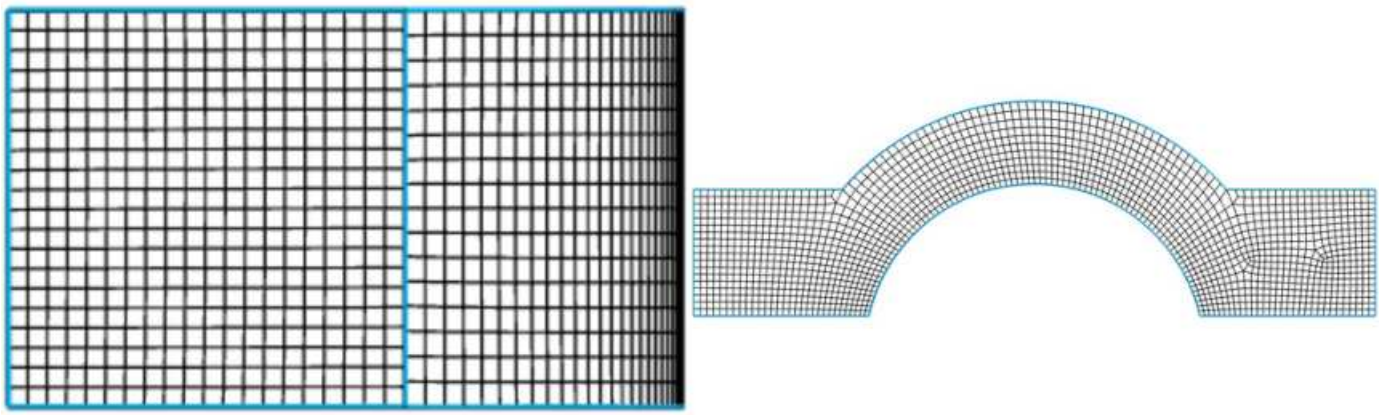
Model: 00006893 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 16 singularities detected
Timings: 7.79658 sec to generate the unstructured mesh, 1.45279 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10416	11252	121	49
Quasi-structured	10416	11252	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.179777	0.492616	0.922774	0.576827	0.984923	0.996702
Quasi-structured	0.188744	0.491759	1.26437	0.723862	0.991943	0.996818



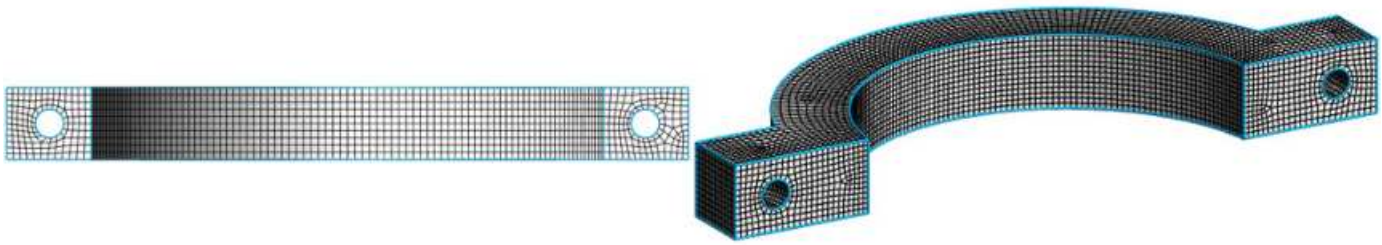


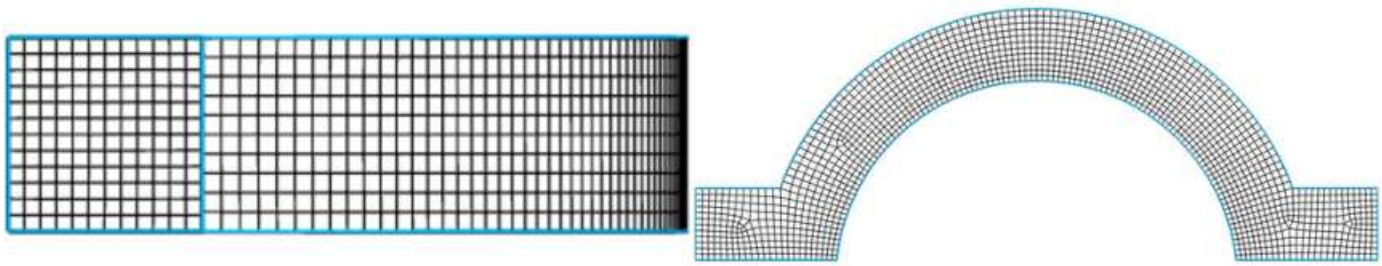
Model: 00006894 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 16 singularities detected
Timings: 5.03535 sec to generate the unstructured mesh, 1.17381 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7340	8112	94	35
Quasi-structured	7344	8116	42	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.280028	0.832125	1.44829	0.332007	0.981407	0.998766
Quasi-structured	0.379538	0.830638	1.4293	0.59983	0.992965	0.997506



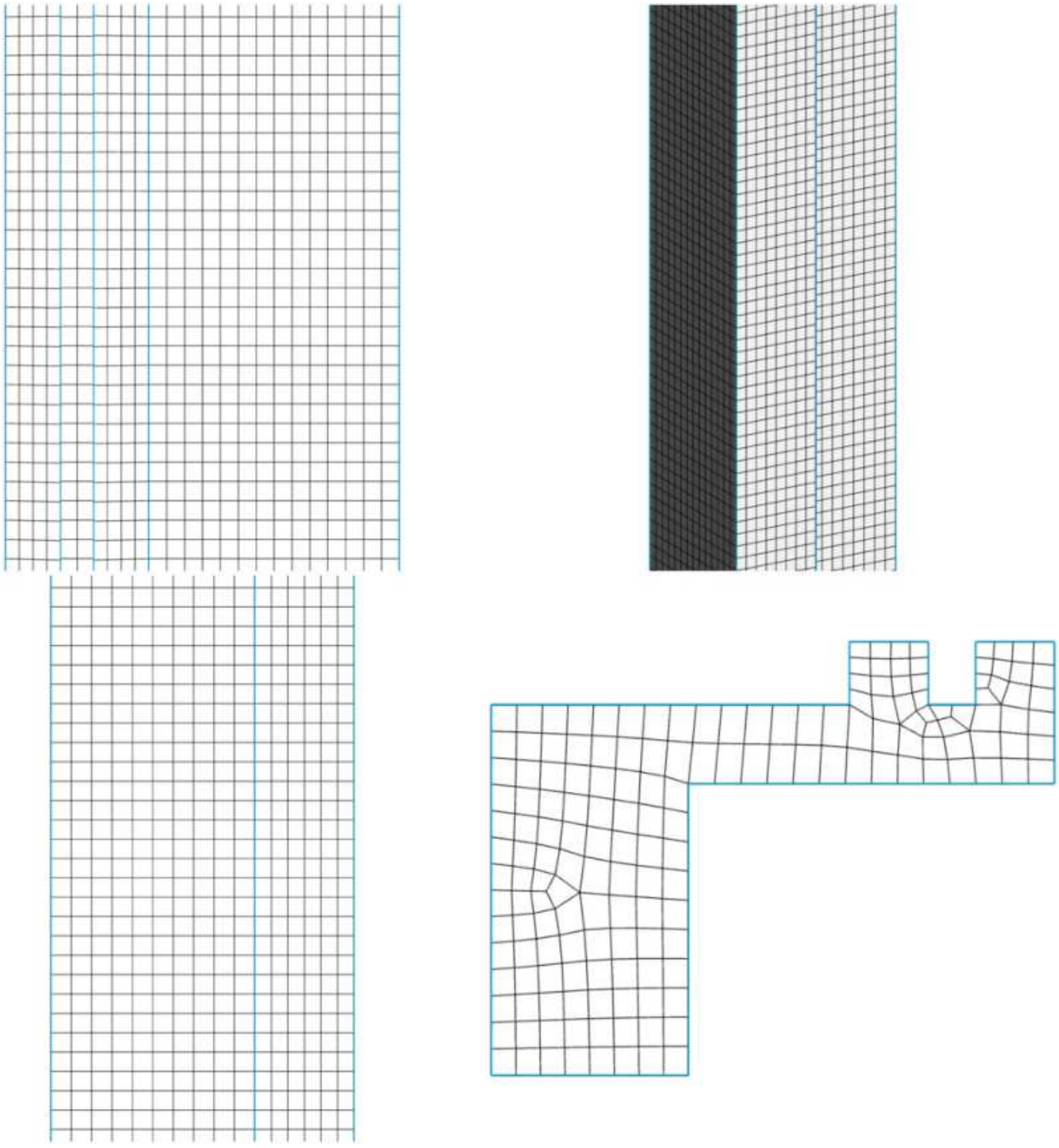


Model: 00006904 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 3.58236 sec to generate the unstructured mesh, 0.520156 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10388	11946	18	1
Quasi-structured	10380	11938	14	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.621628	3.28017	5.02359	0.334275	0.970723	0.996992
Quasi-structured	1.30094	3.28034	5.47683	0.686751	0.972297	0.996992

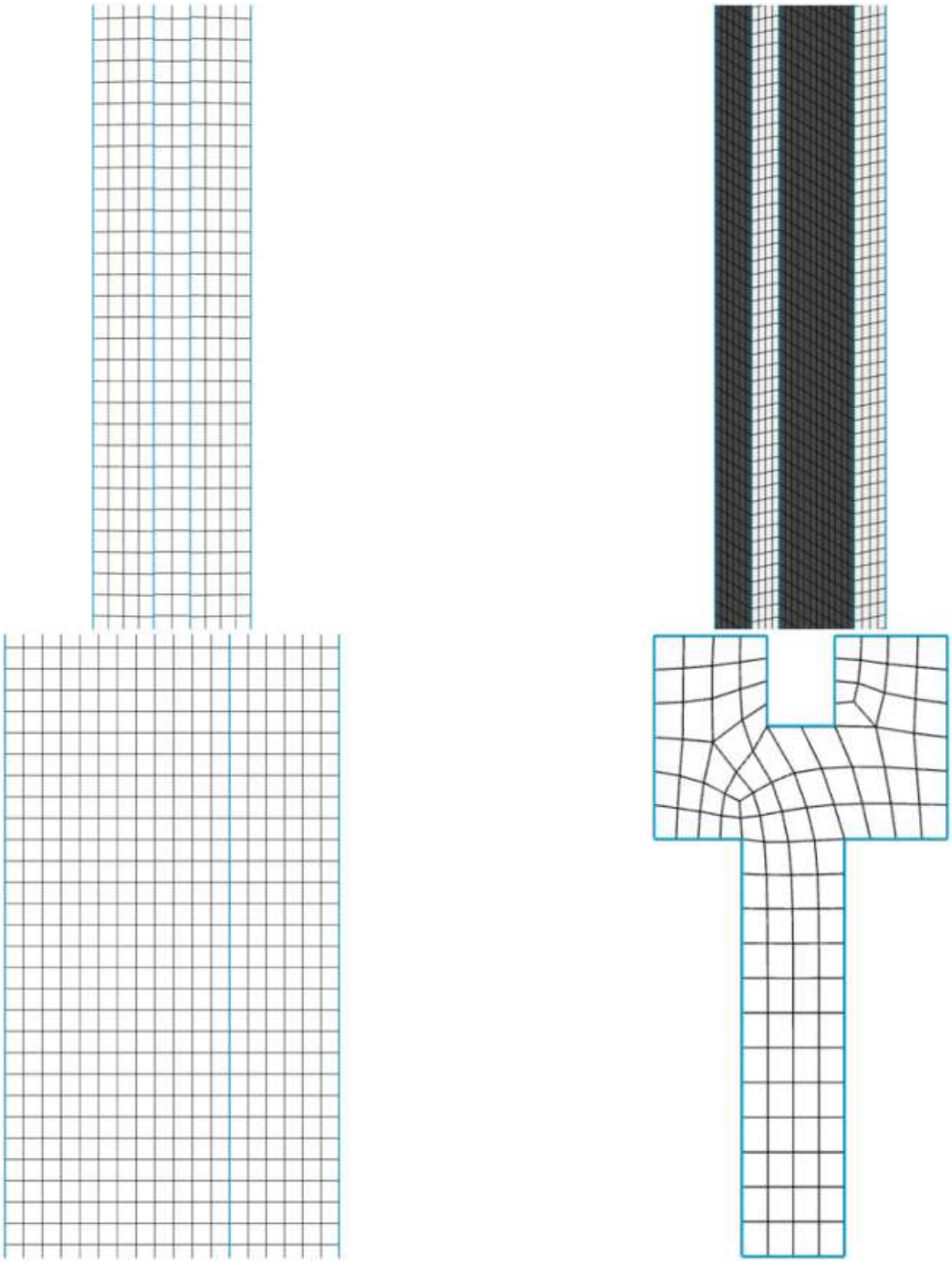


Model: 00006905 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 2.36691 sec to generate the unstructured mesh, 0.410547 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7738	9252	16	3
Quasi-structured	7743	9257	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.18344	3.09346	4.12021	0.536286	0.948078	0.987854
Quasi-structured	1.22547	3.09044	4.79657	0.478141	0.950372	0.987854

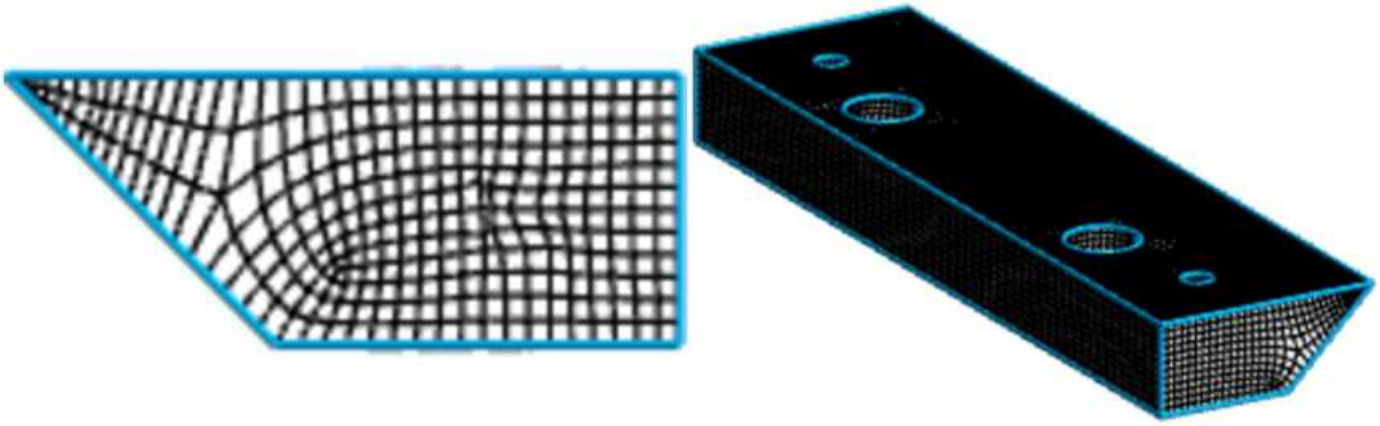


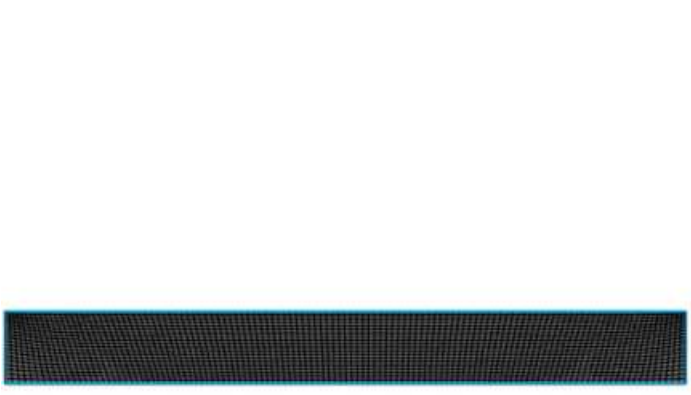
Model: 00006907 (from ABC dataset)
CAD: 20 corners, 30 curves, 14 faces
Cross field: 32 singularities detected
Timings: 5.10189 sec to generate the unstructured mesh, 1.07543 sec to make it quasi-structured
Mesh topology:

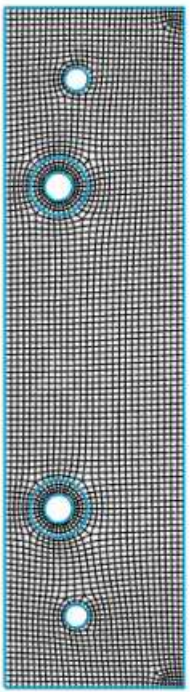
	# quads	# vertices	# irregular	# very irregular
Unstructured	11824	12782	222	76
Quasi-structured	12087	13045	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.172533	0.762154	1.46713	0.368383	0.967107	0.99101
Quasi-structured	0.176472	0.752766	2.60083	0.535665	0.983075	0.992581





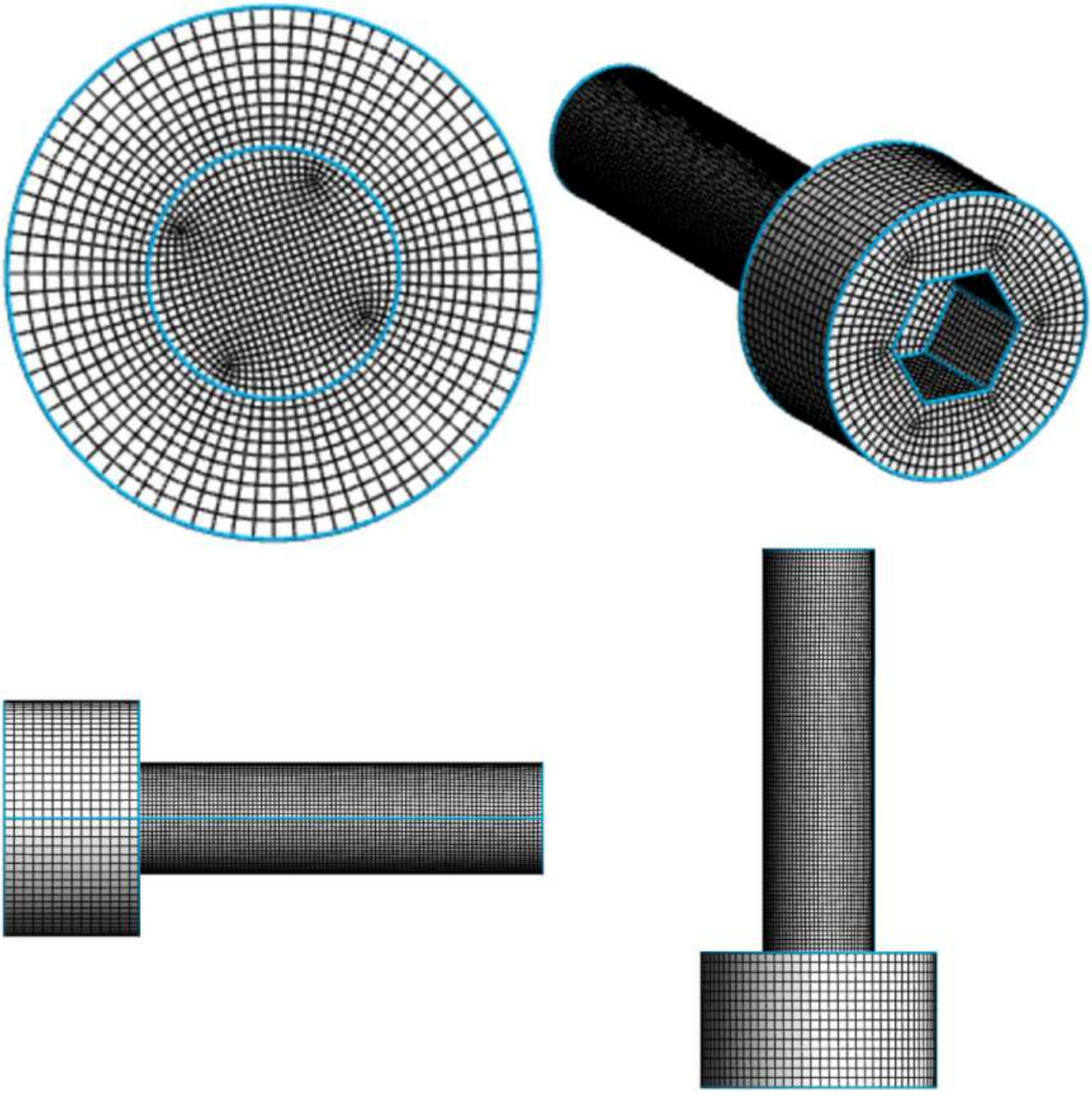


Model: 00006941 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 12 singularities detected
Timings: 6.34702 sec to generate the unstructured mesh, 0.6799 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11480	12008	80	108
Quasi-structured	11578	12106	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0462303	0.159111	0.39135	0.567424	0.985882	0.99754
Quasi-structured	0.0505272	0.158014	0.375852	0.853472	0.995792	0.999851

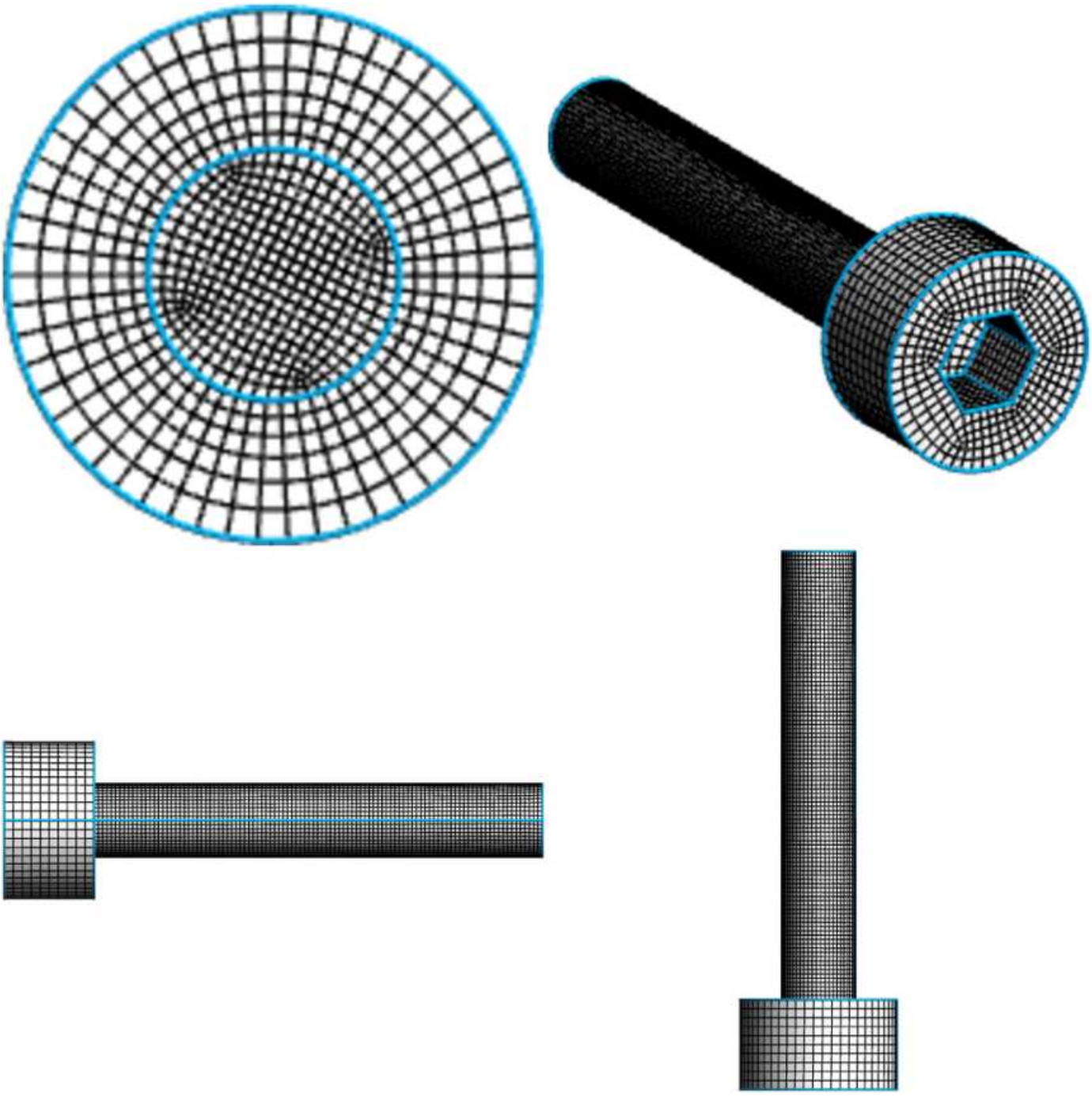


Model: 00006942 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 12 singularities detected
Timings: 5.94618 sec to generate the unstructured mesh, 0.574705 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7494	7850	41	113
Quasi-structured	7479	7835	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0625921	0.222379	0.480854	0.565282	0.991546	0.999989
Quasi-structured	0.0872507	0.222245	0.63373	0.838889	0.996858	0.999985

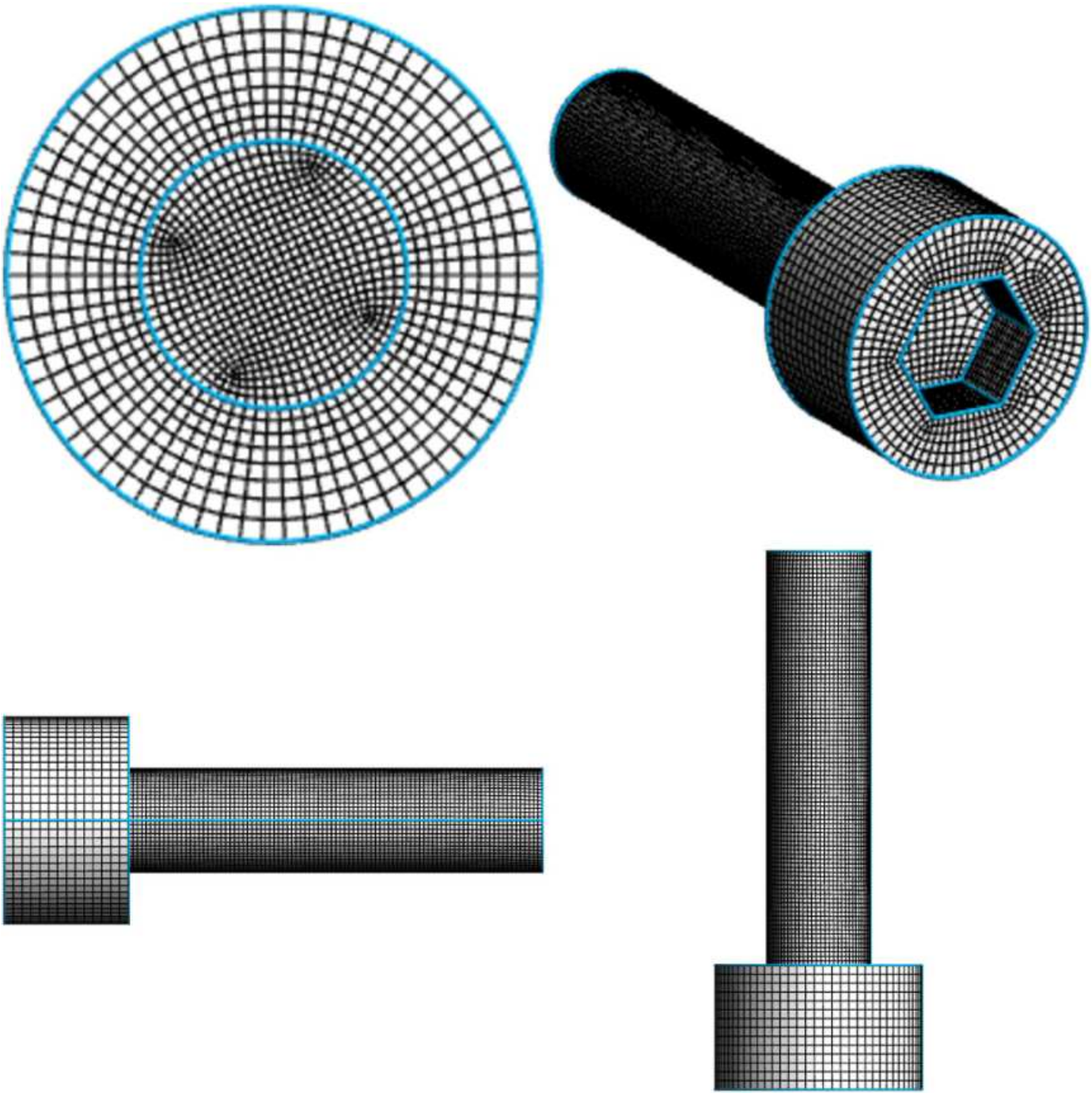


Model: 00006943 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 12 singularities detected
Timings: 5.4342 sec to generate the unstructured mesh, 0.621707 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10514	11018	78	109
Quasi-structured	10628	11132	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0702903	0.250142	0.555675	0.396132	0.987169	0.999658
Quasi-structured	0.0838064	0.248167	0.604339	0.73082	0.995956	0.999935

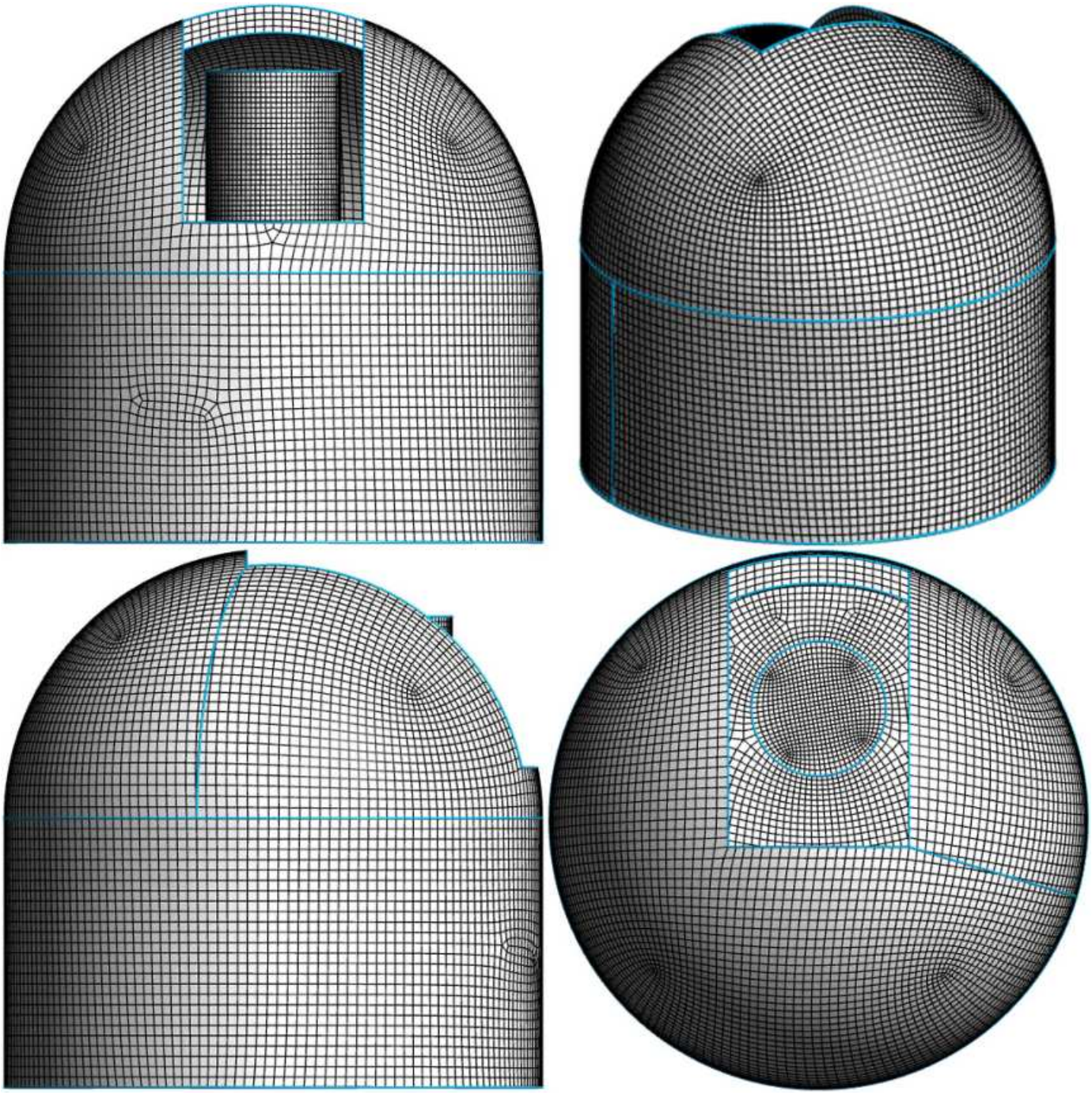


Model: 00006951 (from ABC dataset)
CAD: 18 corners, 27 curves, 12 faces
Cross field: 20 singularities detected
Timings: 32.4142 sec to generate the unstructured mesh, 5.84918 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30792	31856	229	201
Quasi-structured	30662	31726	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.158255	0.766002	1.74158	0.415845	0.984484	0.997477
Quasi-structured	0.193603	0.76508	1.52032	0.731018	0.994995	0.998557

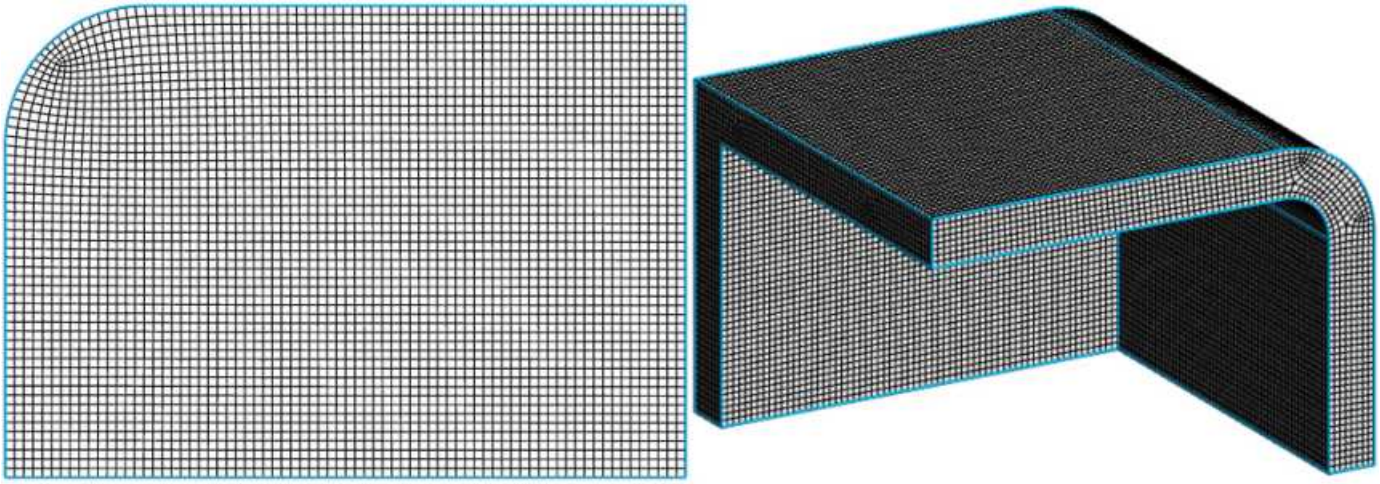


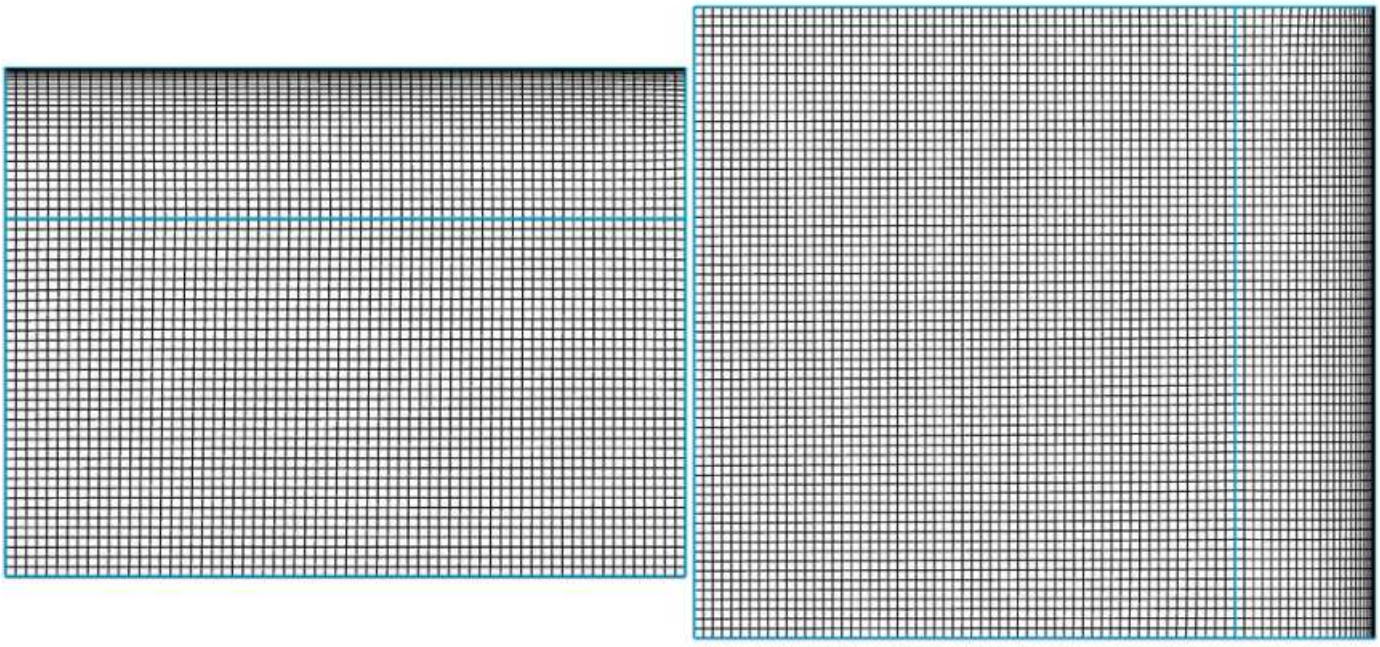
Model: 00006954 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 2 singularities detected
Timings: 16.188 sec to generate the unstructured mesh, 2.55609 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24022	25257	44	0
Quasi-structured	24106	25341	14	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.650551	1.67555	2.56439	0.58797	0.994834	0.999402
Quasi-structured	0.634482	1.67148	2.47072	0.779579	0.998267	0.999477





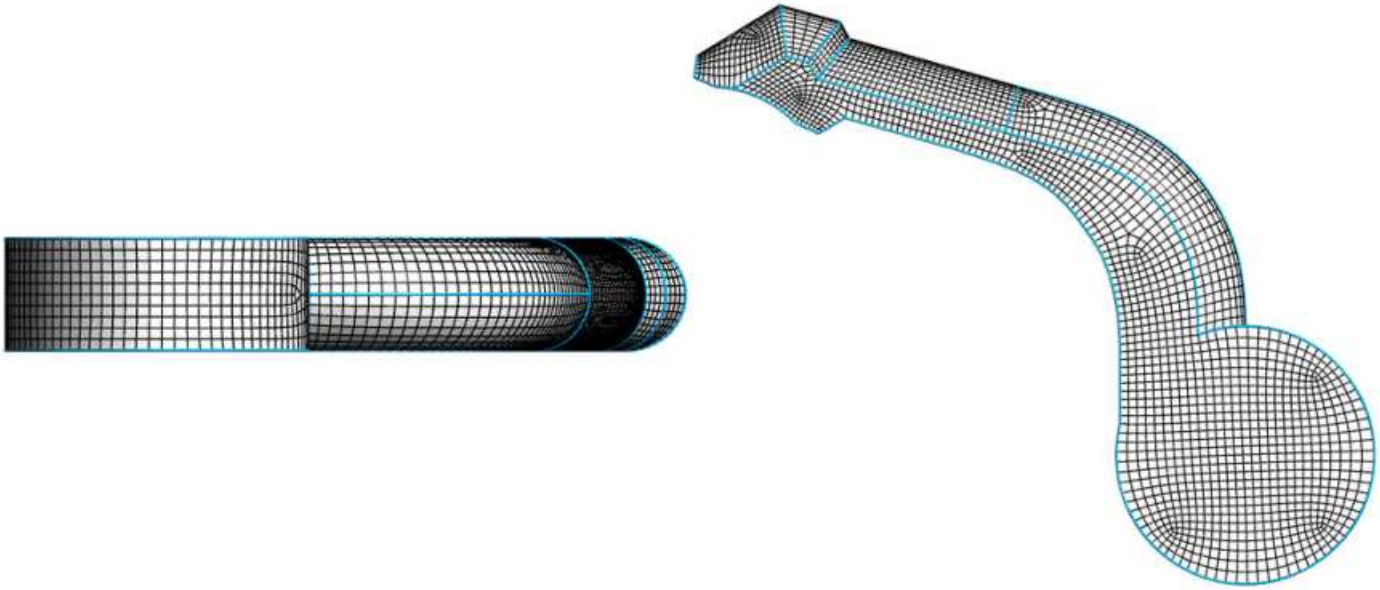
Model: 00006972 (from ABC dataset)
CAD: 30 corners, 45 curves, 17 faces
Cross field: 16 singularities detected
Timings: 5.23028 sec to generate the unstructured mesh, 1.11504 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6286	7087	183	4
Quasi-structured	6537	7338	44	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.216218	1.14056	2.65975	0.169371	0.951599	0.984431
Quasi-structured	0.140229	1.11522	2.40684	0.169371	0.973961	0.99304



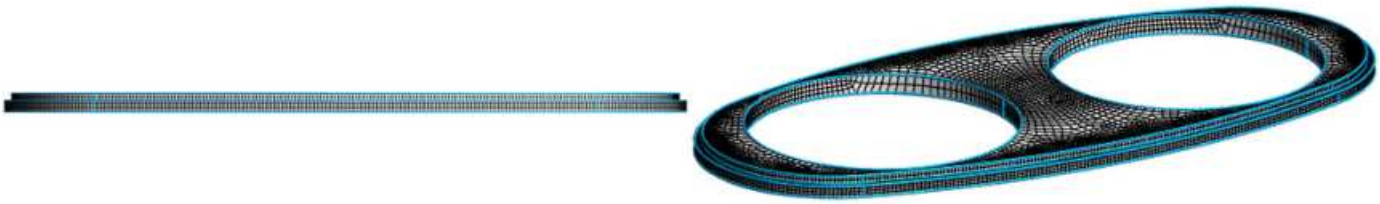


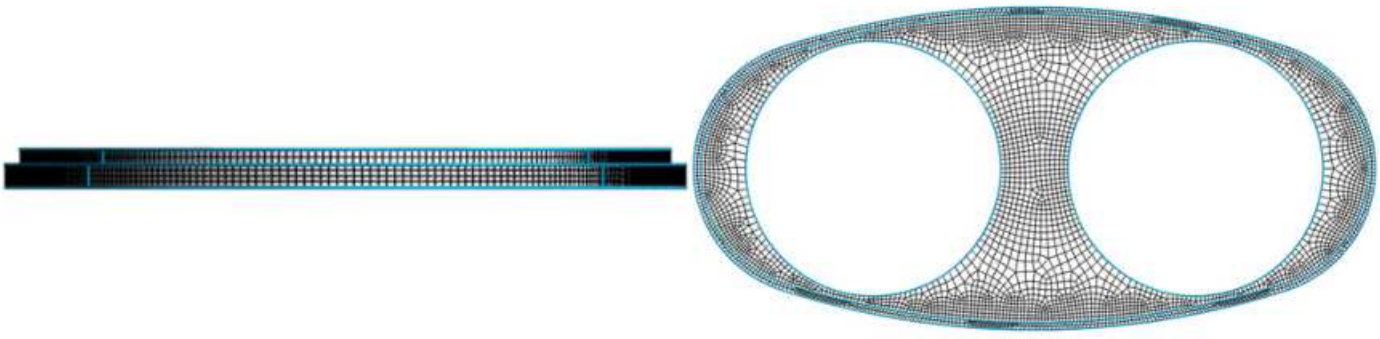
Model: 00006975 (from ABC dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 8 singularities detected
Timings: 3.88927 sec to generate the unstructured mesh, 27.6576 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10314	12686	489	48
Quasi-structured	10482	12854	330	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.377882	1.24319	3.36125	0.377521	0.930971	0.959291
Quasi-structured	0.295922	1.22787	4.38436	0.418456	0.940933	0.965848



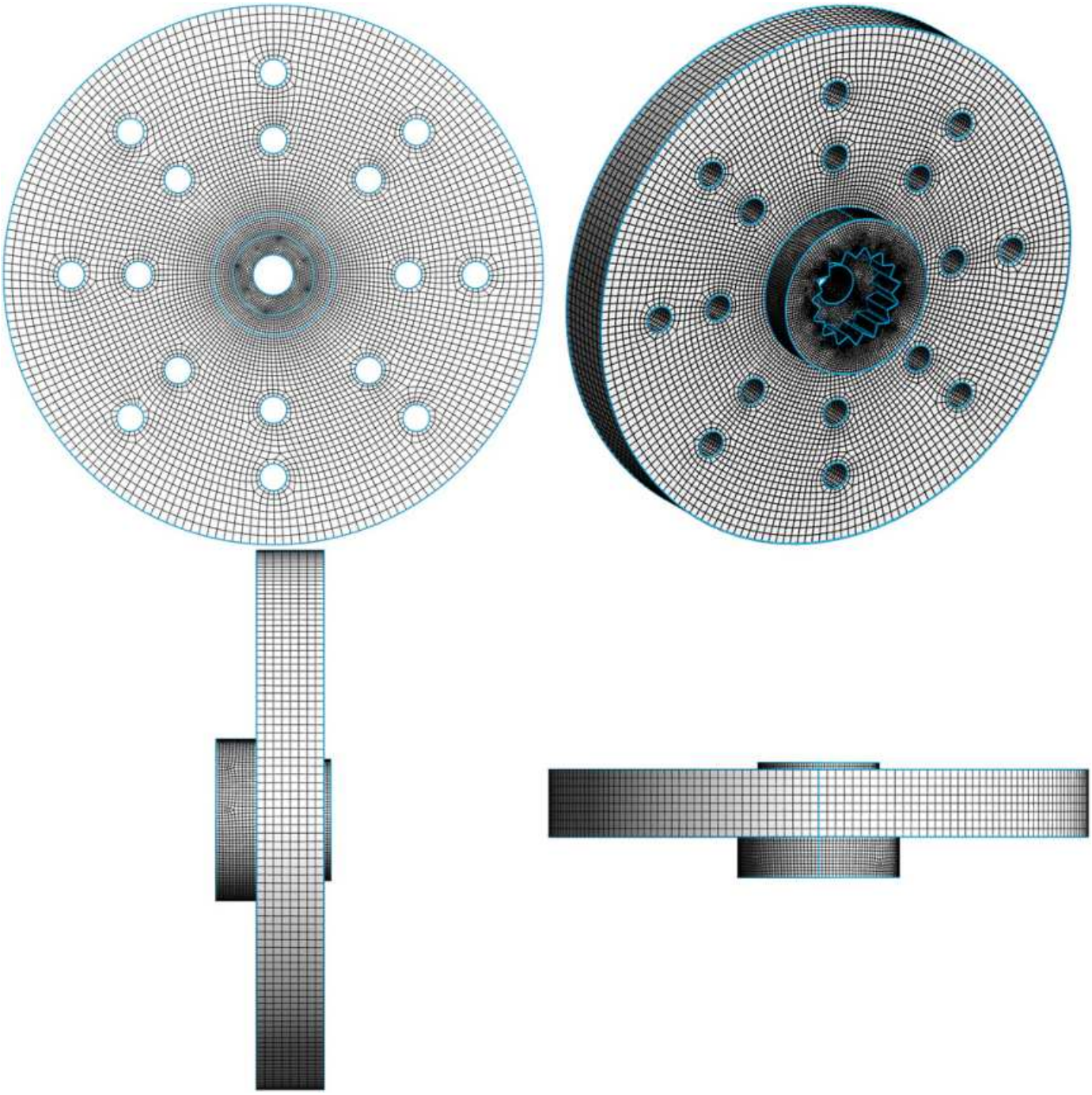


Model: 00006982 (from ABC dataset)
CAD: 147 corners, 213 curves, 72 faces
Cross field: 166 singularities detected
Timings: 31.6508 sec to generate the unstructured mesh, 12.4523 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	39124	43231	1708	355
Quasi-structured	39128	43235	418	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0256494	0.265431	0.842608	0.281423	0.953785	0.988989
Quasi-structured	0.0145866	0.264354	0.840464	0.322401	0.970487	0.991555

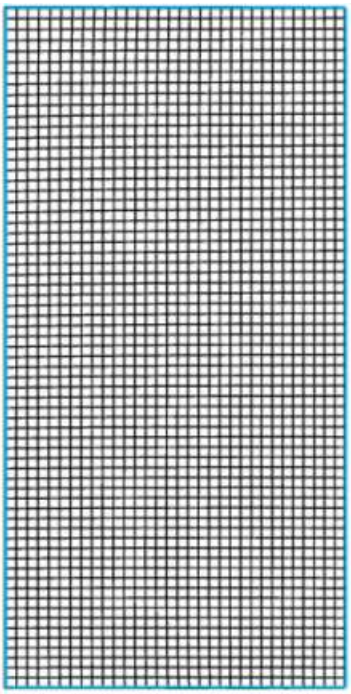


Model: 00006983 (from ABC dataset)
CAD: 21 corners, 32 curves, 15 faces
Cross field: 26 singularities detected
Timings: 12.1839 sec to generate the unstructured mesh, 12.3253 sec to make it quasi-structured
Mesh topology:

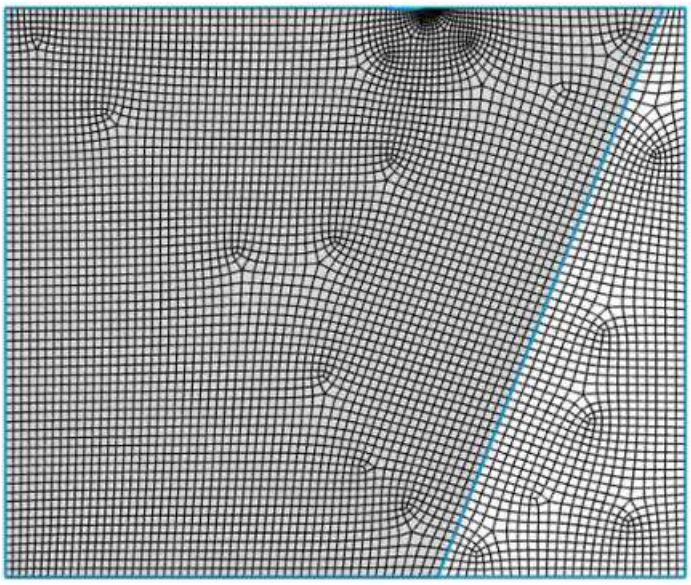
	# quads	# vertices	# irregular	# very irregular
Unstructured	24808	26134	386	126
Quasi-structured	25232	26558	116	0

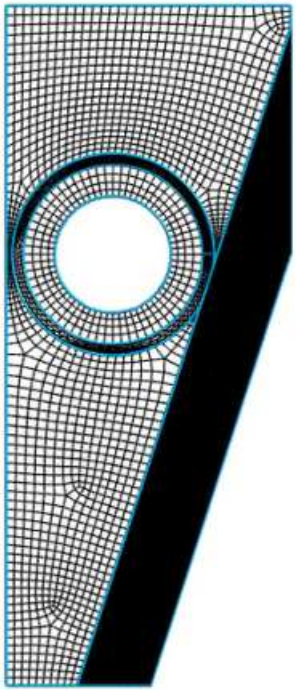
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.033799	0.711706	1.3961	0.166899	0.972989	0.995422
Quasi-structured	0.0170285	0.703499	1.62154	0.205472	0.979039	0.997092







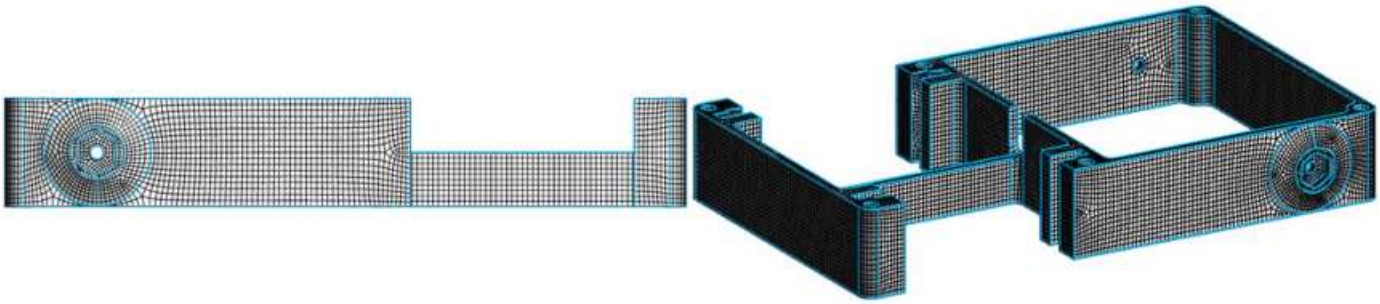


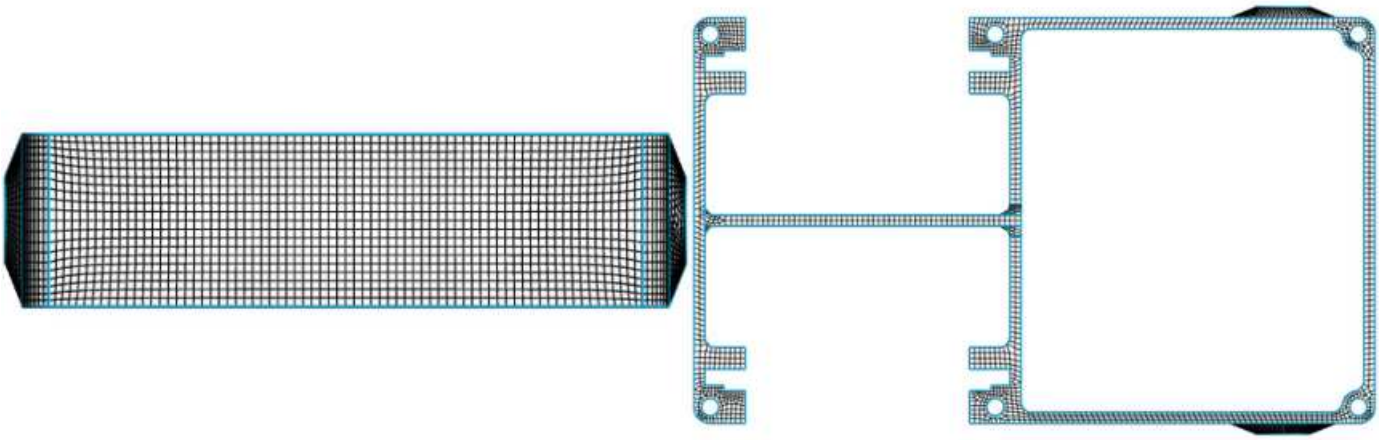
Model: 00007005 (from ABC dataset)
CAD: 193 corners, 293 curves, 103 faces
Cross field: 106 singularities detected
Timings: 8.56747 sec to generate the unstructured mesh, 11.474 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24796	29148	804	179
Quasi-structured	25893	30245	420	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0784728	0.905352	1.79779	0.00133939	0.950061	0.983887
Quasi-structured	0.0233036	0.888979	1.96503	0.0435406	0.95375	0.987301



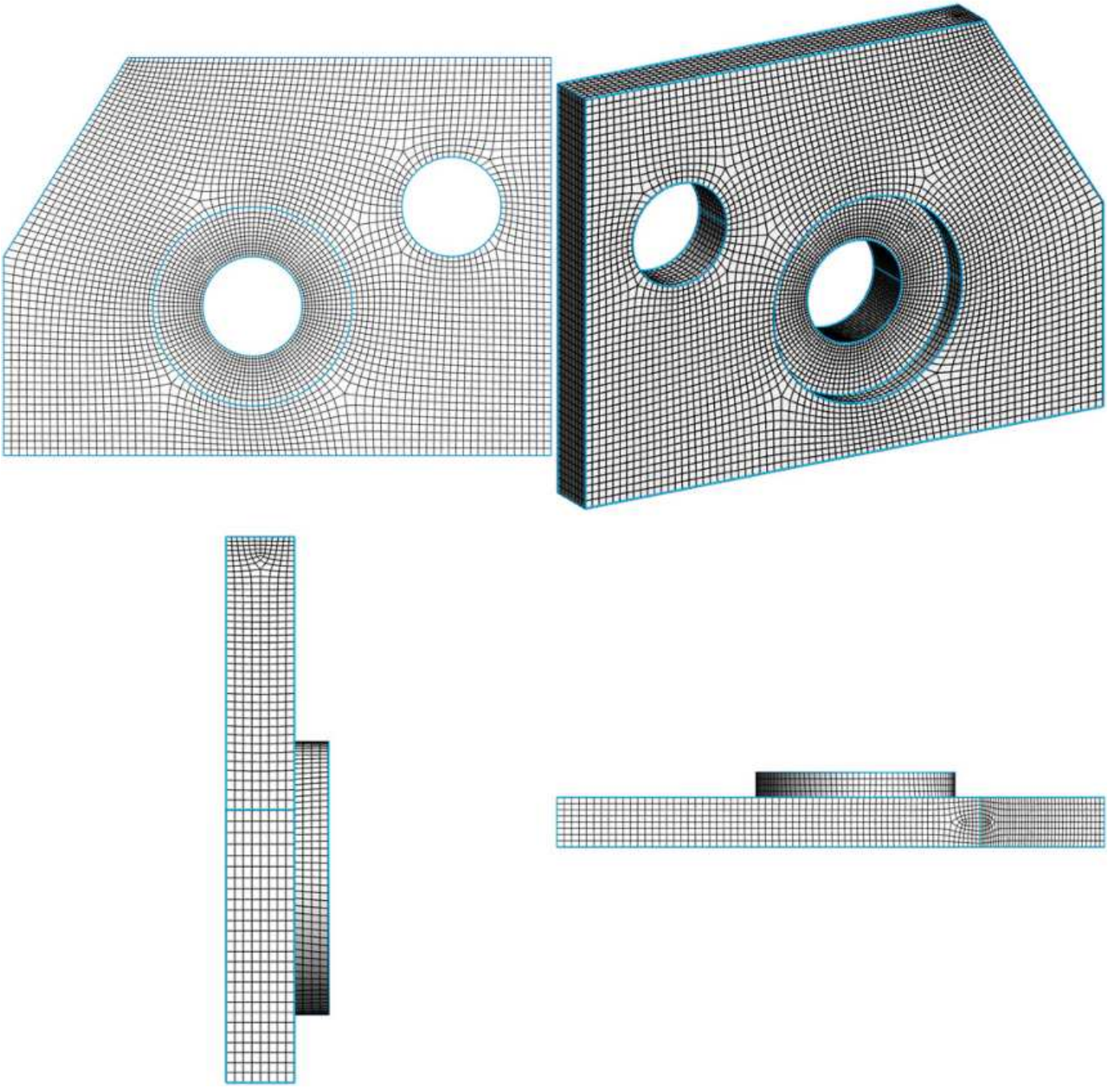


Model: 00007015 (from ABC dataset)
CAD: 20 corners, 29 curves, 13 faces
Cross field: 16 singularities detected
Timings: 11.1059 sec to generate the unstructured mesh, 1.23142 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14382	15685	170	36
Quasi-structured	14548	15851	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.377586	1.50306	3.10293	0.573241	0.981441	0.994081
Quasi-structured	0.601036	1.49525	3.91282	0.701738	0.990573	0.995148

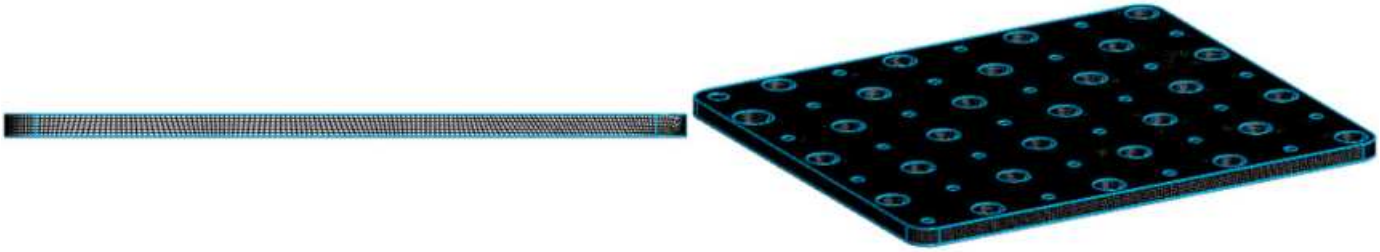


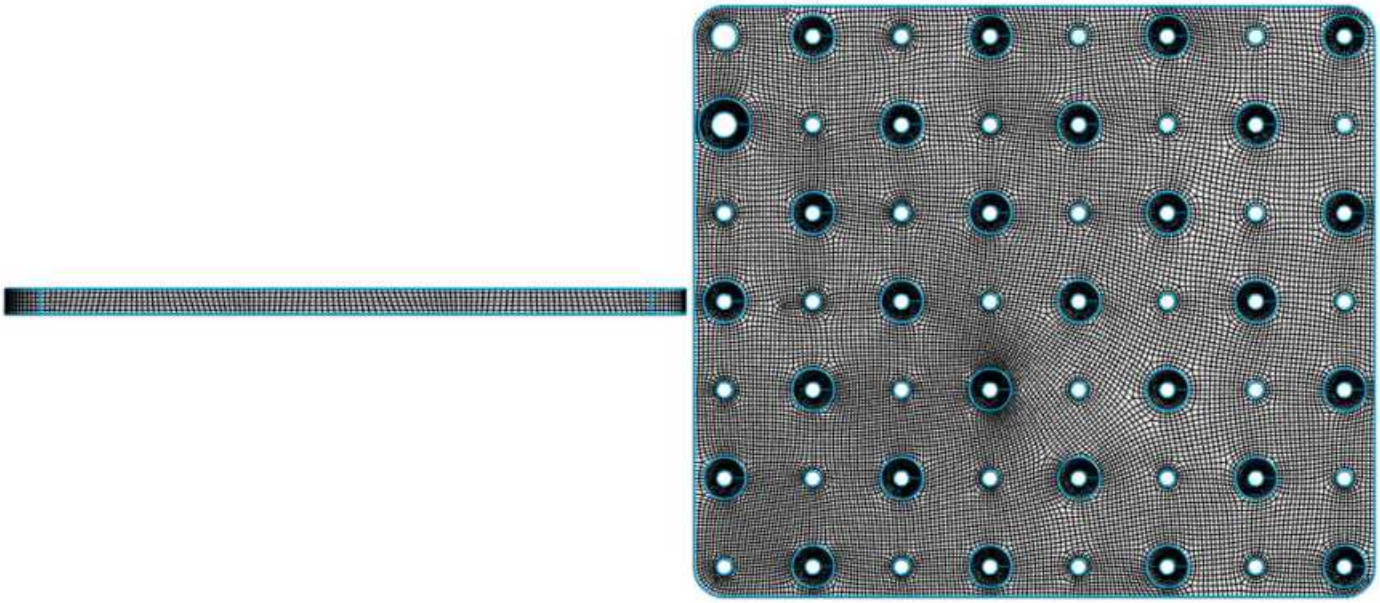
Model: 00007018 (from ABC dataset)
CAD: 155 corners, 246 curves, 93 faces
Cross field: 440 singularities detected
Timings: 54.8352 sec to generate the unstructured mesh, 54.9963 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	61318	66336	3633	529
Quasi-structured	60475	65493	732	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0916629	0.434667	1.11101	0.319795	0.932521	0.959311
Quasi-structured	0.106155	0.44012	1.28982	0.436036	0.957233	0.975942



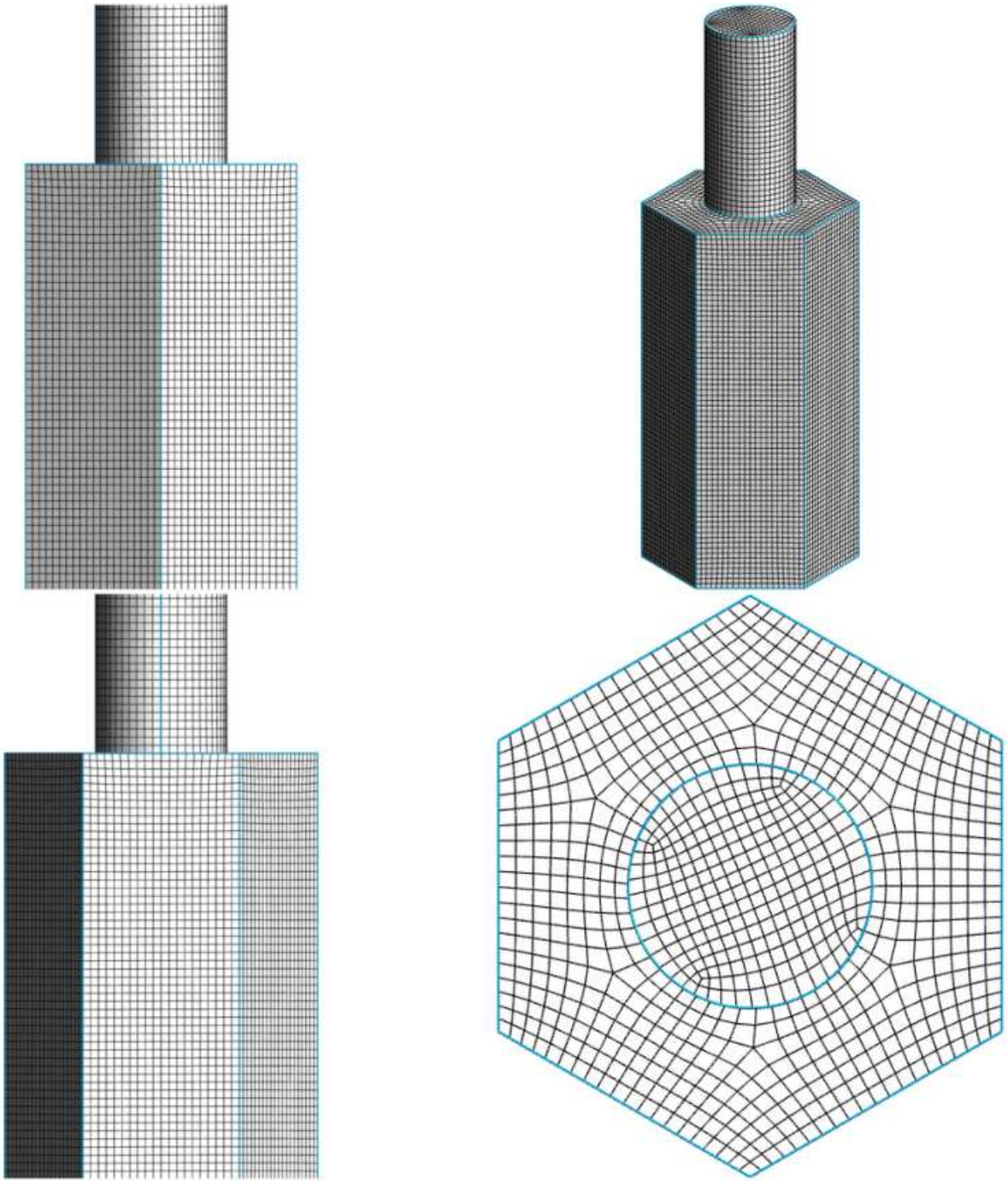


Model: 00007026 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 20 singularities detected
Timings: 9.54591 sec to generate the unstructured mesh, 1.08649 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13170	14022	102	68
Quasi-structured	13102	13954	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0450343	0.149004	0.258238	0.430184	0.988203	0.998247
Quasi-structured	0.0670278	0.149237	0.29076	0.764619	0.99616	0.99944

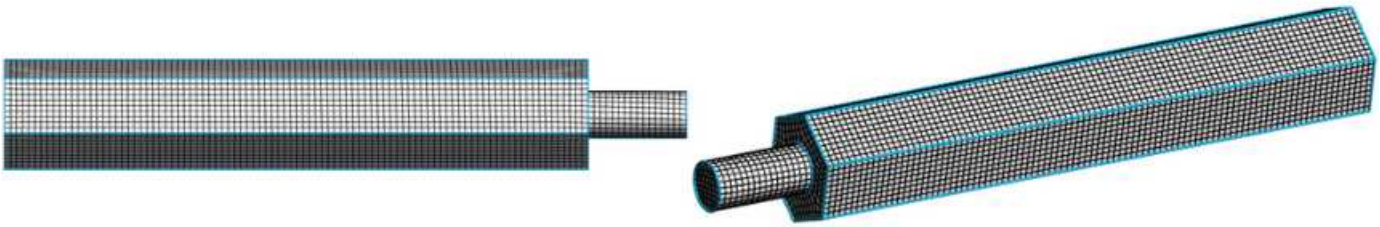


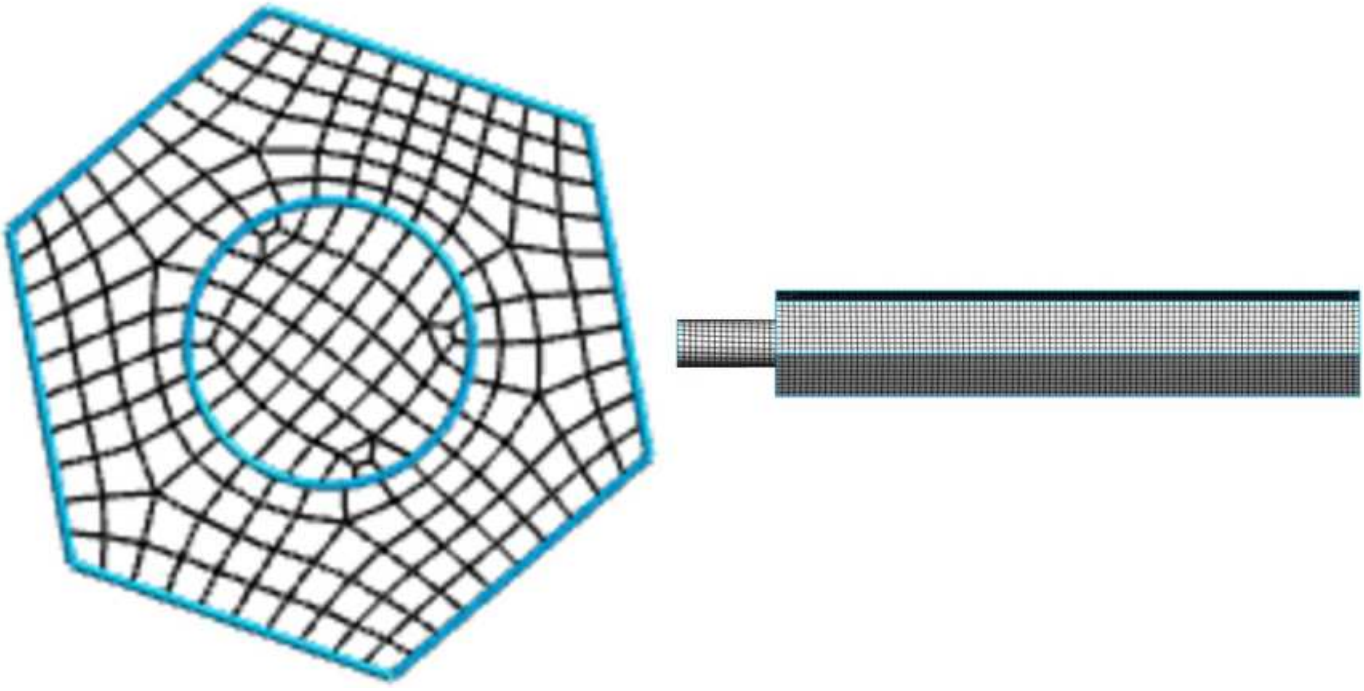
Model: 00007027 (from ABC dataset)
CAD: 17 corners, 25 curves, 12 faces
Cross field: 20 singularities detected
Timings: 4.24143 sec to generate the unstructured mesh, 0.573813 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6942	7738	51	35
Quasi-structured	6961	7757	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.125361	0.303828	0.52502	0.227172	0.986151	0.996014
Quasi-structured	0.129426	0.303236	0.52972	0.667201	0.990322	0.993973





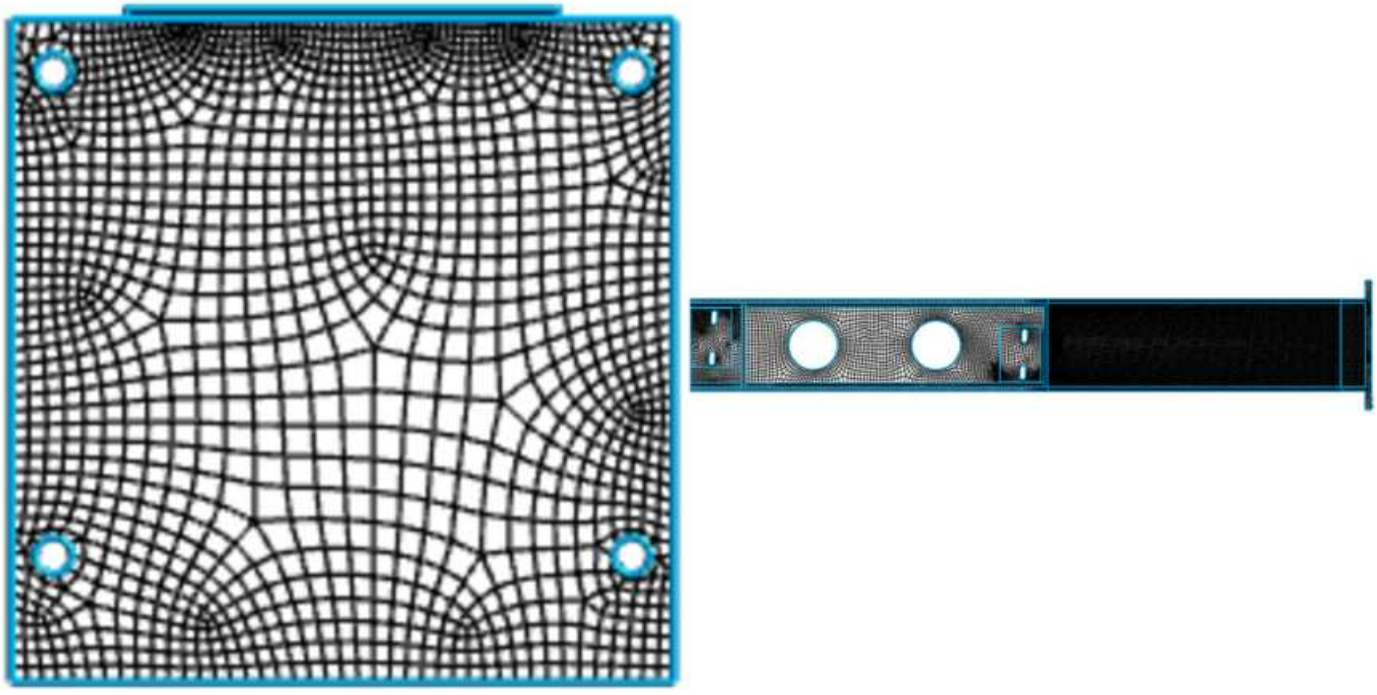
Model: 00007068 (from ABC dataset)
CAD: 176 corners, 268 curves, 95 faces
Cross field: 108 singularities detected
Timings: 11.2796 sec to generate the unstructured mesh, 225.818 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	74510	83068	3245	234
Quasi-structured	78312	86870	1116	14

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.194291	5.94443	43.1907	0.0824837	0.908913	0.972681
Quasi-structured	0.0912181	5.87809	69.2872	0.125784	0.919475	0.97663



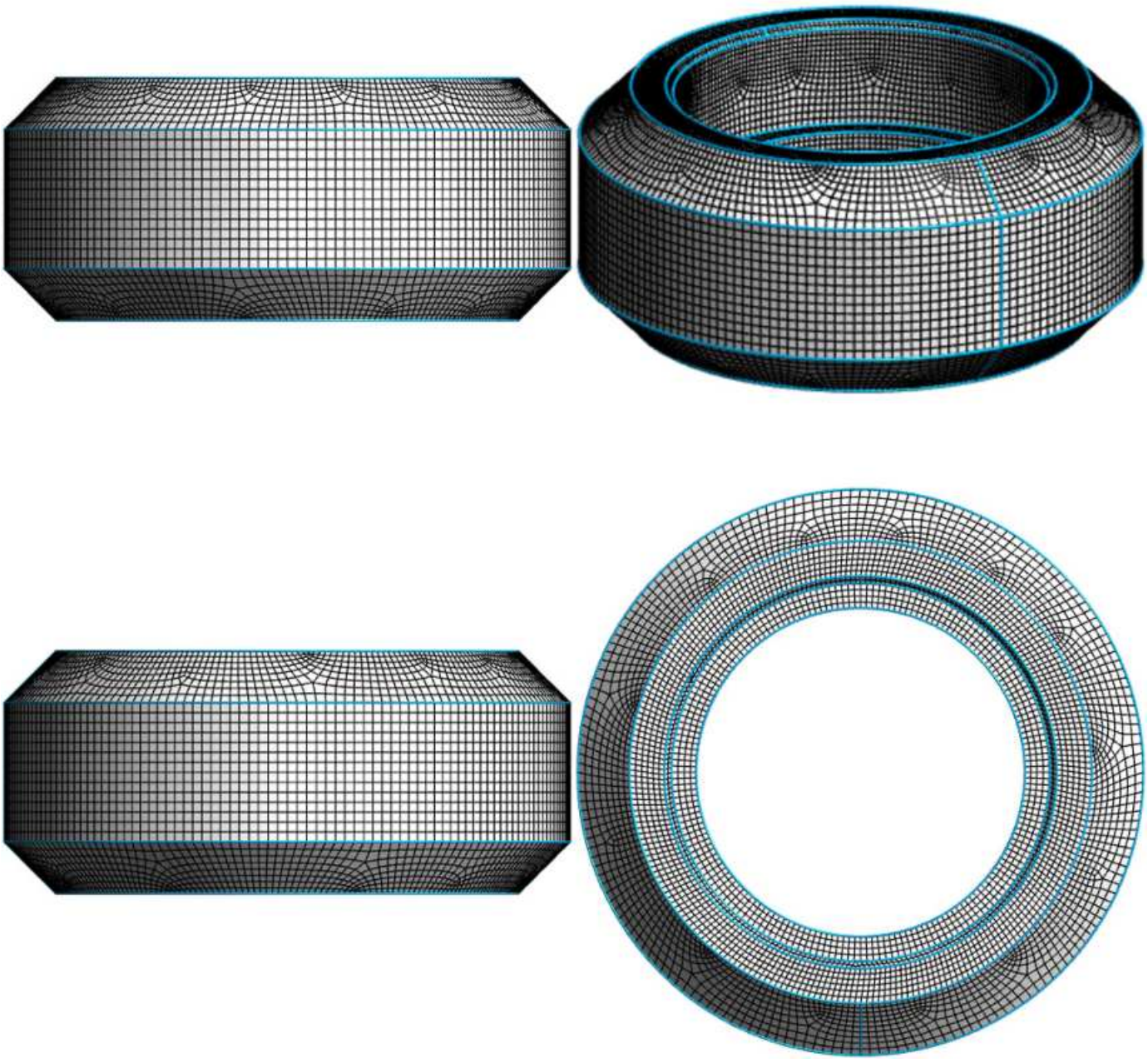


Model: 00007078 (from ABC dataset)
CAD: 13 corners, 21 curves, 12 faces
Cross field: 0 singularities detected
Timings: 12.8662 sec to generate the unstructured mesh, 9.55867 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19220	21786	279	74
Quasi-structured	19216	21782	142	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0987367	0.286642	0.606232	0.570726	0.969077	0.993723
Quasi-structured	0.118152	0.284494	0.660599	0.638227	0.985024	0.992727

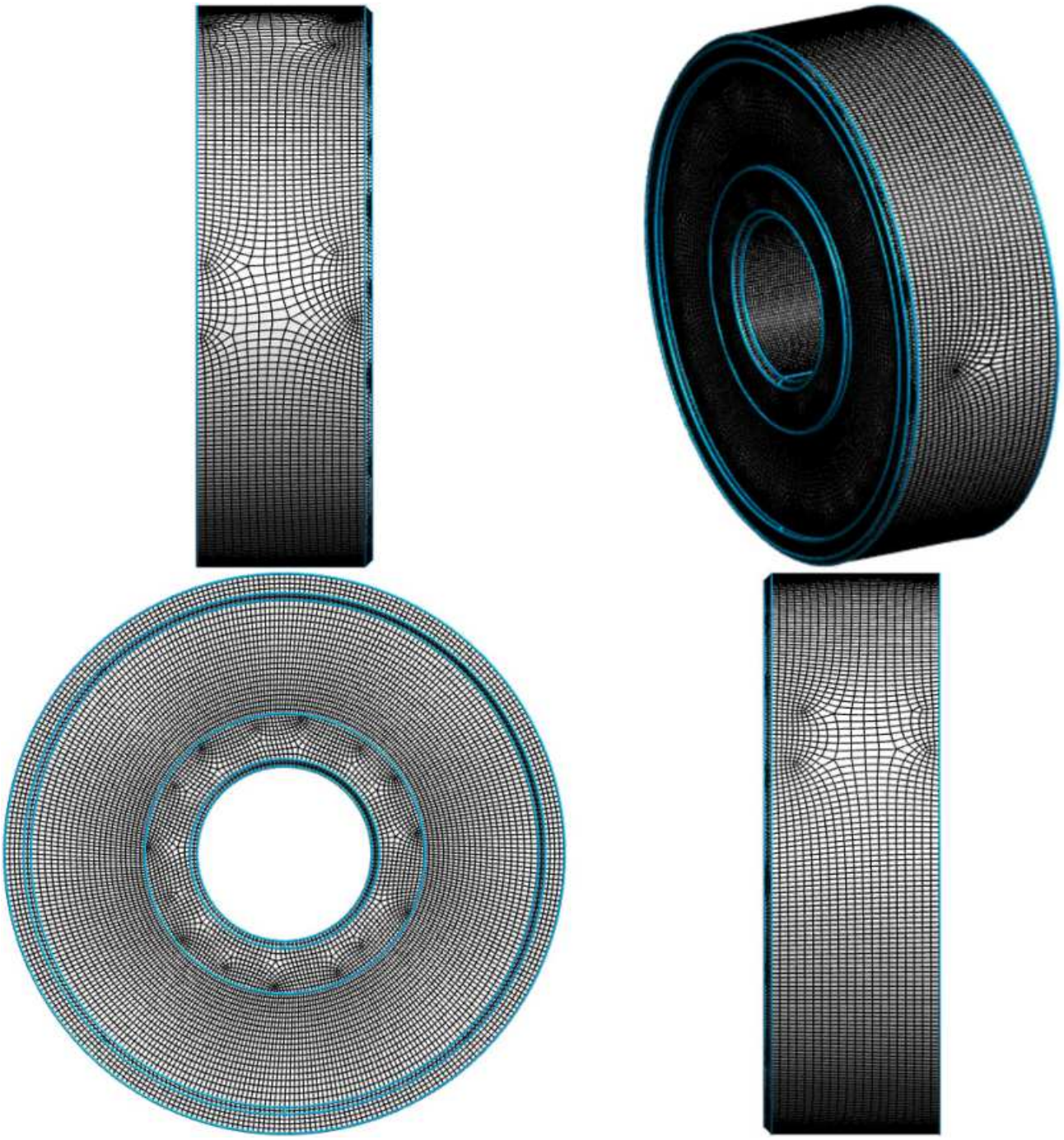


Model: 00007079 (from ABC dataset)
CAD: 15 corners, 24 curves, 15 faces
Cross field: 0 singularities detected
Timings: 14.1722 sec to generate the unstructured mesh, 57.3834 sec to make it quasi-structured
Mesh topology:

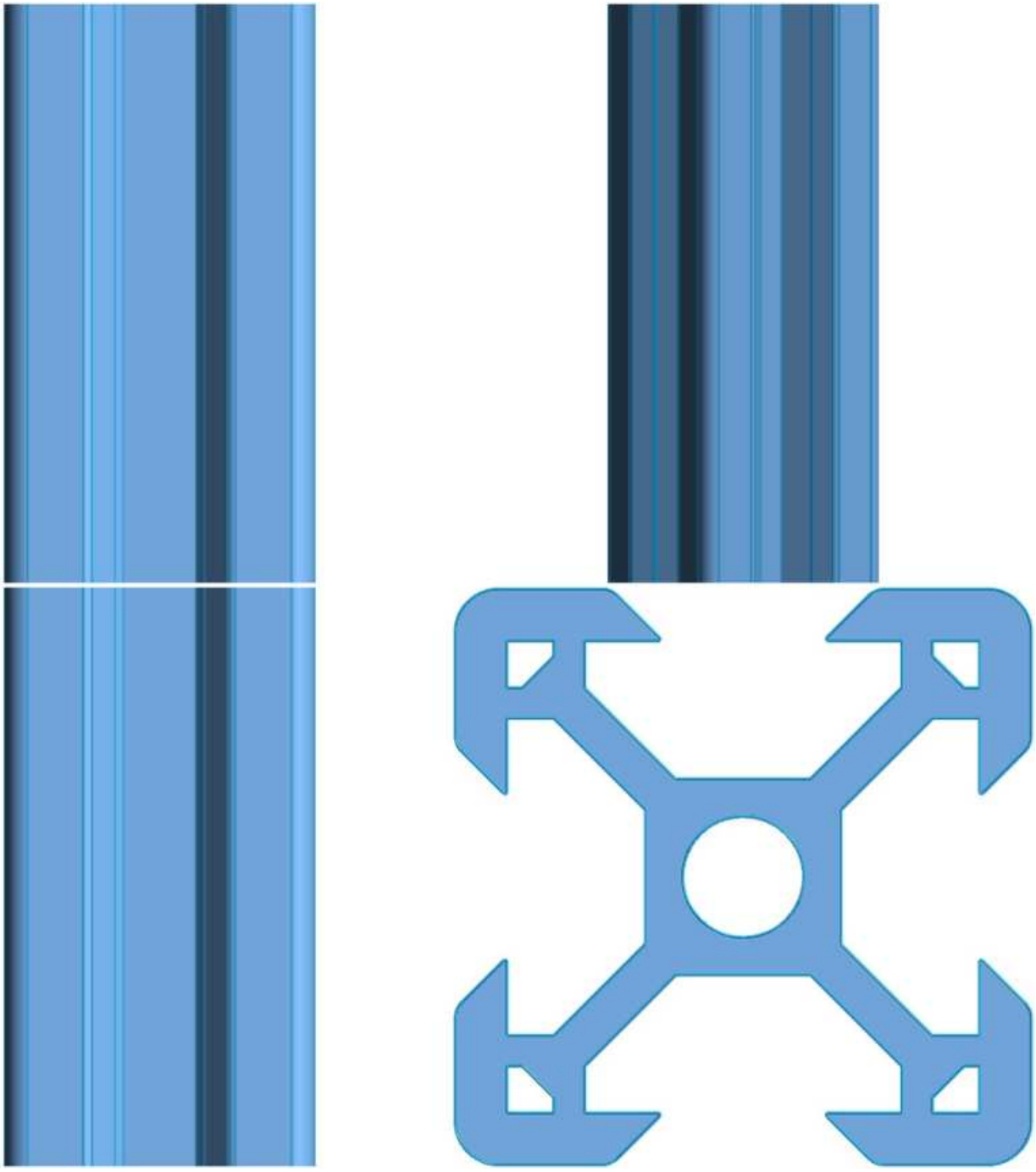
	# quads	# vertices	# irregular	# very irregular
Unstructured	34190	38550	1149	190
Quasi-structured	37472	41832	280	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0421835	0.137508	0.420266	0.517659	0.947214	0.987606
Quasi-structured	0.0124345	0.135057	0.524063	0.187856	0.940941	0.967103



Model: 00007081 (from ABC dataset)
Error: failed to build quadrilateral mesh

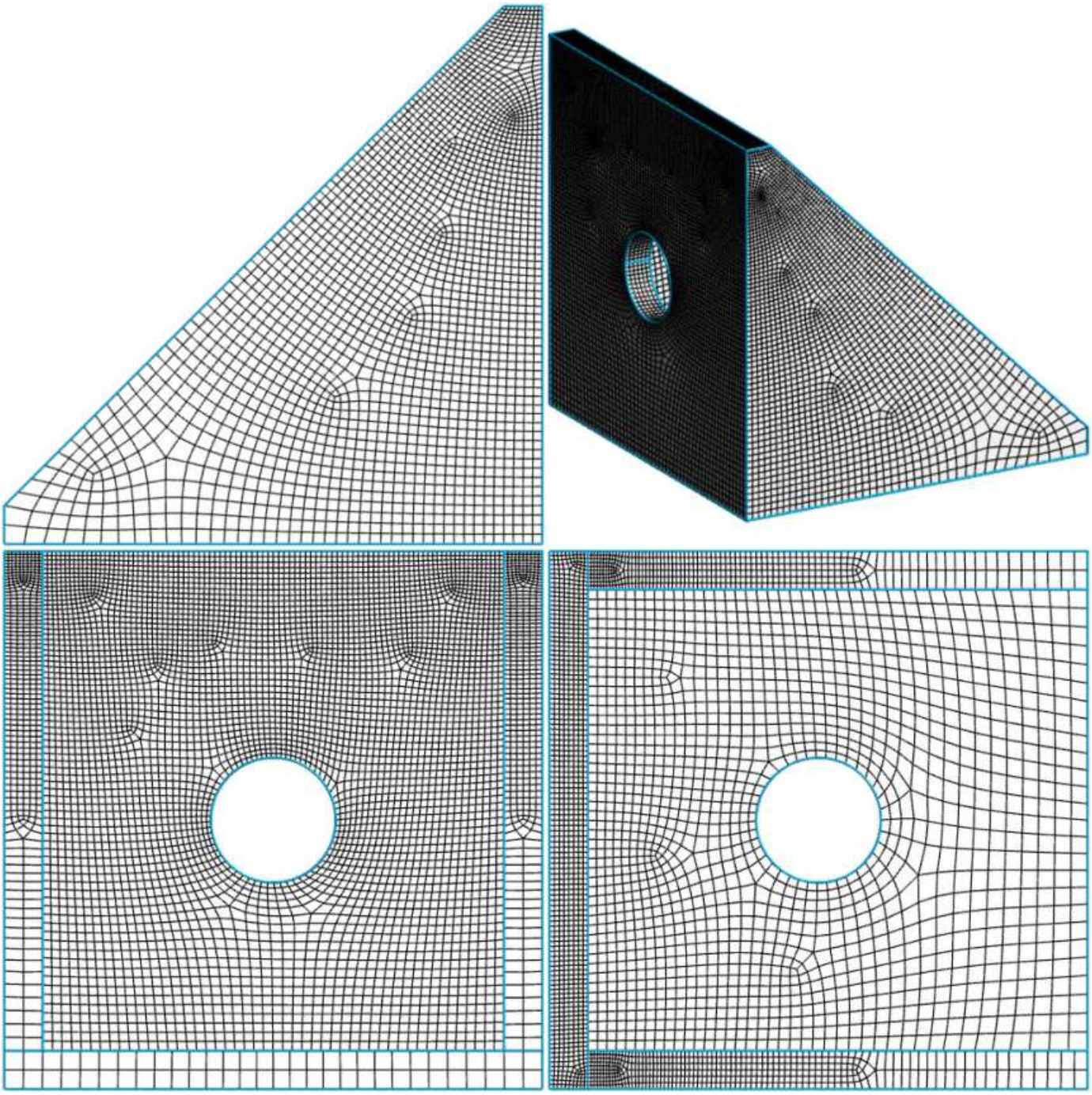


Model: 00007093 (from ABC dataset)
CAD: 22 corners, 34 curves, 14 faces
Cross field: 18 singularities detected
Timings: 18.1624 sec to generate the unstructured mesh, 7.97034 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24530	25962	447	16
Quasi-structured	24394	25826	132	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.089101	0.405832	1.44023	0.487489	0.979863	0.996438
Quasi-structured	0.0780748	0.406365	1.73268	0.54858	0.986014	0.996569

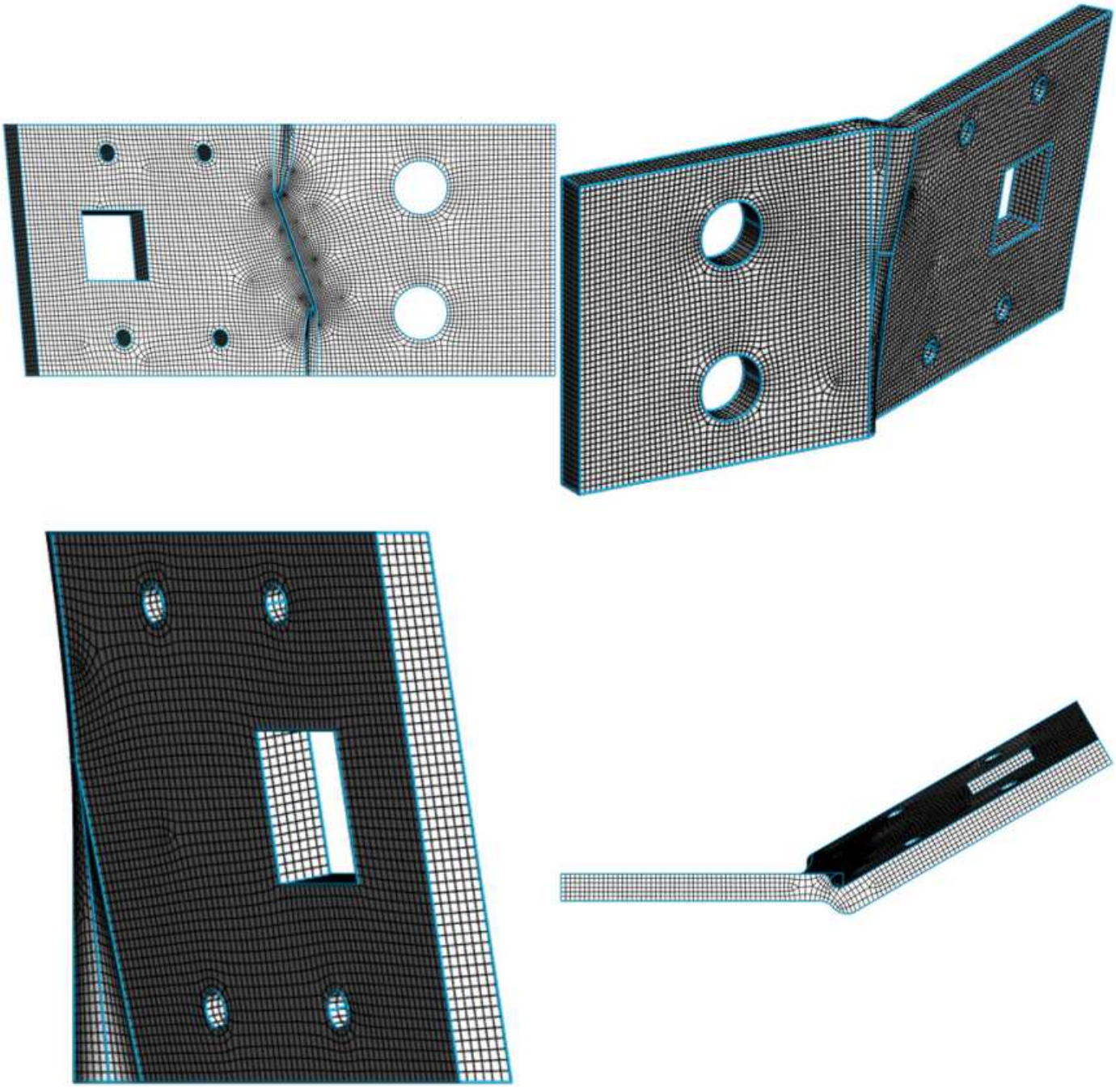


Model: 00007118 (from ABC dataset)
CAD: 49 corners, 78 curves, 29 faces
Cross field: 63 singularities detected
Timings: 13.2904 sec to generate the unstructured mesh, 8.70307 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17204	18937	554	65
Quasi-structured	17812	19545	204	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00259355	0.483654	1.32191	0.00509364	0.949961	0.987605
Quasi-structured	0.00465077	0.473781	1.02536	0.0139892	0.964934	0.992608

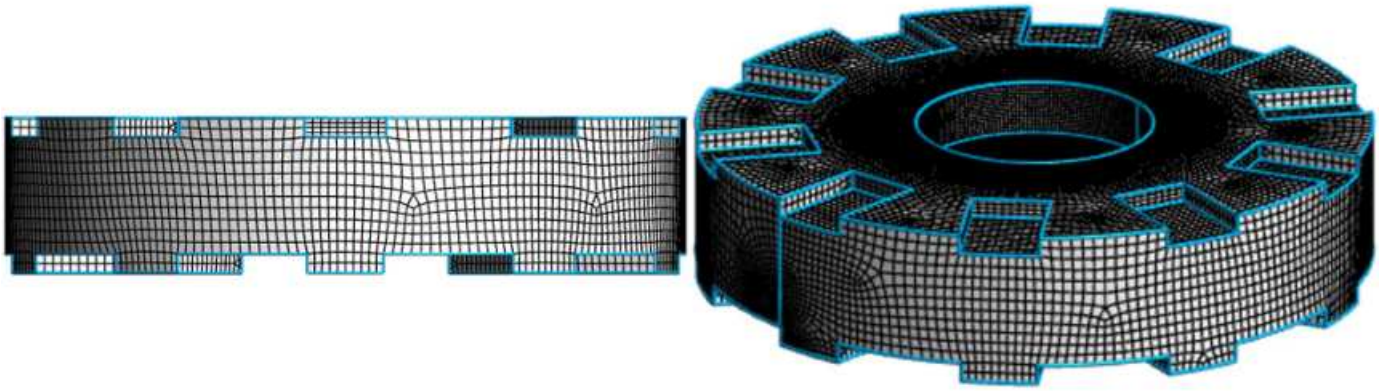


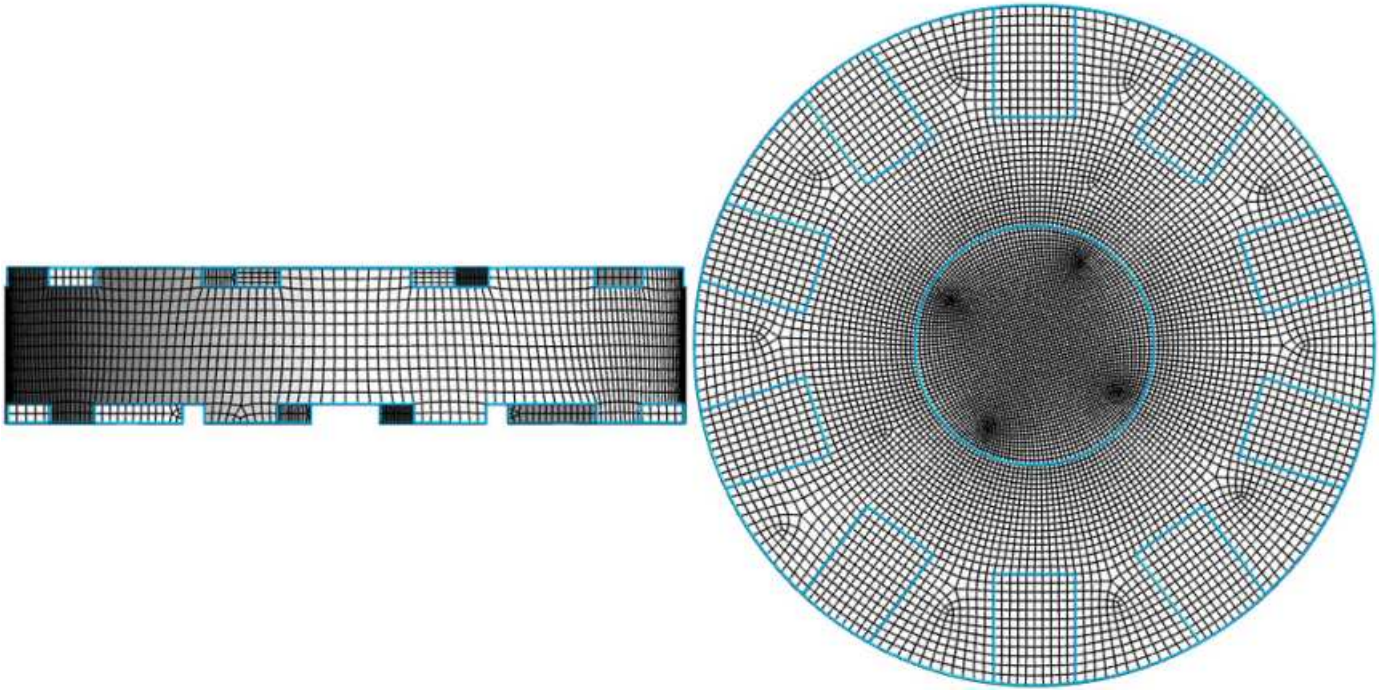
Model: 00007127 (from ABC dataset)
CAD: 163 corners, 245 curves, 85 faces
Cross field: 8 singularities detected
Timings: 16.9827 sec to generate the unstructured mesh, 5.51856 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22354	24936	554	46
Quasi-structured	23127	25709	164	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.054493	0.640459	1.98214	0.375707	0.959291	0.987597
Quasi-structured	0.0826258	0.627778	1.69814	0.556748	0.981474	0.993716



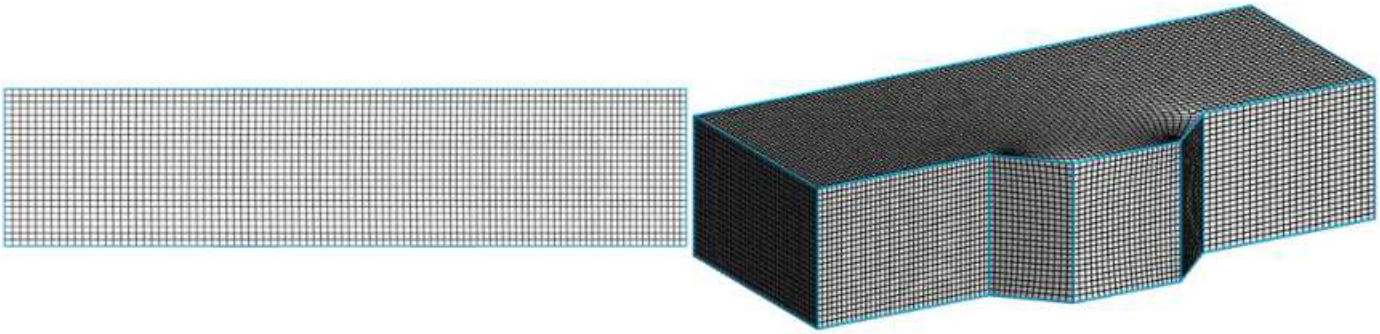


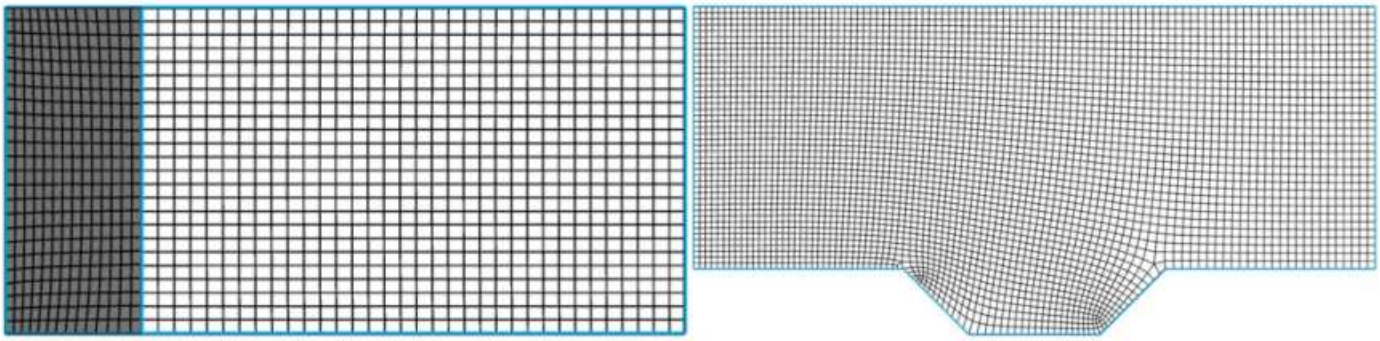
Model: 00007128 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 5 singularities detected
Timings: 11.5301 sec to generate the unstructured mesh, 1.87634 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14914	15688	72	0
Quasi-structured	15188	15962	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	57.3059	157.711	283.993	0.674794	0.988516	0.996524
Quasi-structured	56.4163	156.084	321.07	0.751064	0.994571	0.998098



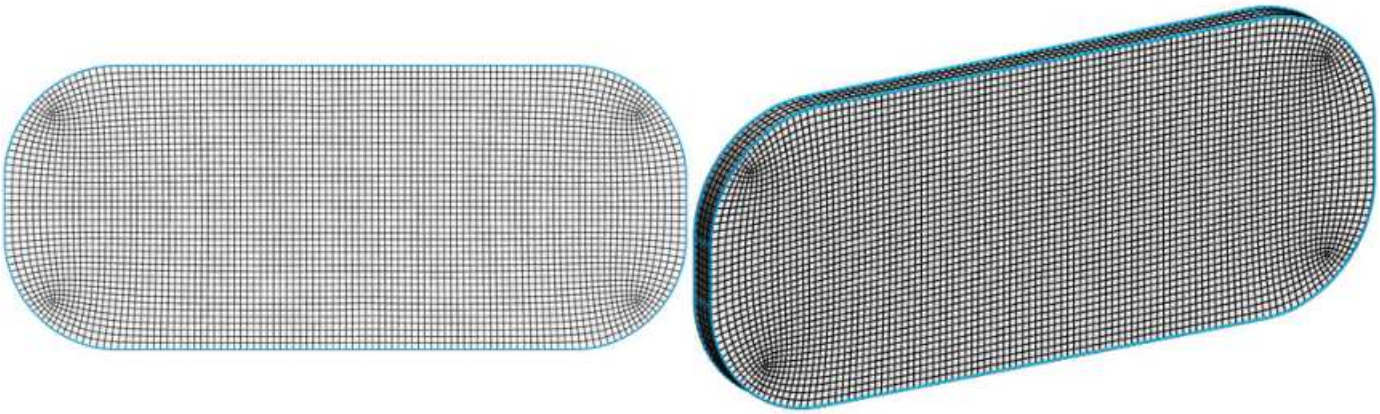


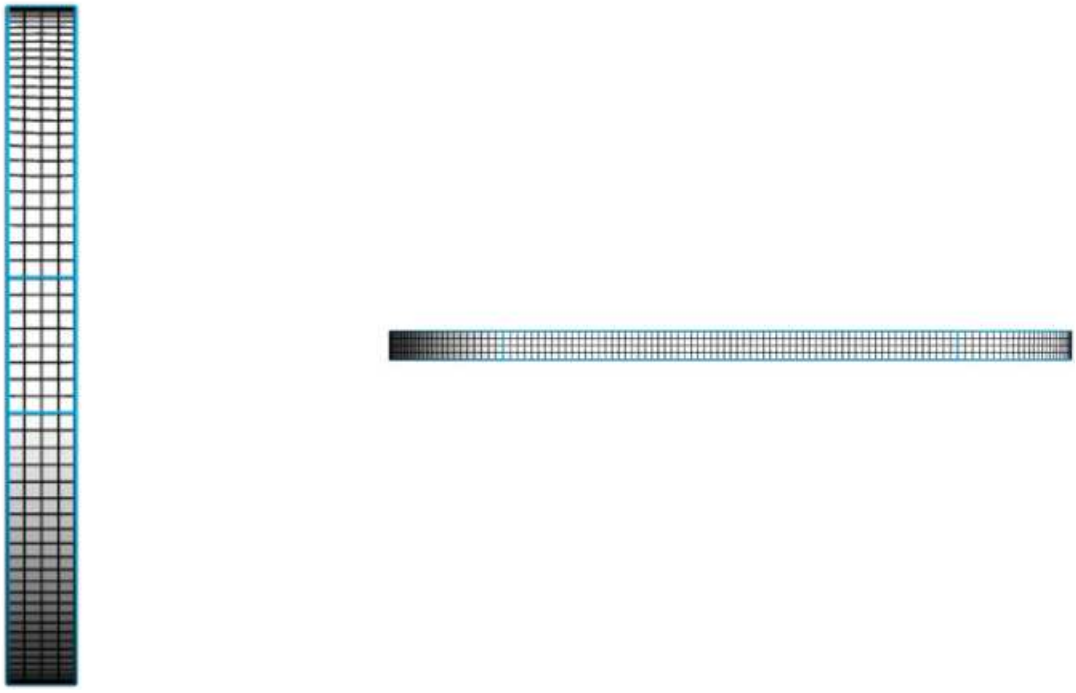
Model: 00007140 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 8.31336 sec to generate the unstructured mesh, 1.41285 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9966	10520	28	2
Quasi-structured	9974	10528	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.172719	0.56756	0.75799	0.638358	0.986912	0.999777
Quasi-structured	0.218523	0.565827	0.723985	0.857509	0.998152	0.999633



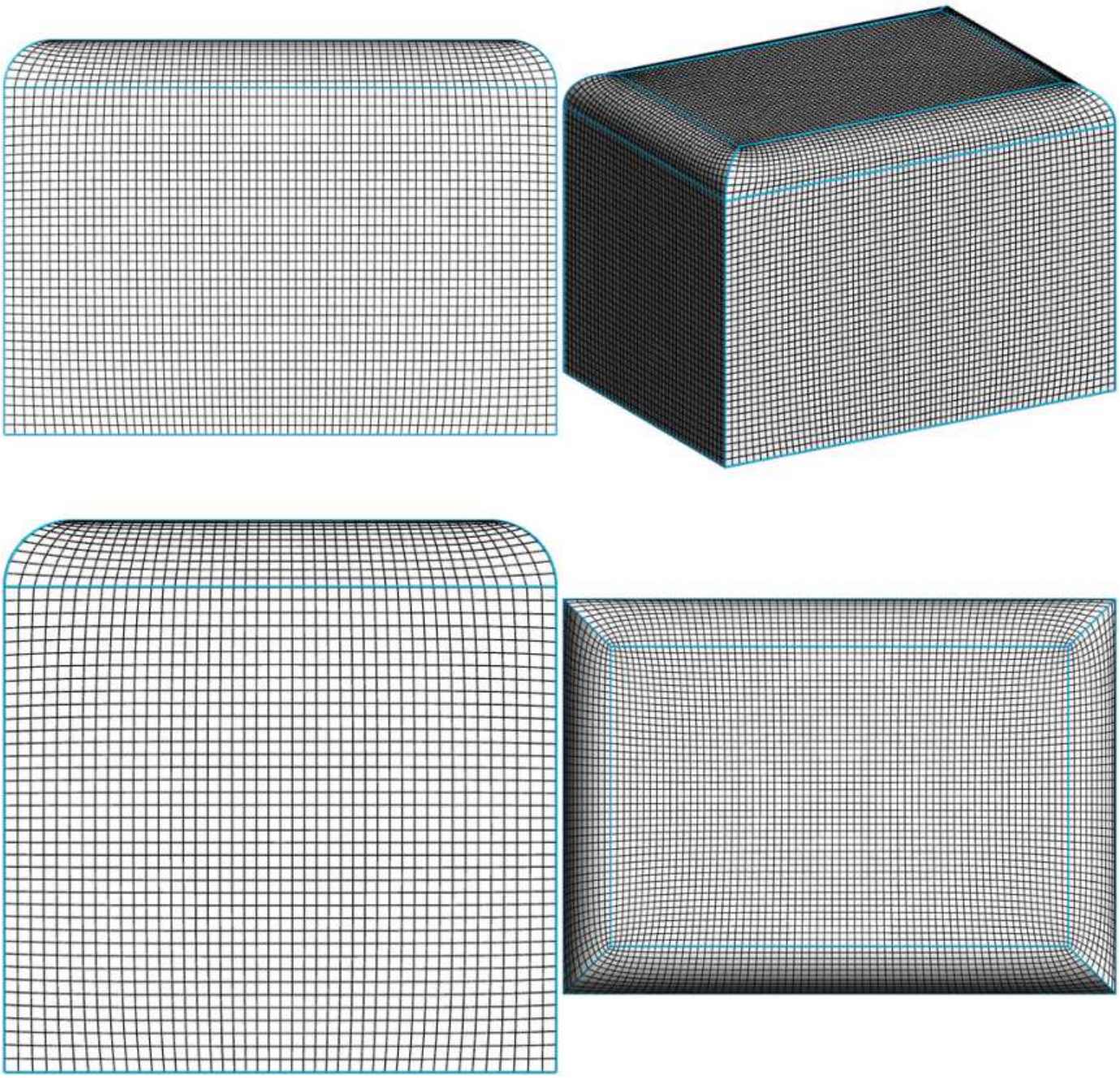


Model: 00007144 (from ABC dataset)
CAD: 20 corners, 32 curves, 15 faces
Cross field: 4 singularities detected
Timings: 17.2367 sec to generate the unstructured mesh, 1.99681 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26610	28088	93	0
Quasi-structured	26440	27918	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0973782	0.427845	0.91686	0.457197	0.967667	0.990723
Quasi-structured	0.107383	0.429603	0.936832	0.704134	0.98659	0.994699

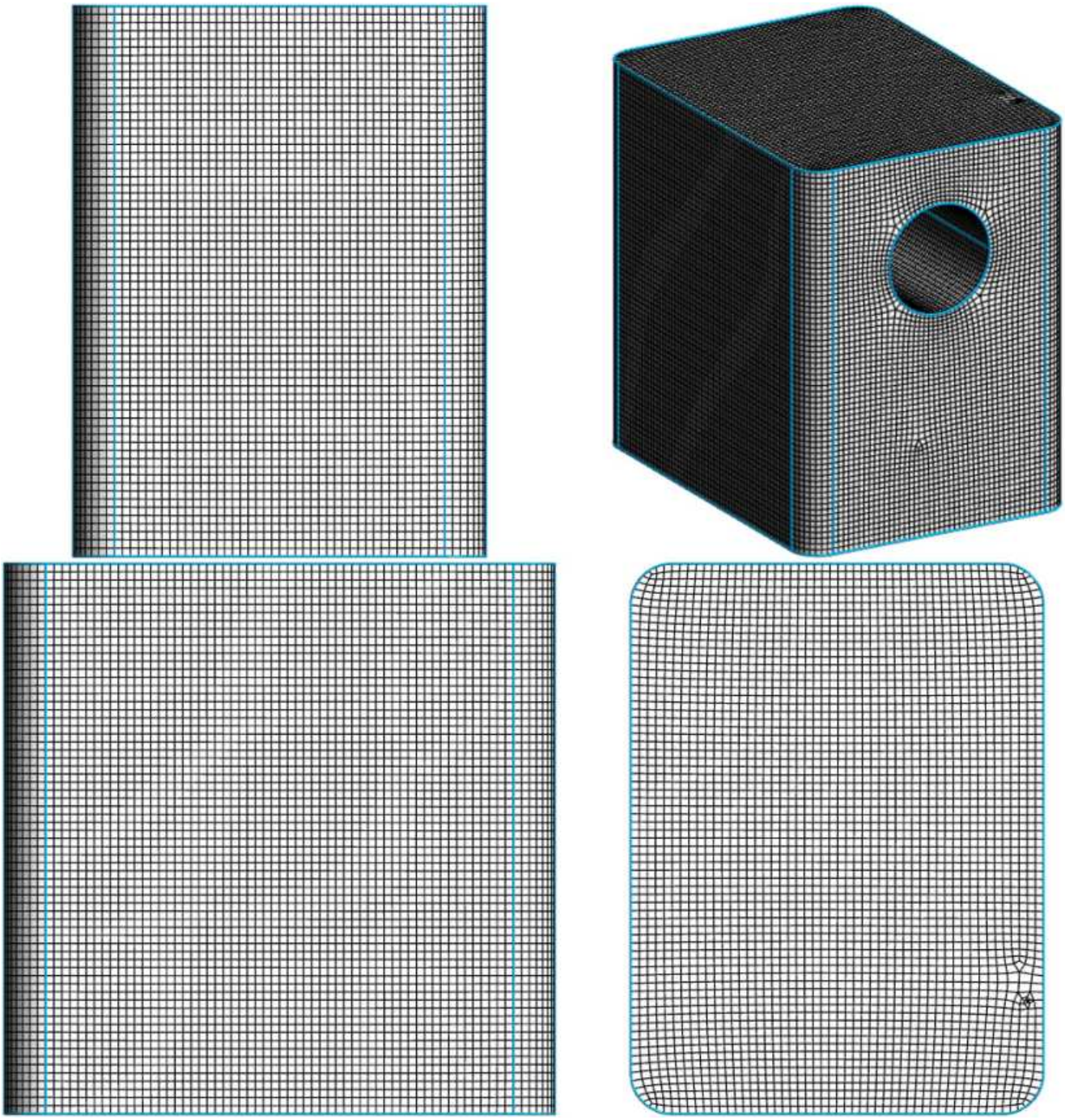


Model: 00007150 (from ABC dataset)
CAD: 18 corners, 27 curves, 12 faces
Cross field: 16 singularities detected
Timings: 14.1871 sec to generate the unstructured mesh, 2.23318 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25514	26672	158	44
Quasi-structured	25866	27024	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.03959	5.76714	11.0788	0.207607	0.991175	0.999736
Quasi-structured	0.758217	5.72279	10.6342	0.585865	0.997501	0.999649



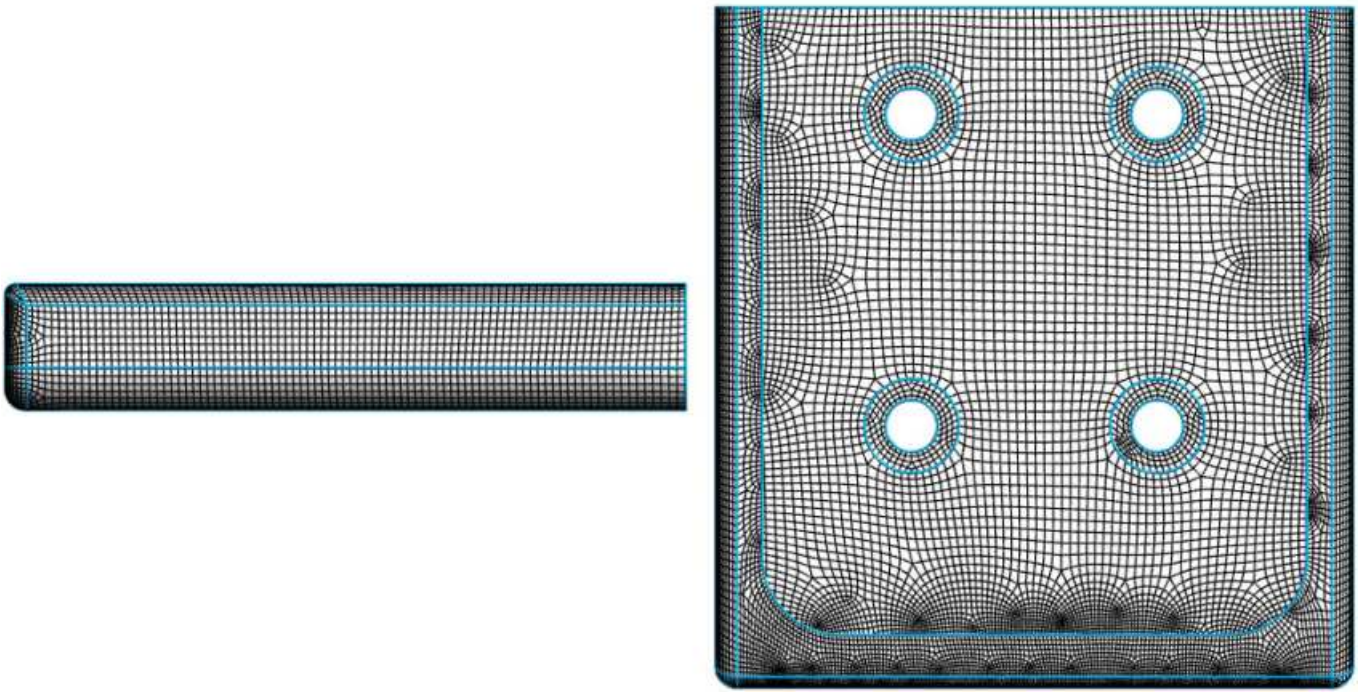
Model: 00007152 (from ABC dataset)
CAD: 96 corners, 160 curves, 64 faces
Cross field: 72 singularities detected
Timings: 25.2727 sec to generate the unstructured mesh, 226.329 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	53438	60952	2468	120
Quasi-structured	54421	61935	1003	3

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00667414	0.523014	1.93358	0.08706	0.931504	0.973543
Quasi-structured	0.00100475	0.51926	2.06214	0.08706	0.934127	0.977536



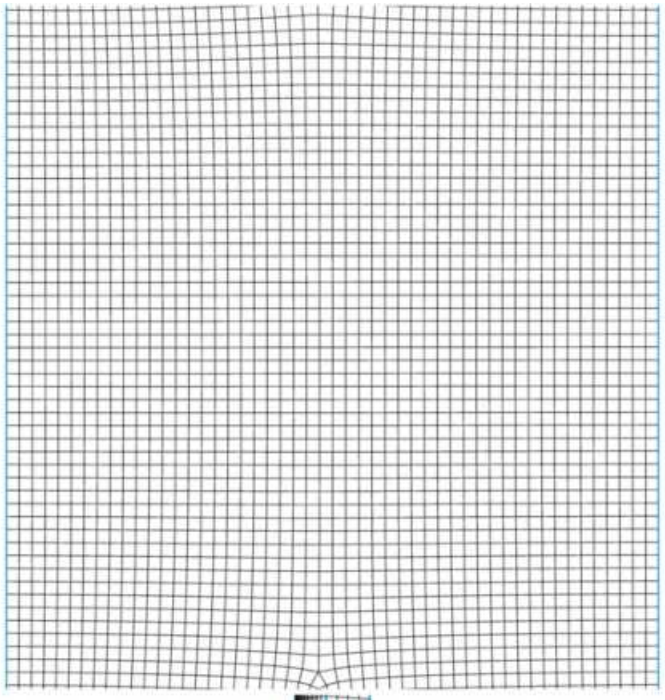
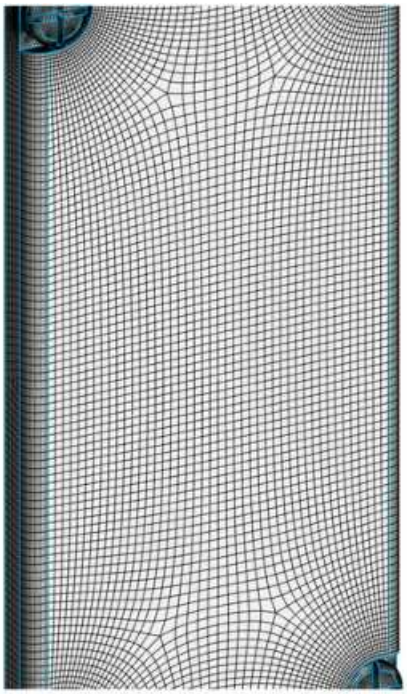
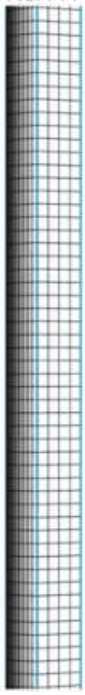
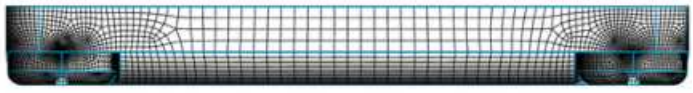


Model: 00007165 (from ABC dataset)
CAD: 163 corners, 259 curves, 102 faces
Cross field: 40 singularities detected
Timings: 16.9286 sec to generate the unstructured mesh, 27.7566 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36286	40970	2192	135
Quasi-structured	37018	41702	640	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0126577	0.191427	0.716136	0.0800978	0.917243	0.972146
Quasi-structured	0.00834107	0.18783	0.972955	0.251666	0.924906	0.96471

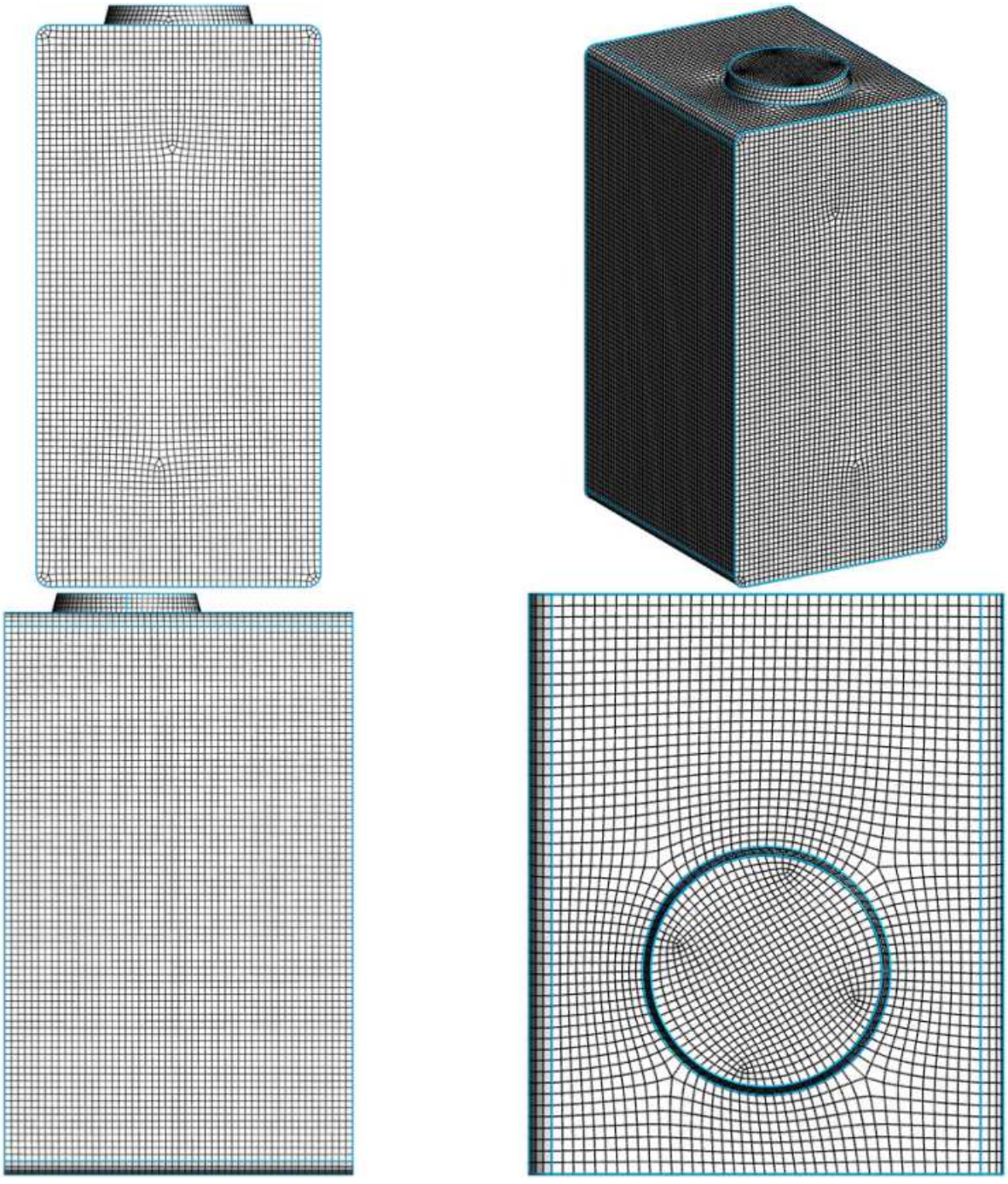





Model: 00007166 (from ABC dataset)
CAD: 19 corners, 28 curves, 12 faces
Cross field: 16 singularities detected
Timings: 13.7194 sec to generate the unstructured mesh, 2.18271 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21146	22248	78	4
Quasi-structured	21230	22332	44	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.134253	0.483096	0.781497	0.382683	0.993374	0.999891
Quasi-structured	0.163421	0.481656	0.953781	0.760523	0.996439	0.999899

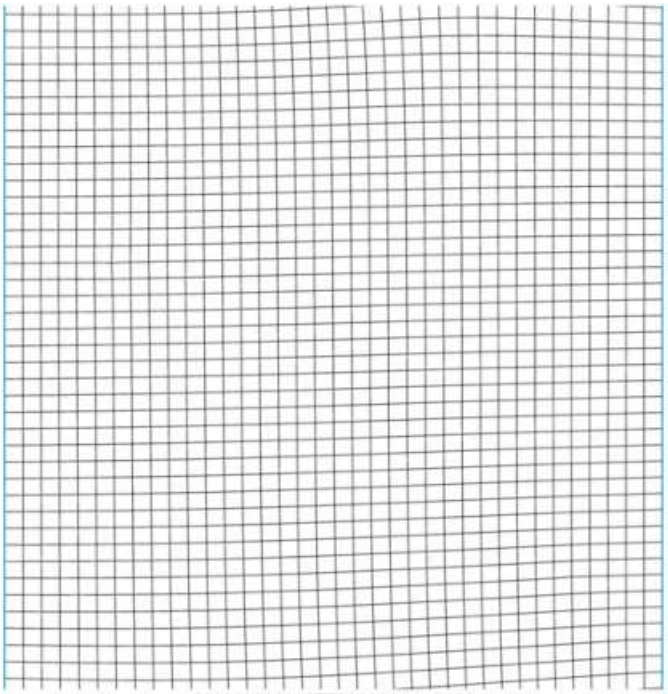


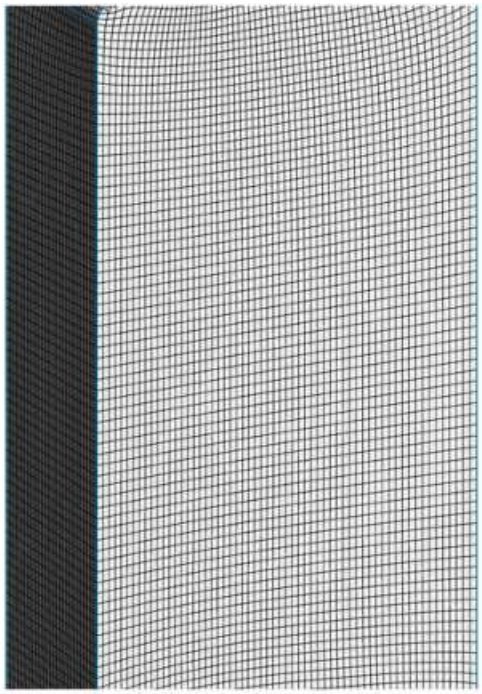
Model: 00007168 (from ABC dataset)
CAD: 140 corners, 222 curves, 84 faces
Cross field: 109 singularities detected
Timings: 14 sec to generate the unstructured mesh, 20.9618 sec to make it quasi-structured
Mesh topology:

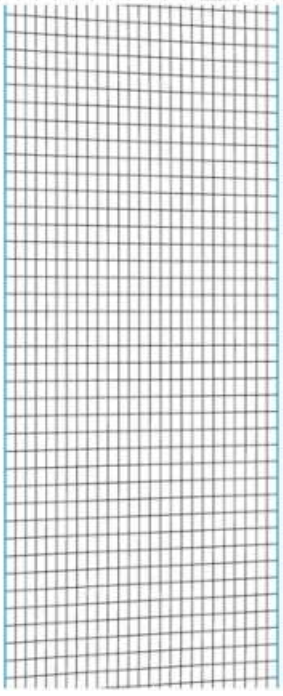
	# quads	# vertices	# irregular	# very irregular
Unstructured	48278	53860	1980	72
Quasi-structured	51215	56797	520	0

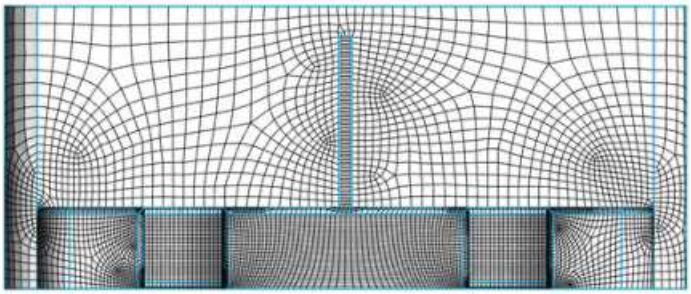
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000227876	0.217021	0.916328	0.00531545	0.905663	0.945529
Quasi-structured	0.00664035	0.215063	1.1074	0.175127	0.909006	0.923018







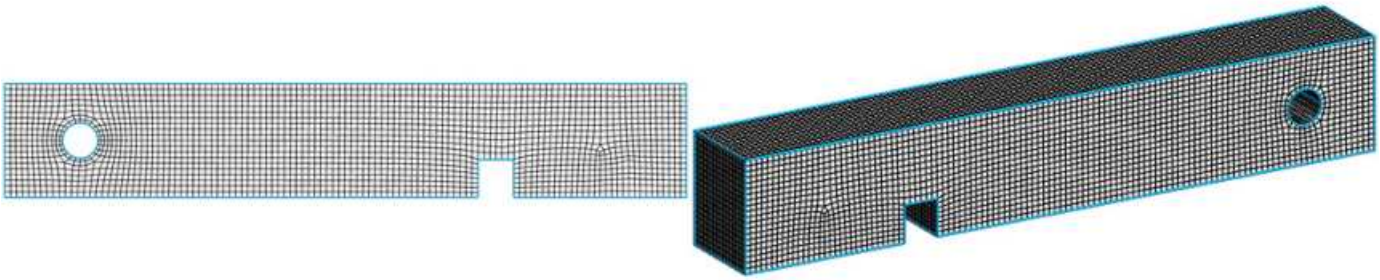


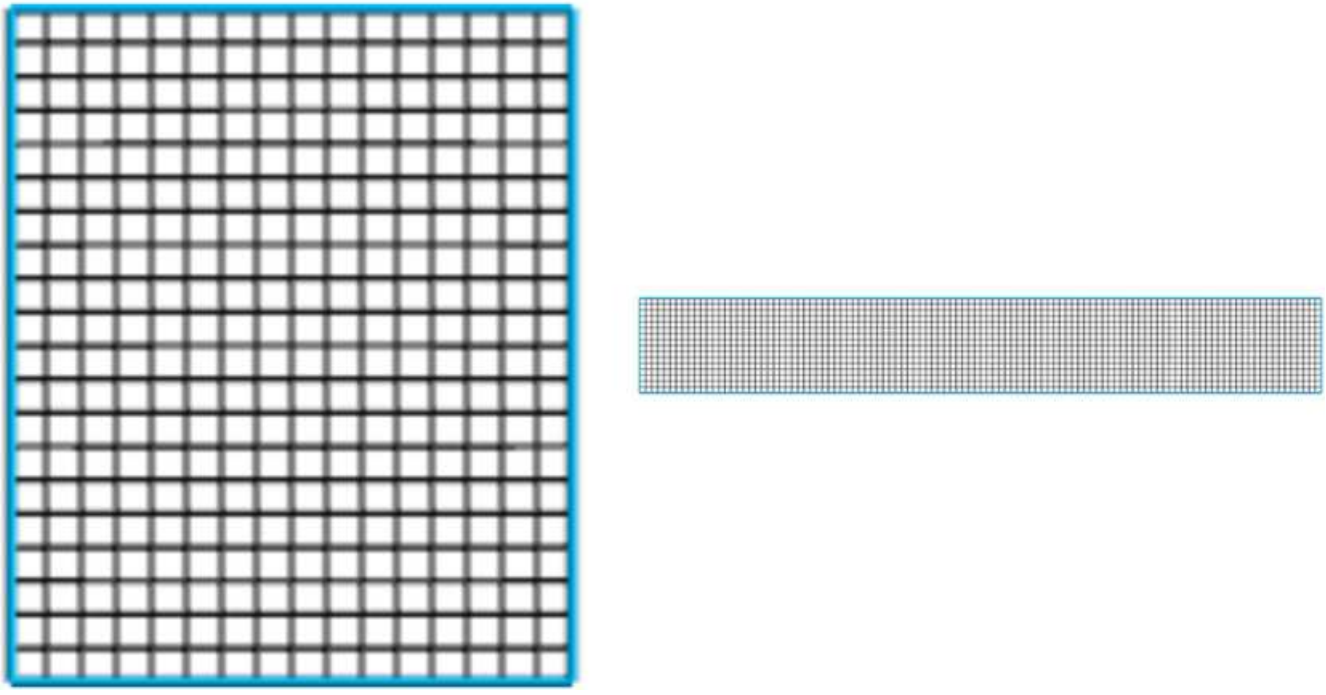
Model: 00007185 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 8 singularities detected
Timings: 5.42224 sec to generate the unstructured mesh, 0.571116 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9200	9948	62	23
Quasi-structured	9466	10214	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.126068	0.394277	0.563865	0.520941	0.98986	0.999601
Quasi-structured	0.192166	0.388597	0.60375	0.721793	0.995441	0.999005



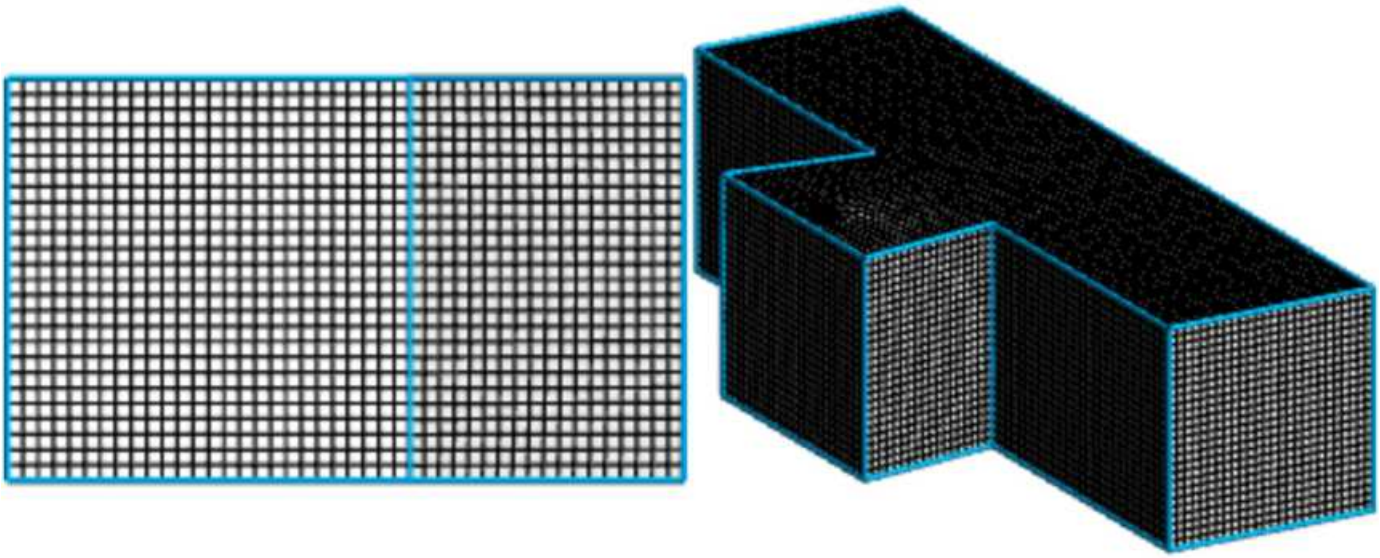


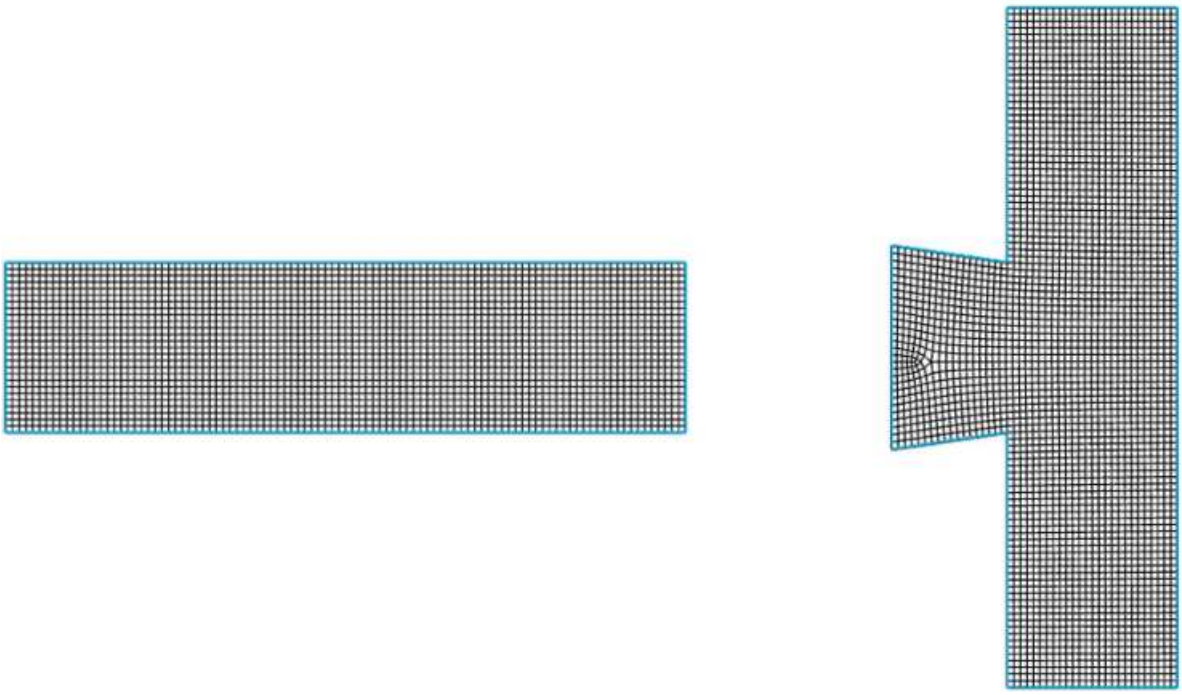
Model: 00007186 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 8.4011 sec to generate the unstructured mesh, 1.31667 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13616	14418	38	1
Quasi-structured	13704	14506	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.103643	0.249903	0.363899	0.646567	0.994839	0.999474
Quasi-structured	0.127342	0.249106	0.422423	0.821398	0.997791	0.999337



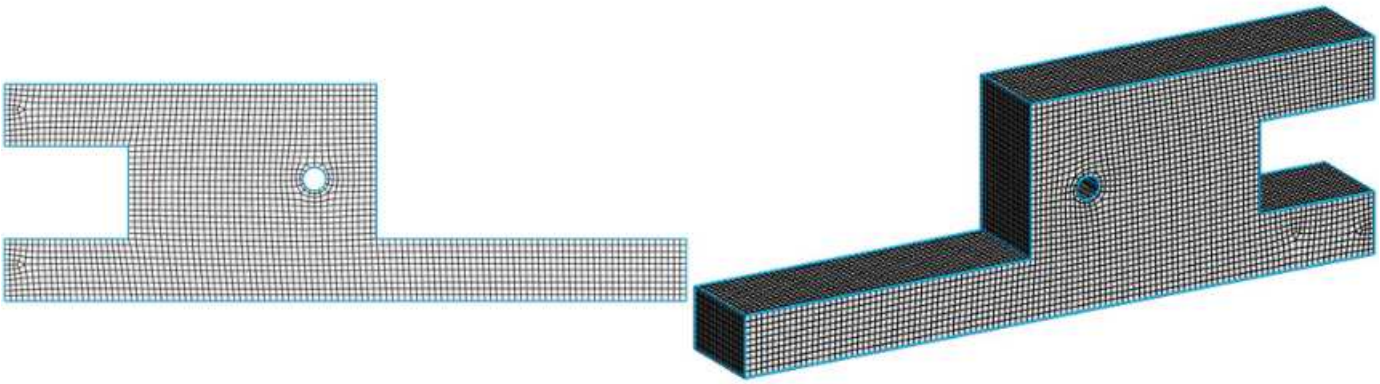


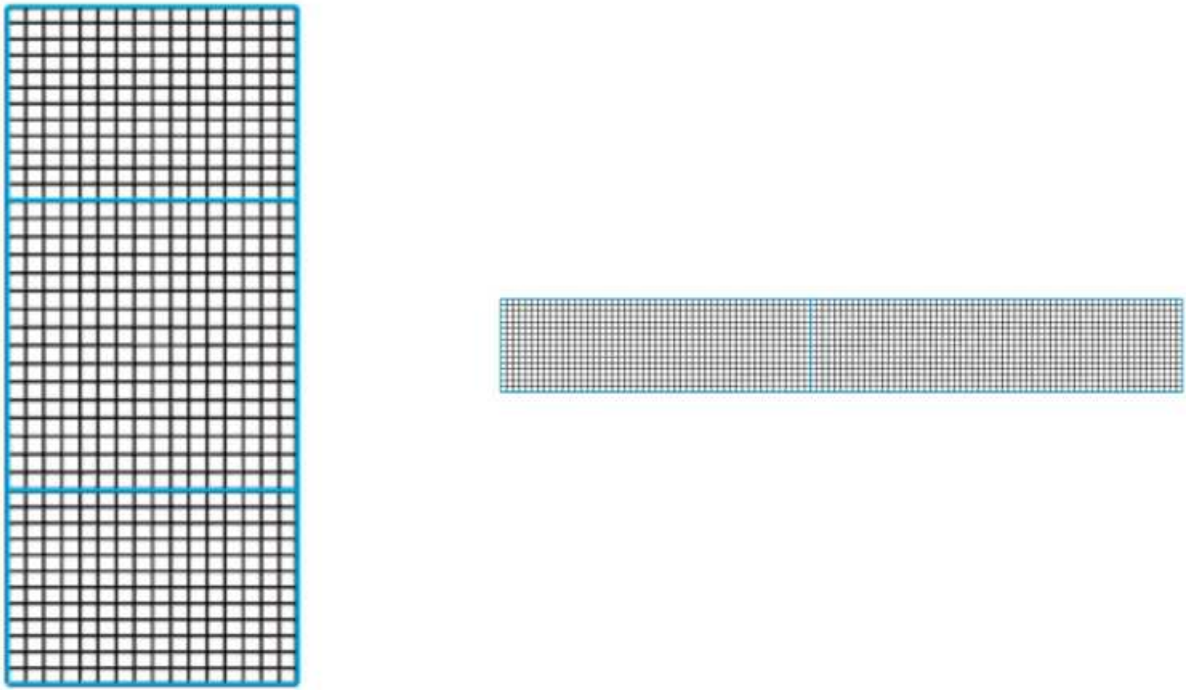
Model: 00007189 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 8 singularities detected
Timings: 7.03269 sec to generate the unstructured mesh, 1.39224 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10618	11508	62	24
Quasi-structured	10792	11682	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.223238	0.607332	1.00624	0.521067	0.989423	0.999043
Quasi-structured	0.309304	0.601721	0.921226	0.686543	0.995832	0.998684



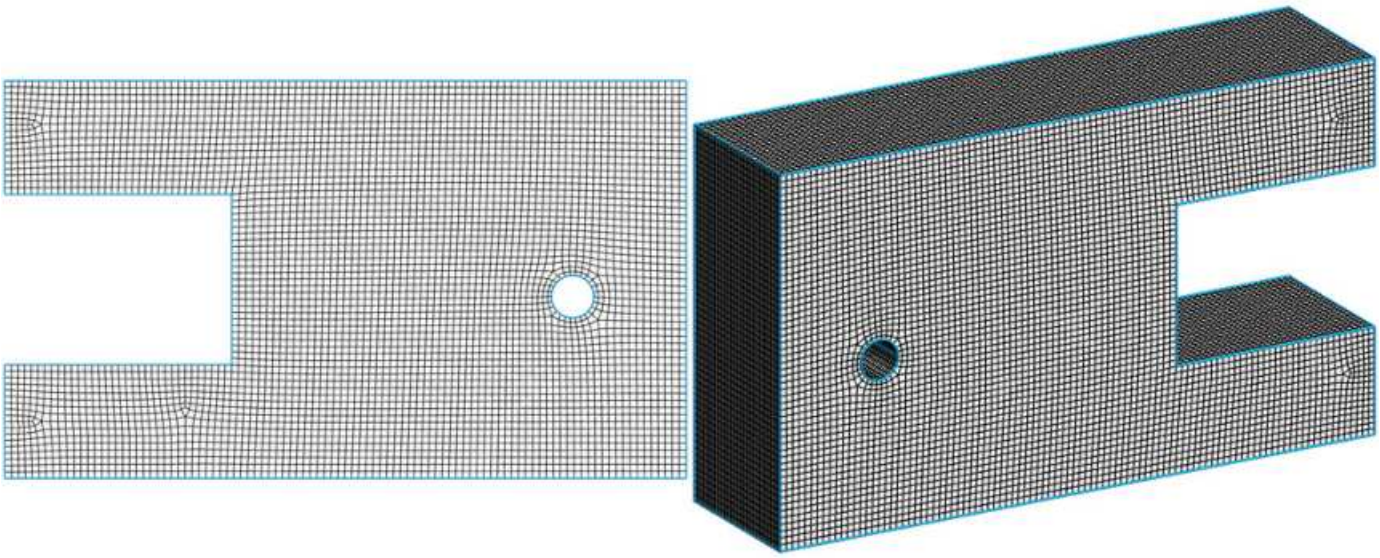


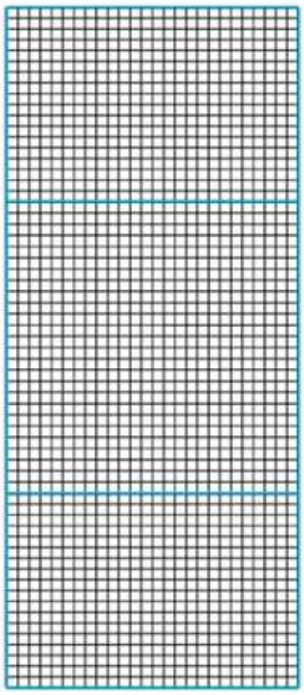
Model: 00007191 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 8 singularities detected
Timings: 13.4364 sec to generate the unstructured mesh, 2.17357 sec to make it quasi-structured
Mesh topology:

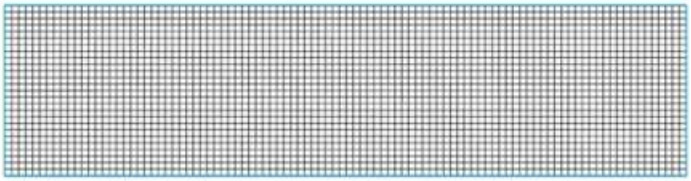
	# quads	# vertices	# irregular	# very irregular
Unstructured	20338	21370	76	33
Quasi-structured	20438	21470	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.113813	0.377996	0.577354	0.539462	0.991532	0.998369
Quasi-structured	0.224144	0.376513	0.562092	0.801083	0.997891	0.998581





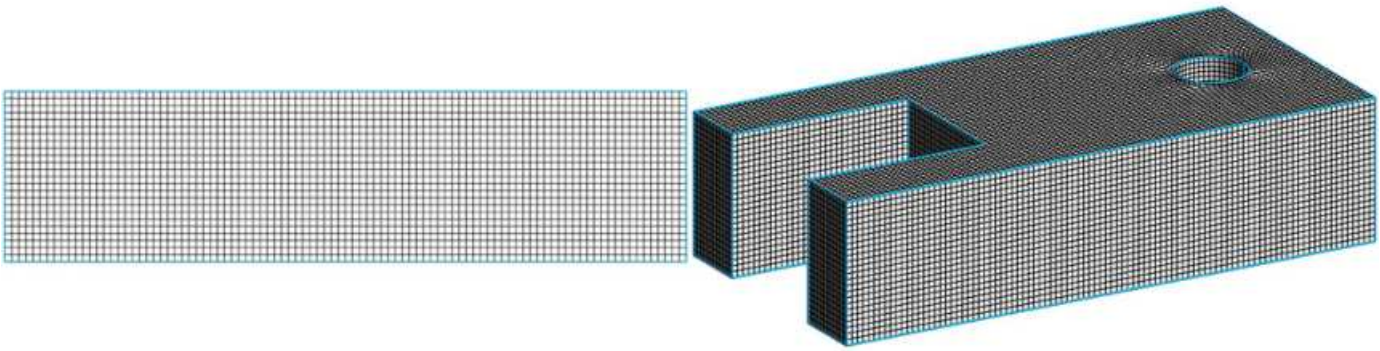


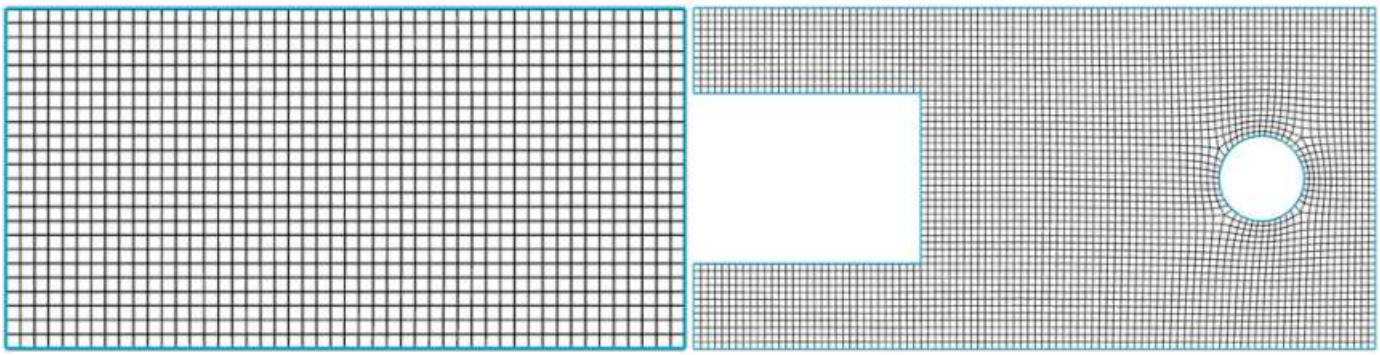
Model: 00007192 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 8 singularities detected
Timings: 8.64335 sec to generate the unstructured mesh, 1.02718 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17180	18176	54	31
Quasi-structured	17298	18294	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.139941	0.392376	0.658863	0.587175	0.994378	0.999973
Quasi-structured	0.244121	0.390633	0.635445	0.793532	0.998913	0.999987



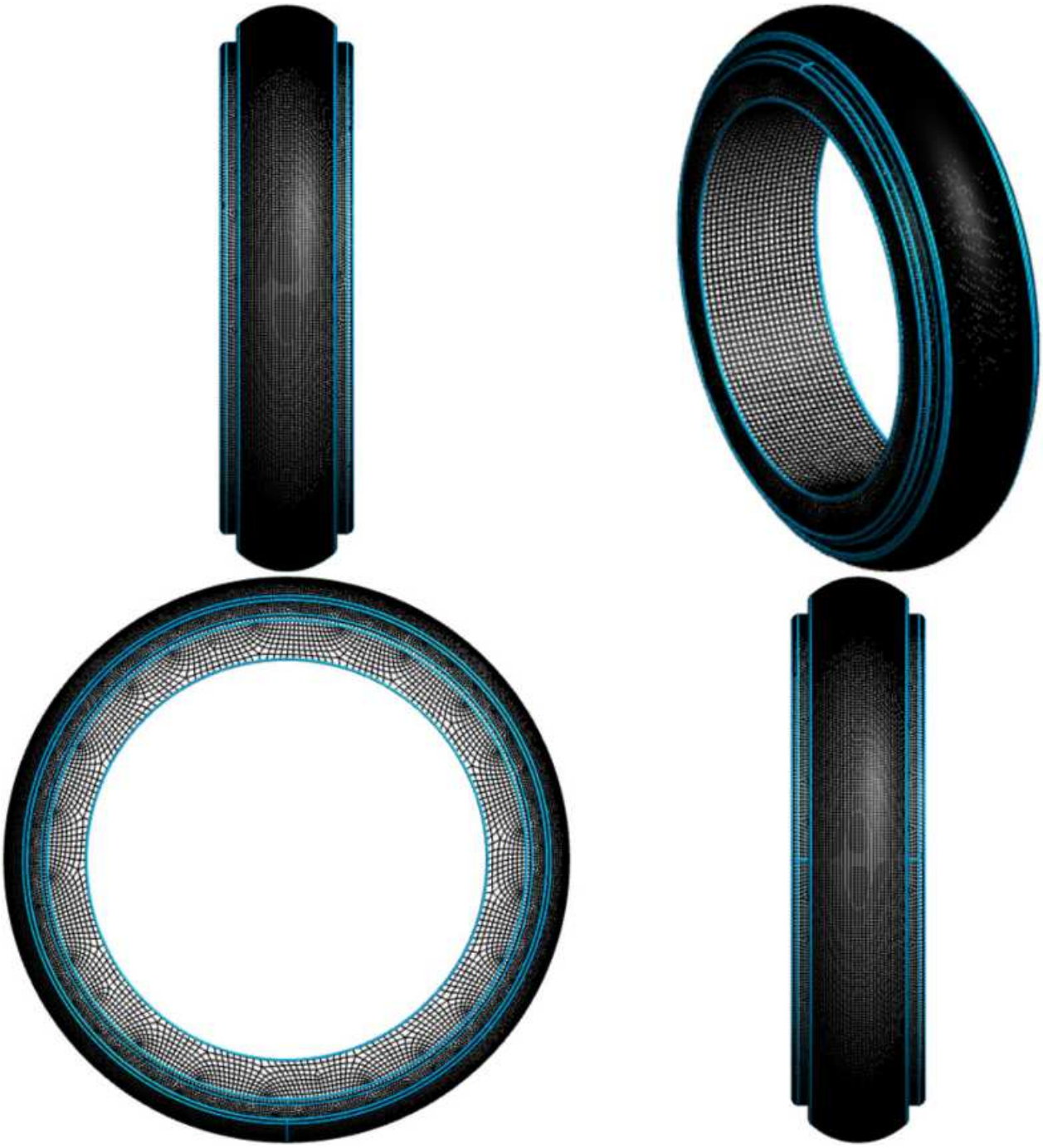


Model: 00007194 (from ABC dataset)
CAD: 15 corners, 23 curves, 12 faces
Cross field: 0 singularities detected
Timings: 8.75161 sec to generate the unstructured mesh, 136.651 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40776	46526	1675	179
Quasi-structured	44326	50076	478	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.039269	0.159279	0.385226	0.46937	0.942979	0.986113
Quasi-structured	0.0361934	0.156765	0.445198	0.542585	0.923455	0.903781

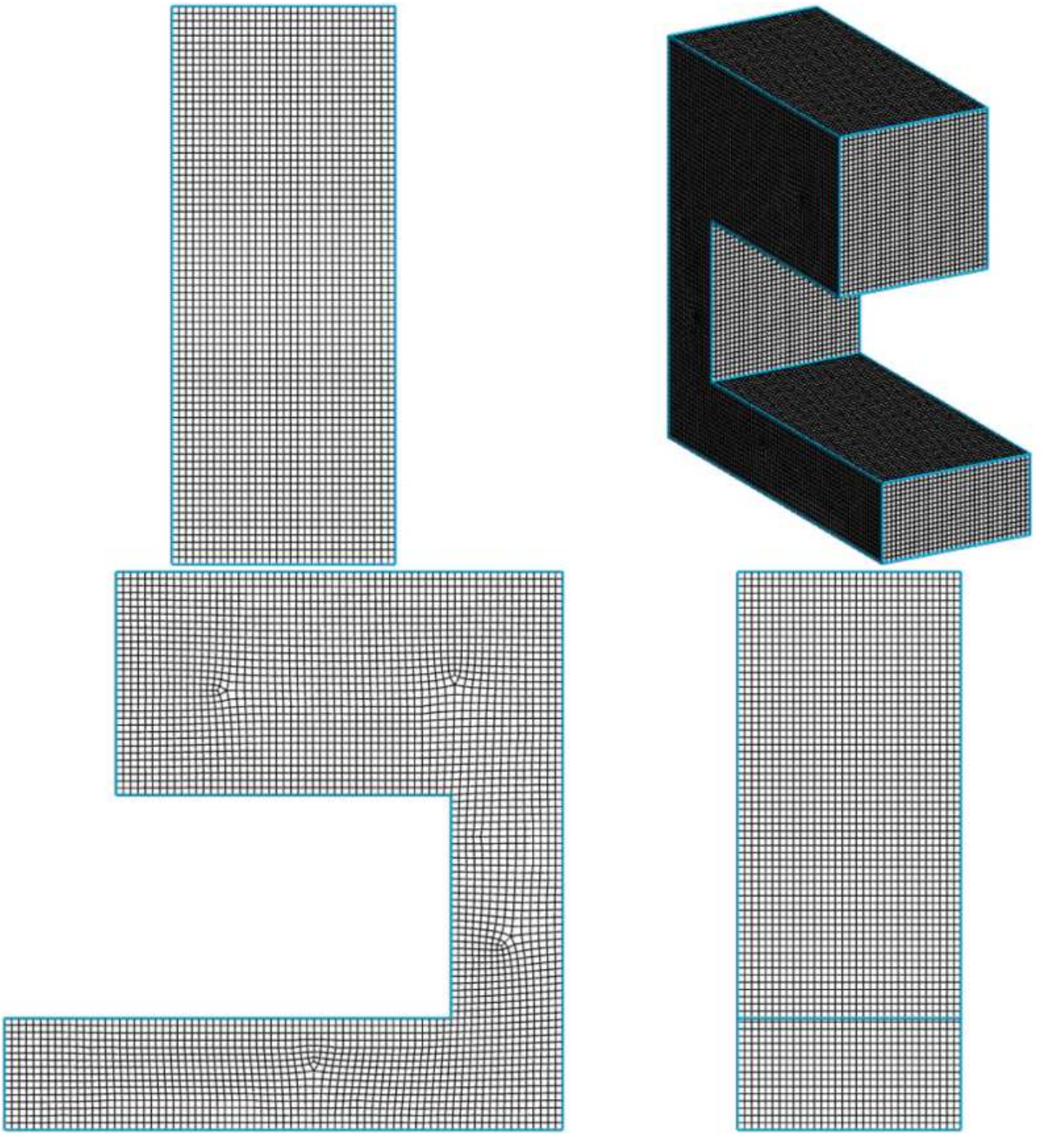


Model: 00007202 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 11.9689 sec to generate the unstructured mesh, 1.60942 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20010	21080	20	0
Quasi-structured	20032	21102	14	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.285554	0.640591	1.03823	0.640371	0.996318	0.999496
Quasi-structured	0.369291	0.639856	0.929542	0.828028	0.998491	0.999321

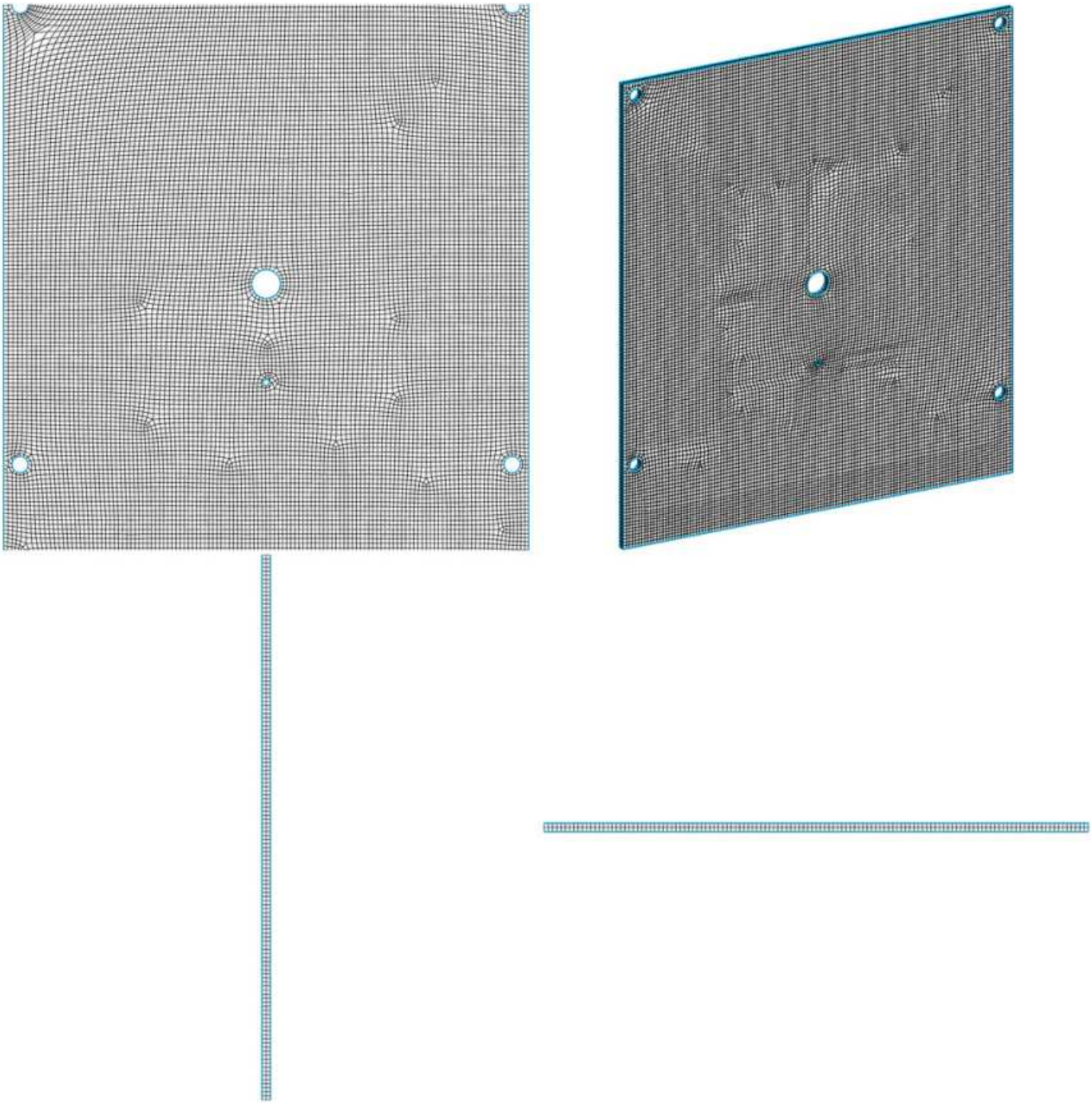


Model: 00007235 (from ABC dataset)
CAD: 26 corners, 36 curves, 12 faces
Cross field: 48 singularities detected
Timings: 22.9334 sec to generate the unstructured mesh, 15.7449 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32100	33382	294	23
Quasi-structured	32178	33460	156	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.307318	1.71098	2.73458	0.0771579	0.978574	0.989394
Quasi-structured	0.12476	1.70775	5.73157	0.327174	0.984375	0.991164

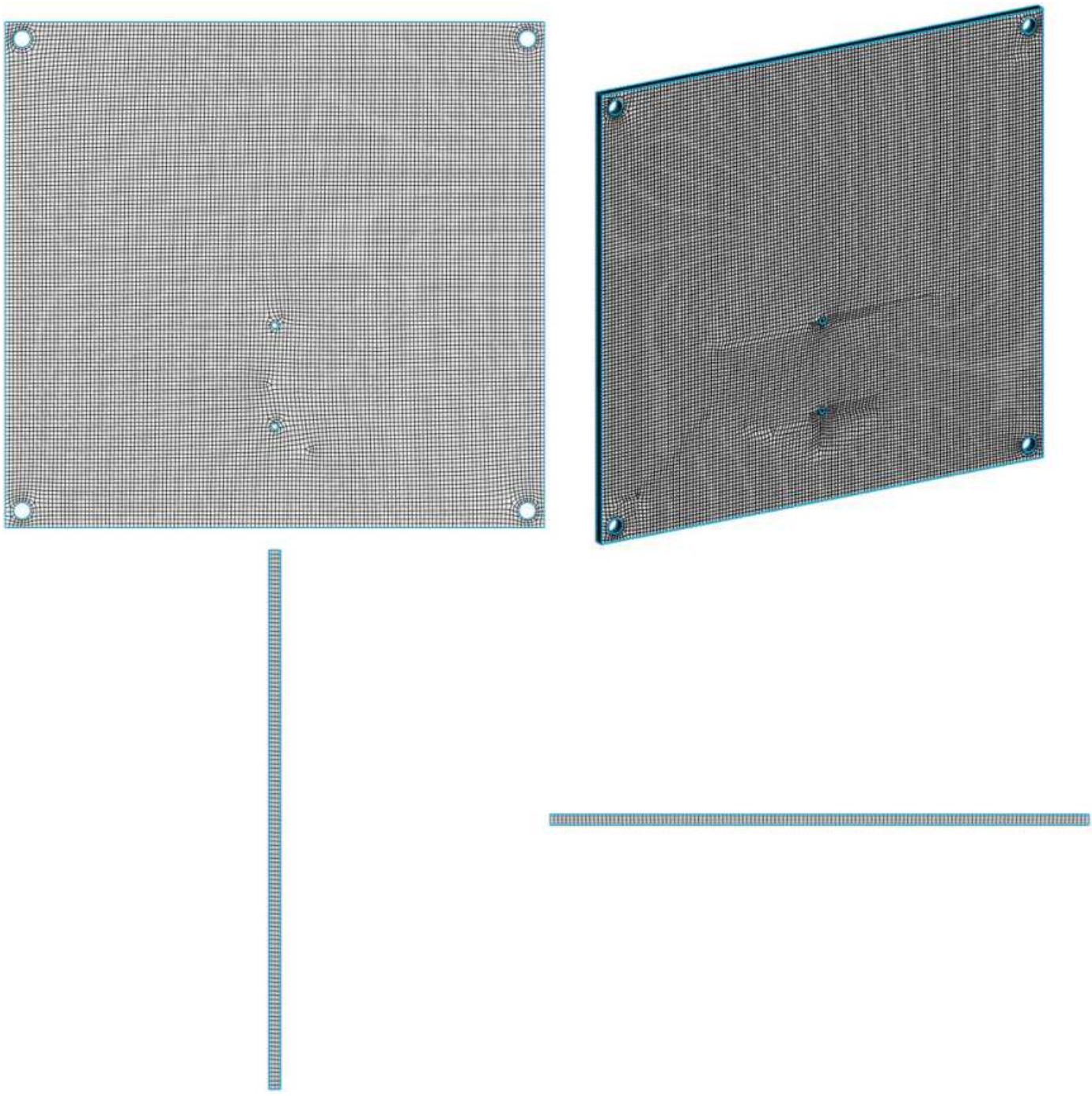


Model: 00007236 (from ABC dataset)
CAD: 26 corners, 36 curves, 12 faces
Cross field: 48 singularities detected
Timings: 36.1956 sec to generate the unstructured mesh, 11.7368 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	35960	37194	229	24
Quasi-structured	35702	36936	83	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.377428	1.49907	2.40549	0.0548998	0.983731	0.999883
Quasi-structured	0.26988	1.50256	2.69507	0.248258	0.988885	0.999319

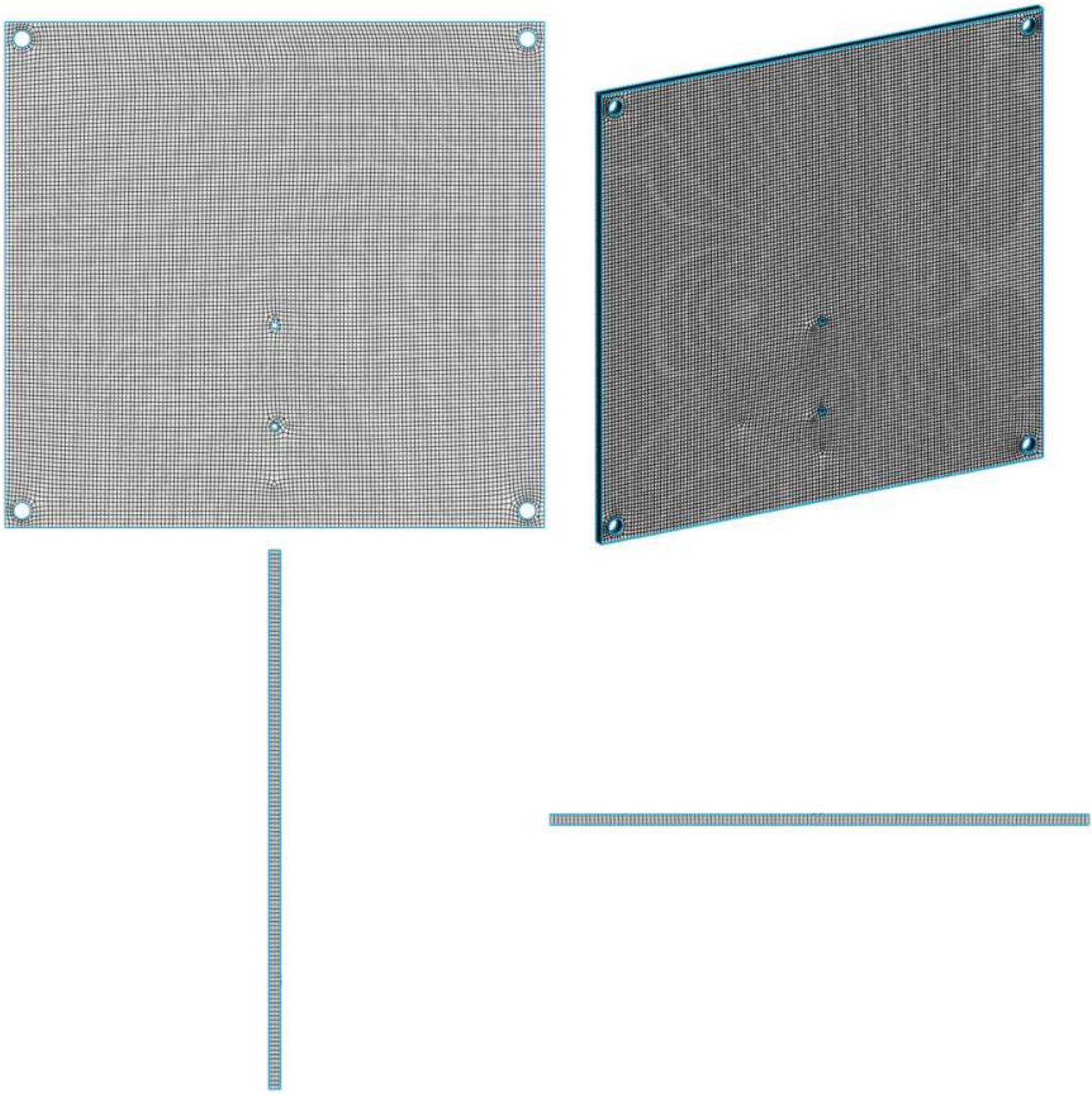


Model: 00007237 (from ABC dataset)
CAD: 26 corners, 36 curves, 12 faces
Cross field: 48 singularities detected
Timings: 25.2541 sec to generate the unstructured mesh, 9.27143 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36002	37236	216	21
Quasi-structured	35659	36893	81	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.300971	1.49797	2.408	0.0751379	0.98456	0.999928
Quasi-structured	0.371926	1.5034	2.53046	0.332474	0.990848	0.999461

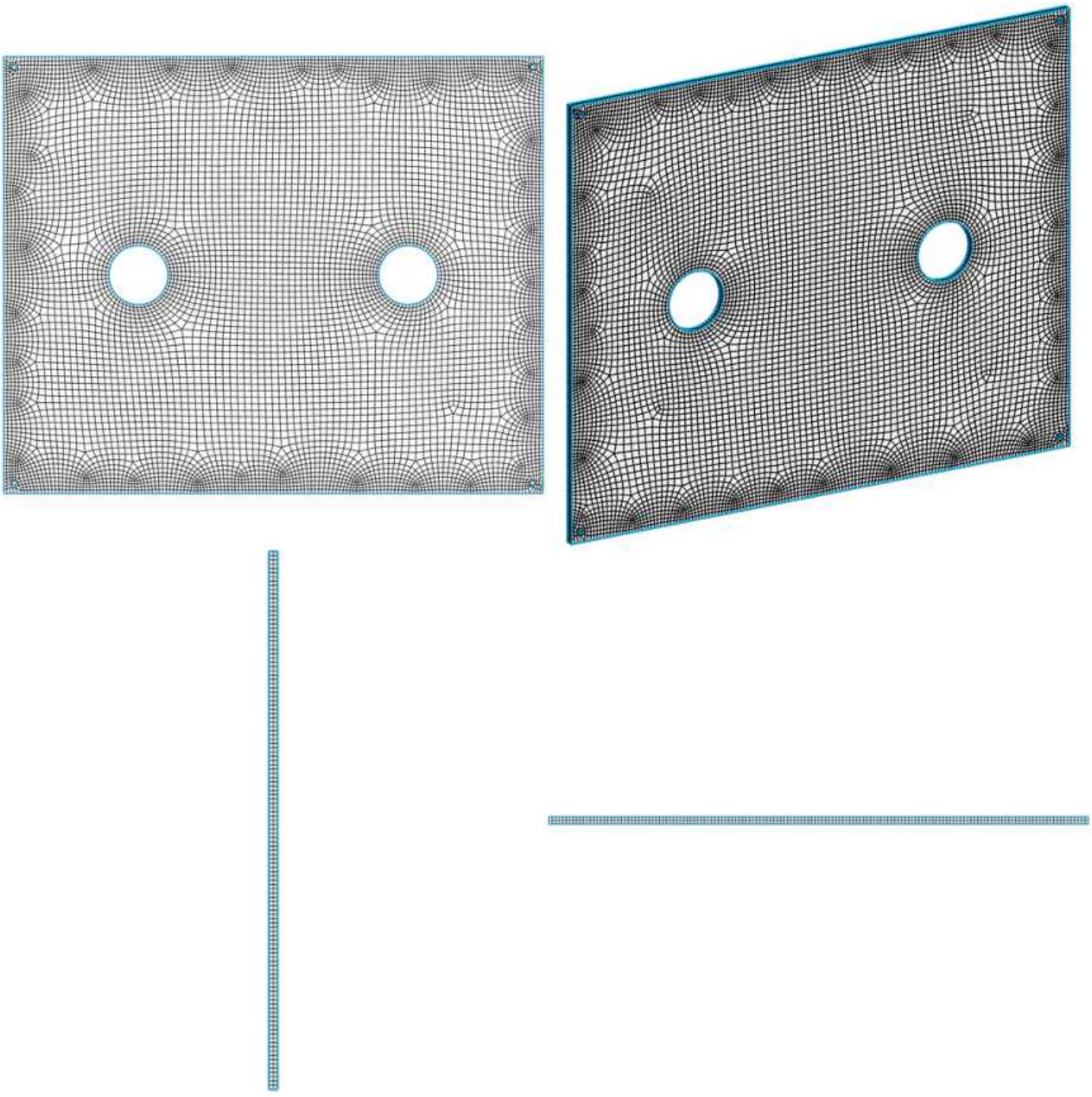


Model: 00007249 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 48 singularities detected
Timings: 13.0388 sec to generate the unstructured mesh, 43.6967 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19310	20720	674	82
Quasi-structured	18459	19869	210	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.06855	14.0199	28.5943	0.0281331	0.942142	0.985174
Quasi-structured	2.86761	14.0907	33.6822	0.266289	0.979974	0.99126

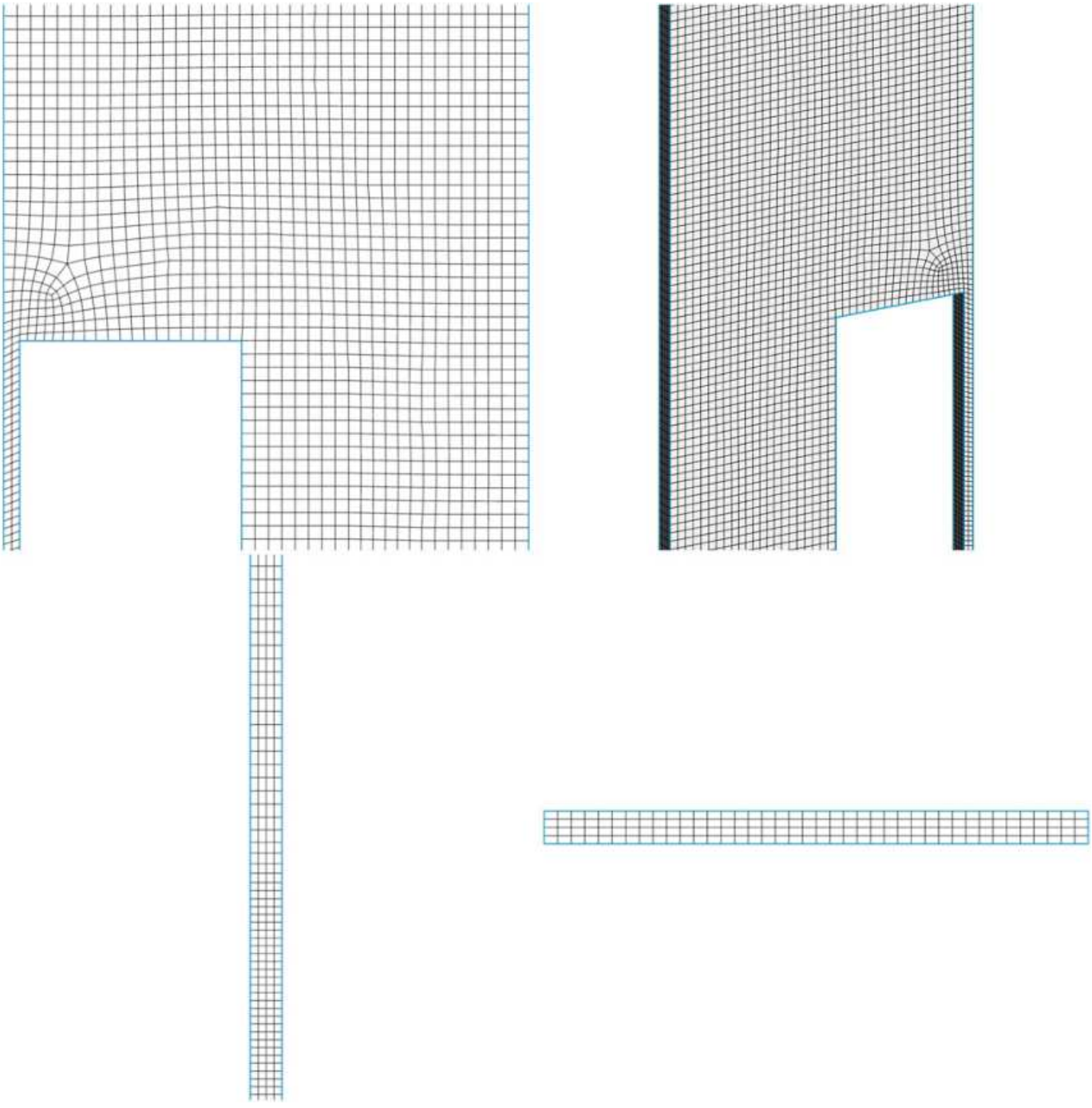


Model: 00007254 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 3.44376 sec to generate the unstructured mesh, 0.707477 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8942	9900	16	2
Quasi-structured	8980	9938	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	15.152	38.4253	55.9252	0.663328	0.979567	0.999856
Quasi-structured	16.9074	38.3072	57.2791	0.829567	0.98289	0.999808

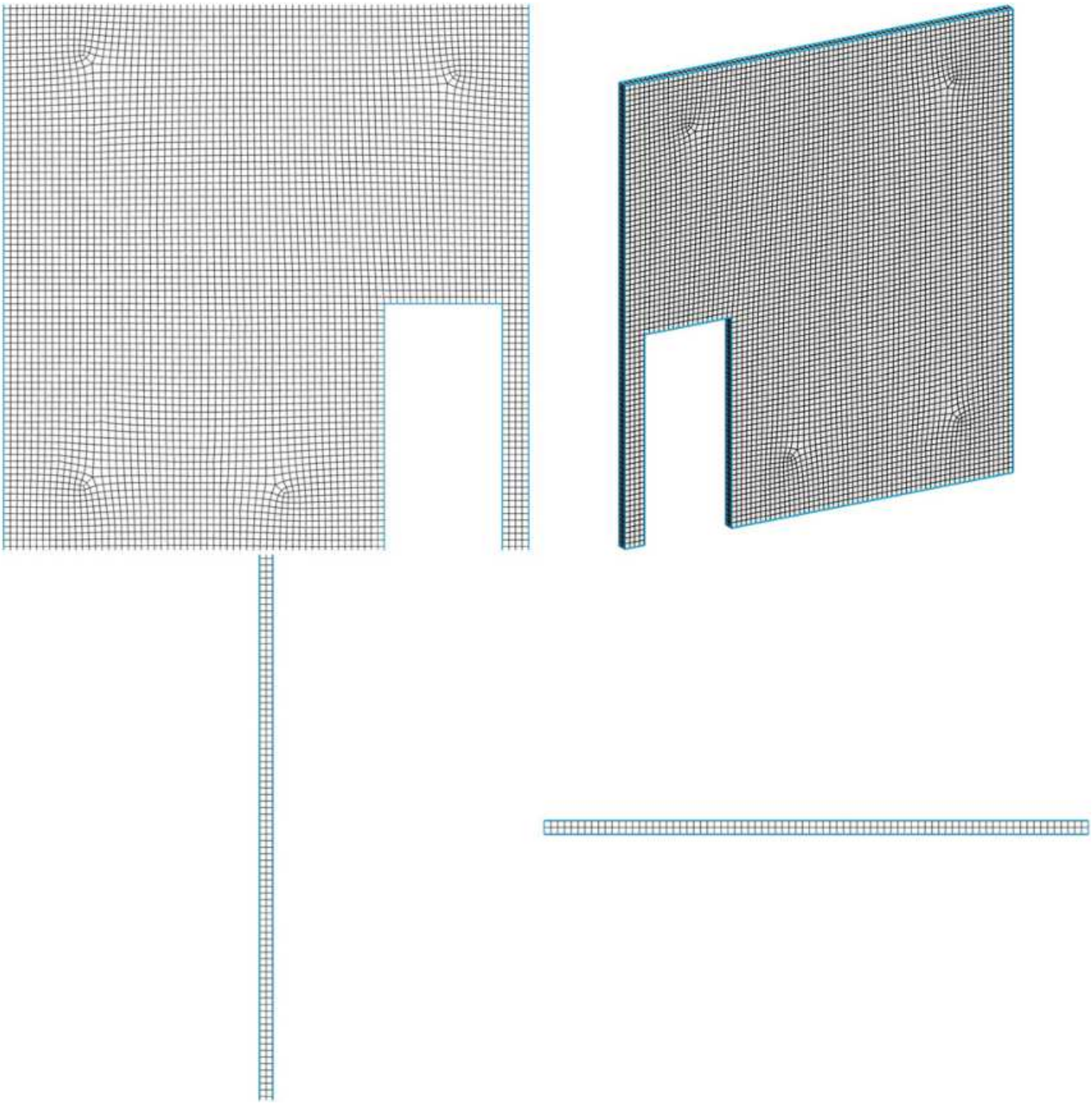


Model: 00007256 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 8.45105 sec to generate the unstructured mesh, 2.79087 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12612	13470	48	0
Quasi-structured	12656	13514	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	21.3554	51.7166	79.7556	0.61102	0.993124	0.997887
Quasi-structured	29.7484	51.5738	71.919	0.847778	0.998305	0.998868

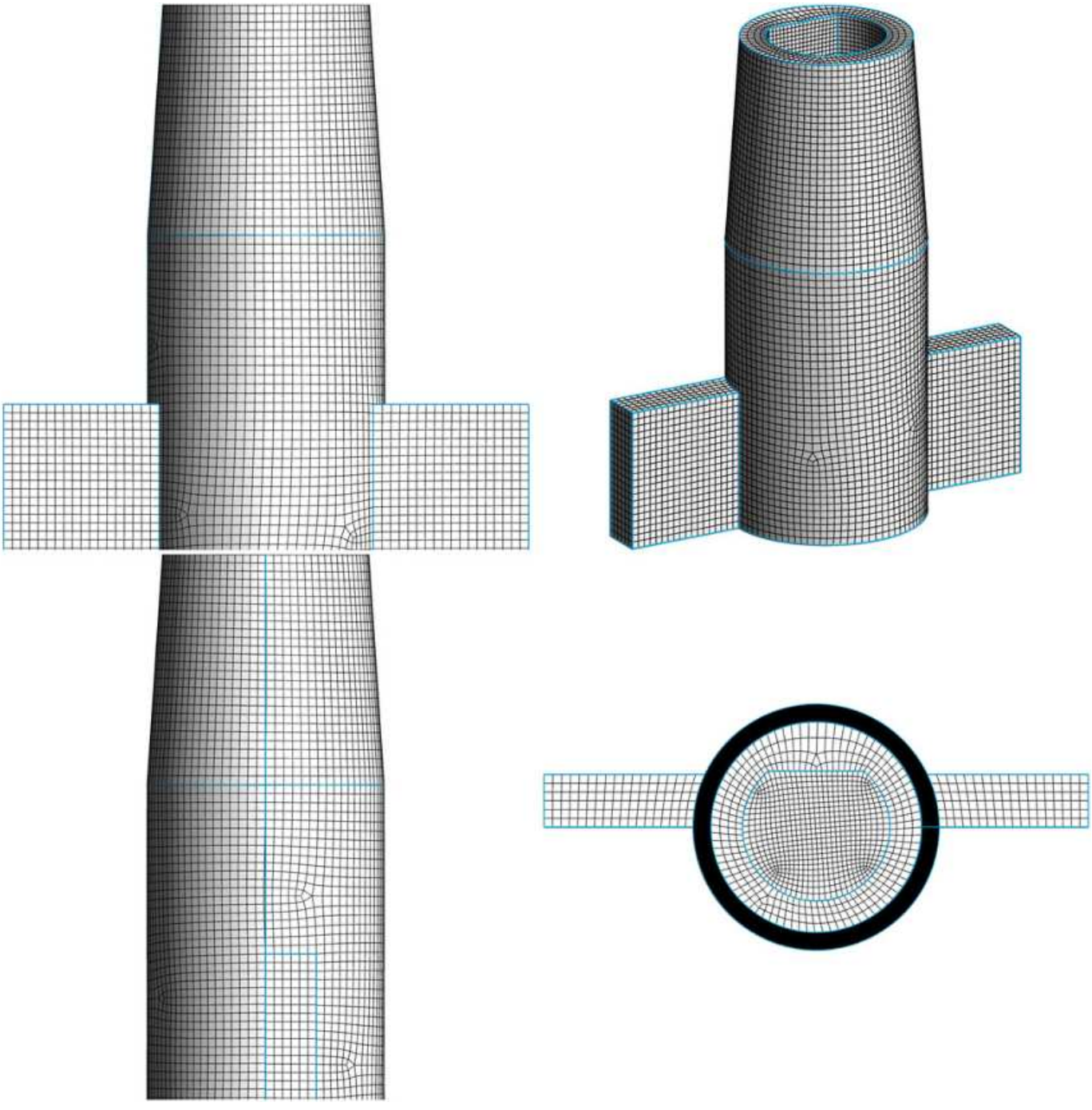


Model: 00007263 (from ABC dataset)
CAD: 22 corners, 34 curves, 15 faces
Cross field: 8 singularities detected
Timings: 12.7662 sec to generate the unstructured mesh, 2.17882 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15896	16810	74	51
Quasi-structured	15832	16746	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.116853	0.413755	0.877545	0.579539	0.990101	0.99902
Quasi-structured	0.128748	0.413941	0.935894	0.756139	0.99658	0.999495

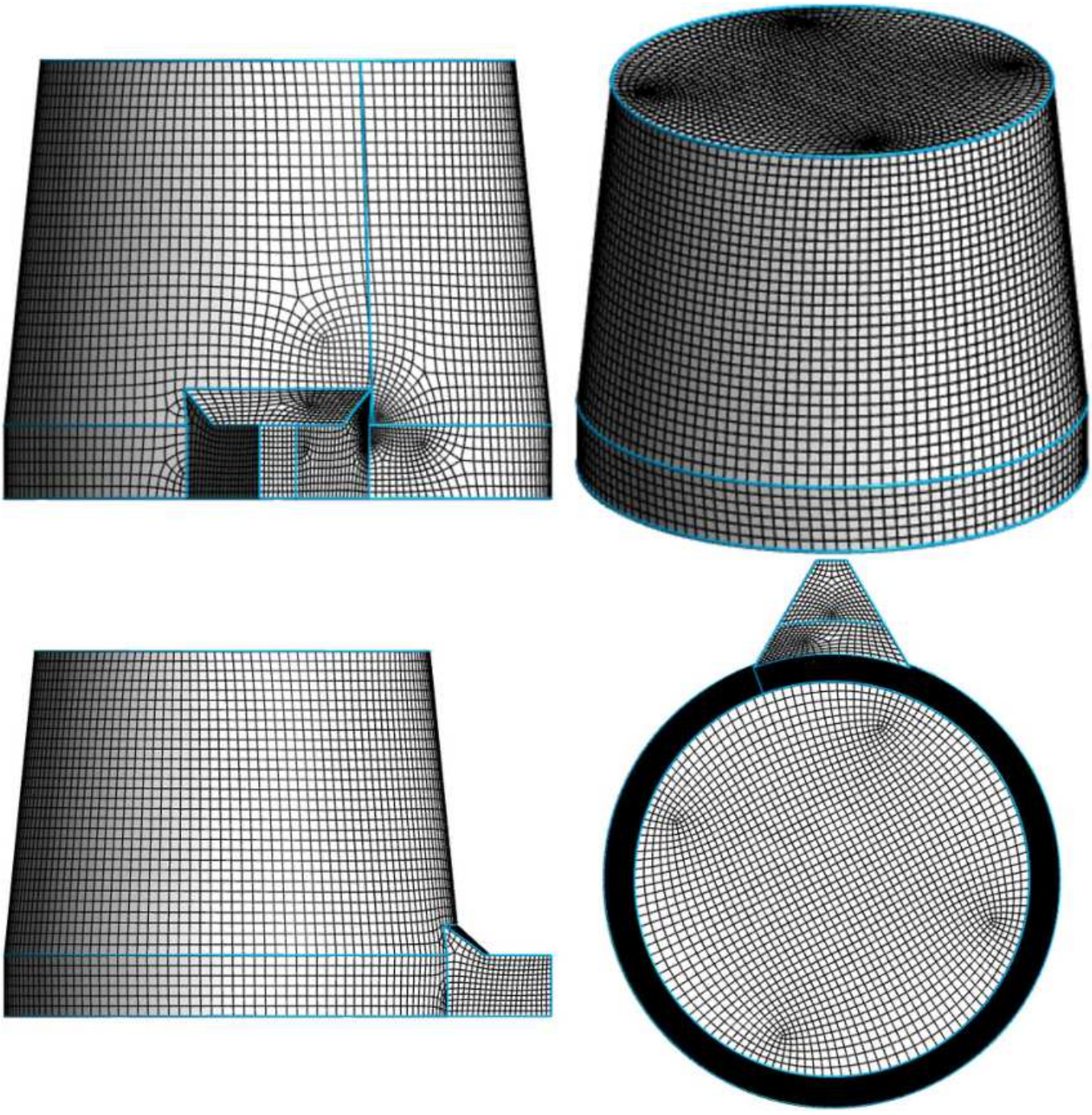


Model: 00007268 (from ABC dataset)
CAD: 17 corners, 26 curves, 12 faces
Cross field: 11 singularities detected
Timings: 14.6558 sec to generate the unstructured mesh, 4.62947 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19770	20635	264	100
Quasi-structured	19738	20603	35	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0137213	0.218636	0.51217	0.120254	0.978641	0.994934
Quasi-structured	0.00810241	0.217787	0.543305	0.120254	0.989395	0.99818

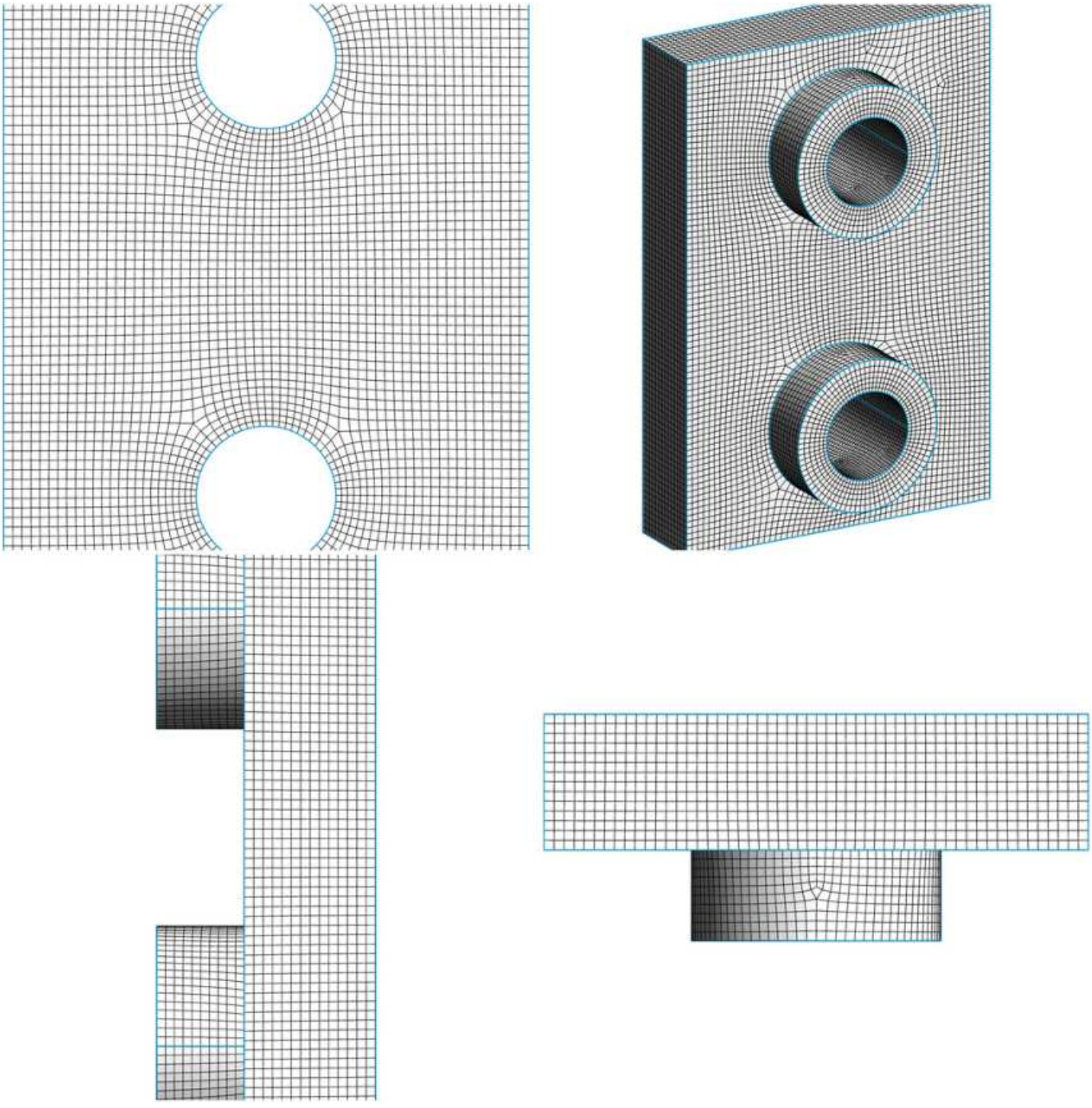


Model: 00007282 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 16 singularities detected
Timings: 9.18958 sec to generate the unstructured mesh, 1.8883 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19202	20428	186	90
Quasi-structured	19486	20712	60	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0582809	0.194847	0.39157	0.532683	0.984347	0.997529
Quasi-structured	0.0706377	0.193314	0.515625	0.703846	0.99236	0.99834

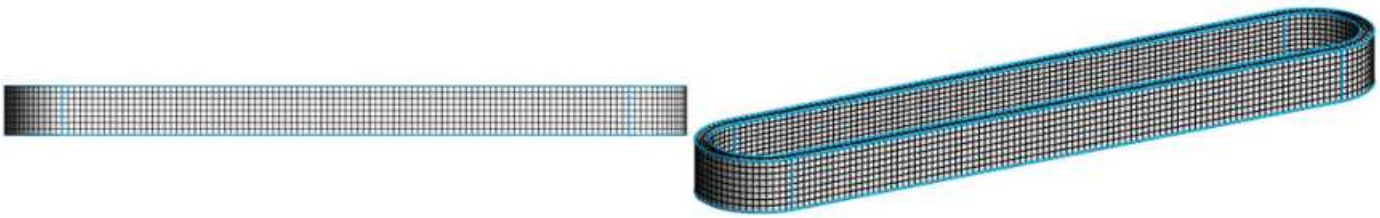


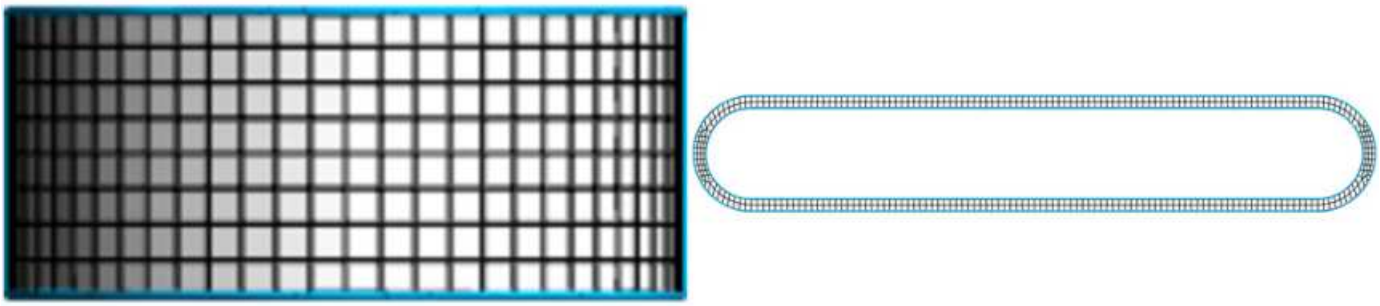
Model: 00007293 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 2.85518 sec to generate the unstructured mesh, 0.870224 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5368	6424	16	0
Quasi-structured	5432	6488	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.440627	0.709909	0.843479	0.807912	0.988562	0.99979
Quasi-structured	0.32352	0.706056	1.1394	0.617696	0.982611	0.999707



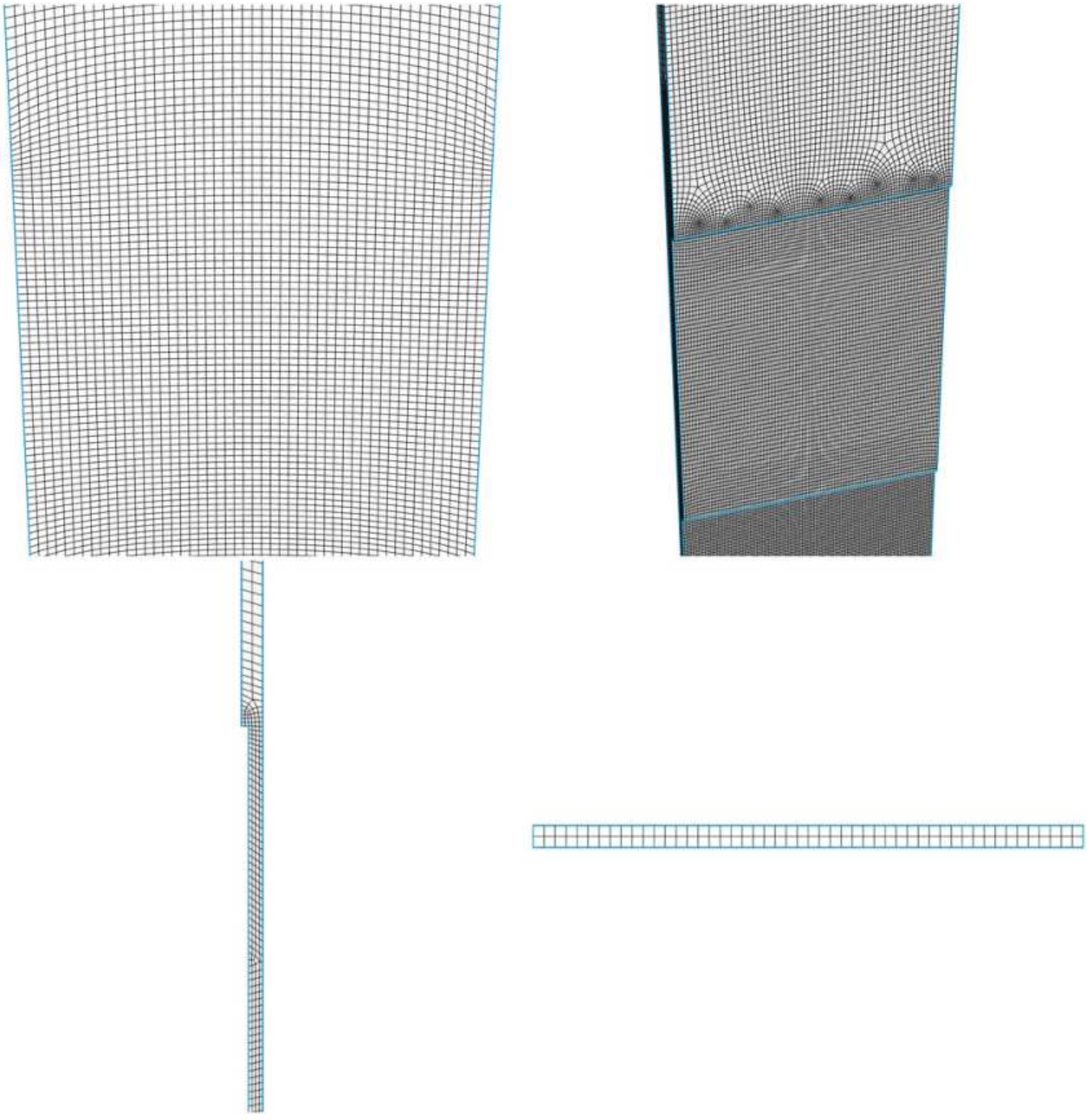


Model: 00007314 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 4.36007 sec to generate the unstructured mesh, 29.3124 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32188	33926	399	39
Quasi-structured	35947	37685	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0598981	0.203437	0.649215	0.409309	0.939094	0.989987
Quasi-structured	0.0566313	0.201033	0.592949	0.540764	0.939985	0.989628

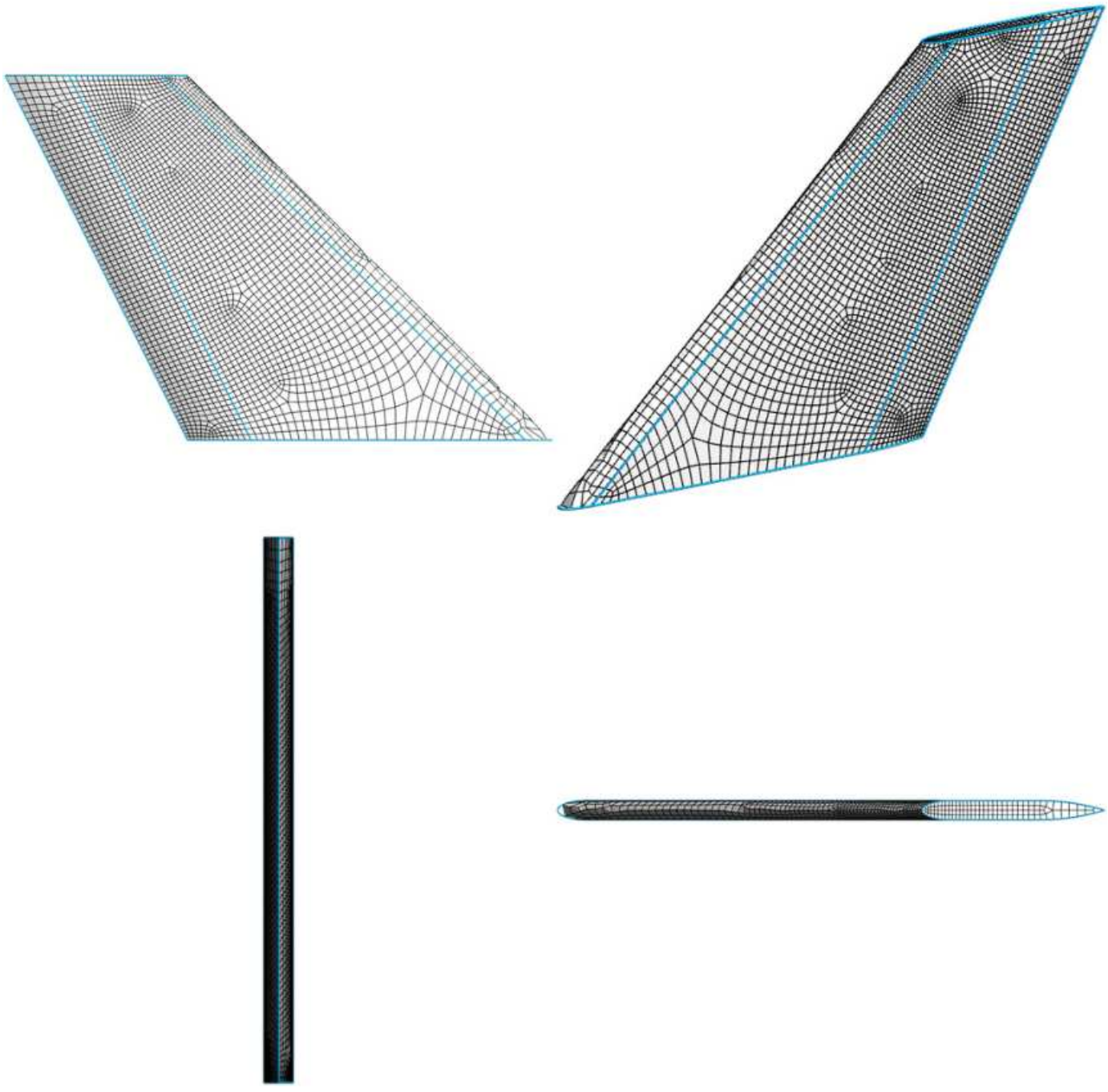


Model: 00007320 (from ABC dataset)
CAD: 10 corners, 15 curves, 7 faces
Cross field: 7 singularities detected
Timings: 3.0773 sec to generate the unstructured mesh, 1.33544 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5922	6479	155	2
Quasi-structured	5842	6399	62	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.118979	0.488797	1.32615	0.0968576	0.965894	0.994759
Quasi-structured	0.126325	0.488966	2.30574	0.169644	0.973561	0.991964

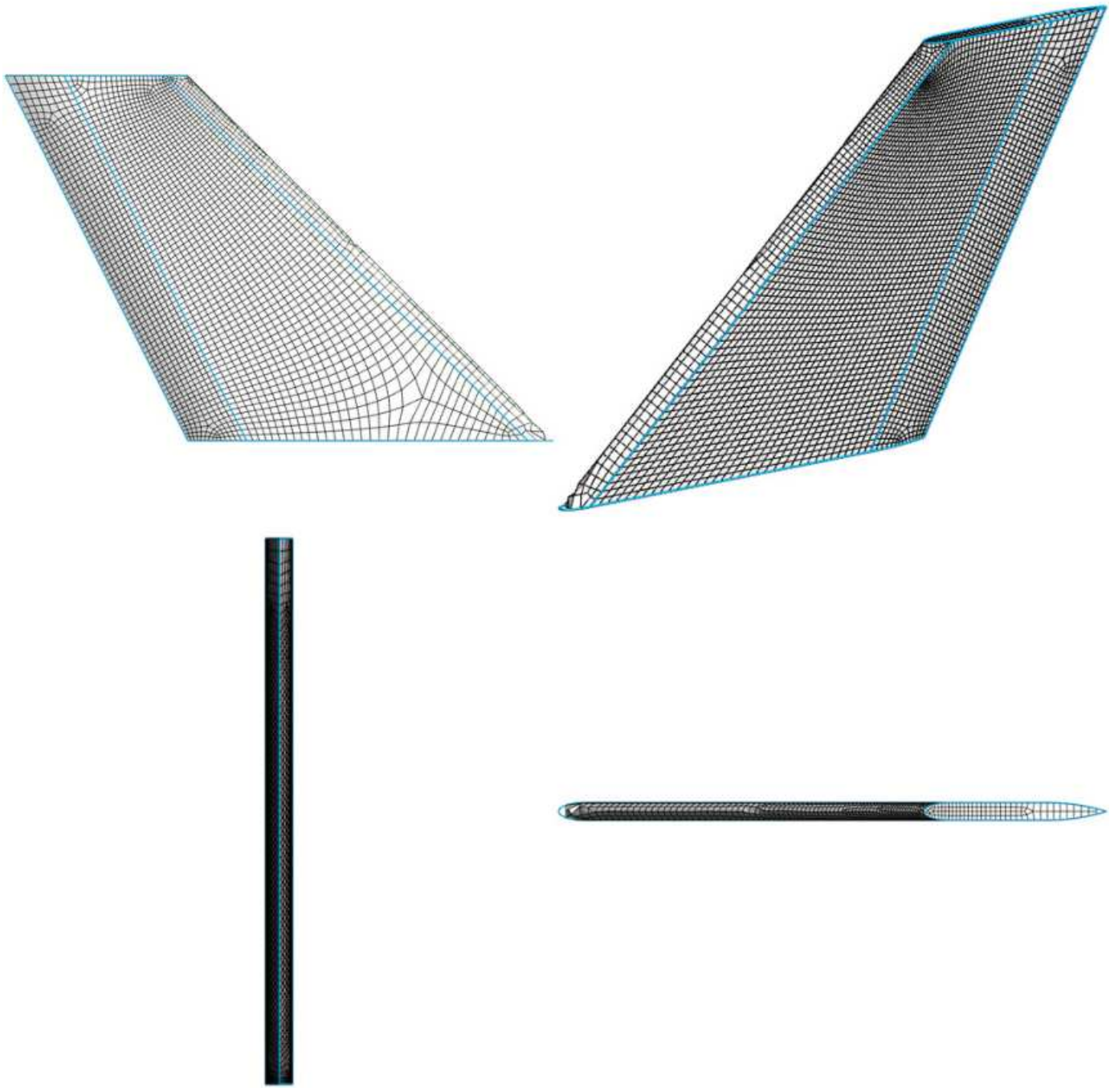


Model: 00007321 (from ABC dataset)
CAD: 10 corners, 15 curves, 7 faces
Cross field: 7 singularities detected
Timings: 3.07971 sec to generate the unstructured mesh, 1.05069 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6046	6613	168	1
Quasi-structured	6509	7076	54	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.111343	0.524241	1.197	0.439378	0.970262	0.997151
Quasi-structured	0.0986425	0.516375	2.61758	0.185103	0.930157	0.970712

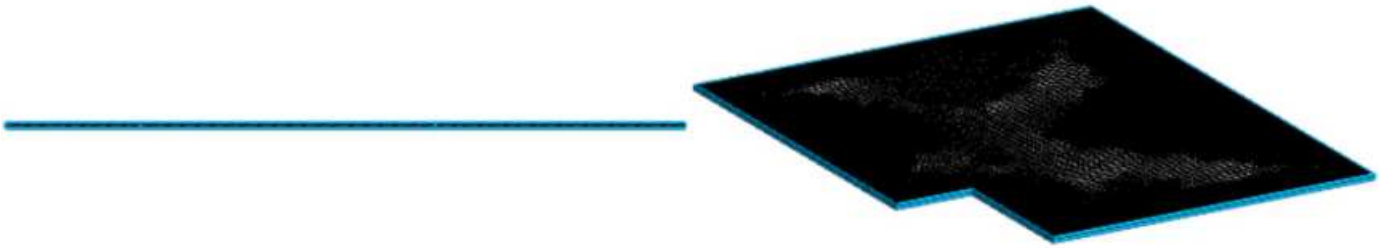


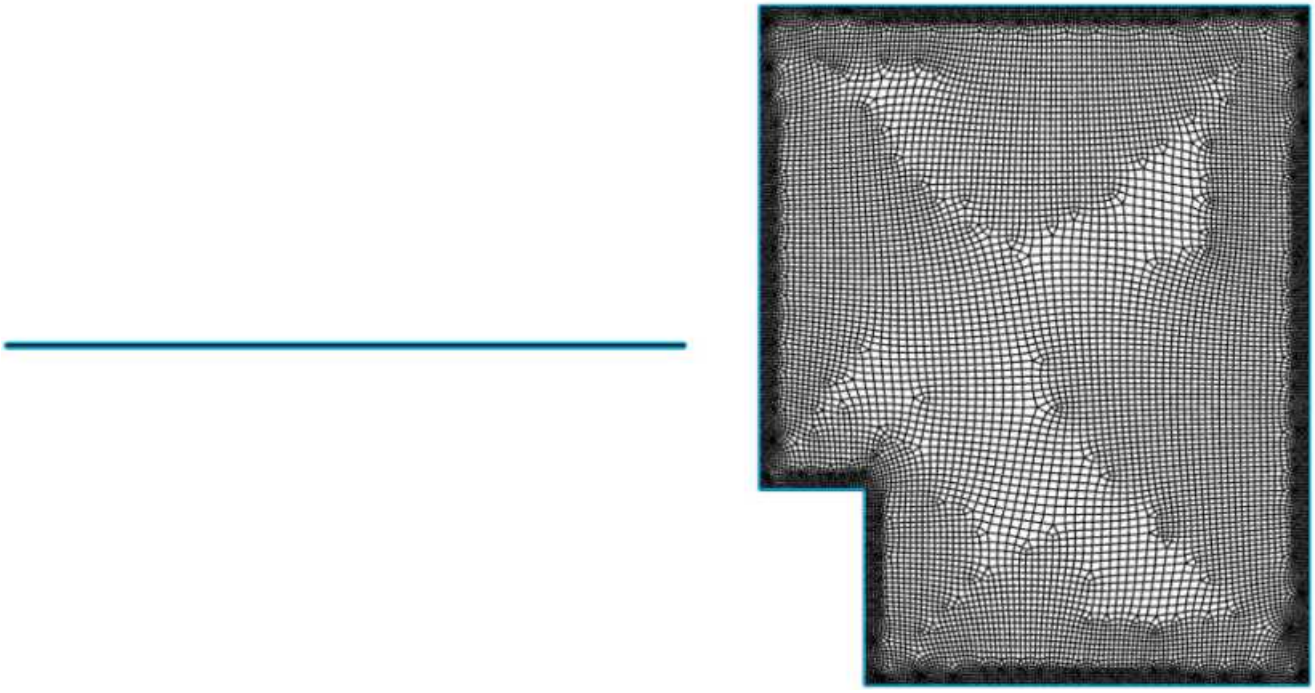
Model: 00007349 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 10.5023 sec to generate the unstructured mesh, 223.494 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	33820	35918	1080	139
Quasi-structured	33667	35765	730	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	10.3635	39.6508	110.035	0.486275	0.931369	0.962941
Quasi-structured	10.1518	39.1288	124.618	0.745759	0.974808	0.984726





Model: 00007350 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 0 singularities detected
Timings: 1.05822 sec to generate the unstructured mesh, 1.25669 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	3550	4557	67	0
Quasi-structured	5198	6205	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	6.82631	29.1086	52.1997	0.480581	0.901942	0.891111
Quasi-structured	10.8029	24.6057	33.6585	0.787913	0.906548	0.914044

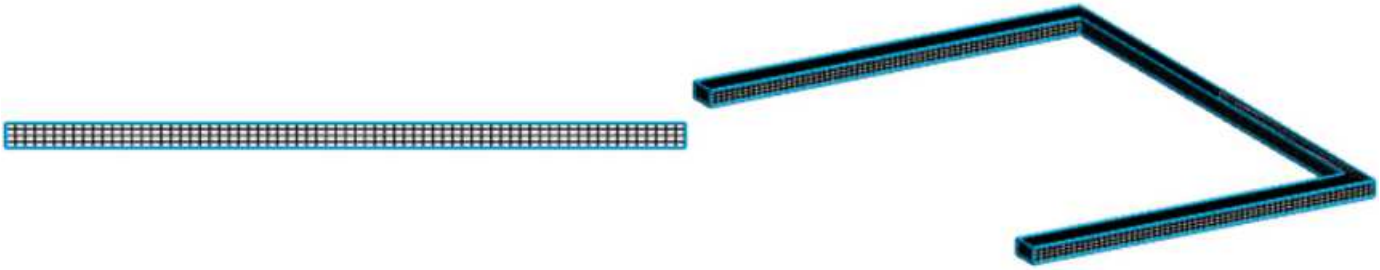


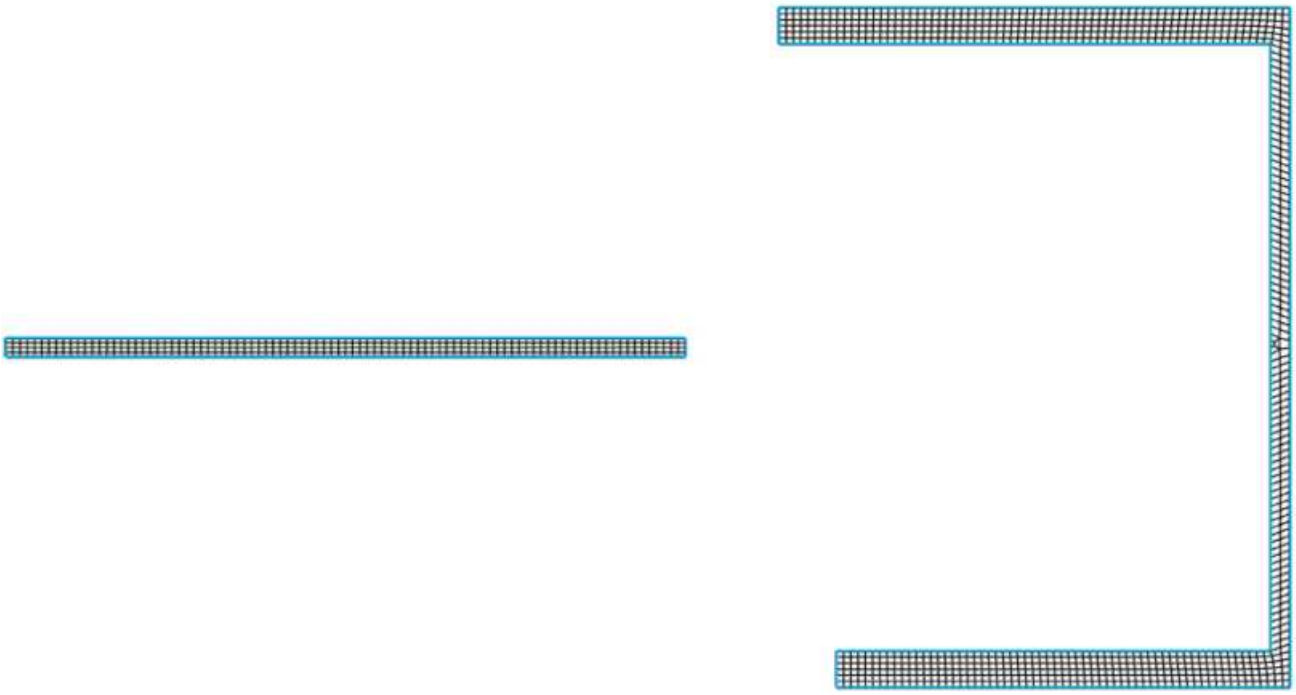
Model: 00007357 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 1.5224 sec to generate the unstructured mesh, 0.211291 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	3700	4642	16	2
Quasi-structured	3718	4660	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	29.1141	67.6065	114.585	0.65359	0.924666	0.912639
Quasi-structured	41.8368	67.202	110.057	0.714208	0.938385	0.912956



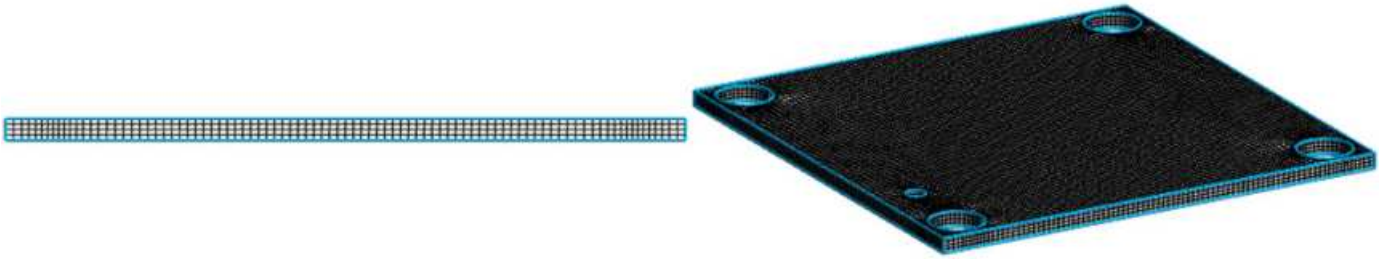


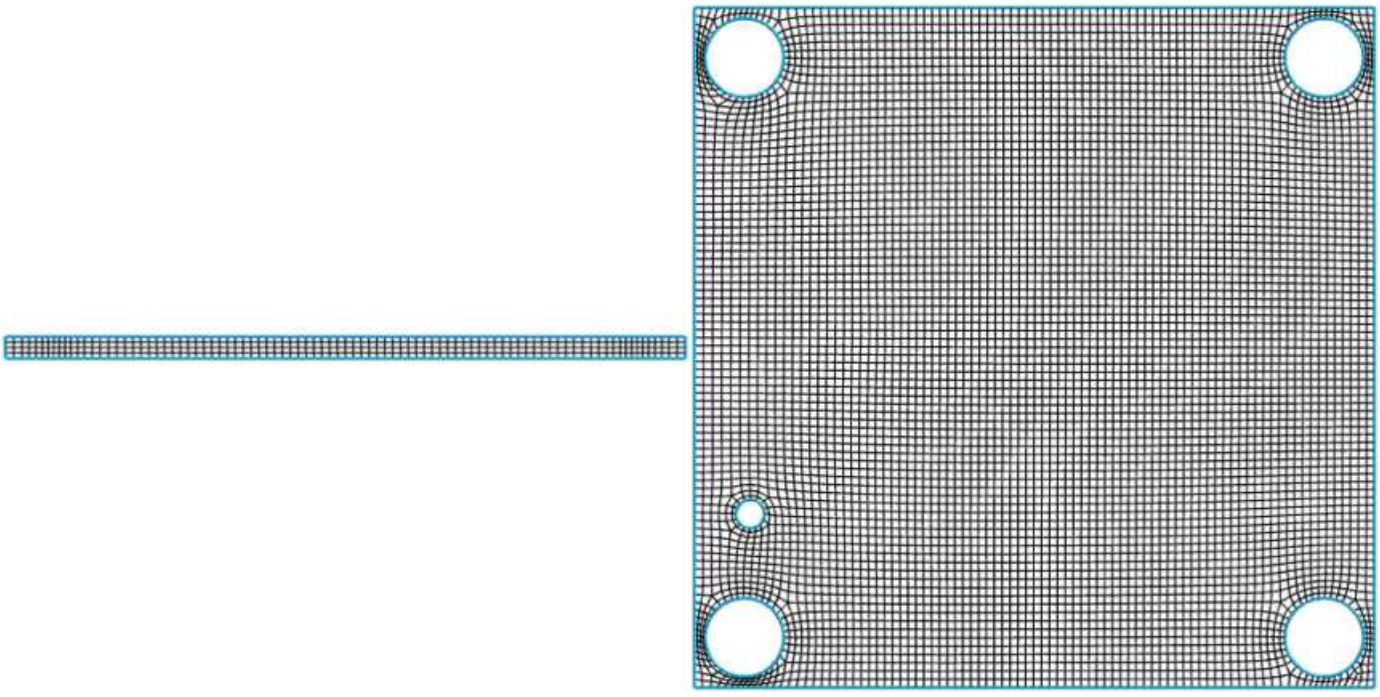
Model: 00007423 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 40 singularities detected
Timings: 13.9327 sec to generate the unstructured mesh, 2.54895 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16304	17388	158	17
Quasi-structured	16005	17089	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.37528	1.07529	1.81772	0.44437	0.979873	0.999749
Quasi-structured	0.366292	1.0827	2.00733	0.563026	0.982787	0.997895



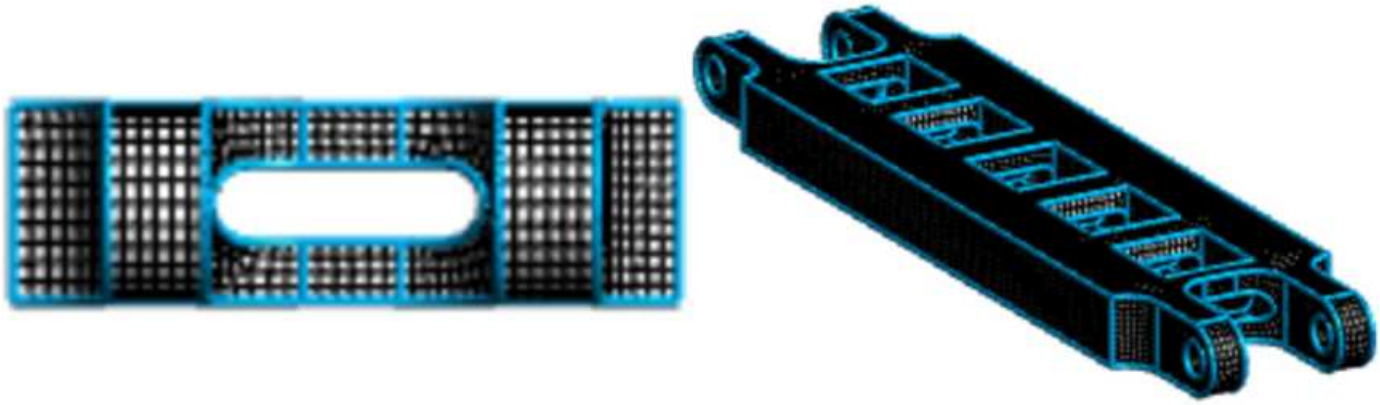


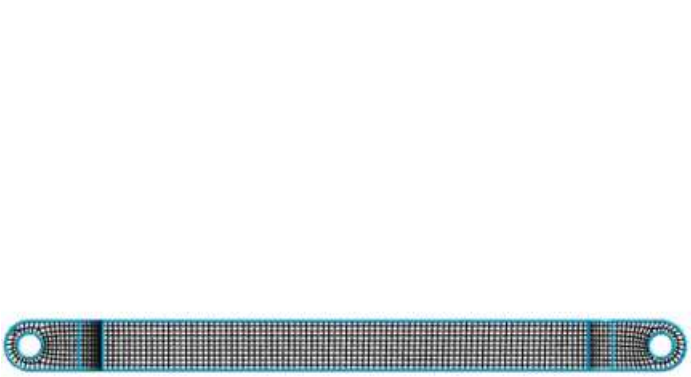
Model: 00007425 (from ABC dataset)
CAD: 180 corners, 276 curves, 86 faces
Cross field: 132 singularities detected
Timings: 6.71345 sec to generate the unstructured mesh, 1.35024 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12344	14964	589	40
Quasi-structured	12738	15358	212	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.191869	1.02007	1.75652	0.000828396	0.934758	0.972492
Quasi-structured	0.156449	1.00377	2.10083	0.119949	0.949478	0.976011





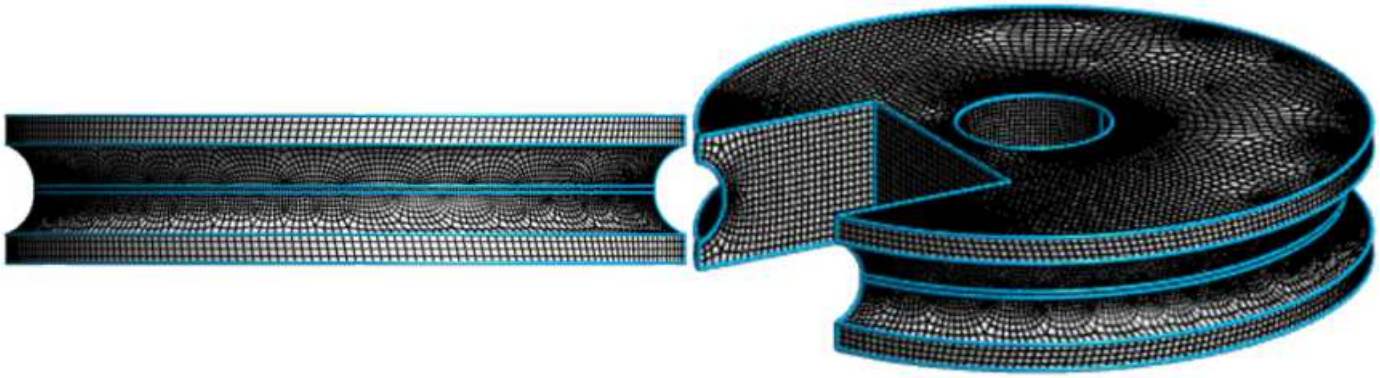


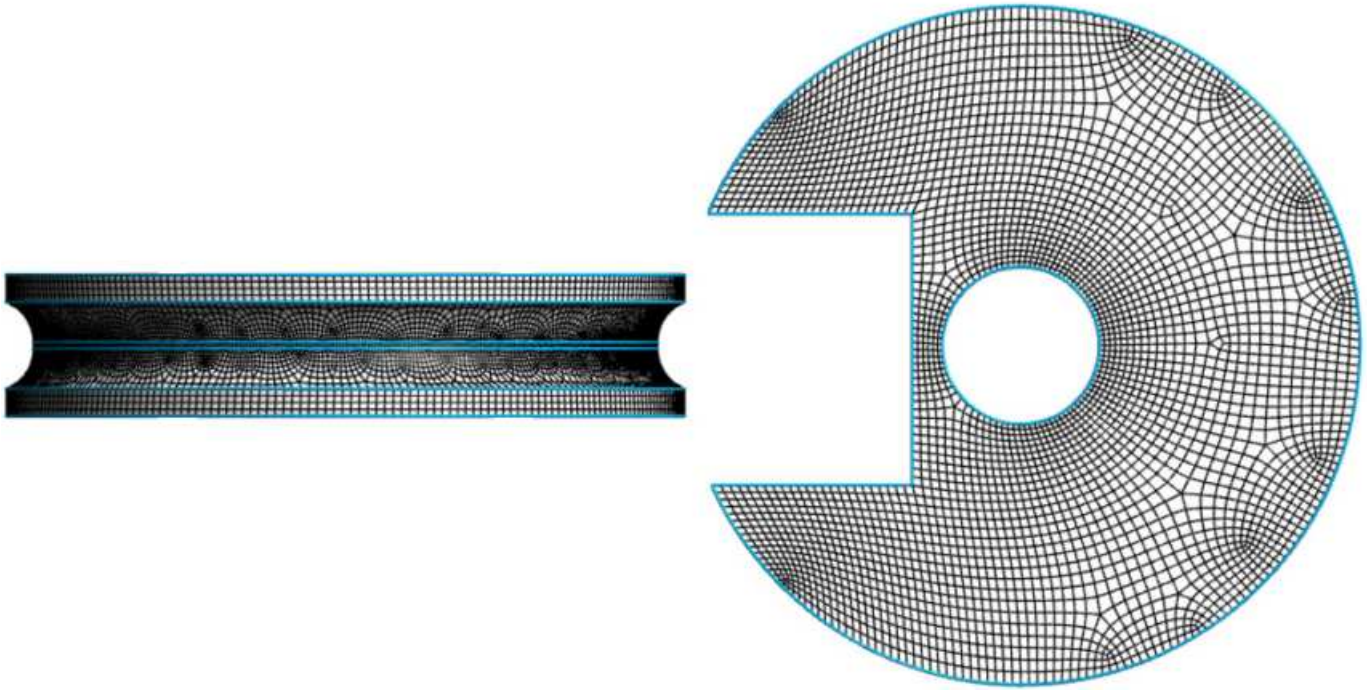
Model: 00007427 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 12 singularities detected
Timings: 11.5598 sec to generate the unstructured mesh, 109.6 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19652	22072	872	57
Quasi-structured	20536	22956	314	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.073707	0.254031	0.57024	0.429109	0.924392	0.980511
Quasi-structured	0.044496	0.2467	0.7134	0.614056	0.957199	0.975095



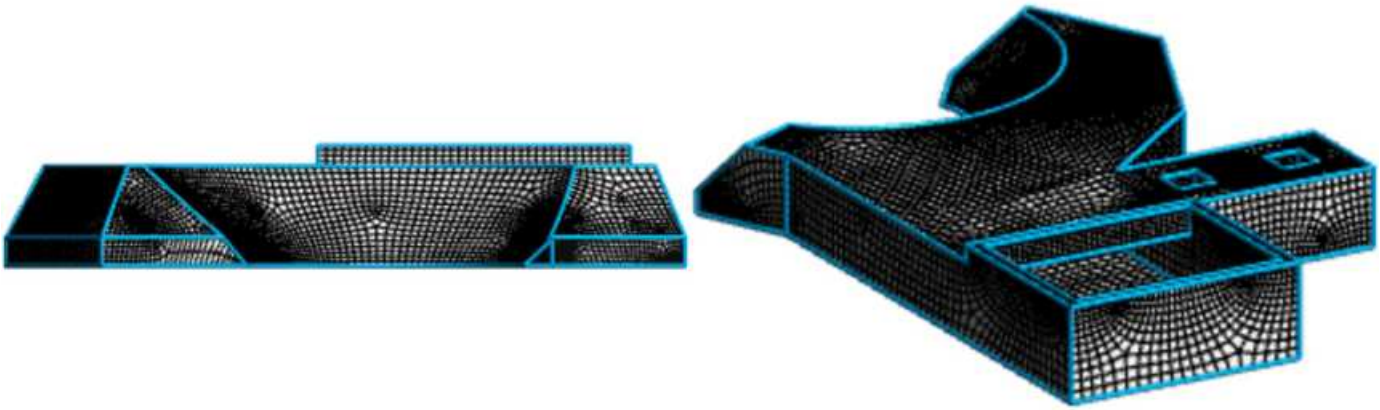


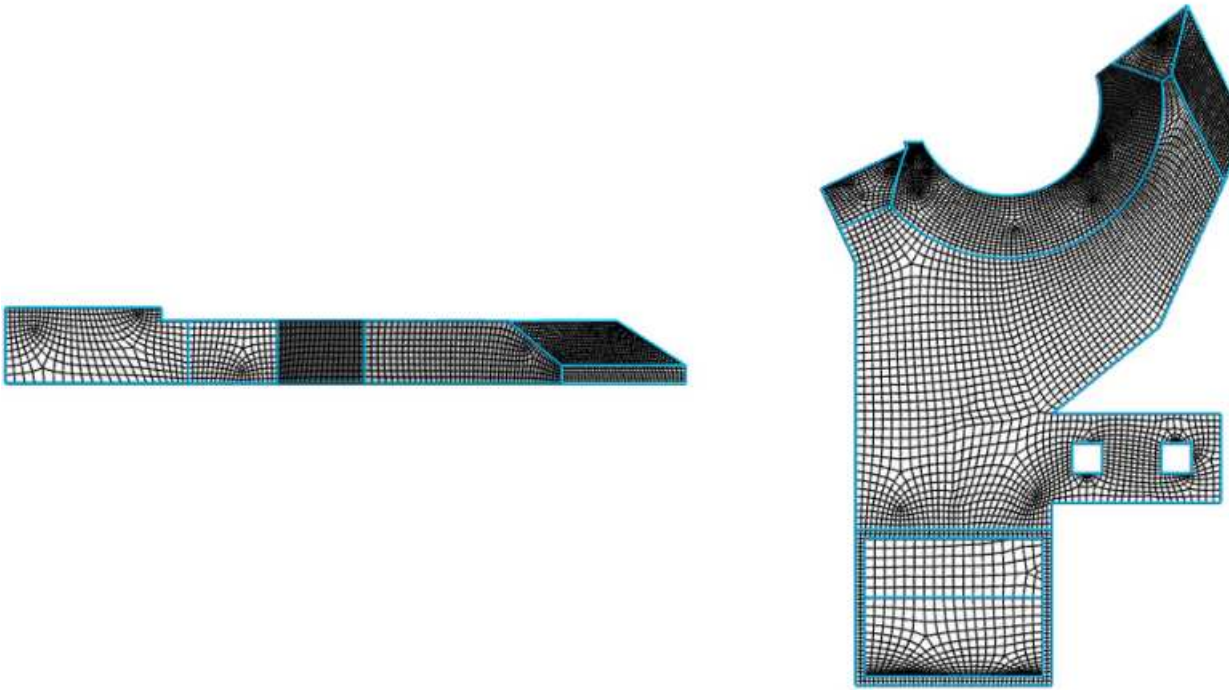
Model: 00007436 (from ABC dataset)
CAD: 134 corners, 202 curves, 69 faces
Cross field: 23 singularities detected
Timings: 14.4192 sec to generate the unstructured mesh, 73.6892 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30266	34394	1693	81
Quasi-structured	31514	35642	423	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00796207	0.458097	1.55967	0.0495398	0.929651	0.971875
Quasi-structured	0.0108002	0.45143	2.3309	0.0495398	0.940588	0.968861



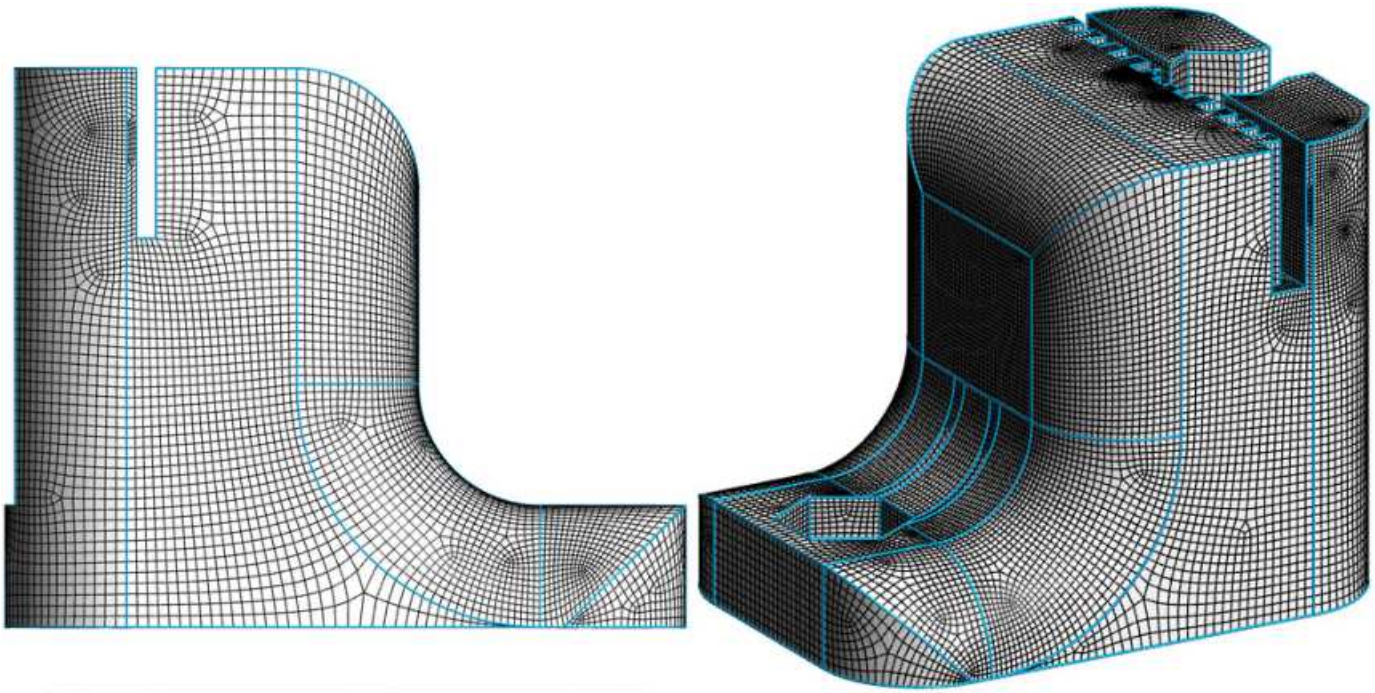


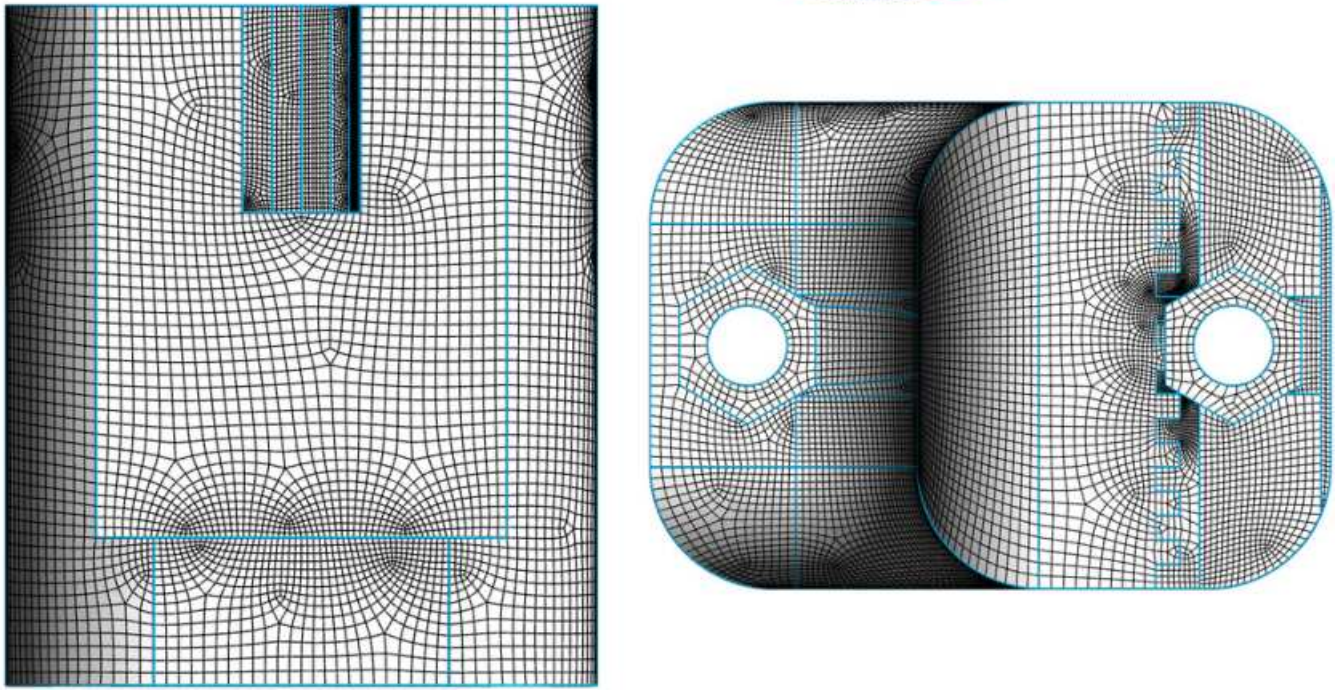
Model: 00007442 (from ABC dataset)
CAD: 162 corners, 250 curves, 90 faces
Cross field: 40 singularities detected
Timings: 13.4955 sec to generate the unstructured mesh, 47.4001 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	41292	46268	1811	82
Quasi-structured	42421	47397	473	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00658546	0.248963	0.901914	5.19122e-05	0.935441	0.97649
Quasi-structured	0.00899153	0.247386	1.42481	0.0127515	0.956892	0.979928



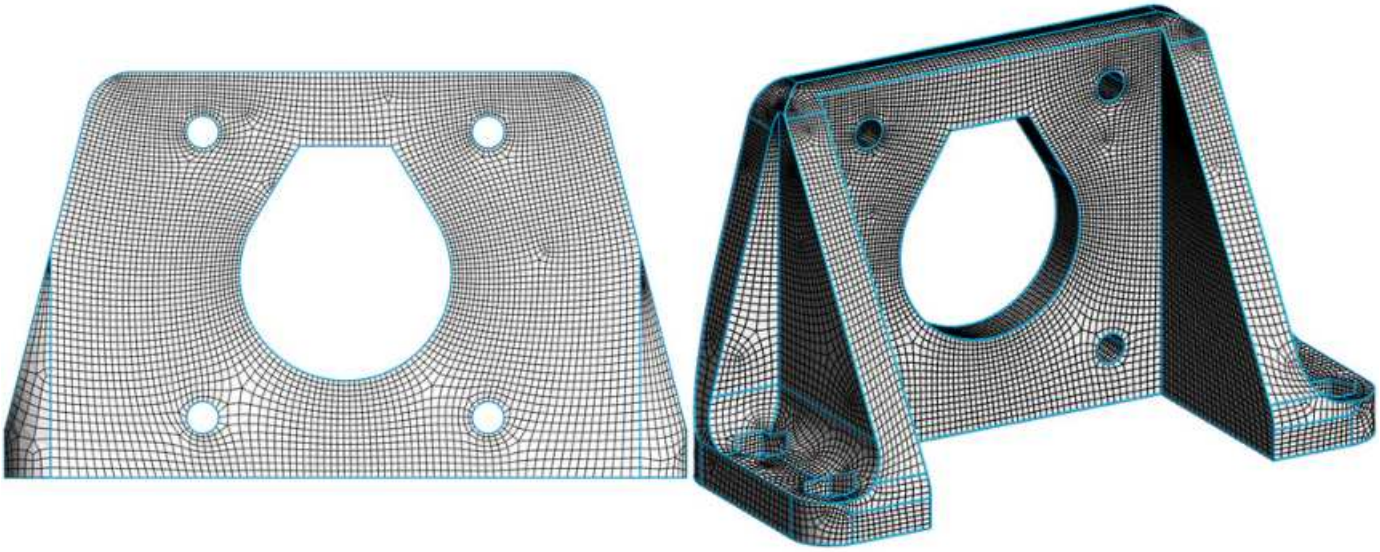


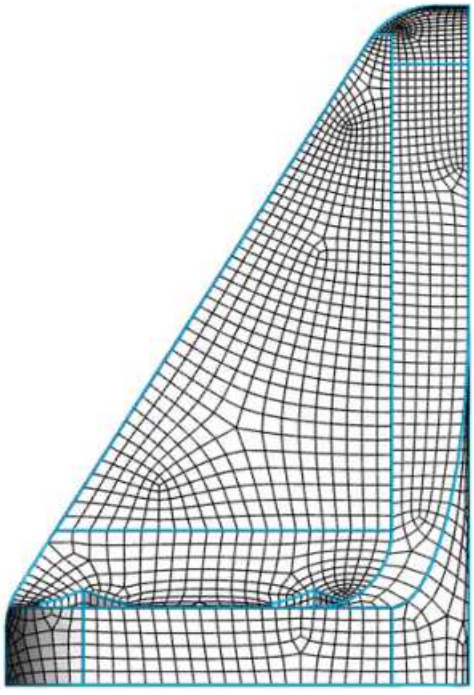
Model: 00007448 (from ABC dataset)
CAD: 140 corners, 211 curves, 73 faces
Cross field: 104 singularities detected
Timings: 14.0125 sec to generate the unstructured mesh, 5.6603 sec to make it quasi-structured
Mesh topology:

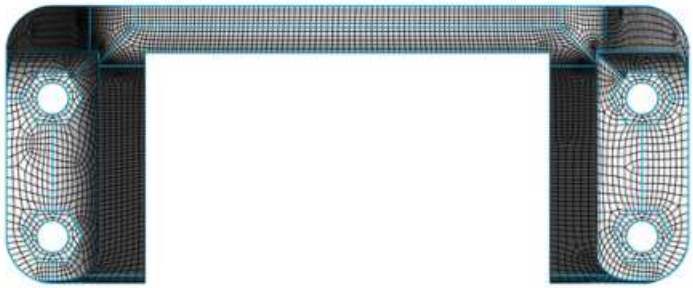
	# quads	# vertices	# irregular	# very irregular
Unstructured	22622	25495	902	88
Quasi-structured	24564	27437	315	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0540713	0.647985	2.0393	4.73967e-05	0.950687	0.986426
Quasi-structured	0.0394112	0.623974	2.13209	0.0726114	0.946318	0.980181





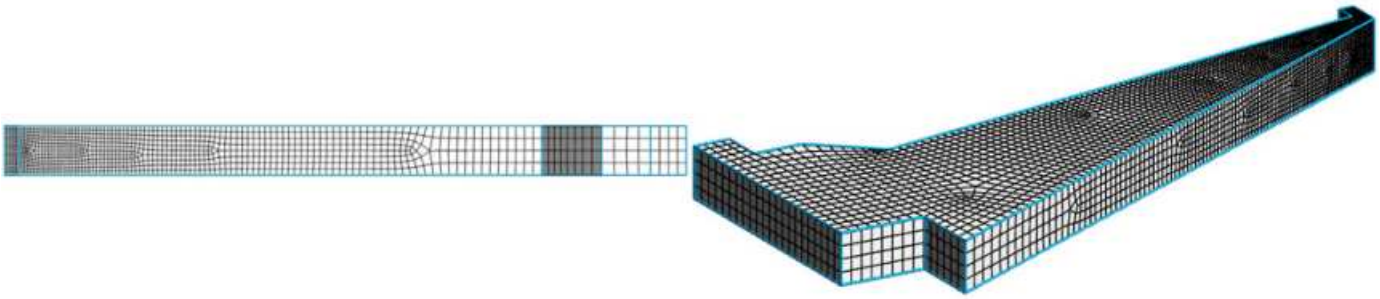


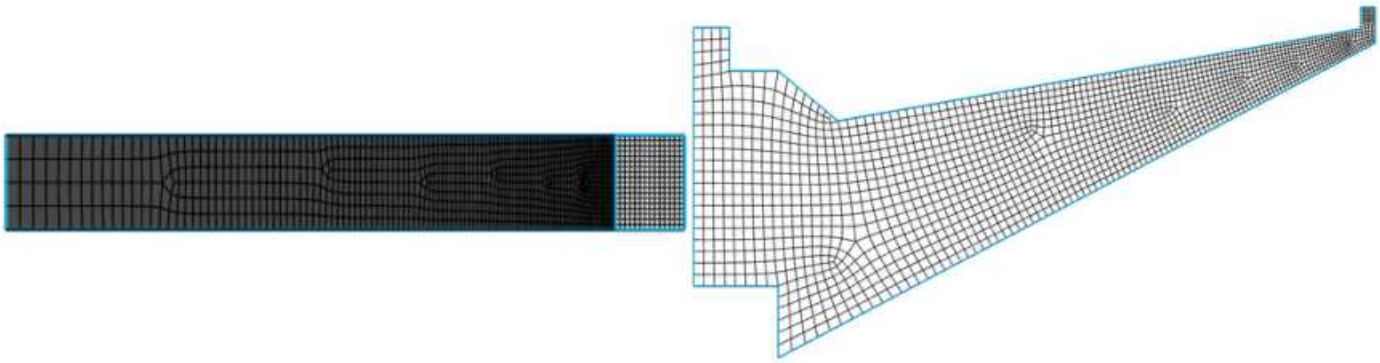
Model: 00007454 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 2 singularities detected
Timings: 5.57063 sec to generate the unstructured mesh, 3.09334 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6398	7100	104	0
Quasi-structured	6386	7088	52	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.153415	0.837995	2.39945	0.631414	0.980961	0.998437
Quasi-structured	0.21011	0.837664	2.75734	0.766735	0.990986	0.997908



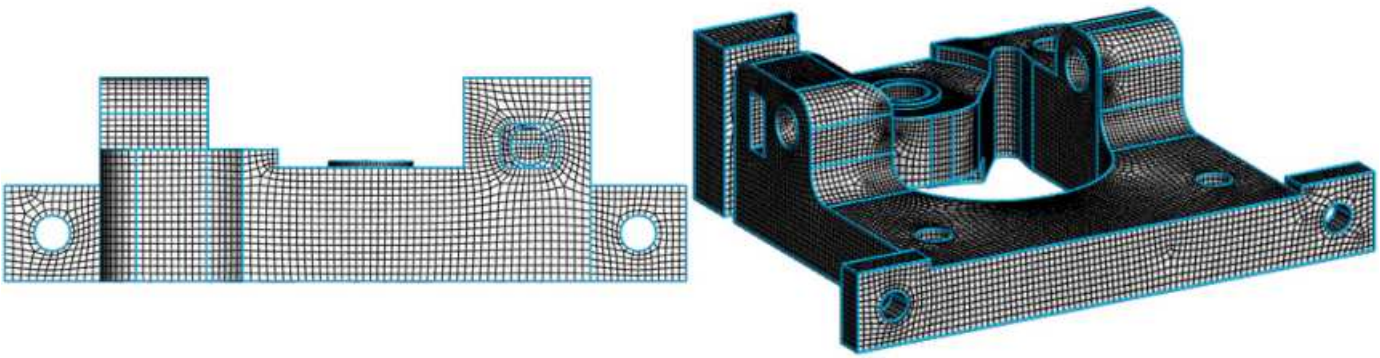


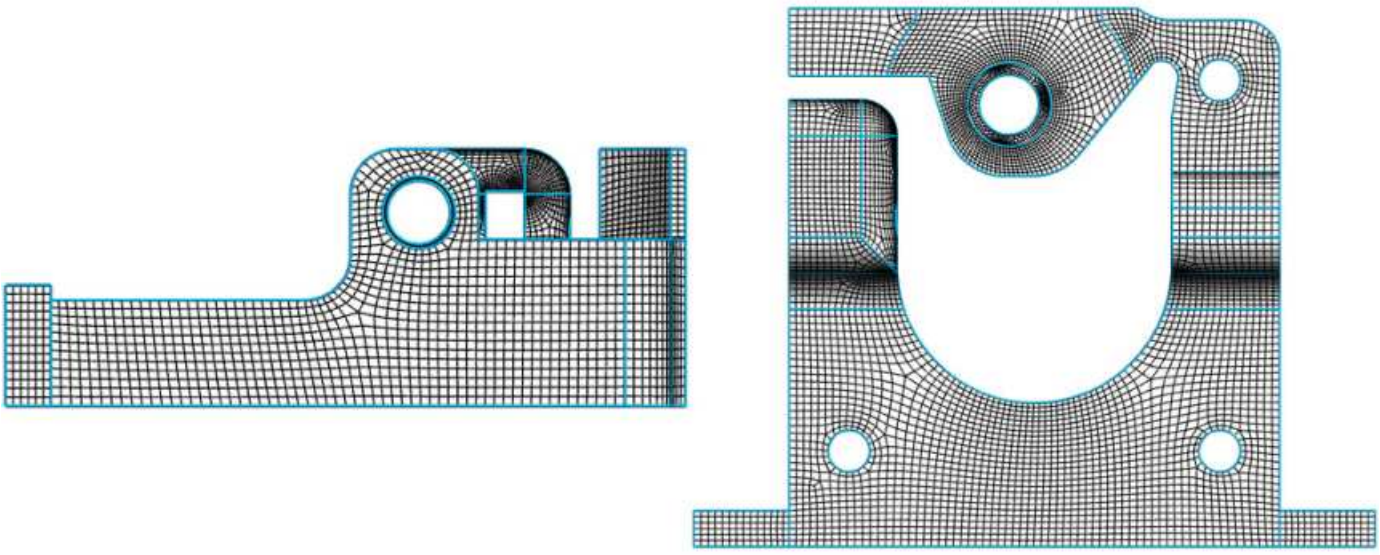
Model: 00007484 (from ABC dataset)
CAD: 156 corners, 239 curves, 82 faces
Cross field: 99 singularities detected
Timings: 11.3661 sec to generate the unstructured mesh, 8.36484 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27214	30760	1085	217
Quasi-structured	28759	32305	294	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0338651	0.487576	1.2152	0.189996	0.950796	0.985348
Quasi-structured	0.054365	0.473072	1.35274	0.380301	0.966849	0.98822



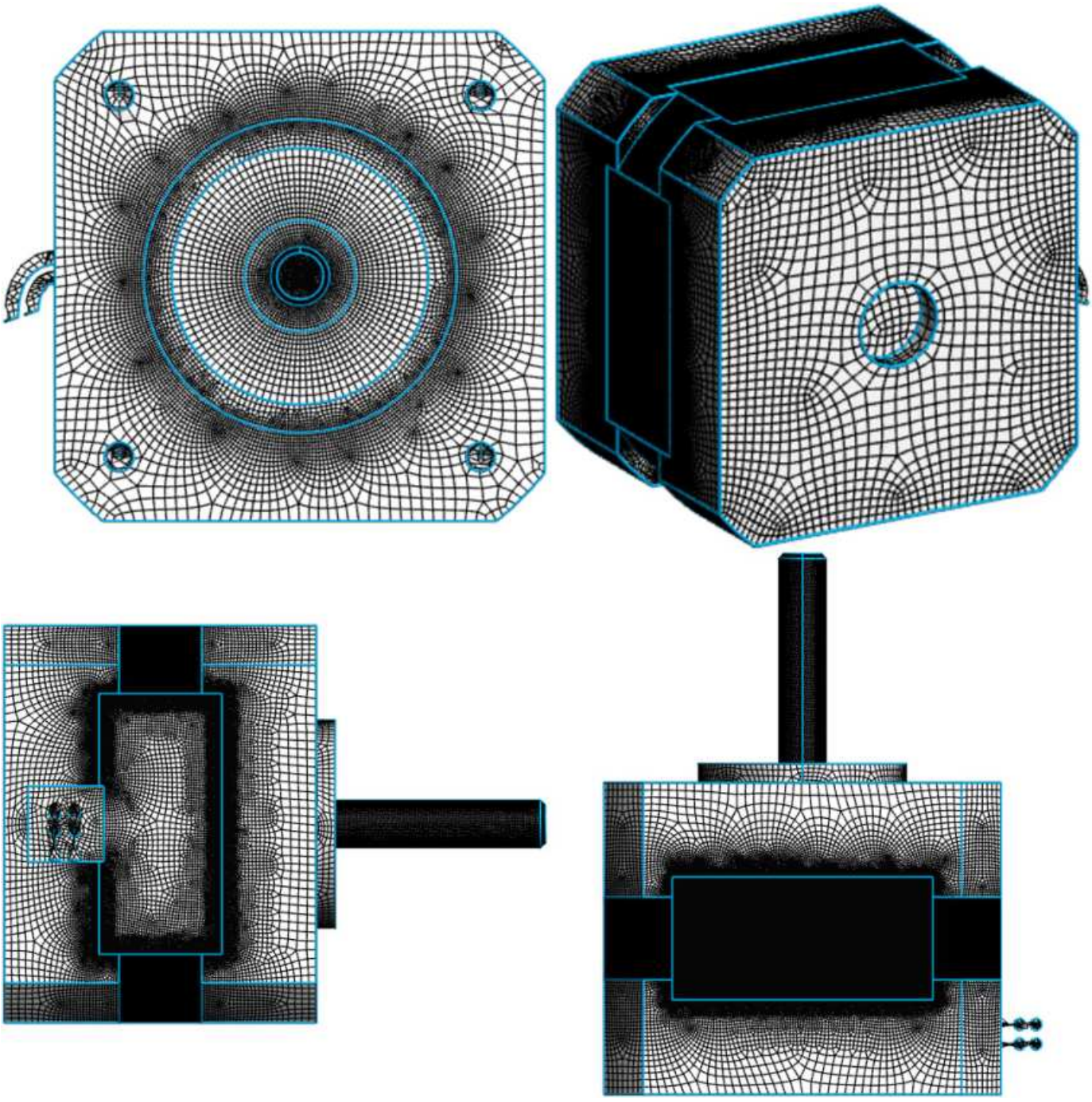


Model: 00007502 (from ABC dataset)
CAD: 127 corners, 199 curves, 83 faces
Cross field: 84 singularities detected
Timings: 28.1055 sec to generate the unstructured mesh, 595.419 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	349728	362333	5541	499
Quasi-structured	350320	362925	2925	36

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0224938	0.116548	2.2397	0.166337	0.955502	0.9986
Quasi-structured	0.0159632	0.115682	2.19735	0.10222	0.966116	0.997864

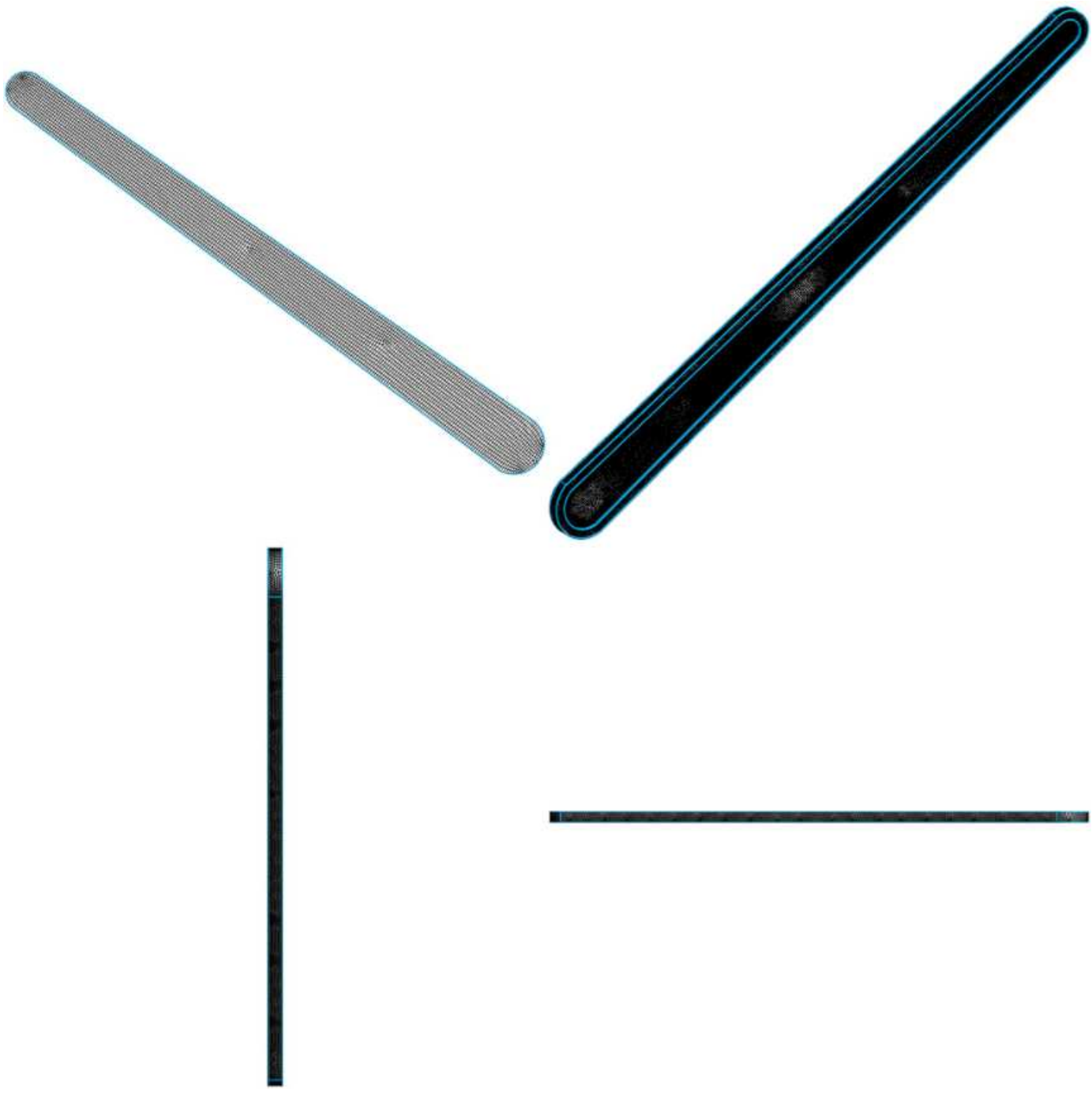


Model: 00007510 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 8 singularities detected
Timings: 4.1855 sec to generate the unstructured mesh, 280.123 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28518	32526	1588	83
Quasi-structured	30524	34532	504	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.191877	0.778589	3.16919	0.223917	0.936991	0.9865
Quasi-structured	0.187262	0.765743	2.40406	0.35432	0.930968	0.938201

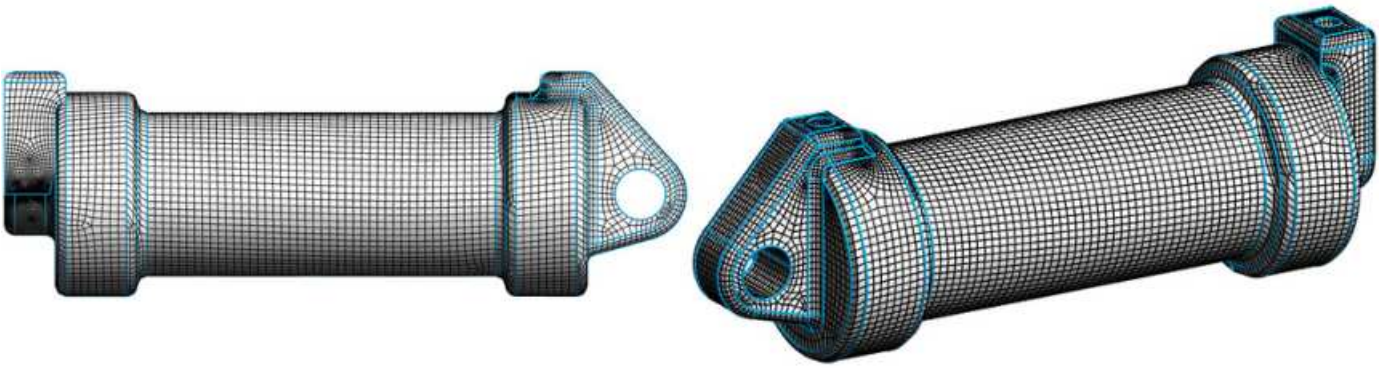


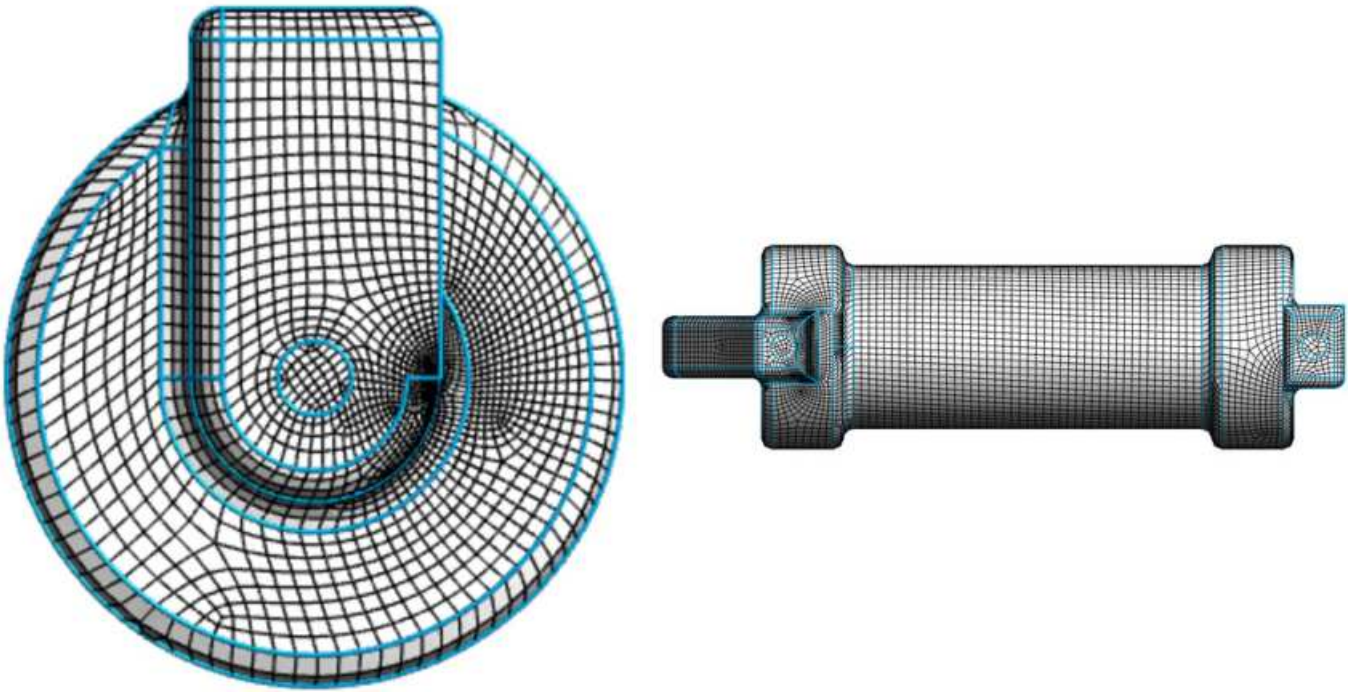
Model: 00007516 (from ABC dataset)
CAD: 84 corners, 147 curves, 65 faces
Cross field: 50 singularities detected
Timings: 8.62346 sec to generate the unstructured mesh, 9.26523 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18514	20965	772	328
Quasi-structured	19375	21826	278	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0197097	0.575171	1.57869	0.00115168	0.941584	0.987162
Quasi-structured	0.0149052	0.564724	2.53949	0.0109012	0.942816	0.989027



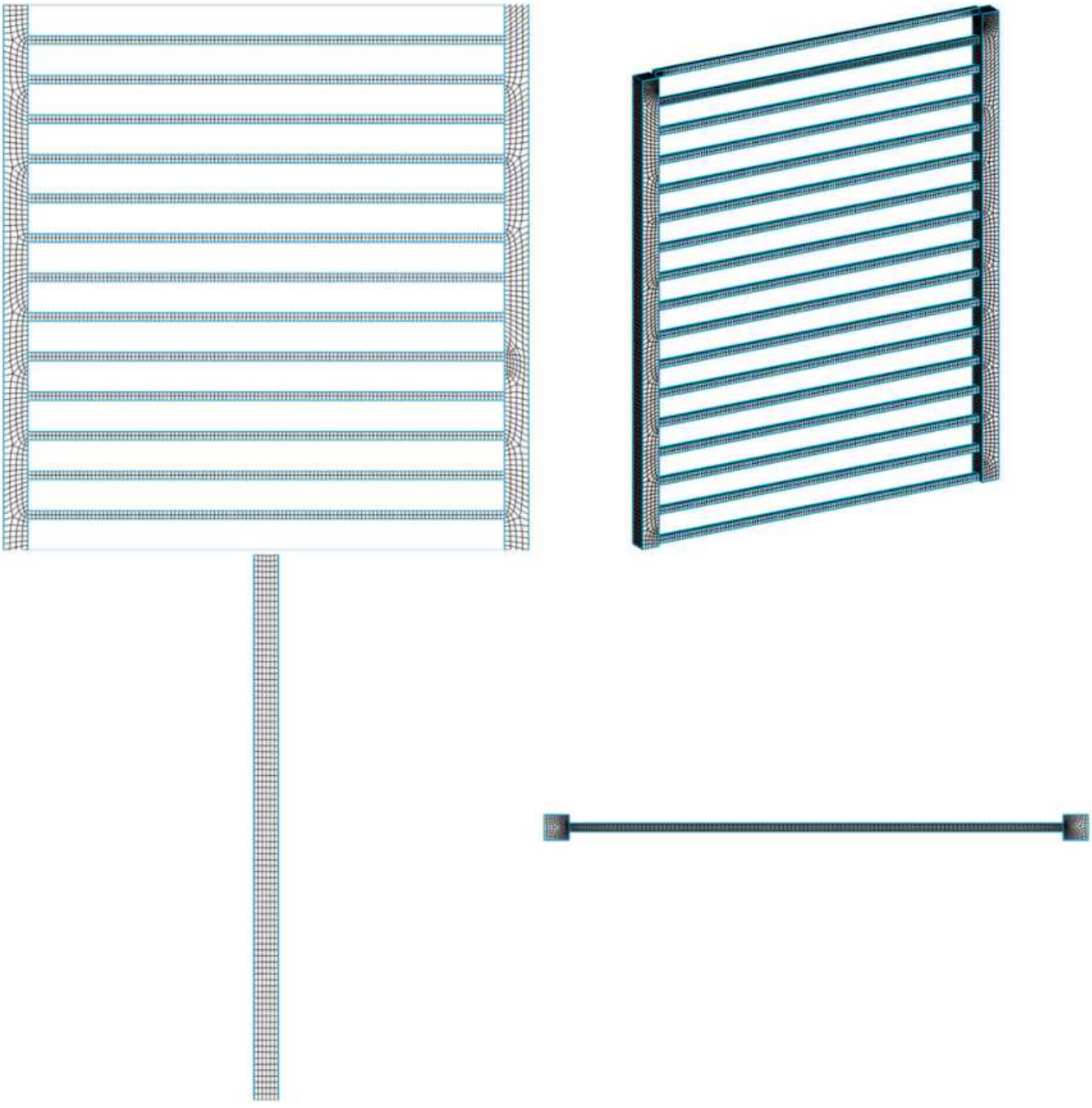


Model: 00007522 (from ABC dataset)
CAD: 156 corners, 236 curves, 80 faces
Cross field: 1 singularities detected
Timings: 7.51077 sec to generate the unstructured mesh, 37.6806 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25036	34830	426	19
Quasi-structured	25283	35077	120	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.35317	12.0734	26.4884	0.377937	0.93149	0.999874
Quasi-structured	1.44587	12.0621	31.1755	0.473753	0.933042	0.999874



Model: 00007527 (from ABC dataset)
CAD: 140 corners, 210 curves, 72 faces
Cross field: 60 singularities detected
Timings: 12.0797 sec to generate the unstructured mesh, 18.6226 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17192	19304	792	38
Quasi-structured	17915	20027	280	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0305518	0.736011	5.03576	0.07777	0.935886	0.975397
Quasi-structured	0.0268374	0.723546	5.03576	0.0969772	0.953698	0.983526



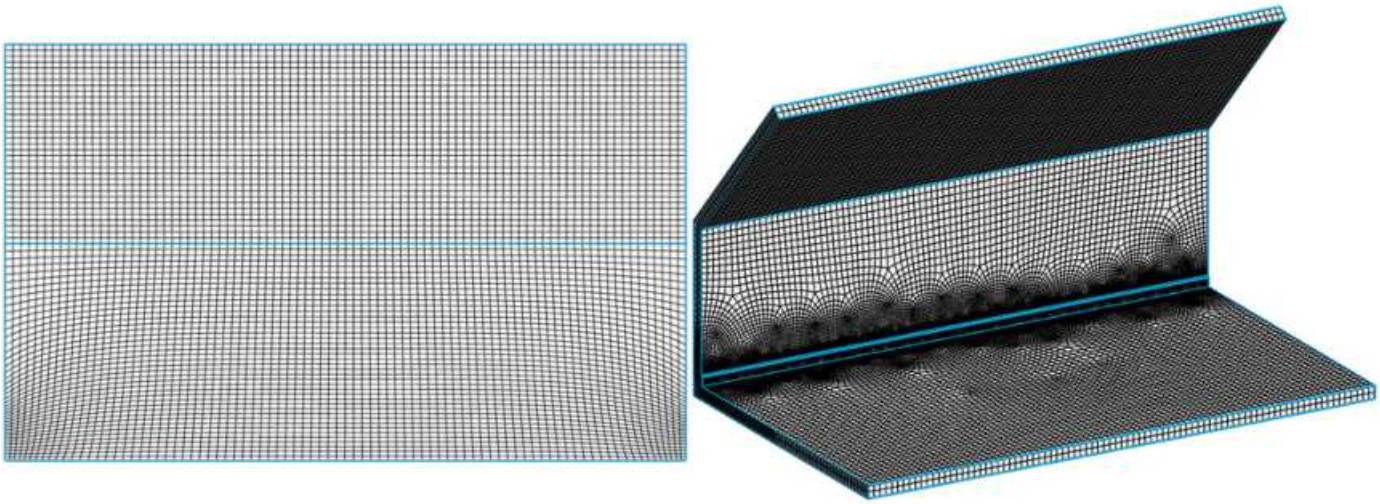


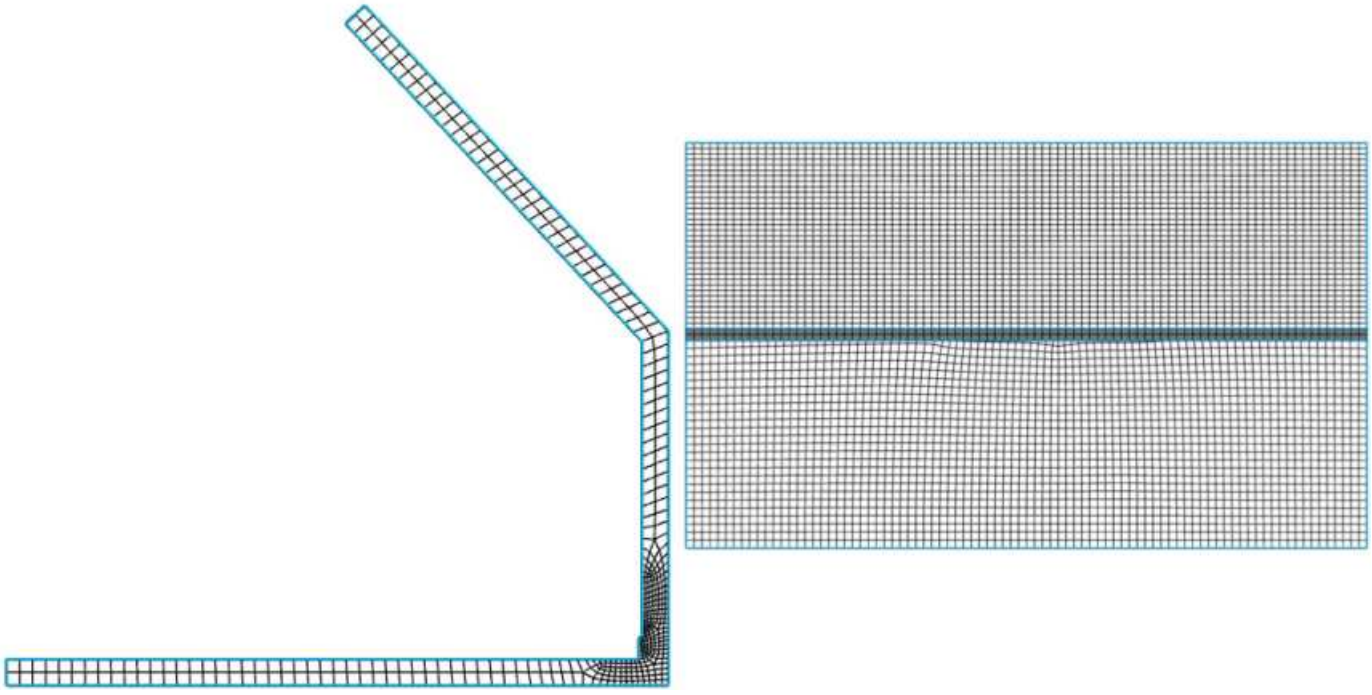
Model: 00007551 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 2 singularities detected
Timings: 11.9862 sec to generate the unstructured mesh, 84.4818 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34006	36452	869	58
Quasi-structured	34851	37297	238	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	3.80736	33.3817	67.9957	0.352168	0.93665	0.995865
Quasi-structured	2.7035	32.8057	86.8041	0.52427	0.959412	0.990258



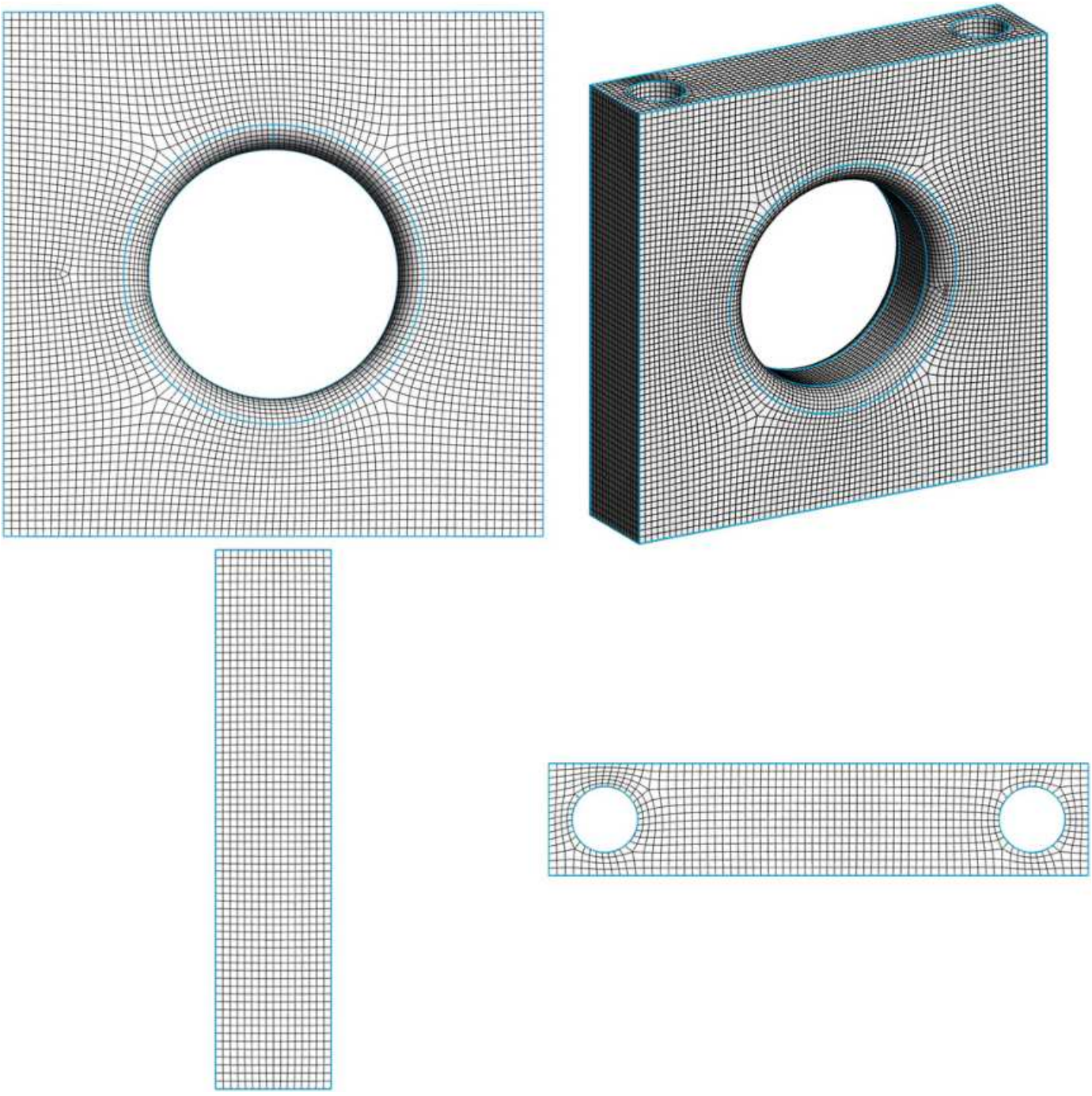


Model: 00007573 (from ABC dataset)
CAD: 16 corners, 25 curves, 11 faces
Cross field: 24 singularities detected
Timings: 15.8794 sec to generate the unstructured mesh, 2.36681 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21344	22672	208	203
Quasi-structured	21296	22624	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.263256	1.37139	2.67206	0.353611	0.971962	0.998388
Quasi-structured	0.420514	1.36864	3.97388	0.572621	0.992155	0.997659

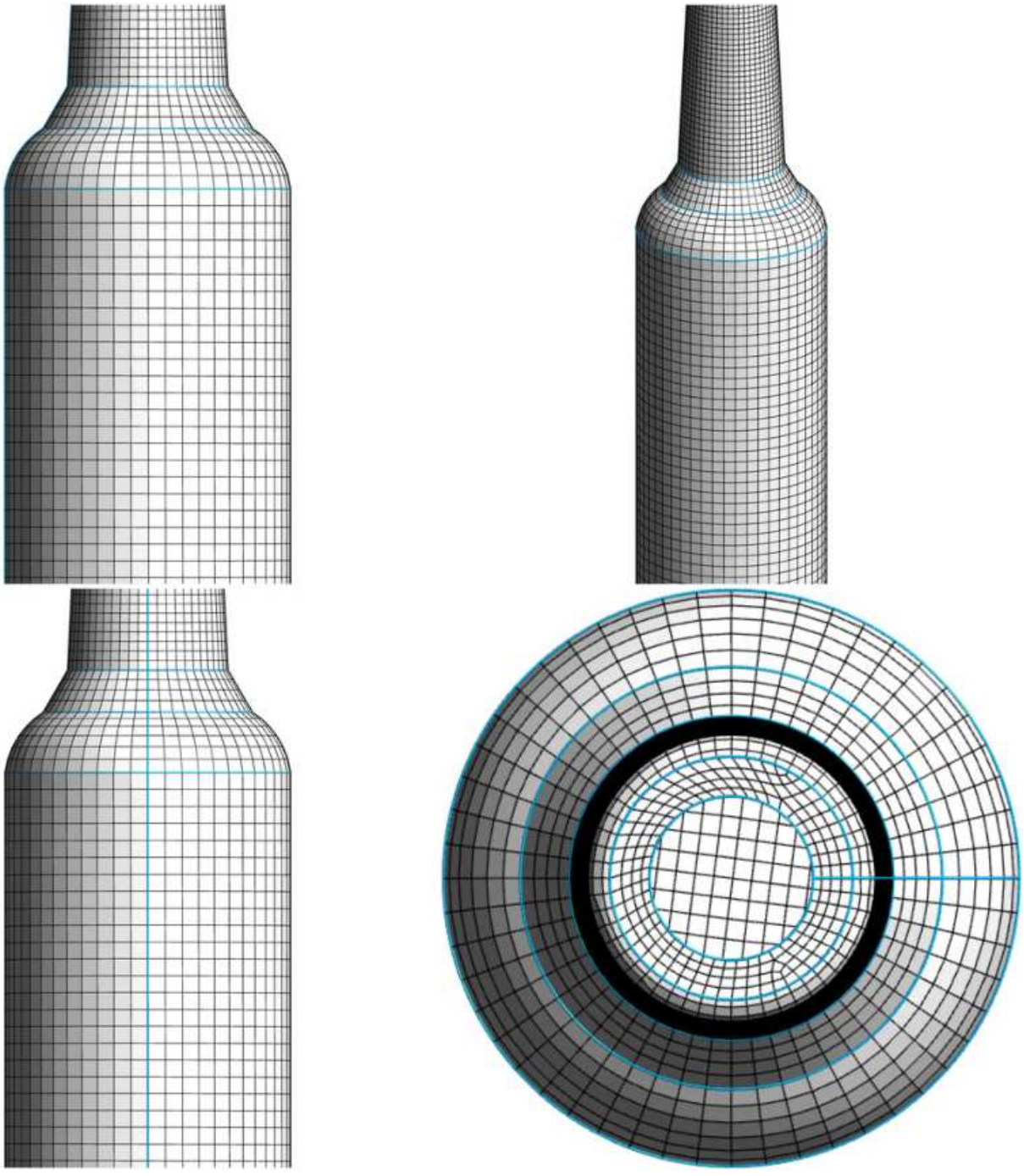


Model: 00007603 (from ABC dataset)
CAD: 16 corners, 28 curves, 14 faces
Cross field: 8 singularities detected
Timings: 11.3611 sec to generate the unstructured mesh, 9.08778 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12984	13656	154	242
Quasi-structured	12896	13568	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.083555	1.44627	3.66604	0.132873	0.968803	0.999412
Quasi-structured	0.341318	1.45223	2.6503	0.615039	0.990878	0.999639

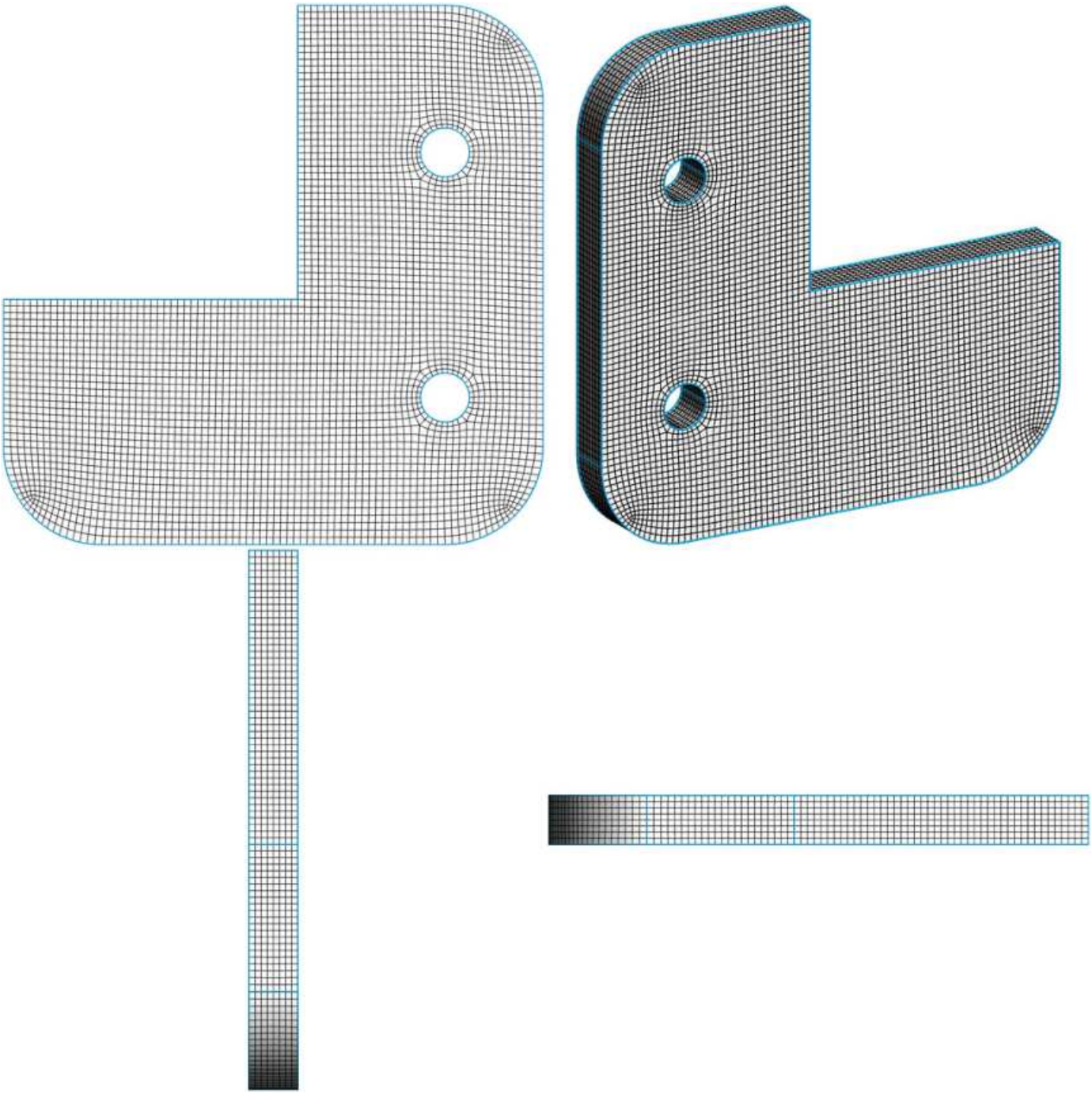


Model: 00007611 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 22 singularities detected
Timings: 6.7439 sec to generate the unstructured mesh, 0.890857 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11778	12573	102	21
Quasi-structured	11556	12351	22	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.404927	1.33266	2.30112	0.576071	0.983592	0.996422
Quasi-structured	0.565651	1.34347	2.15987	0.773391	0.99346	0.99711

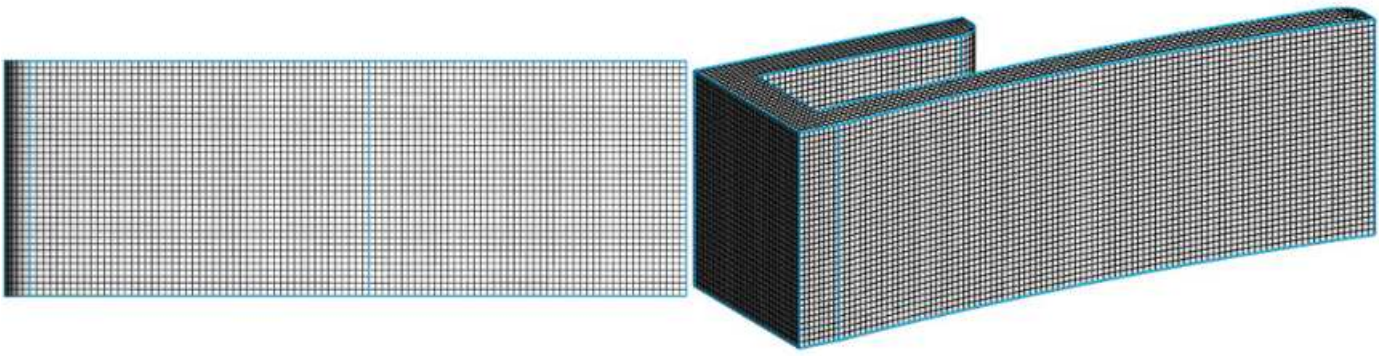


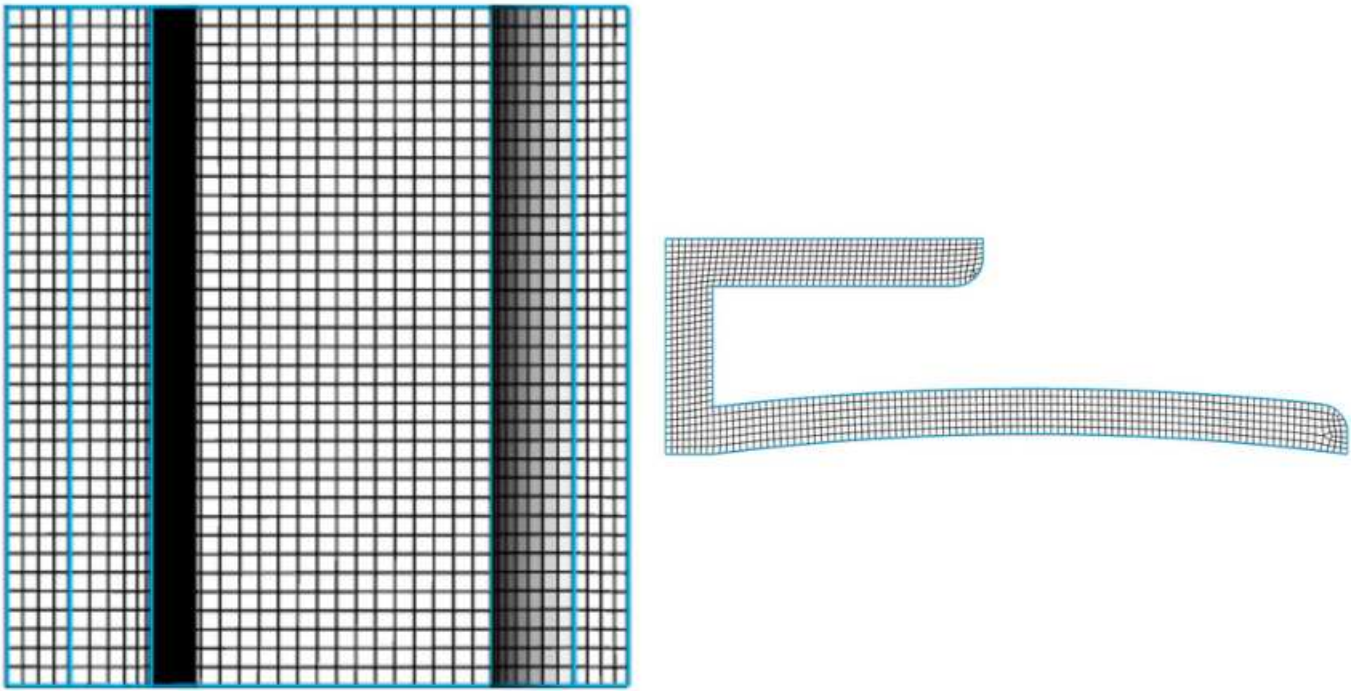
Model: 00007617 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 4 singularities detected
Timings: 10.5316 sec to generate the unstructured mesh, 1.17597 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14816	15921	16	0
Quasi-structured	14824	15929	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.107748	0.281454	0.412927	0.194946	0.993333	0.999379
Quasi-structured	0.104761	0.28124	0.368033	0.671964	0.996129	0.999346



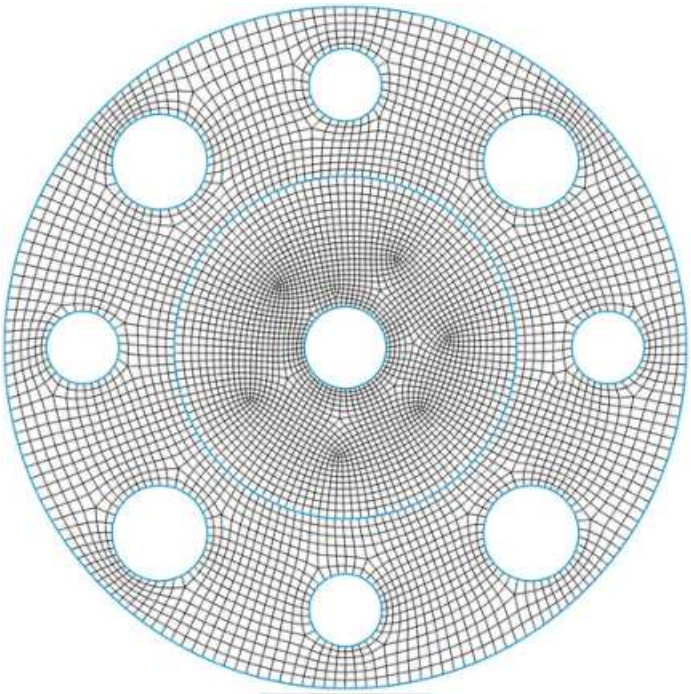


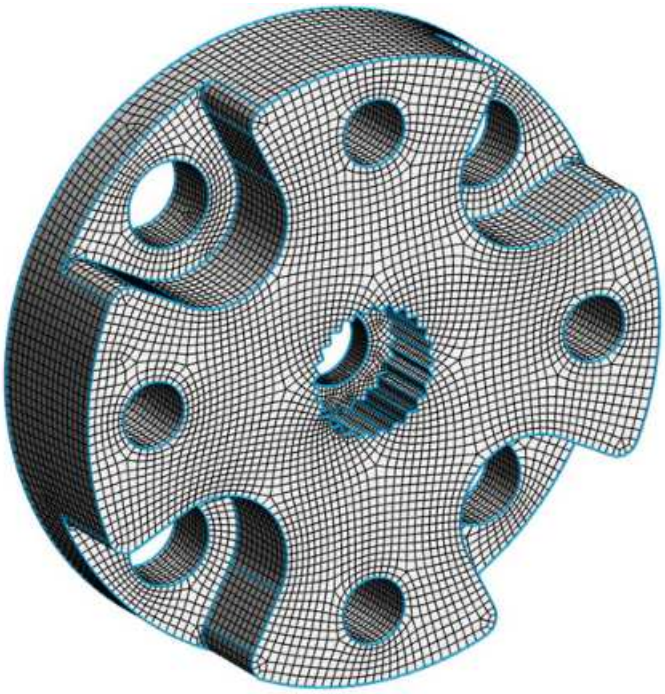
Model: 00007624 (from ABC dataset)
CAD: 170 corners, 253 curves, 87 faces
Cross field: 92 singularities detected
Timings: 13.1908 sec to generate the unstructured mesh, 11.6926 sec to make it quasi-structured
Mesh topology:

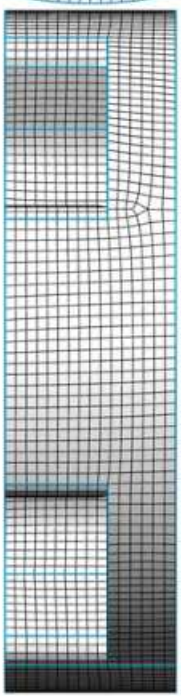
	# quads	# vertices	# irregular	# very irregular
Unstructured	20302	23250	636	174
Quasi-structured	20799	23747	282	0

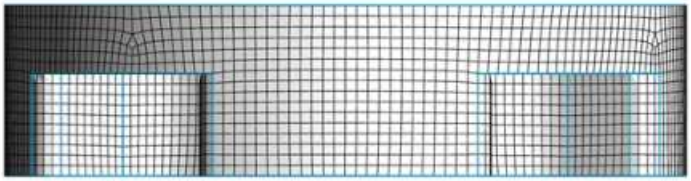
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.05466	0.303083	0.651767	0.00095417	0.958505	0.987648
Quasi-structured	0.0404179	0.299579	0.642685	0.17801	0.974956	0.993732







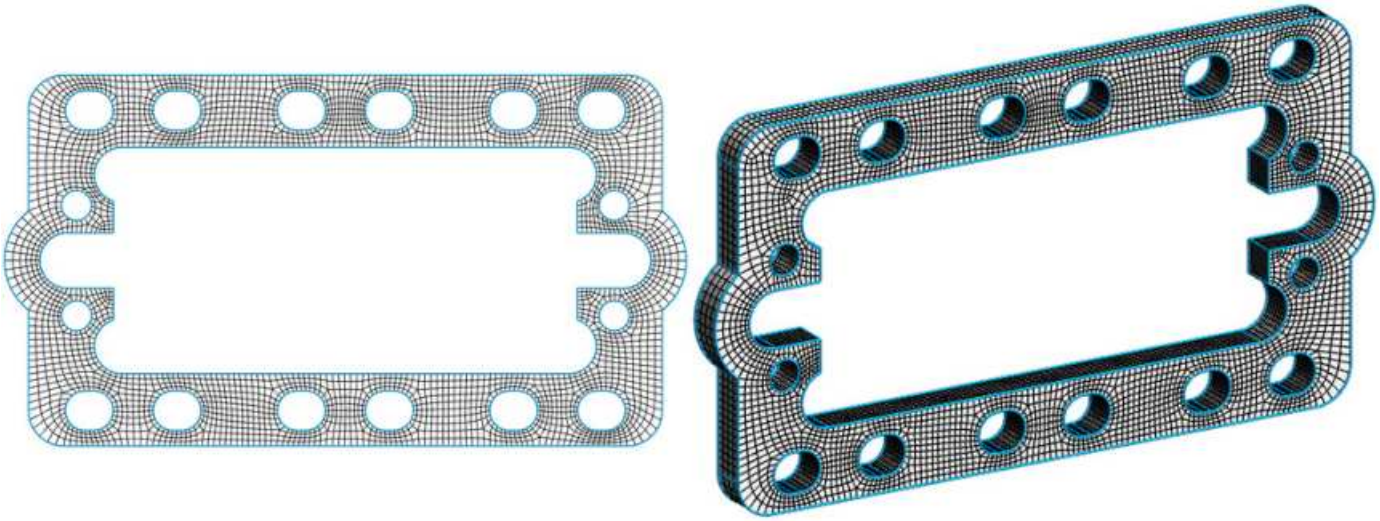


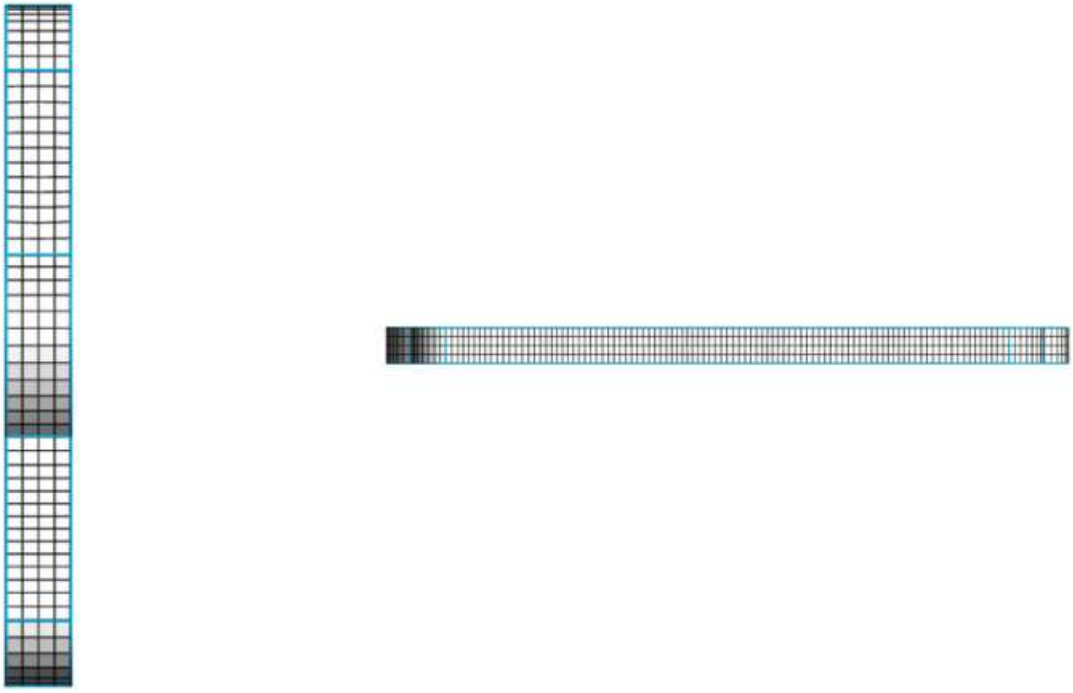
Model: 00007625 (from ABC dataset)
CAD: 160 corners, 240 curves, 82 faces
Cross field: 136 singularities detected
Timings: 11.2237 sec to generate the unstructured mesh, 1.57959 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14522	17420	401	53
Quasi-structured	14698	17596	158	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.141153	0.465329	1.05505	0.28937	0.949856	0.970821
Quasi-structured	0.209276	0.462145	1.35396	0.51645	0.95646	0.972937



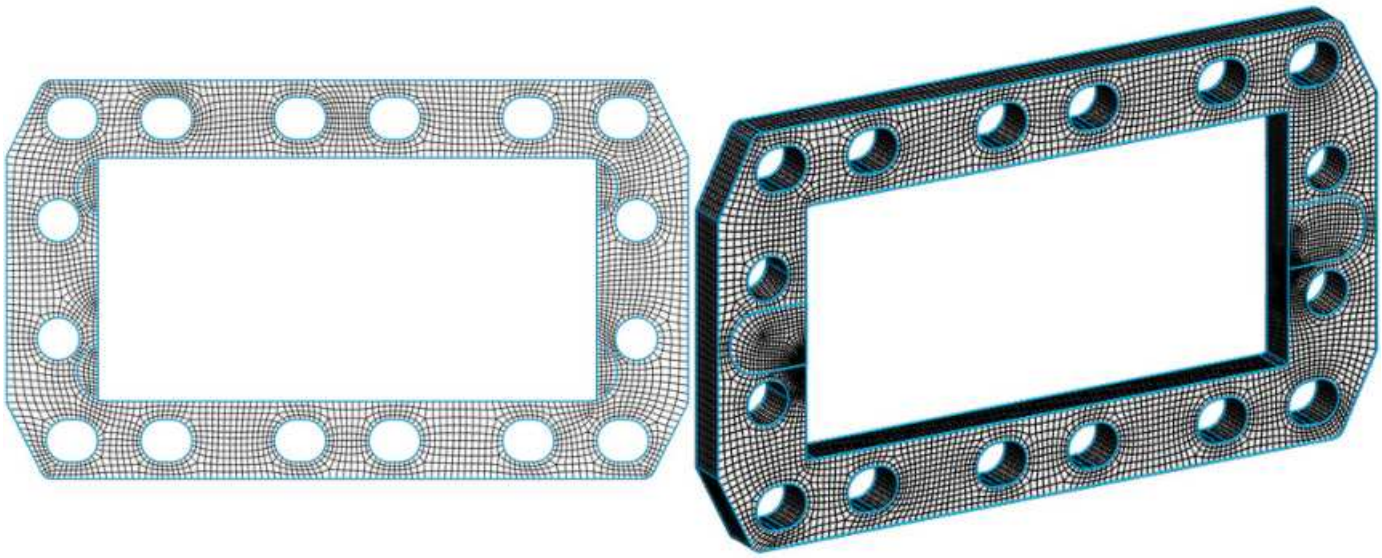


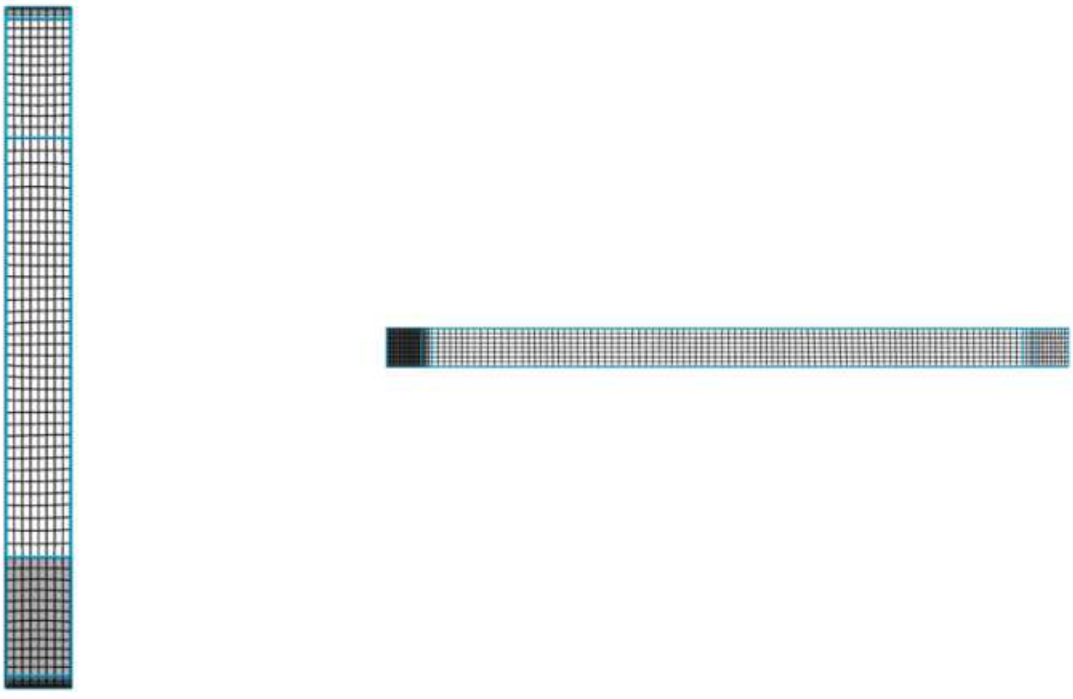
Model: 00007626 (from ABC dataset)
CAD: 162 corners, 240 curves, 80 faces
Cross field: 144 singularities detected
Timings: 13.7941 sec to generate the unstructured mesh, 8.08727 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18674	21816	725	62
Quasi-structured	19097	22239	210	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0301008	0.402962	0.974672	0.149349	0.938146	0.963733
Quasi-structured	0.03791	0.399859	1.01839	0.491927	0.95156	0.968398



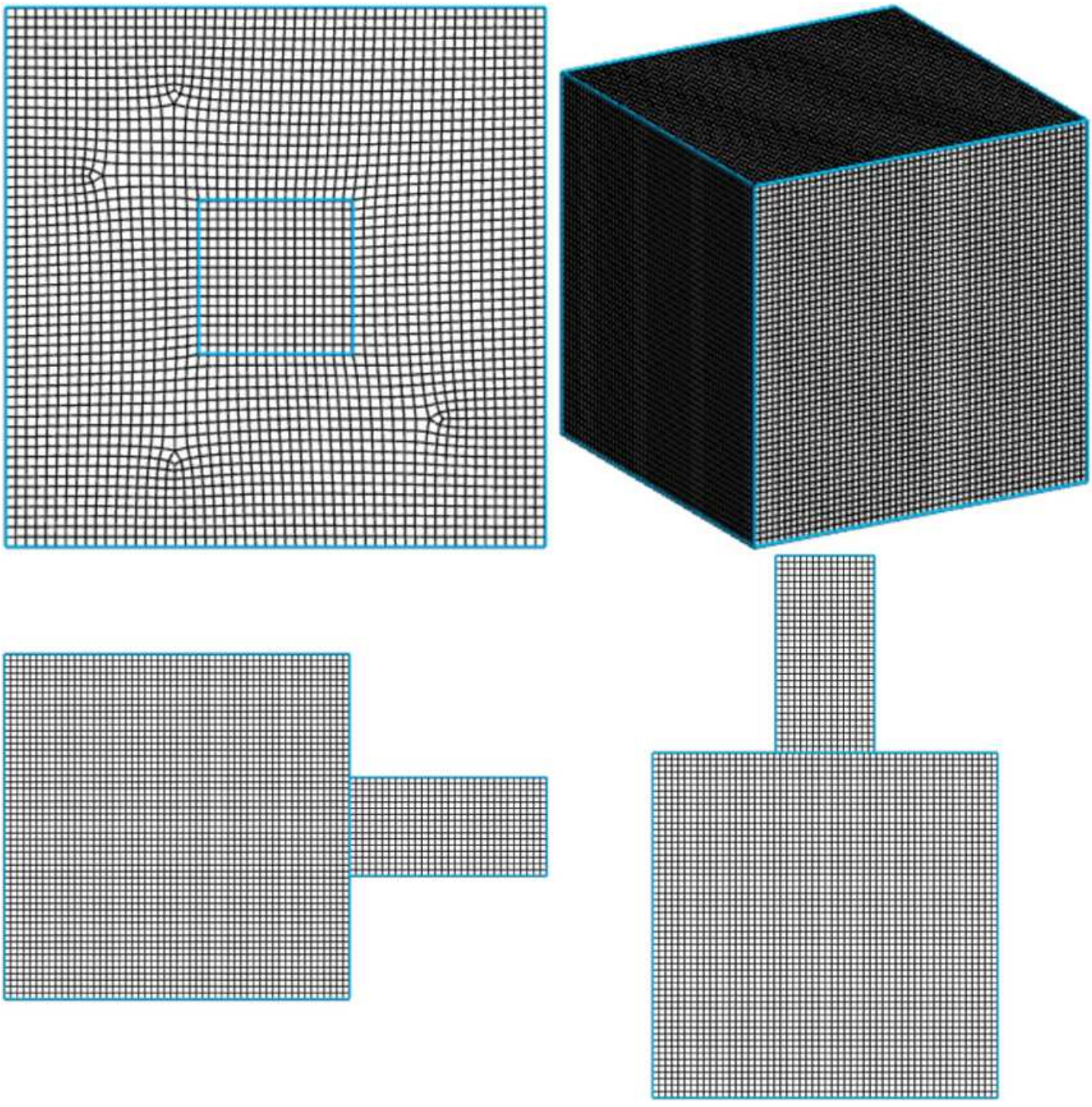


Model: 00007652 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 13.5351 sec to generate the unstructured mesh, 0.961303 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19292	20198	24	0
Quasi-structured	19284	20190	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.182699	0.330306	0.473444	0.664744	0.997941	1
Quasi-structured	0.210025	0.330264	0.453445	0.841342	0.999289	1

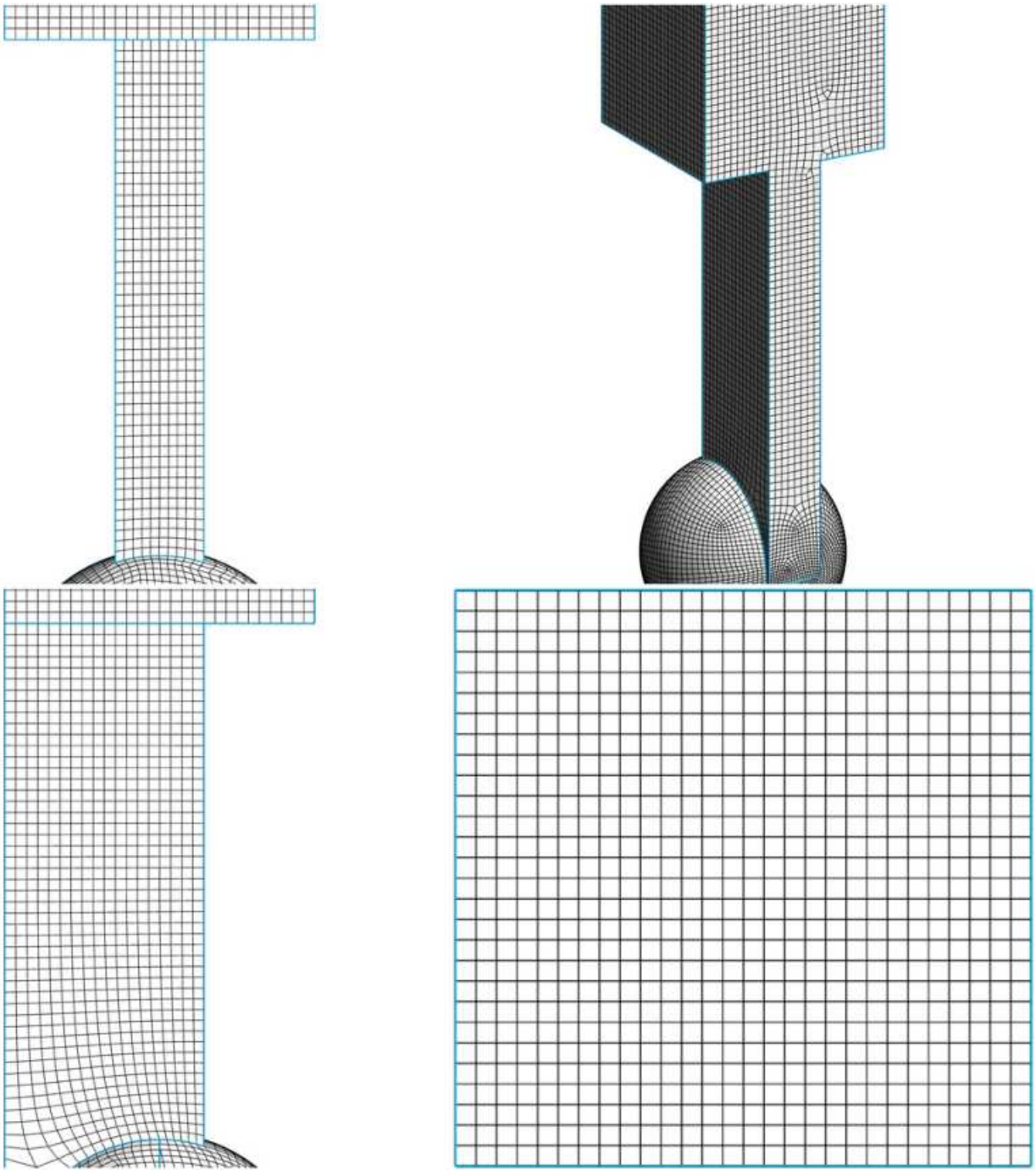


Model: 00007654 (from ABC dataset)
CAD: 21 corners, 32 curves, 12 faces
Cross field: 12 singularities detected
Timings: 7.99338 sec to generate the unstructured mesh, 1.32455 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11244	11990	200	50
Quasi-structured	11294	12040	33	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0125882	0.574663	1.67353	0.0375405	0.973675	0.999486
Quasi-structured	0.0206851	0.572348	1.87607	0.0375405	0.979285	0.999582

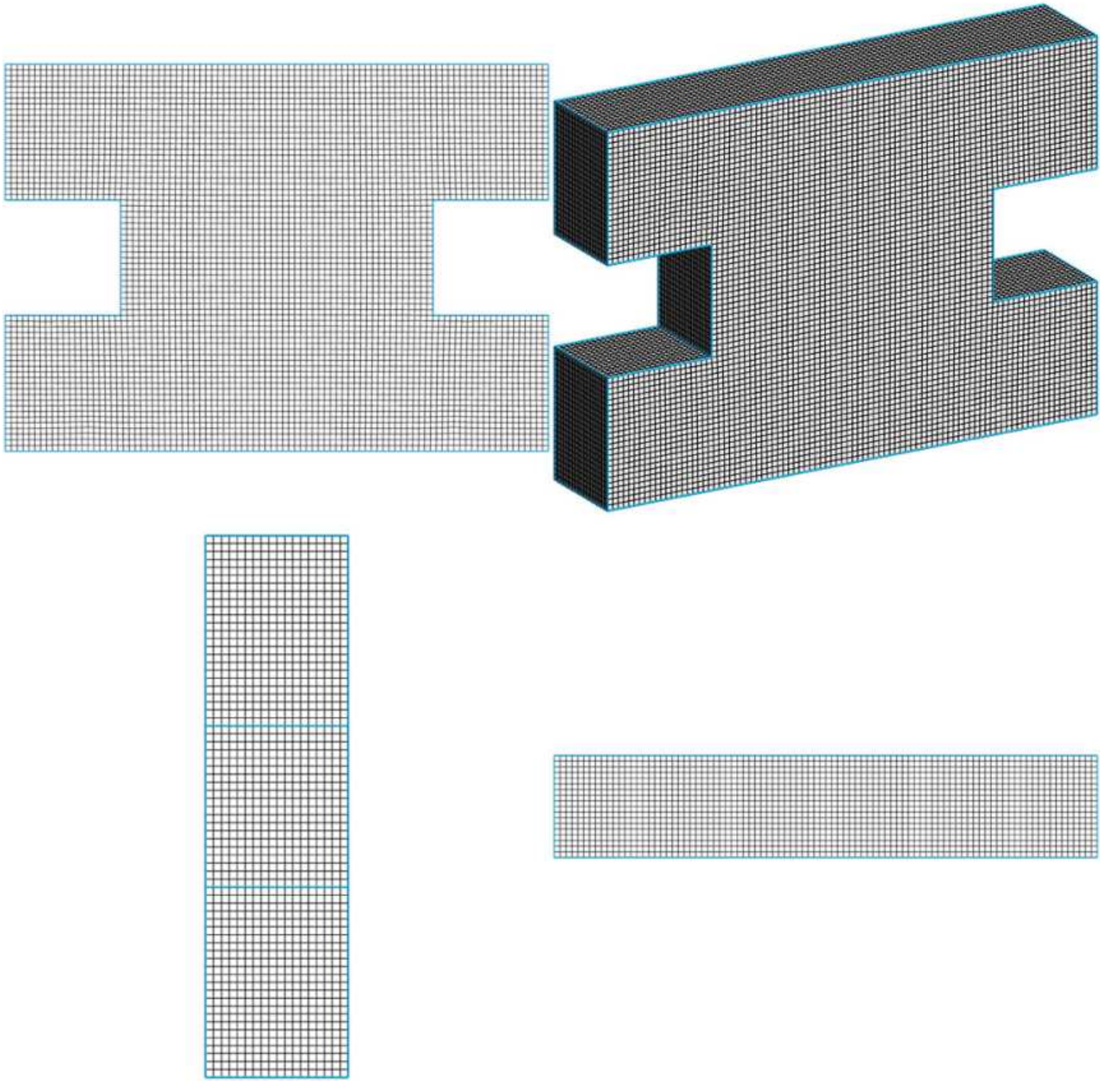


Model: 00007655 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 11.9757 sec to generate the unstructured mesh, 1.65693 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17752	18782	16	0
Quasi-structured	18112	19142	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0856731	0.218247	0.293128	0.59648	0.995633	0.999282
Quasi-structured	0.185286	0.216	0.236548	0.974401	0.999168	0.999095

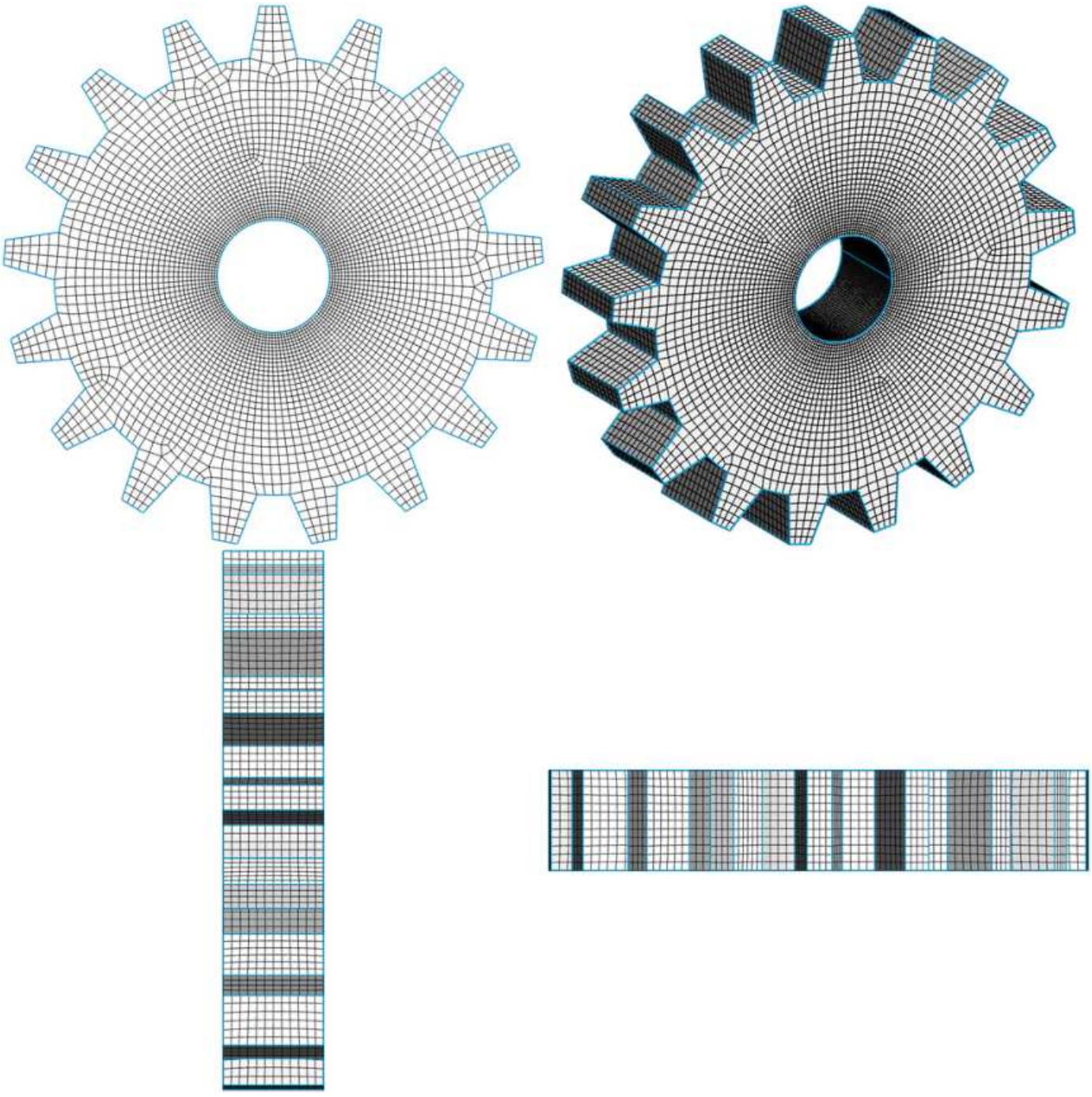


Model: 00007657 (from ABC dataset)
CAD: 138 corners, 207 curves, 71 faces
Cross field: 0 singularities detected
Timings: 12.8557 sec to generate the unstructured mesh, 3.72648 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16260	18076	223	50
Quasi-structured	16441	18257	52	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0946854	0.353786	0.937779	0.374112	0.978042	0.9967
Quasi-structured	0.166615	0.352846	0.912187	0.765843	0.993059	0.997855

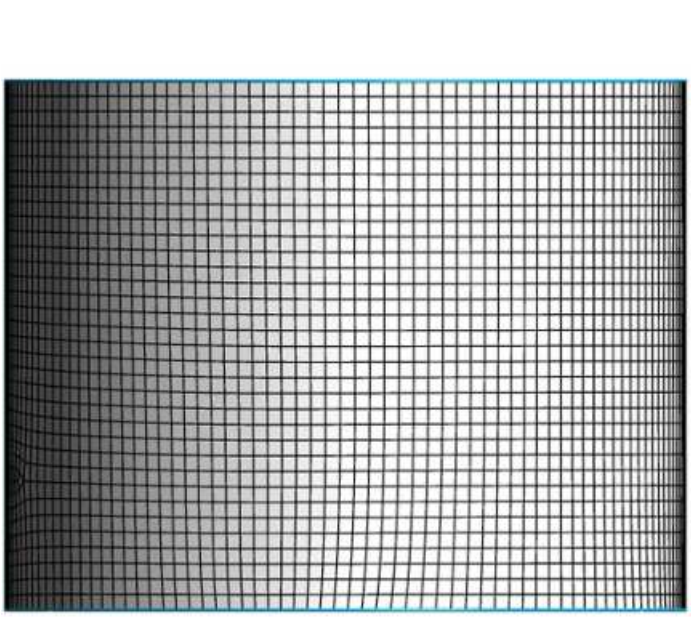
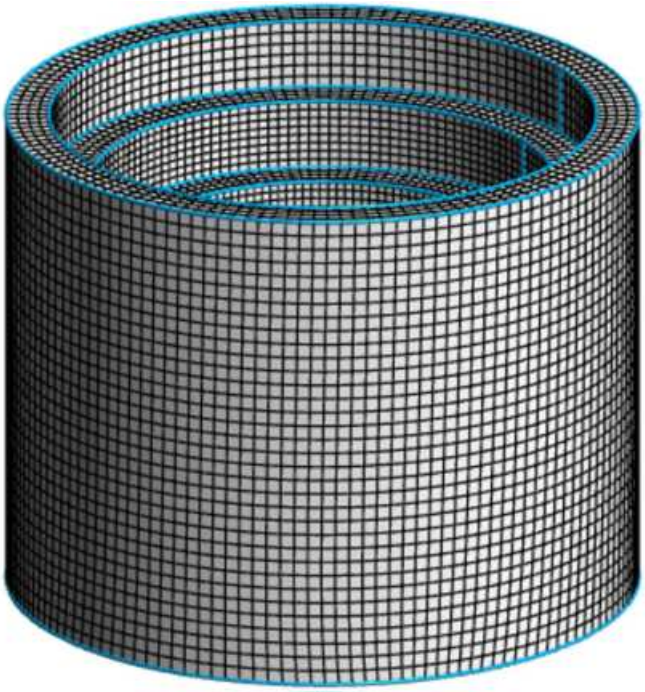
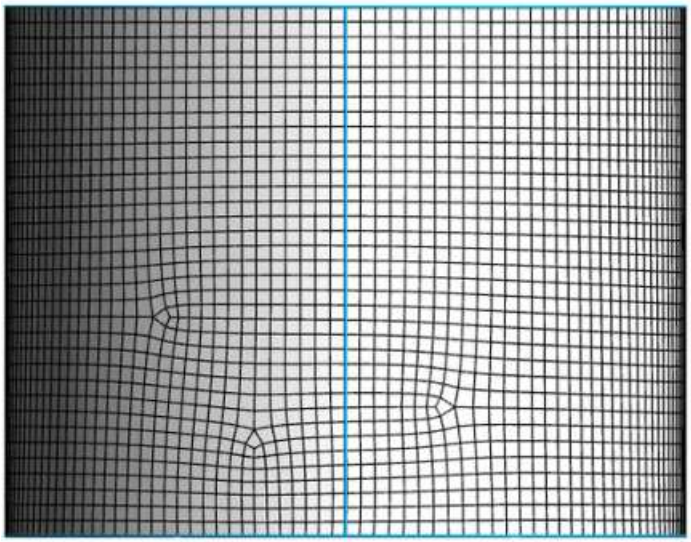
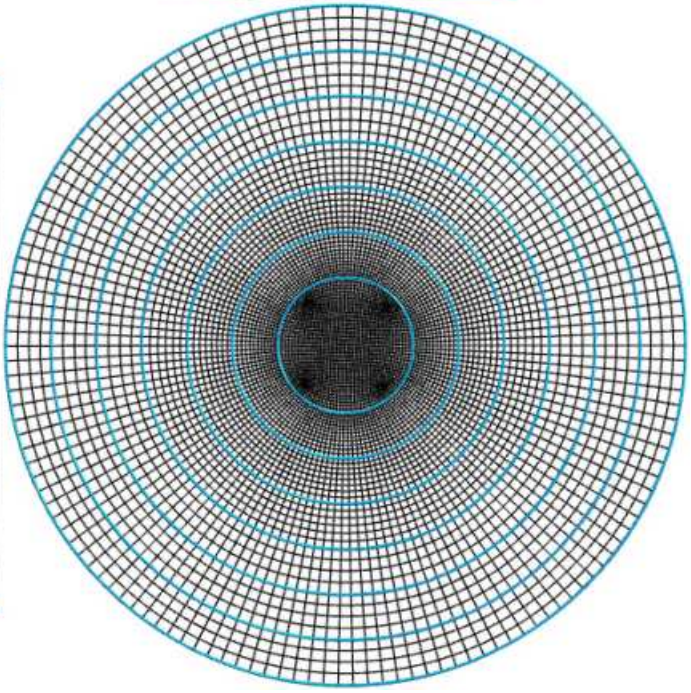


Model: 00007670 (from ABC dataset)
CAD: 14 corners, 21 curves, 15 faces
Cross field: 8 singularities detected
Timings: 20.7656 sec to generate the unstructured mesh, 3.18926 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25040	27026	108	115
Quasi-structured	25002	26988	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0643809	0.568173	1.59398	0.508871	0.98182	0.997418
Quasi-structured	0.0710743	0.565866	1.31306	0.837363	0.995842	0.998151

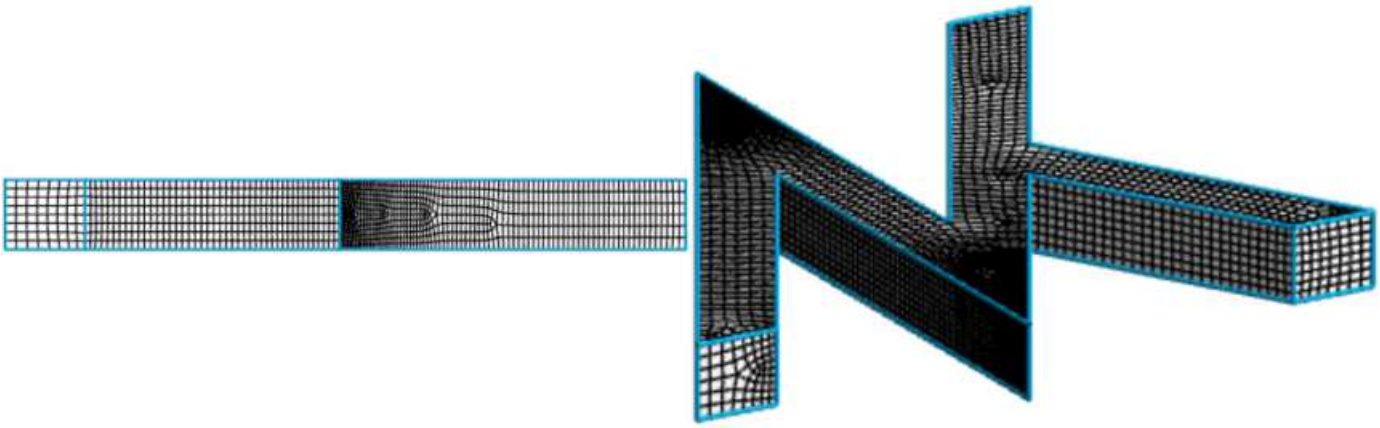





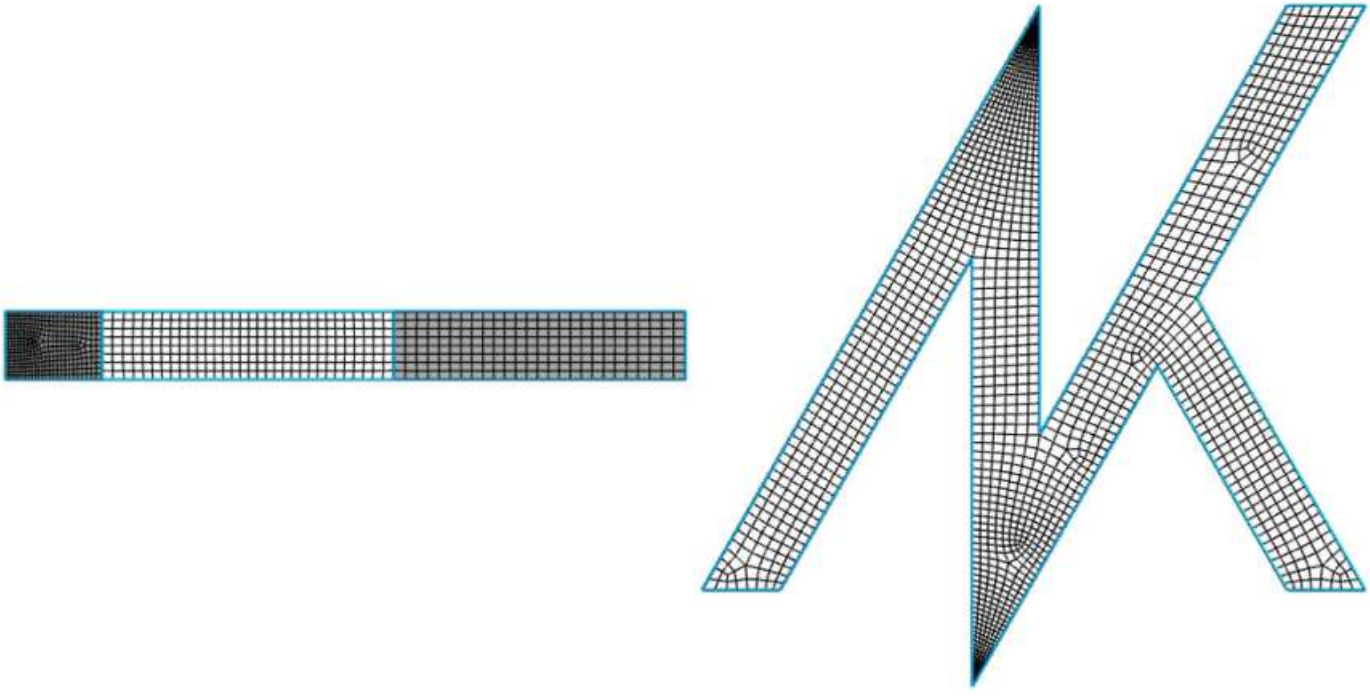
Model: 00007685 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 2 singularities detected
Timings: 3.48174 sec to generate the unstructured mesh, 1.31048 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7706	8762	163	7
Quasi-structured	8125	9181	55	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0230401	0.116902	0.281565	0.450549	0.96444	0.990883
Quasi-structured	0.0137744	0.113062	0.292867	0.498051	0.962963	0.987753



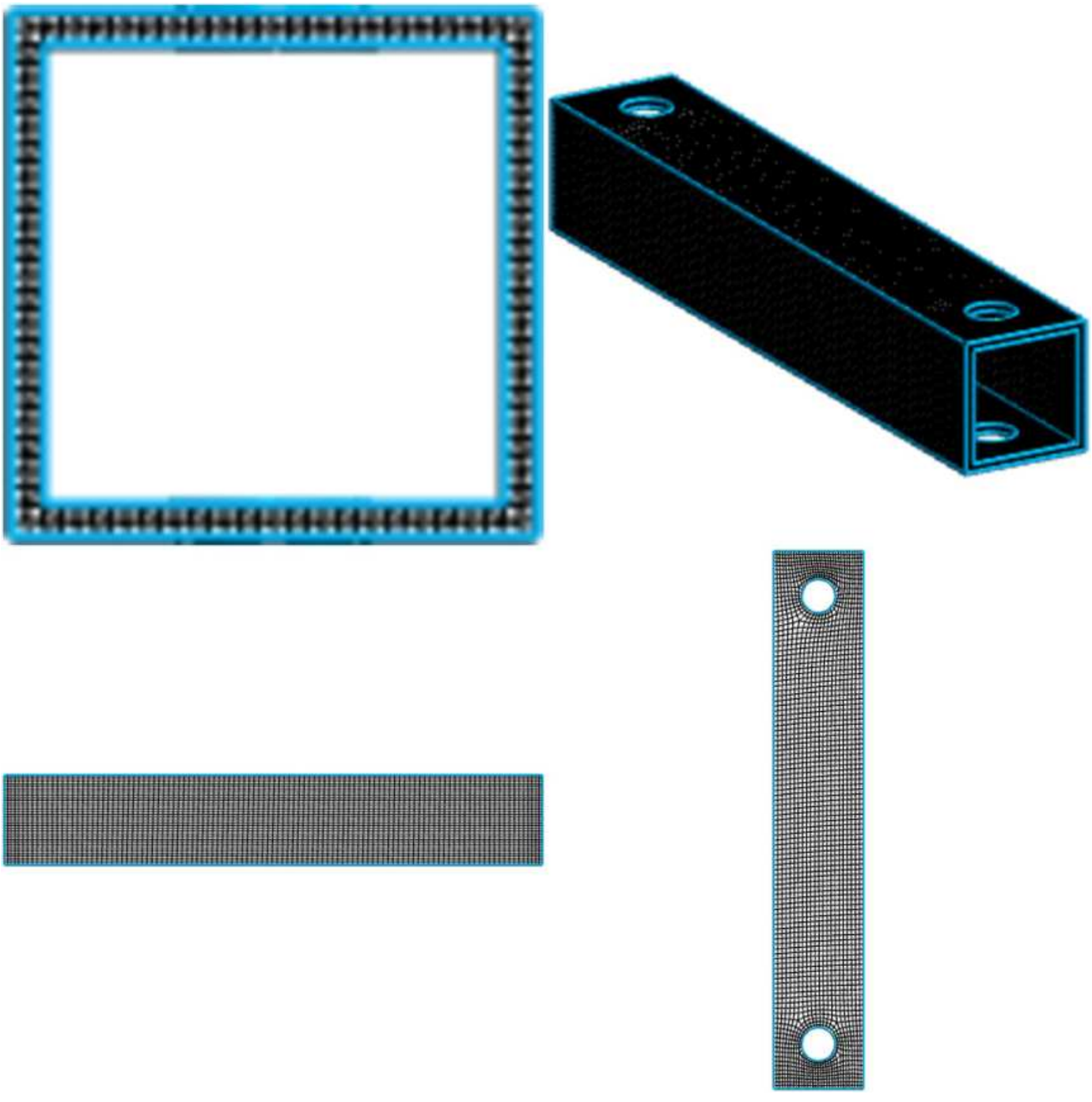


Model: 00007687 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 32 singularities detected
Timings: 10.6958 sec to generate the unstructured mesh, 3.06167 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23036	24720	294	13
Quasi-structured	24328	26012	38	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.380843	2.26125	4.49349	0.401419	0.910454	0.881508
Quasi-structured	0.730221	2.21565	4.26743	0.462223	0.911504	0.899621

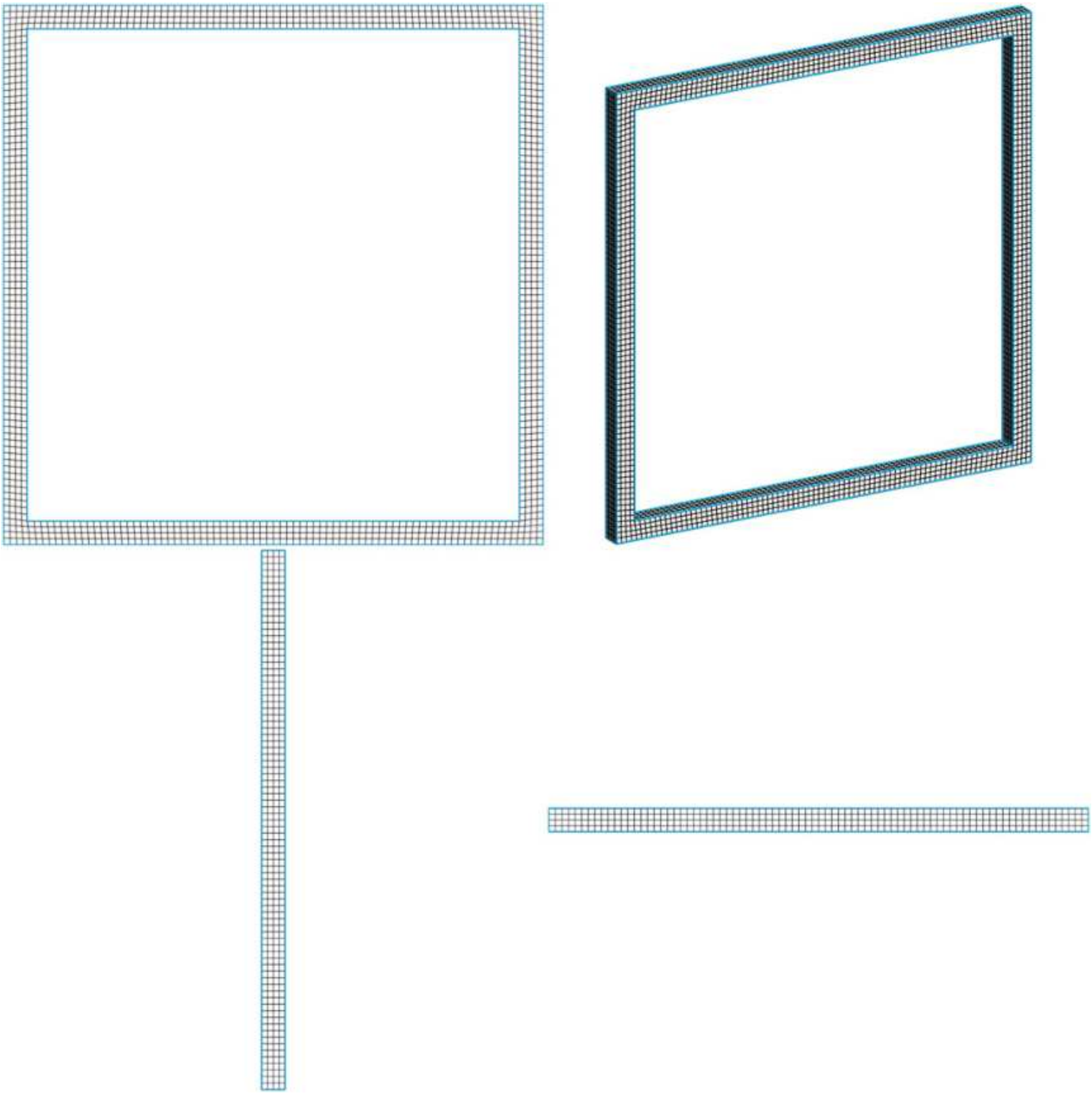


Model: 00007731 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 2.88094 sec to generate the unstructured mesh, 0.383333 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	4992	6280	0	0
Quasi-structured	4992	6280	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	5.41237	6.76516	8.04605	0.932365	0.985337	0.993416
Quasi-structured	6.19763	6.76115	7.20811	0.943461	0.991439	0.99202

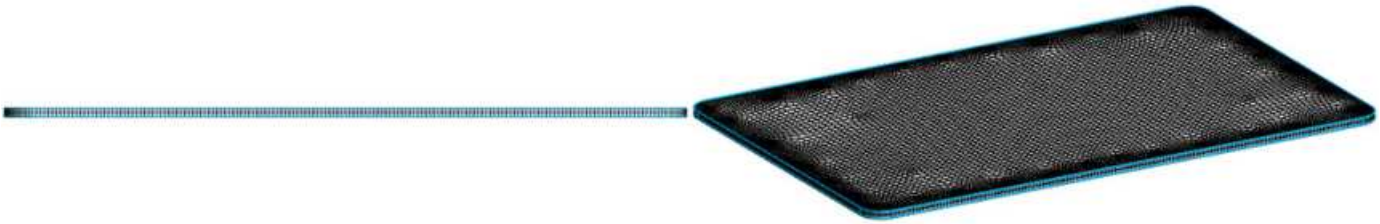


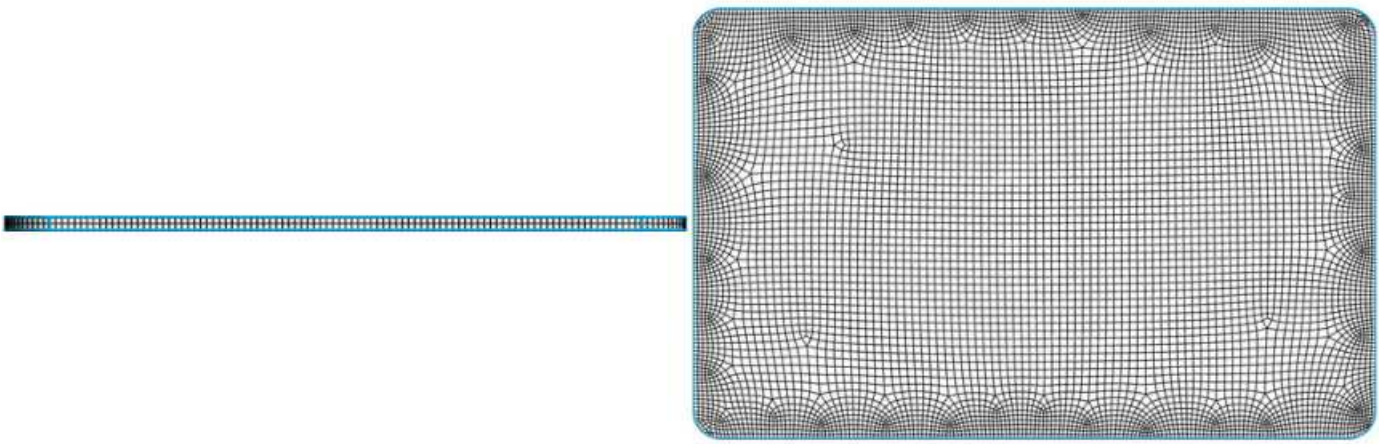
Model: 00007737 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 8.96155 sec to generate the unstructured mesh, 19.5911 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16006	17128	444	60
Quasi-structured	16096	17218	300	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.238012	0.745857	1.55818	0.130526	0.957638	0.996033
Quasi-structured	0.191379	0.735934	1.54699	0.448419	0.984511	0.997799



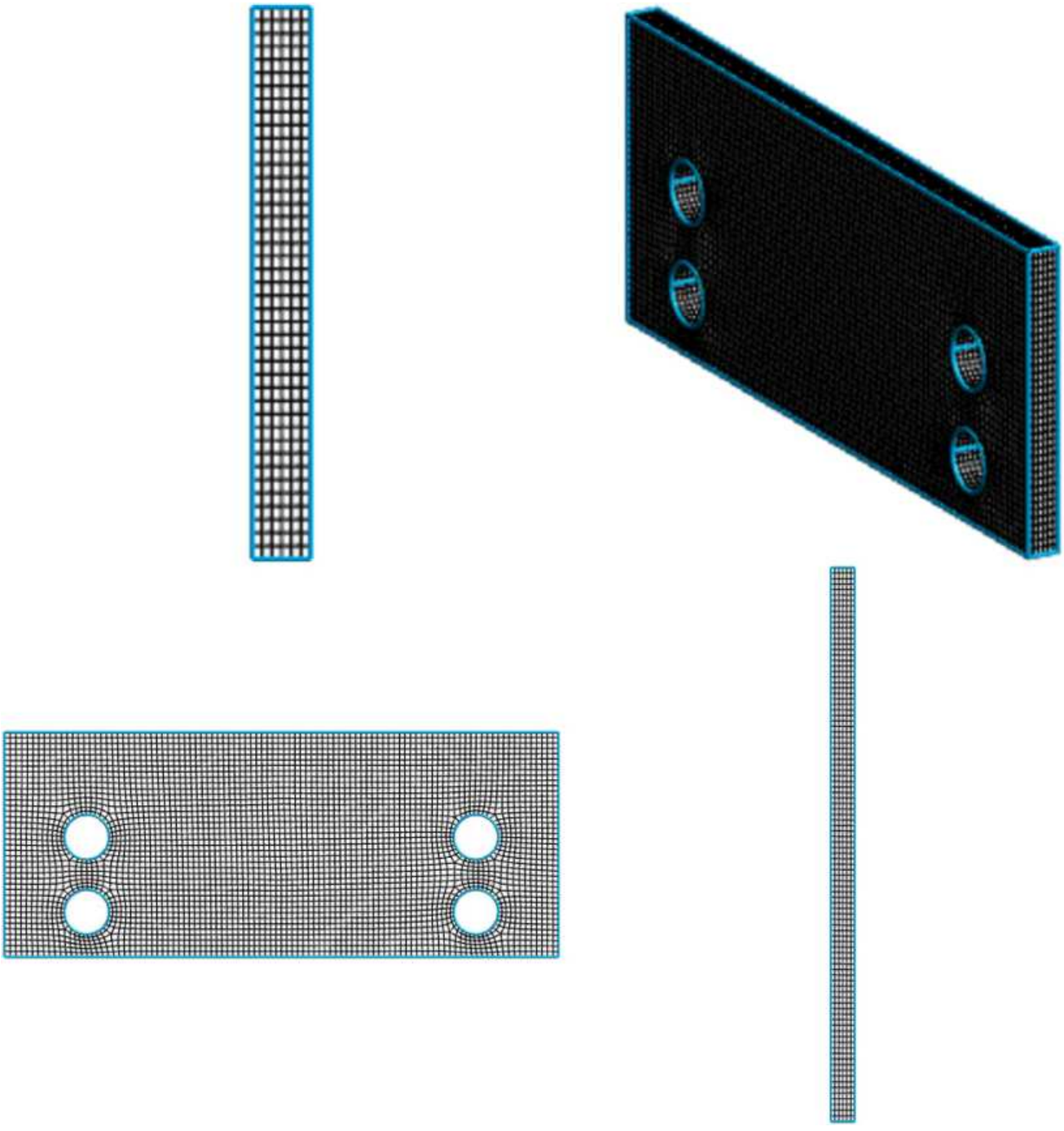


Model: 00007758 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 32 singularities detected
Timings: 8.33062 sec to generate the unstructured mesh, 1.27491 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10304	11160	118	26
Quasi-structured	10424	11280	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.132178	0.352434	0.618632	0.507547	0.972536	0.992611
Quasi-structured	0.16349	0.349781	0.579763	0.722752	0.983876	0.996754

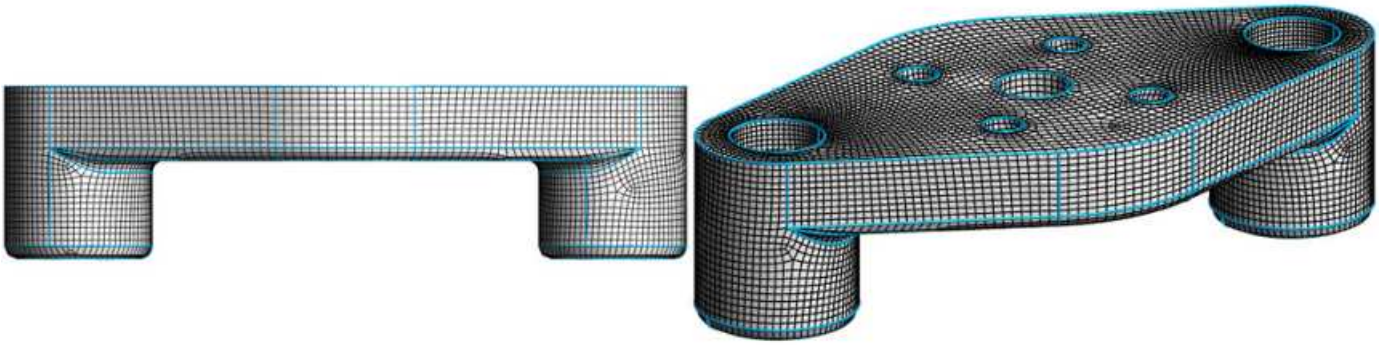


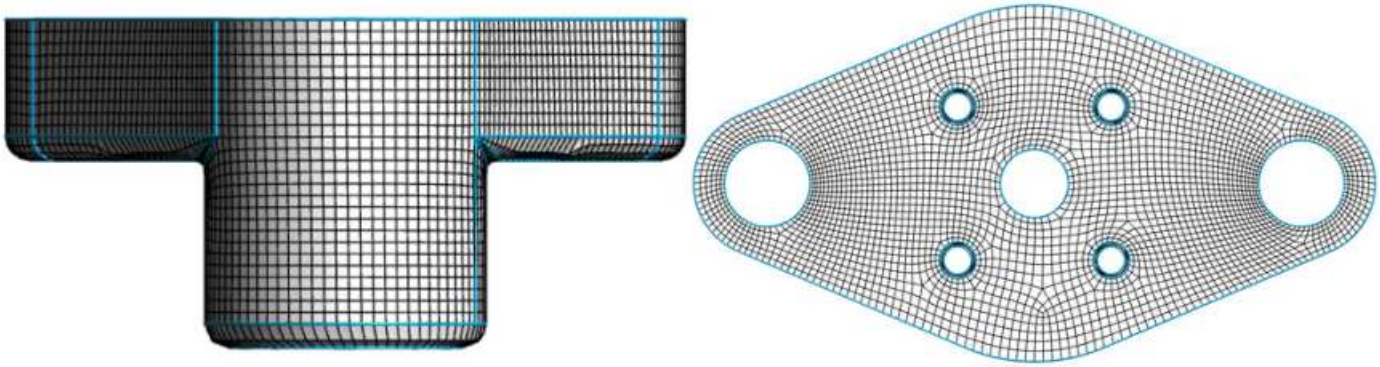
Model: 00007759 (from ABC dataset)
CAD: 56 corners, 95 curves, 41 faces
Cross field: 52 singularities detected
Timings: 9.1517 sec to generate the unstructured mesh, 3.61192 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19946	21930	697	238
Quasi-structured	20269	22253	212	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.175541	0.876471	3.91259	0.0762729	0.95111	0.986507
Quasi-structured	0.126008	0.865324	2.27358	0.257357	0.963892	0.990831



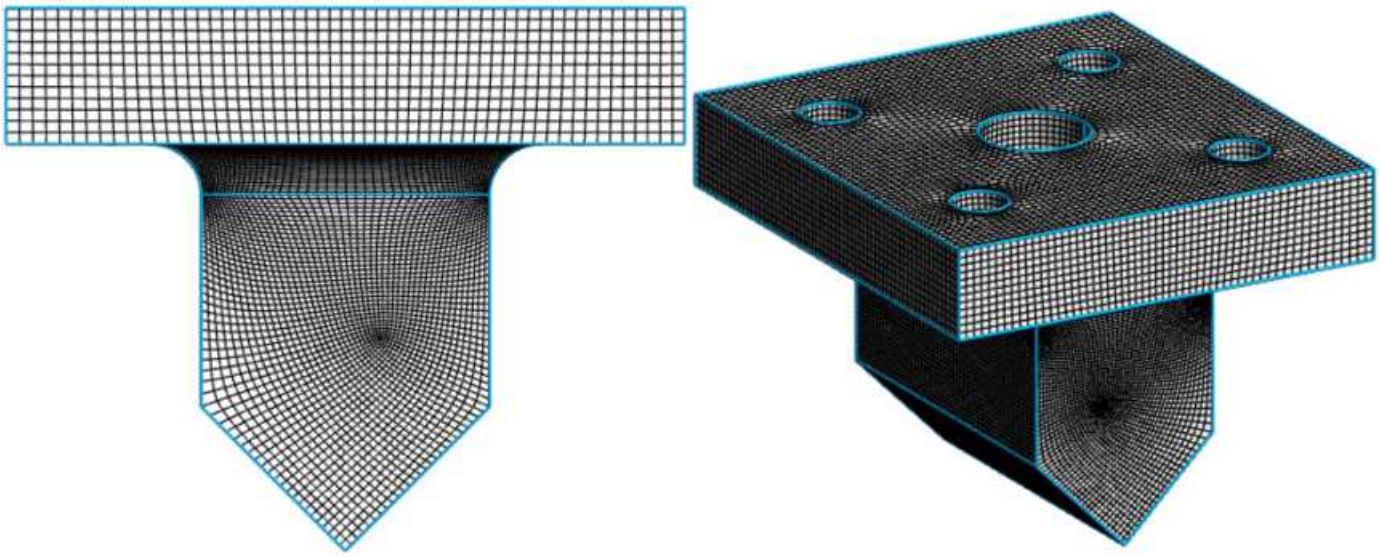


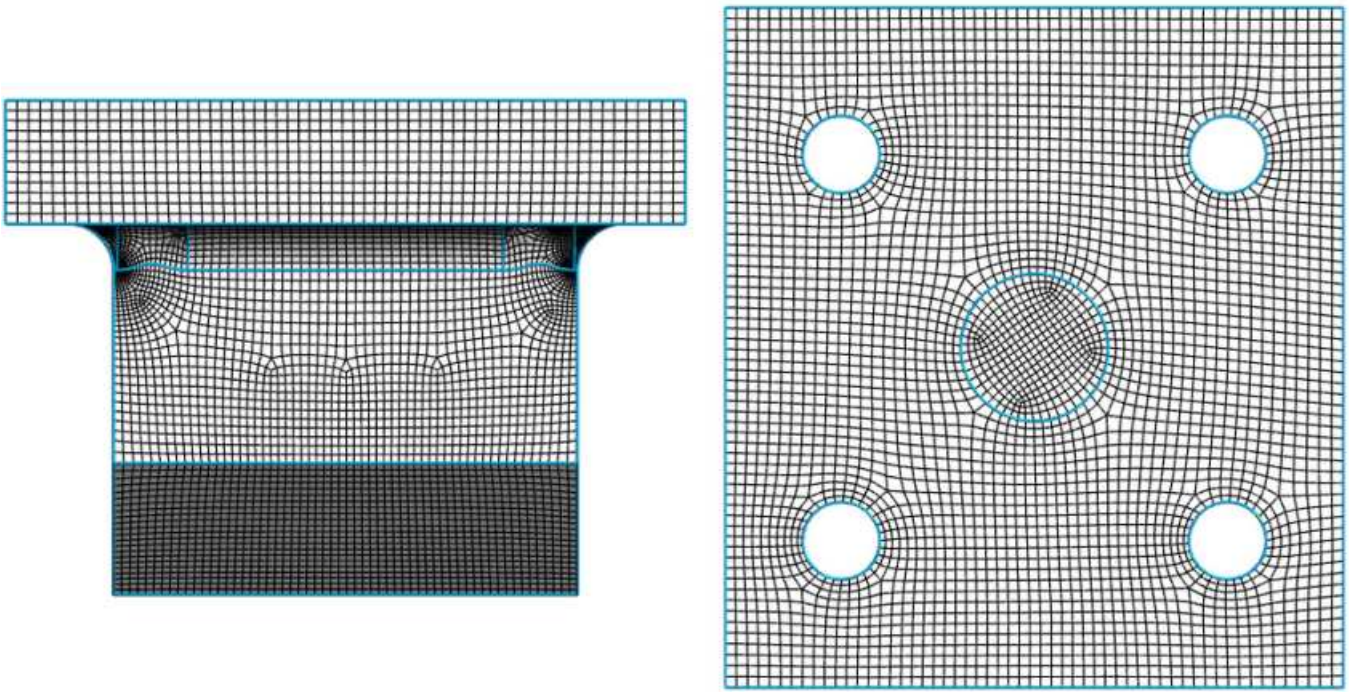
Model: 00007760 (from ABC dataset)
CAD: 48 corners, 78 curves, 30 faces
Cross field: 46 singularities detected
Timings: 10.6512 sec to generate the unstructured mesh, 4.61637 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24738	26753	589	93
Quasi-structured	26670	28685	128	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0491287	0.520085	1.62891	0.161599	0.946356	0.987986
Quasi-structured	0.0417998	0.497309	1.35679	0.214	0.954002	0.989492



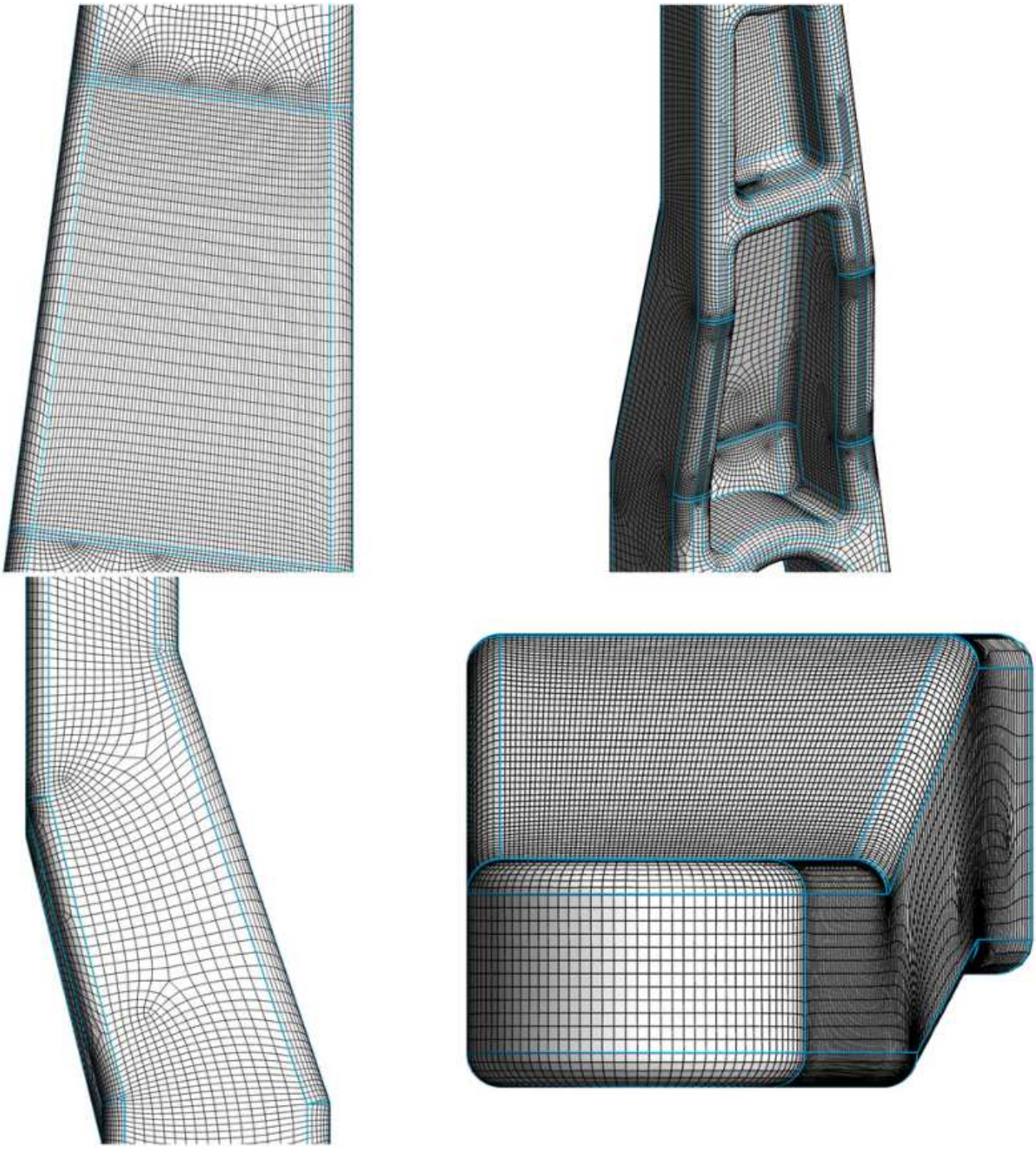


Model: 00007765 (from ABC dataset)
CAD: 132 corners, 240 curves, 108 faces
Cross field: 33 singularities detected
Timings: 8.50699 sec to generate the unstructured mesh, 9.48501 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28614	33015	1137	101
Quasi-structured	29923	34324	278	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0159506	0.987183	3.16886	0.0304271	0.873662	0.948995
Quasi-structured	0.0929953	0.974011	3.68419	0.238472	0.877877	0.934735

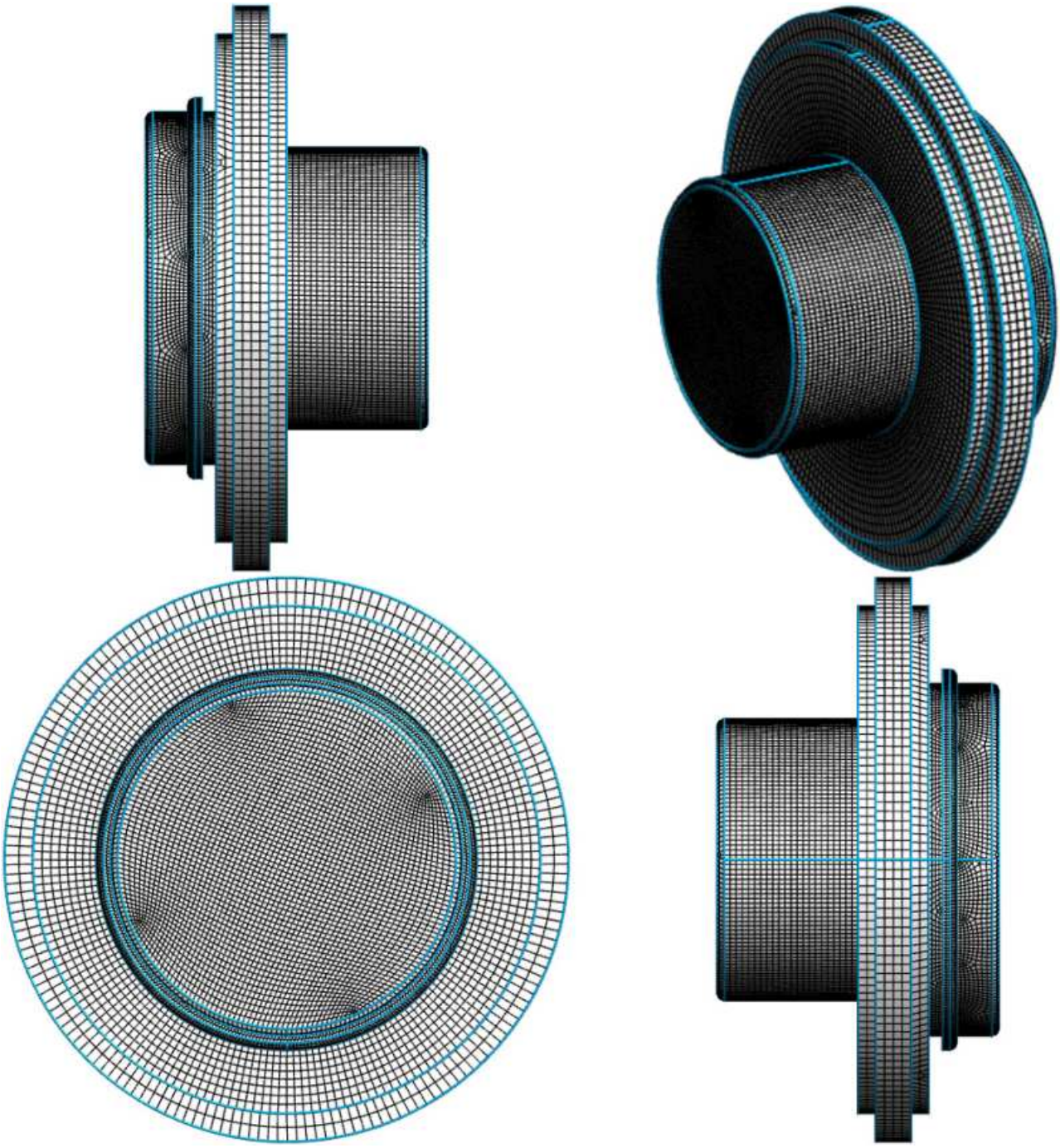


Model: 00007770 (from ABC dataset)
CAD: 20 corners, 30 curves, 18 faces
Cross field: 8 singularities detected
Timings: 8.42592 sec to generate the unstructured mesh, 30.7201 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24186	28010	551	76
Quasi-structured	25158	28982	186	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.097948	0.399818	1.31717	0.488956	0.947134	0.969862
Quasi-structured	0.0506892	0.391278	1.02702	0.349475	0.952375	0.976709

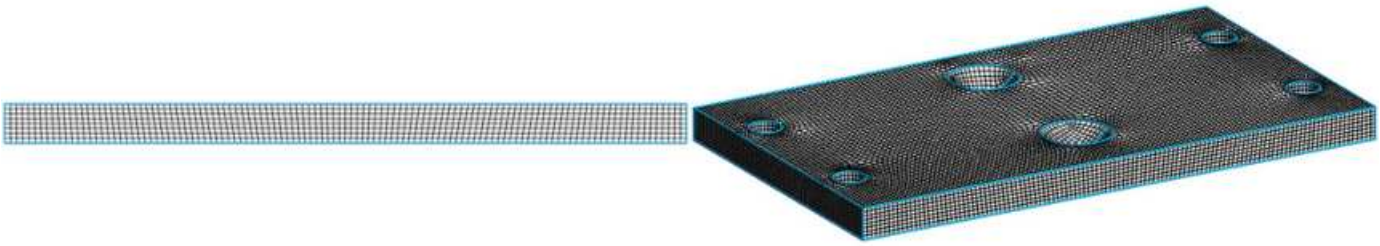


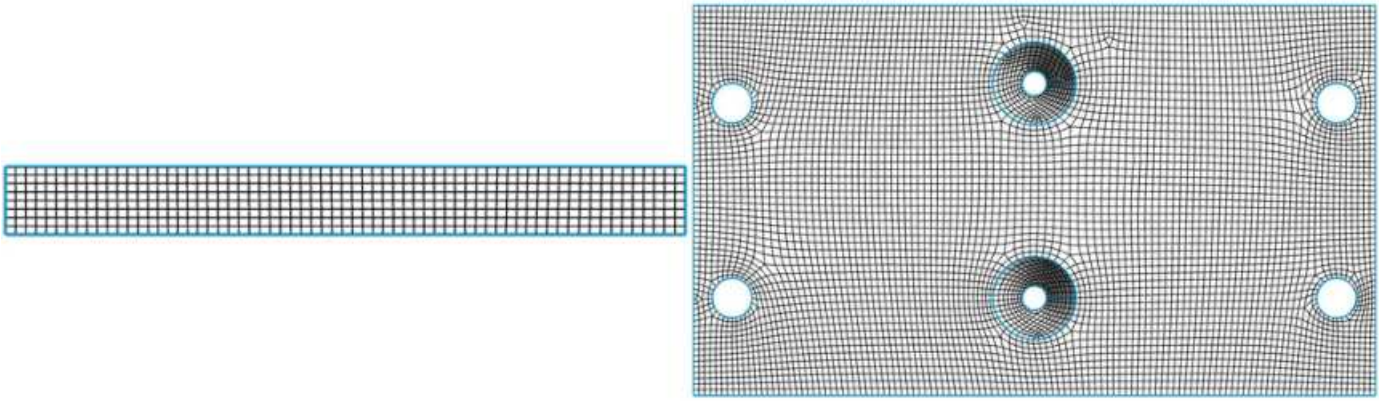
Model: 00007777 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 48 singularities detected
Timings: 17.8703 sec to generate the unstructured mesh, 5.68741 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19708	20858	317	67
Quasi-structured	19341	20491	76	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.146975	0.57699	1.12823	0.404888	0.970625	0.98728
Quasi-structured	0.235047	0.581737	1.61827	0.590047	0.980592	0.990492



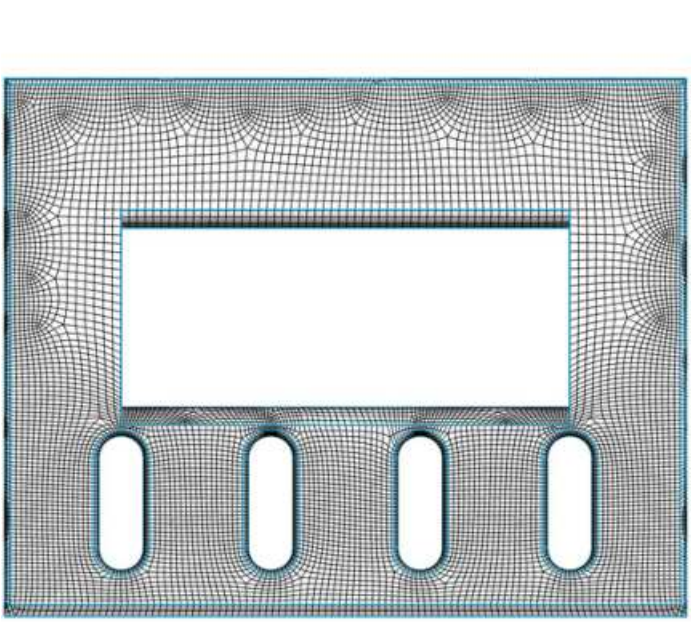


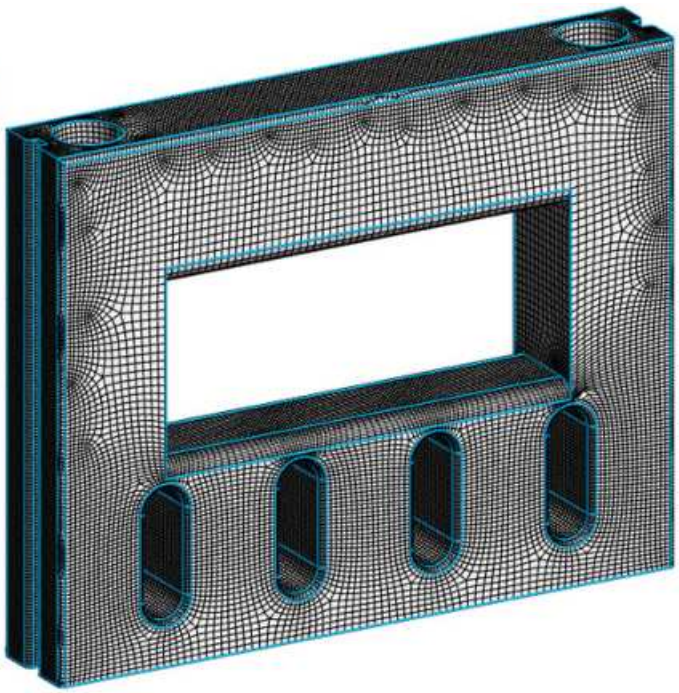
Model: 00007796 (from ABC dataset)
CAD: 128 corners, 211 curves, 89 faces
Cross field: 87 singularities detected
Timings: 21.0191 sec to generate the unstructured mesh, 27.5515 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	49312	56547	1326	226
Quasi-structured	50910	58145	424	0

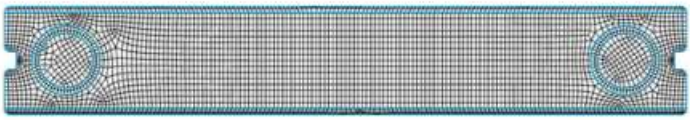
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0354789	0.789448	2.08173	0.00566517	0.938203	0.970327
Quasi-structured	0.0120631	0.778621	2.33293	0.0588534	0.942049	0.972544







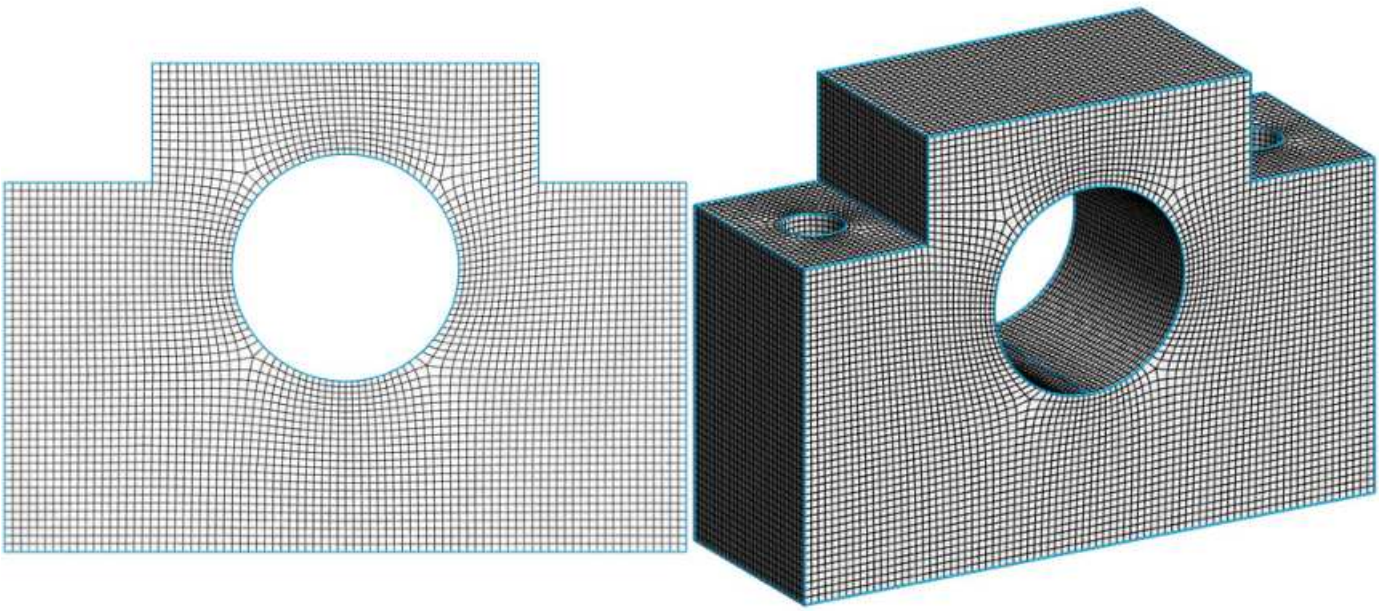


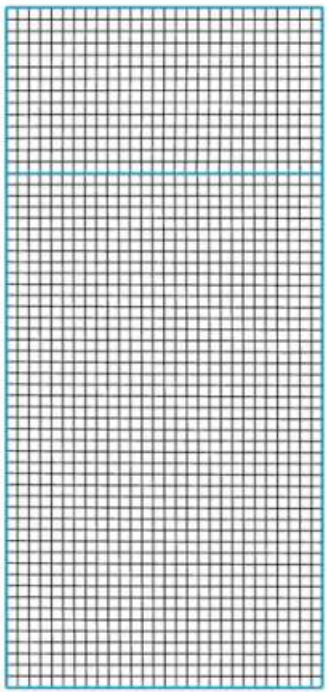
Model: 00007809 (from ABC dataset)
CAD: 24 corners, 35 curves, 13 faces
Cross field: 24 singularities detected
Timings: 11.209 sec to generate the unstructured mesh, 2.01946 sec to make it quasi-structured
Mesh topology:

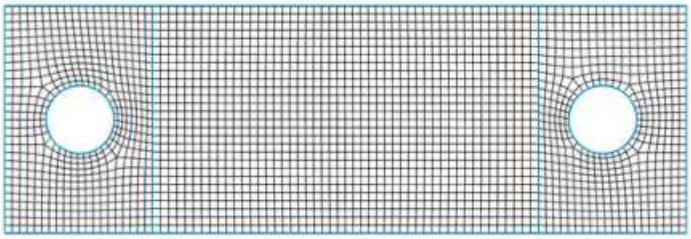
	# quads	# vertices	# irregular	# very irregular
Unstructured	23042	24196	176	153
Quasi-structured	23568	24722	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.174053	0.672209	1.24584	0.419561	0.987718	0.99898
Quasi-structured	0.340902	0.663751	1.5371	0.621574	0.994905	0.999083





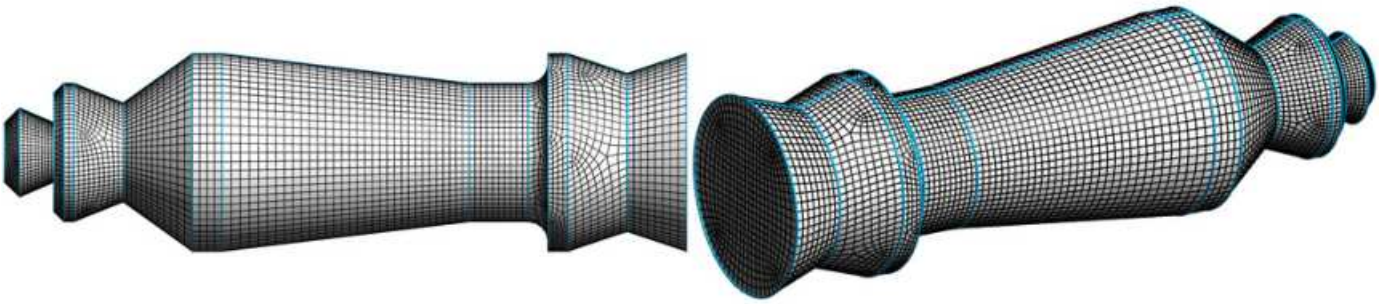


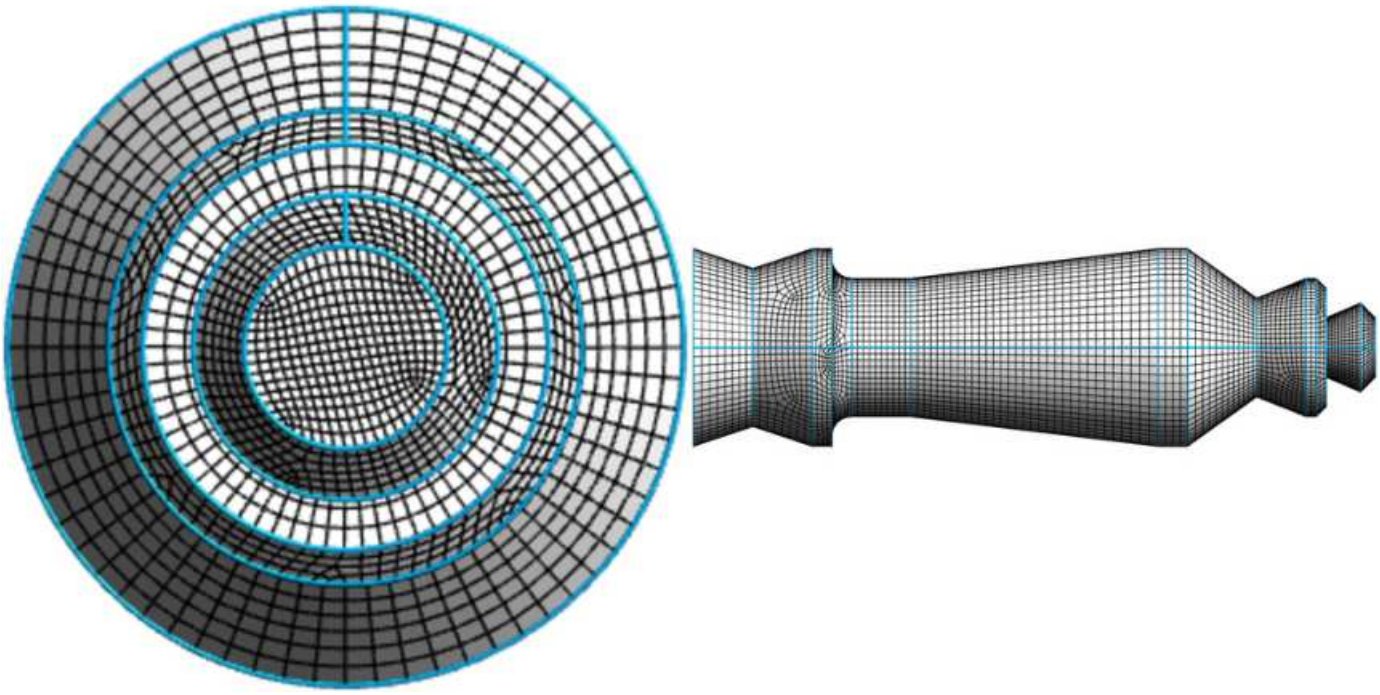
Model: 00007821 (from ABC dataset)
CAD: 16 corners, 29 curves, 17 faces
Cross field: 8 singularities detected
Timings: 7.57853 sec to generate the unstructured mesh, 17.1161 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10358	11622	410	135
Quasi-structured	10141	11405	82	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0568522	0.607992	1.2129	0.211395	0.943443	0.993935
Quasi-structured	0.134166	0.616815	1.31473	0.466274	0.969387	0.993891



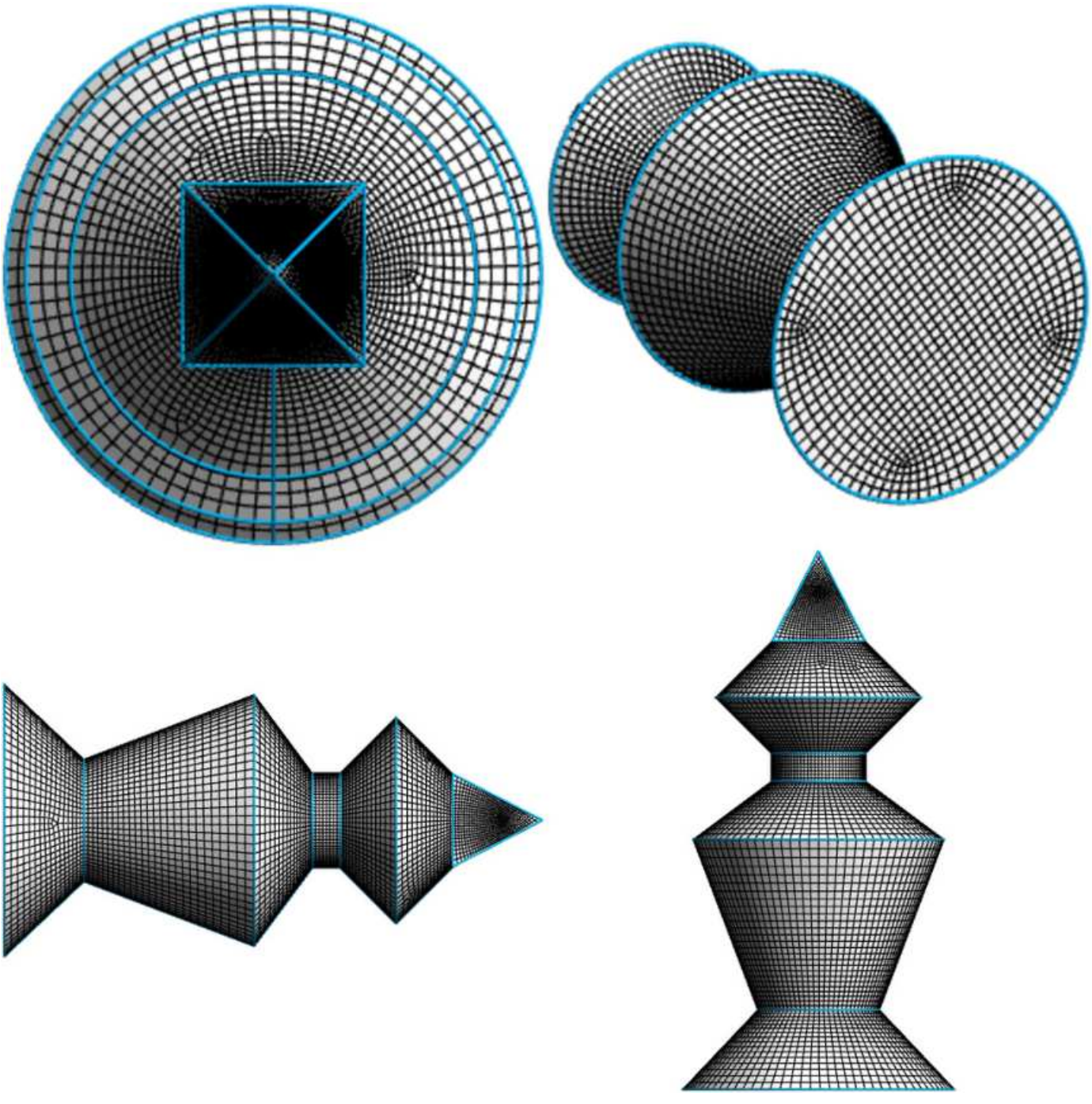


Model: 00007823 (from ABC dataset)
CAD: 15 corners, 28 curves, 15 faces
Cross field: 20 singularities detected
Timings: 9.79303 sec to generate the unstructured mesh, 2.90492 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11486	12325	220	97
Quasi-structured	11927	12766	54	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0127757	0.382631	0.853469	0.000351489	0.967919	0.992981
Quasi-structured	0.00351048	0.369782	0.862644	0.0279089	0.983323	0.997528

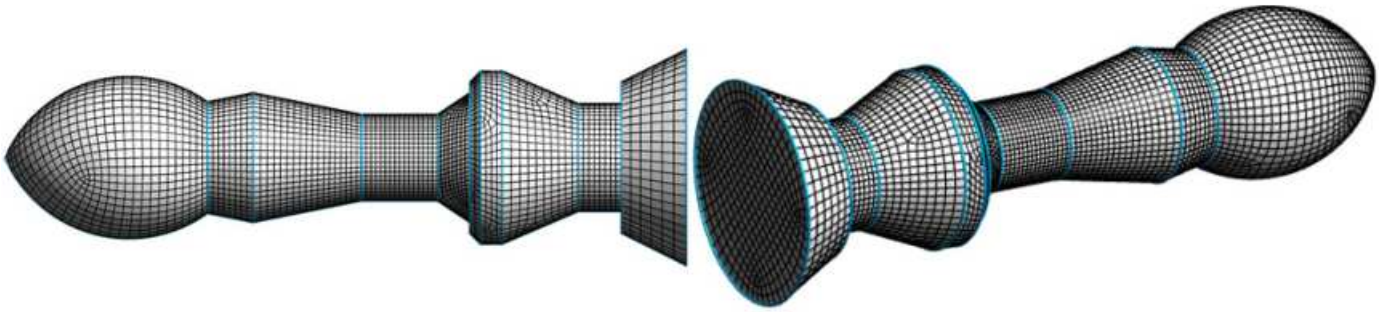


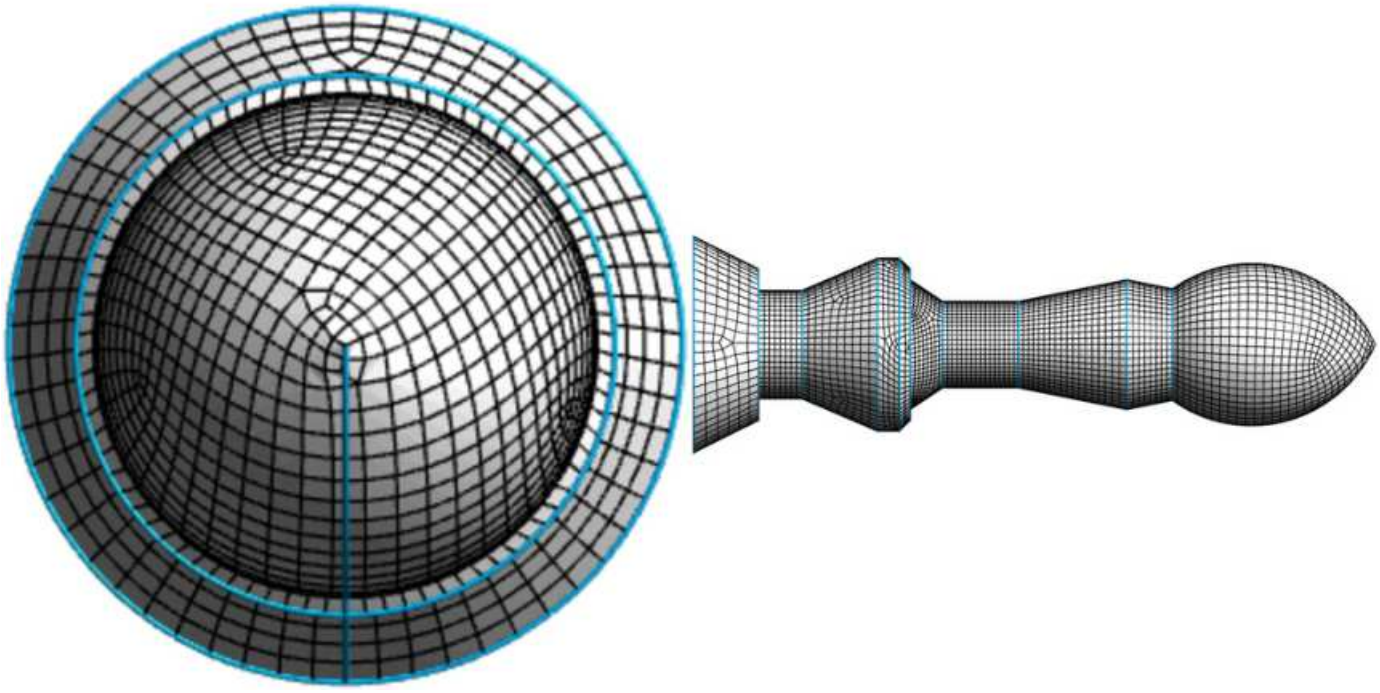
Model: 00007826 (from ABC dataset)
CAD: 13 corners, 23 curves, 13 faces
Cross field: 8 singularities detected
Timings: 6.56492 sec to generate the unstructured mesh, 1.47449 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6794	7568	119	107
Quasi-structured	6758	7532	53	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.195895	0.637425	1.46723	0.29516	0.96565	0.9912
Quasi-structured	0.180084	0.63661	1.47368	0.501771	0.97928	0.995085



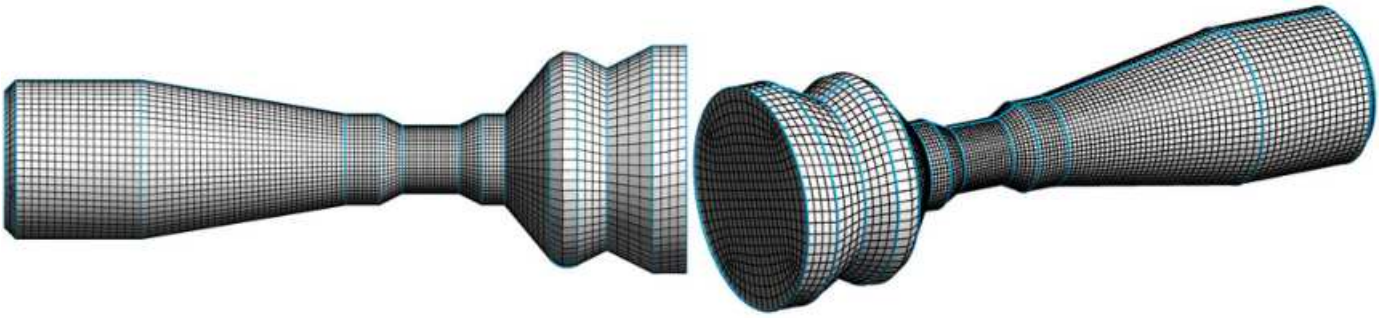


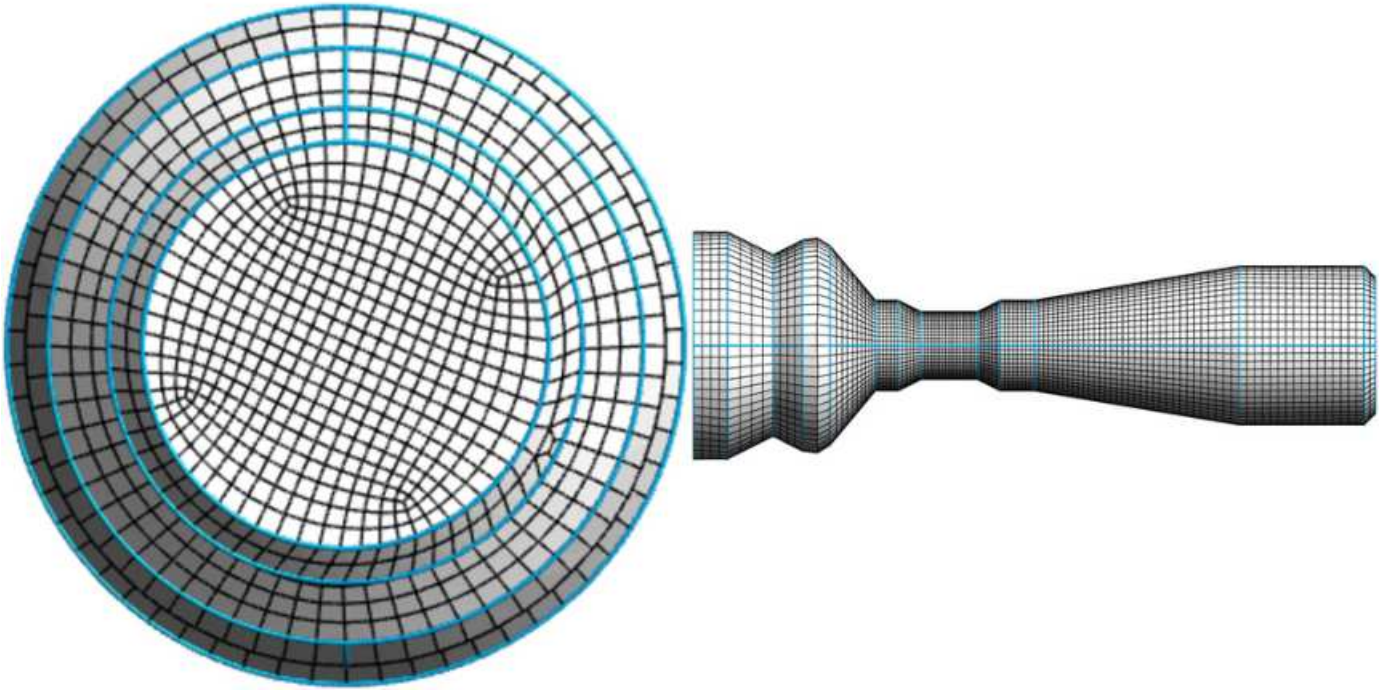
Model: 00007828 (from ABC dataset)
CAD: 16 corners, 29 curves, 15 faces
Cross field: 8 singularities detected
Timings: 6.52203 sec to generate the unstructured mesh, 0.816733 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8306	9184	71	119
Quasi-structured	8250	9128	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.151589	0.560103	1.60897	0.471362	0.976381	0.997282
Quasi-structured	0.245397	0.560996	1.37197	0.653943	0.990937	0.999042



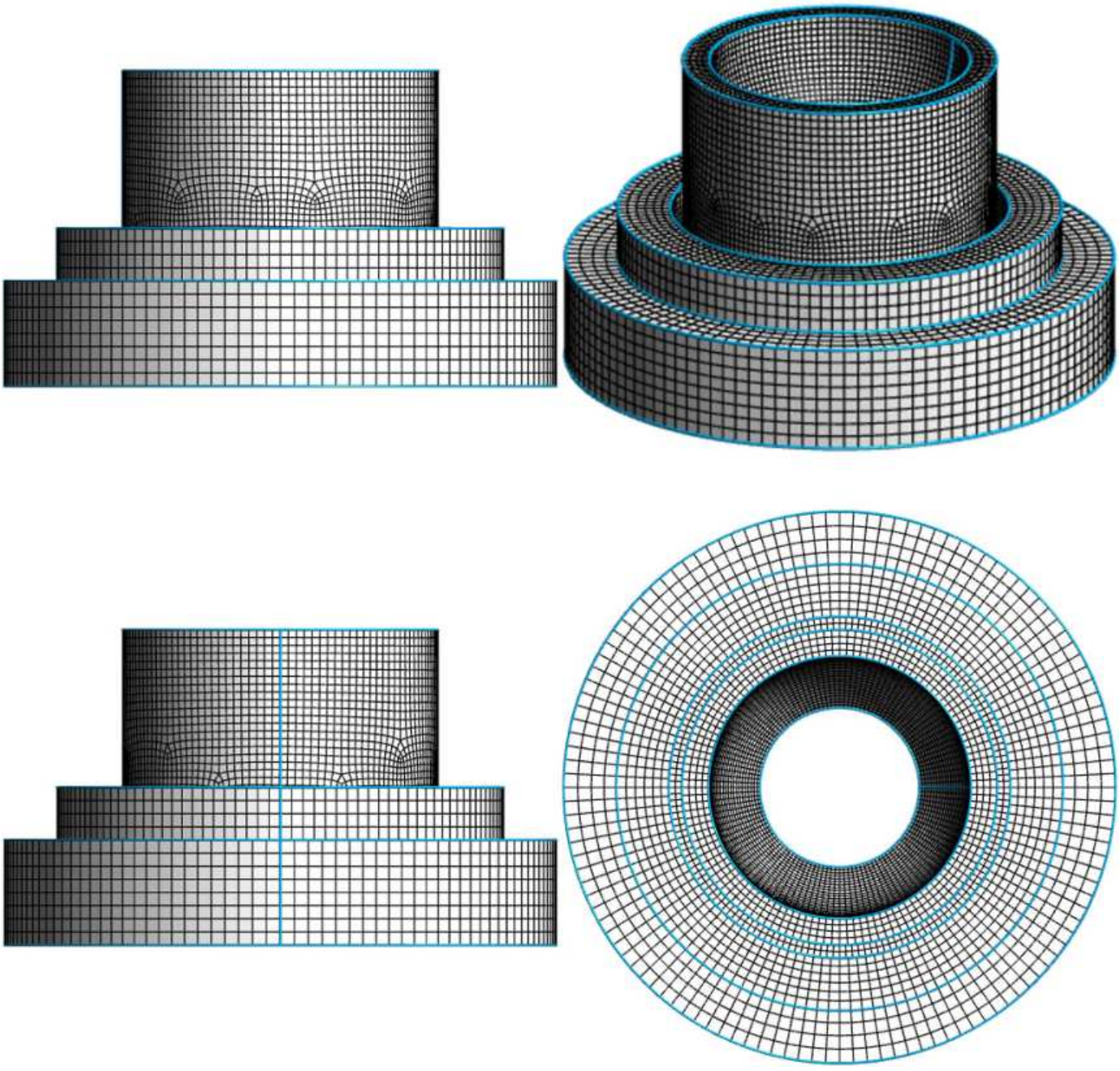


Model: 00007841 (from ABC dataset)
CAD: 14 corners, 21 curves, 13 faces
Cross field: 0 singularities detected
Timings: 16.7536 sec to generate the unstructured mesh, 5.22665 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20618	22310	92	117
Quasi-structured	20590	22282	42	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0794625	0.25986	0.57447	0.658721	0.983734	0.997975
Quasi-structured	0.102506	0.259919	0.546794	0.721343	0.993059	0.998025

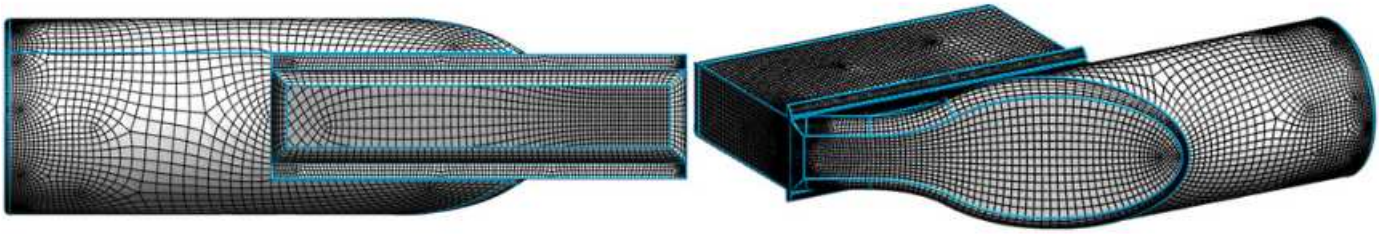


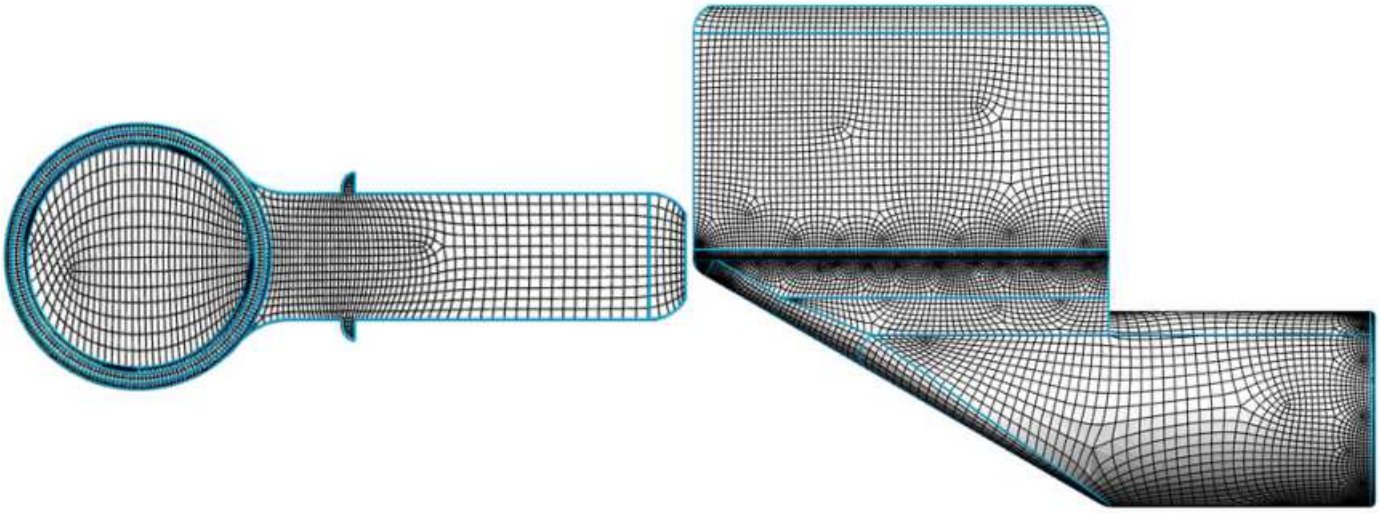
Model: 00007855 (from ABC dataset)
CAD: 60 corners, 98 curves, 39 faces
Cross field: 30 singularities detected
Timings: 16.0581 sec to generate the unstructured mesh, 39.6102 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	35492	39588	1651	163
Quasi-structured	36837	40933	428	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0500343	0.830216	3.43236	0.0355106	0.937844	0.983994
Quasi-structured	0.0363584	0.809253	4.40431	0.0988255	0.956049	0.986785



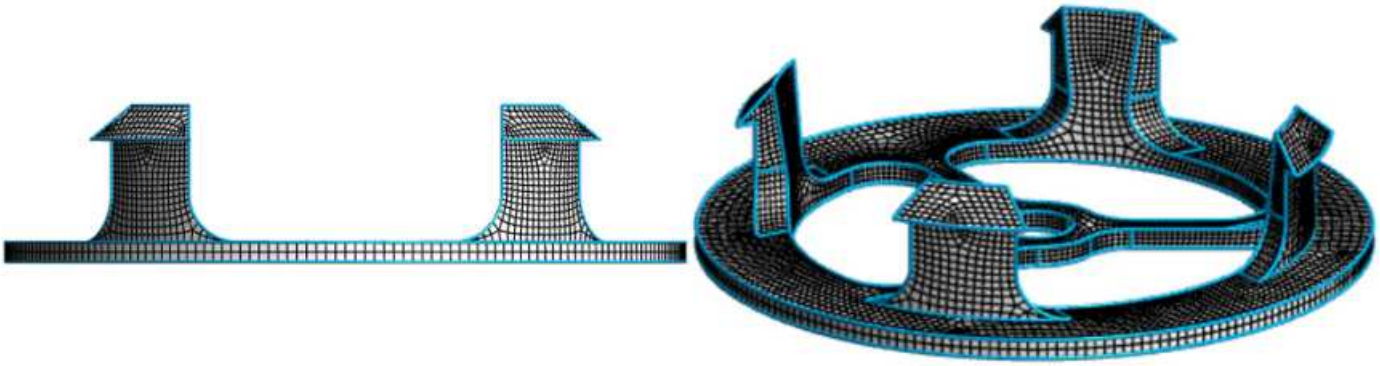


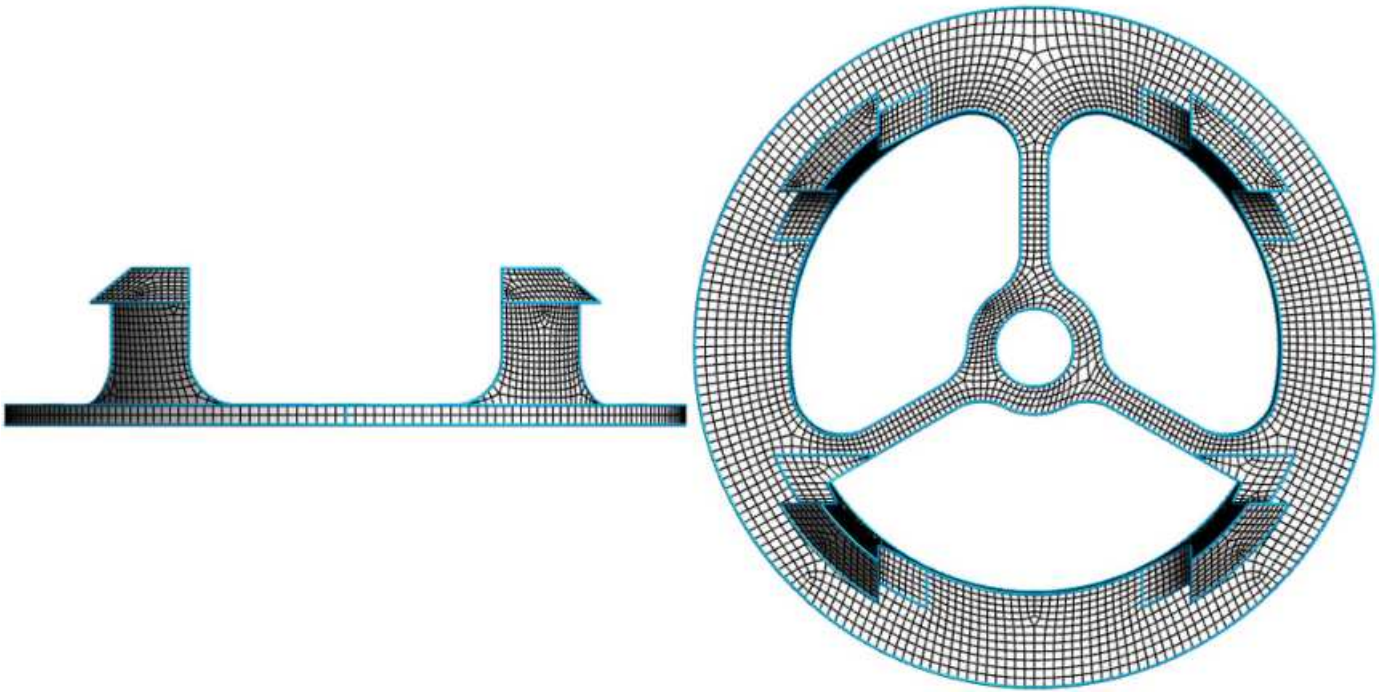
Model: 00007858 (from ABC dataset)
CAD: 104 corners, 156 curves, 54 faces
Cross field: 44 singularities detected
Timings: 7.83814 sec to generate the unstructured mesh, 3.97951 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10650	12906	407	13
Quasi-structured	11088	13344	146	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0787071	0.783302	1.75473	0.00972389	0.93979	0.97741
Quasi-structured	0.0243268	0.766153	2.13279	0.0566491	0.951144	0.98065



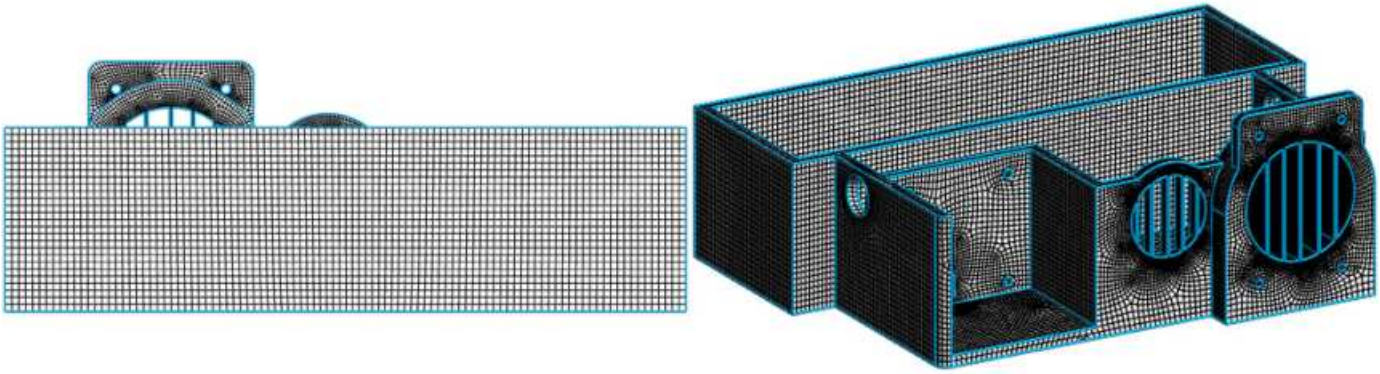


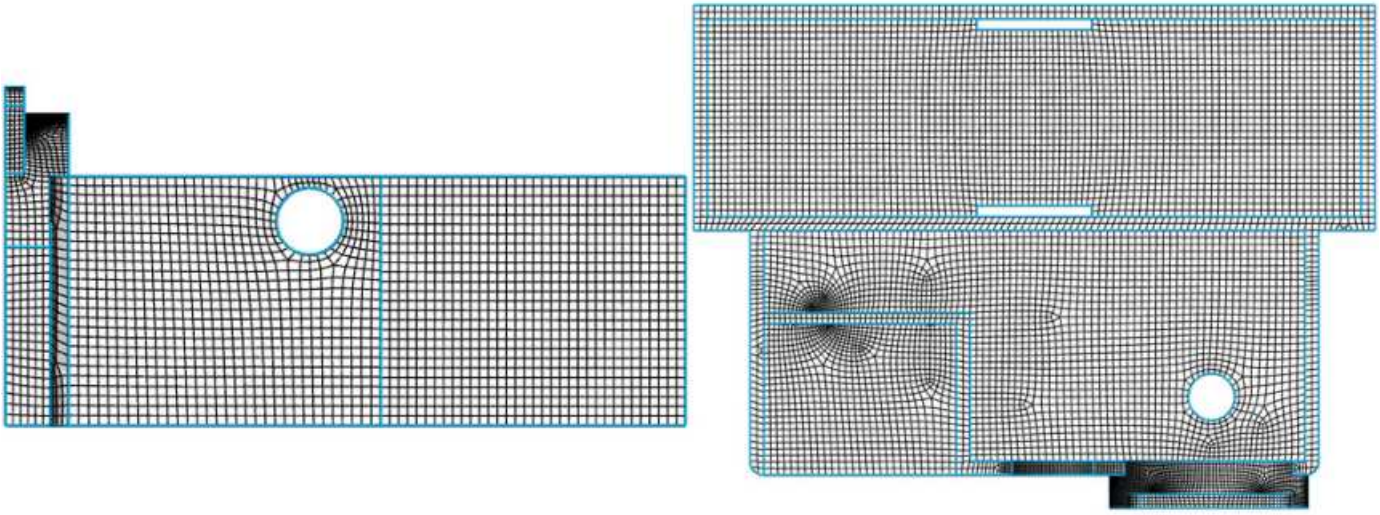
Model: 00007914 (from ABC dataset)
CAD: 213 corners, 317 curves, 105 faces
Cross field: 108 singularities detected
Timings: 21.4063 sec to generate the unstructured mesh, 69.4987 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	82230	90362	1622	105
Quasi-structured	82658	90790	426	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0397827	0.710092	2.14645	0.0276438	0.946132	0.984695
Quasi-structured	0.0817503	0.711596	2.84624	0.225707	0.955516	0.981507



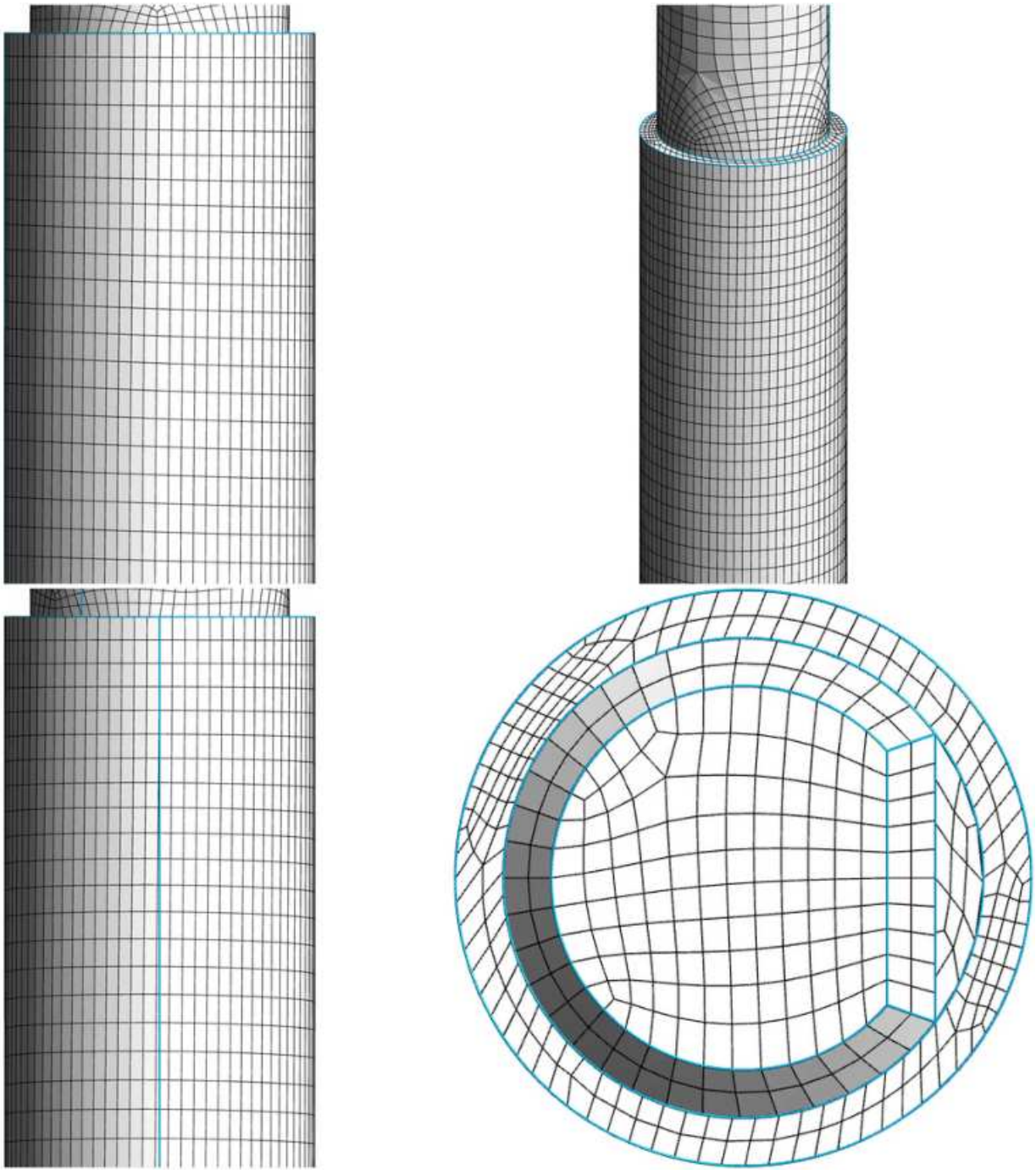


Model: 00007935 (from ABC dataset)
CAD: 13 corners, 21 curves, 12 faces
Cross field: 6 singularities detected
Timings: 2.88969 sec to generate the unstructured mesh, 1.56677 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5922	6444	216	109
Quasi-structured	8152	8674	56	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.120081	0.419427	0.815347	0.209247	0.960242	0.986404
Quasi-structured	0.0680885	0.382531	0.789253	0.324801	0.851631	0.805346

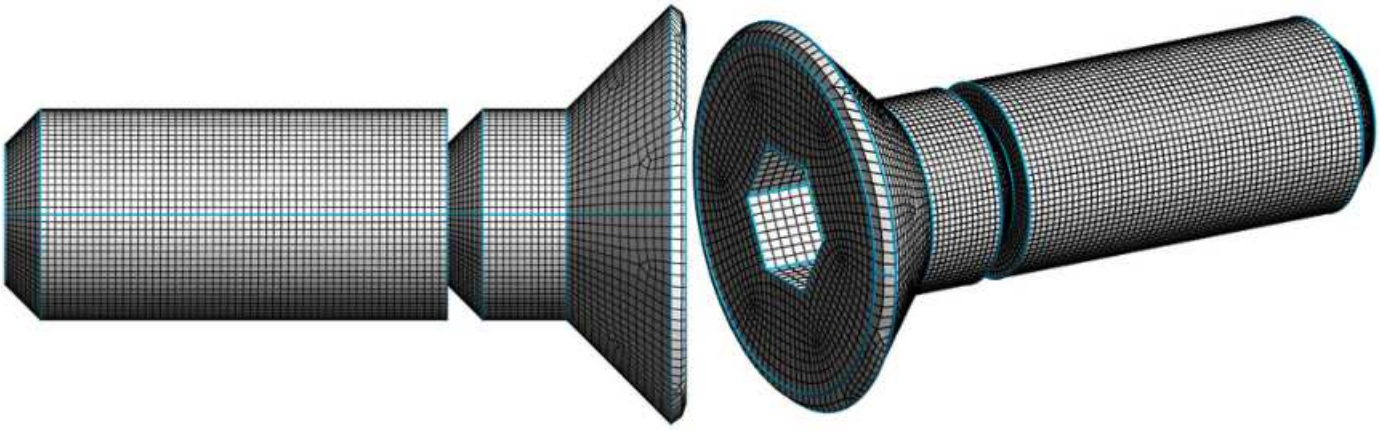


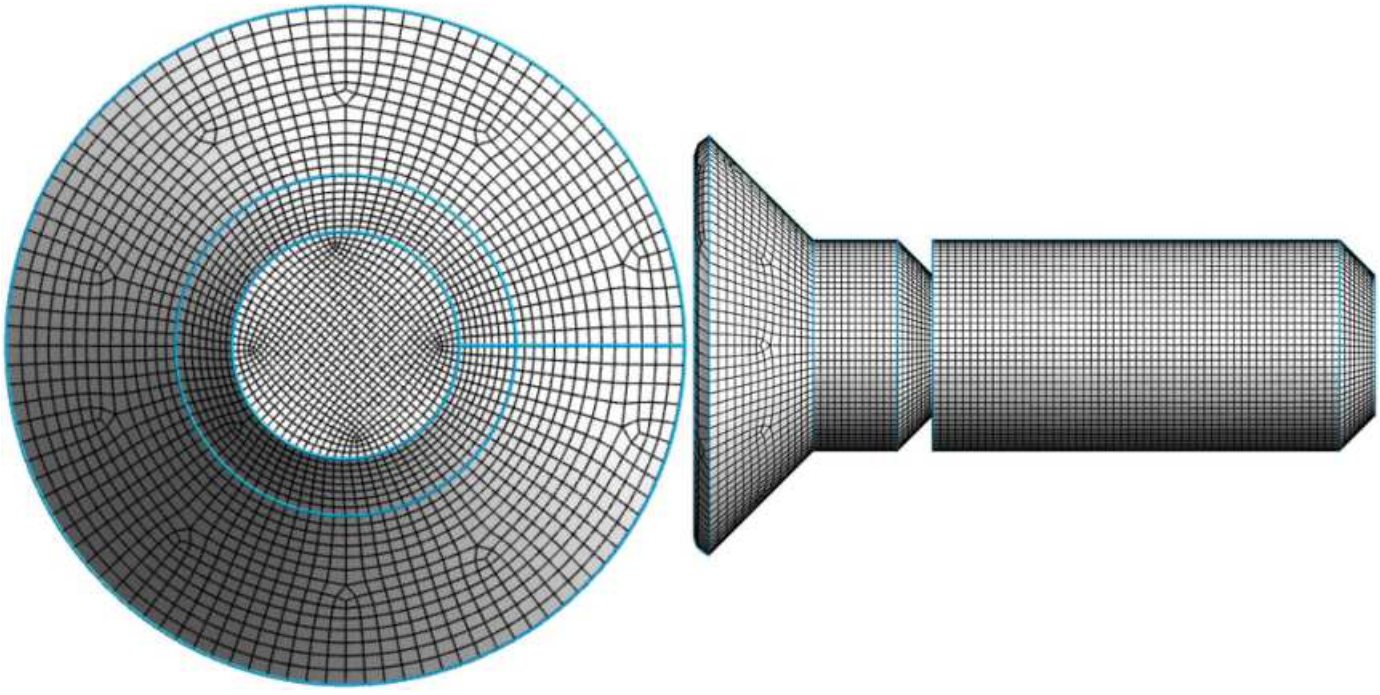
Model: 00007938 (from ABC dataset)
CAD: 21 corners, 33 curves, 16 faces
Cross field: 12 singularities detected
Timings: 8.83467 sec to generate the unstructured mesh, 1.41582 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11516	12410	134	97
Quasi-structured	11576	12470	50	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.025491	0.112787	0.26321	0.498579	0.982066	0.996972
Quasi-structured	0.029042	0.112566	0.327802	0.433858	0.991208	0.998453



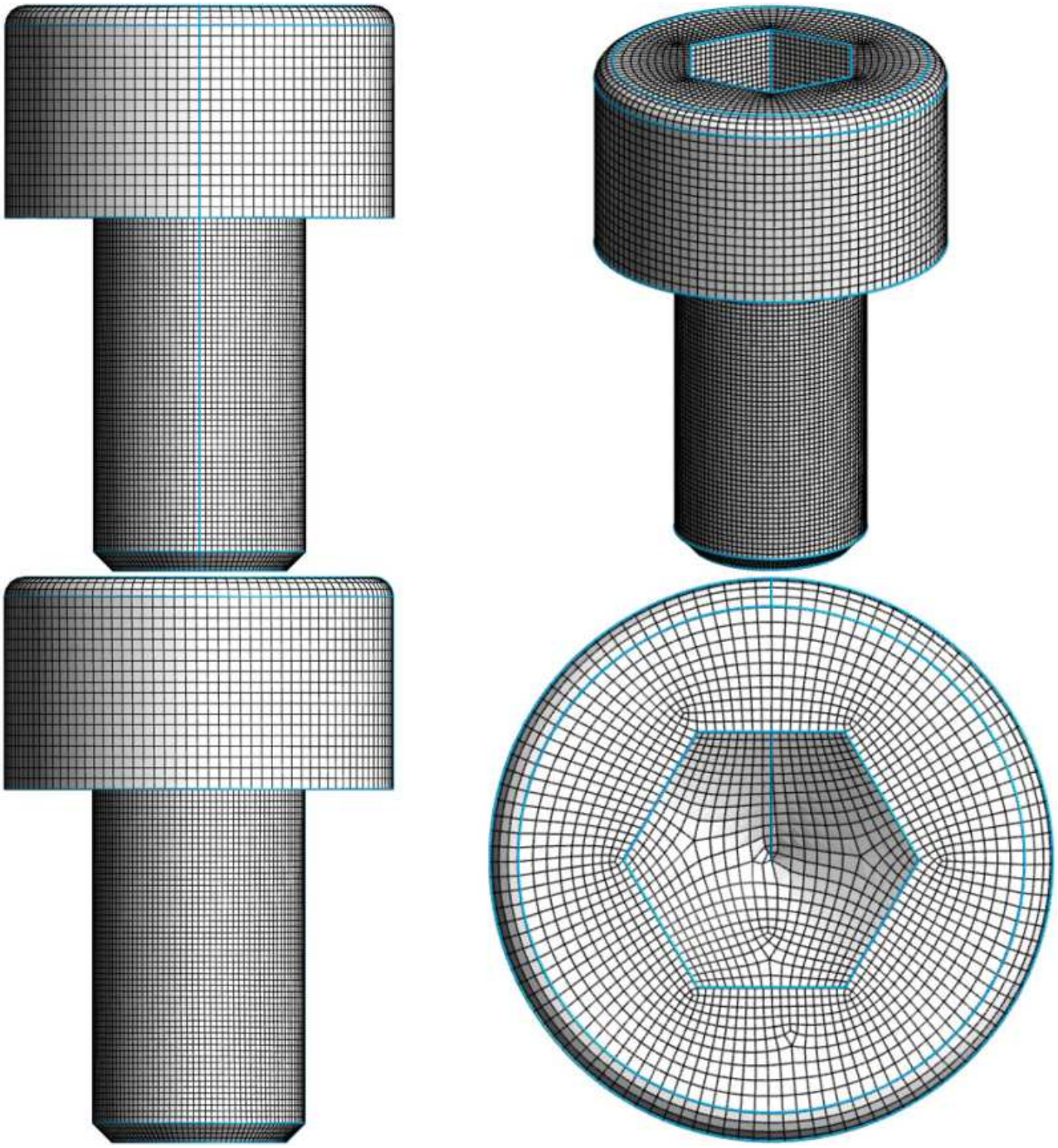


Model: 00007939 (from ABC dataset)
CAD: 20 corners, 31 curves, 14 faces
Cross field: 12 singularities detected
Timings: 12.5417 sec to generate the unstructured mesh, 1.22618 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15000	15976	116	91
Quasi-structured	14866	15842	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0223301	0.098021	0.235487	0.571646	0.982966	0.998434
Quasi-structured	0.0246815	0.0983828	0.286471	0.611073	0.993677	0.999714

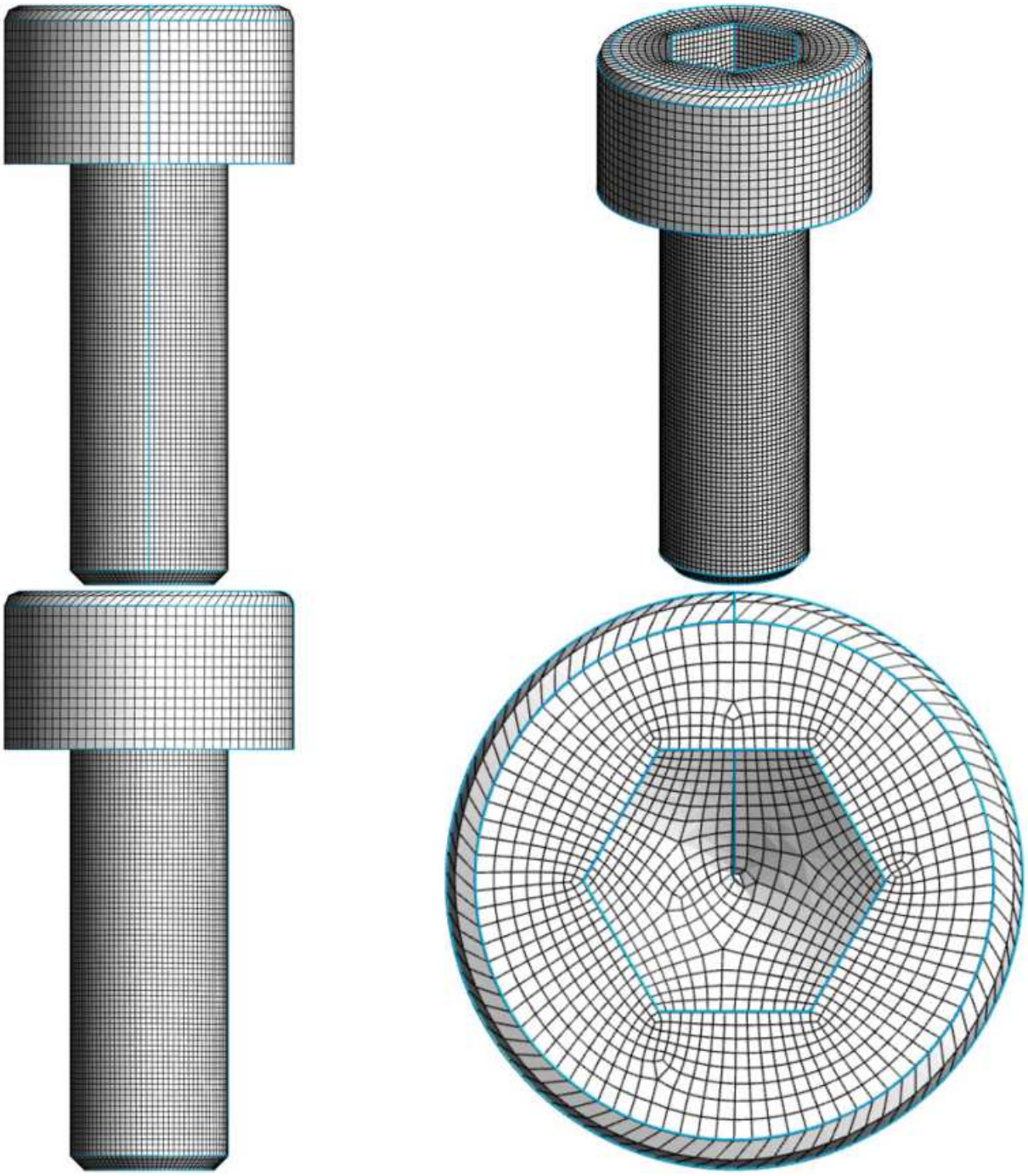


Model: 00007940 (from ABC dataset)
CAD: 20 corners, 31 curves, 14 faces
Cross field: 14 singularities detected
Timings: 6.75045 sec to generate the unstructured mesh, 0.871482 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12142	12932	116	112
Quasi-structured	12132	12922	25	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0254476	0.118989	0.286473	0.446109	0.9817	0.998608
Quasi-structured	0.0330153	0.118943	0.290973	0.612424	0.990462	0.999918

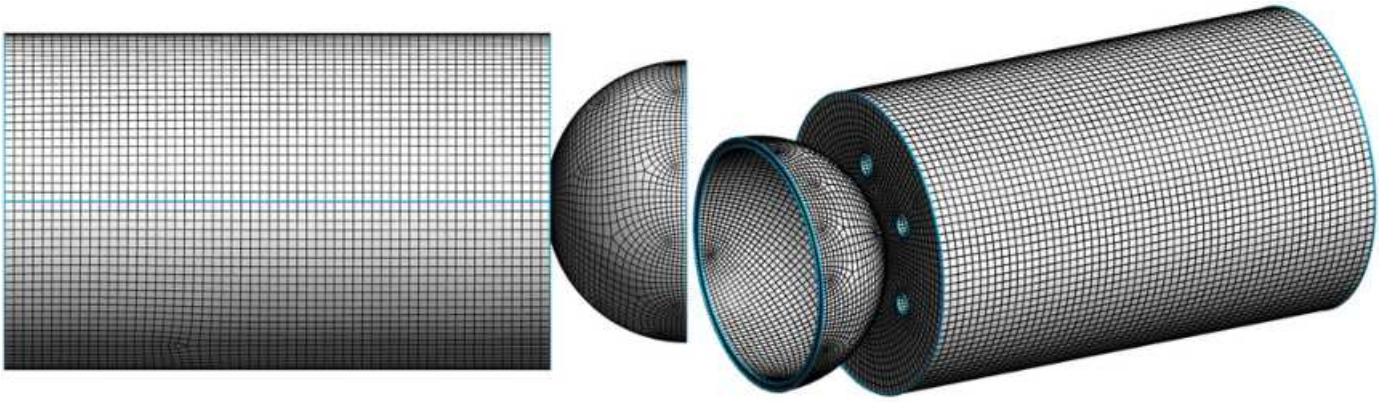


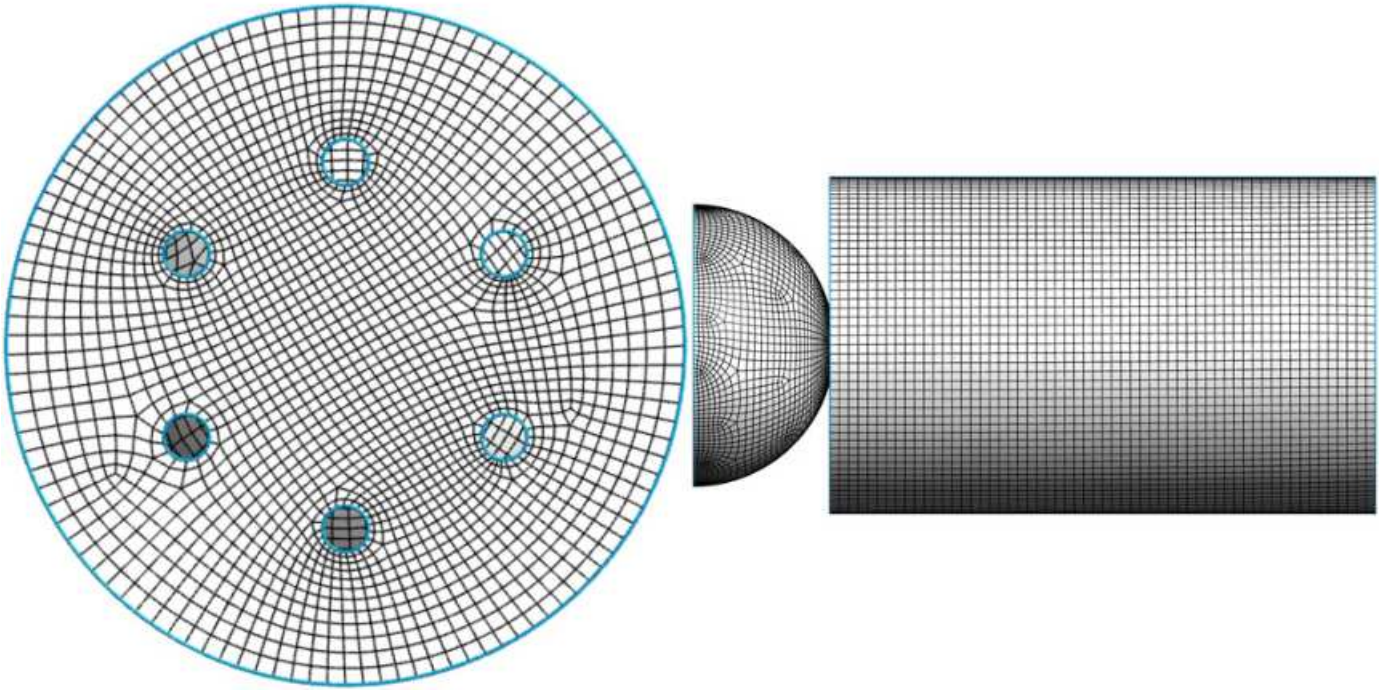
Model: 00007973 (from ABC dataset)
CAD: 26 corners, 37 curves, 12 faces
Cross field: 48 singularities detected
Timings: 21.7895 sec to generate the unstructured mesh, 16.5825 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30600	31486	561	864
Quasi-structured	31052	31938	138	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.261395	1.6482	4.30561	0.435653	0.973892	0.999372
Quasi-structured	0.400591	1.63657	4.22296	0.546532	0.985525	0.997001



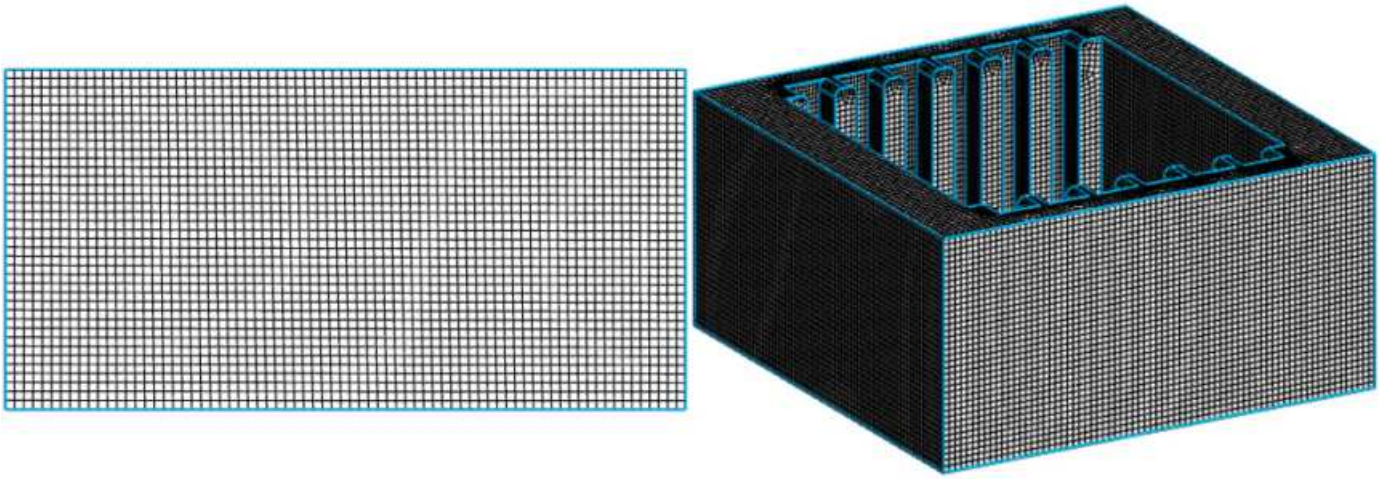


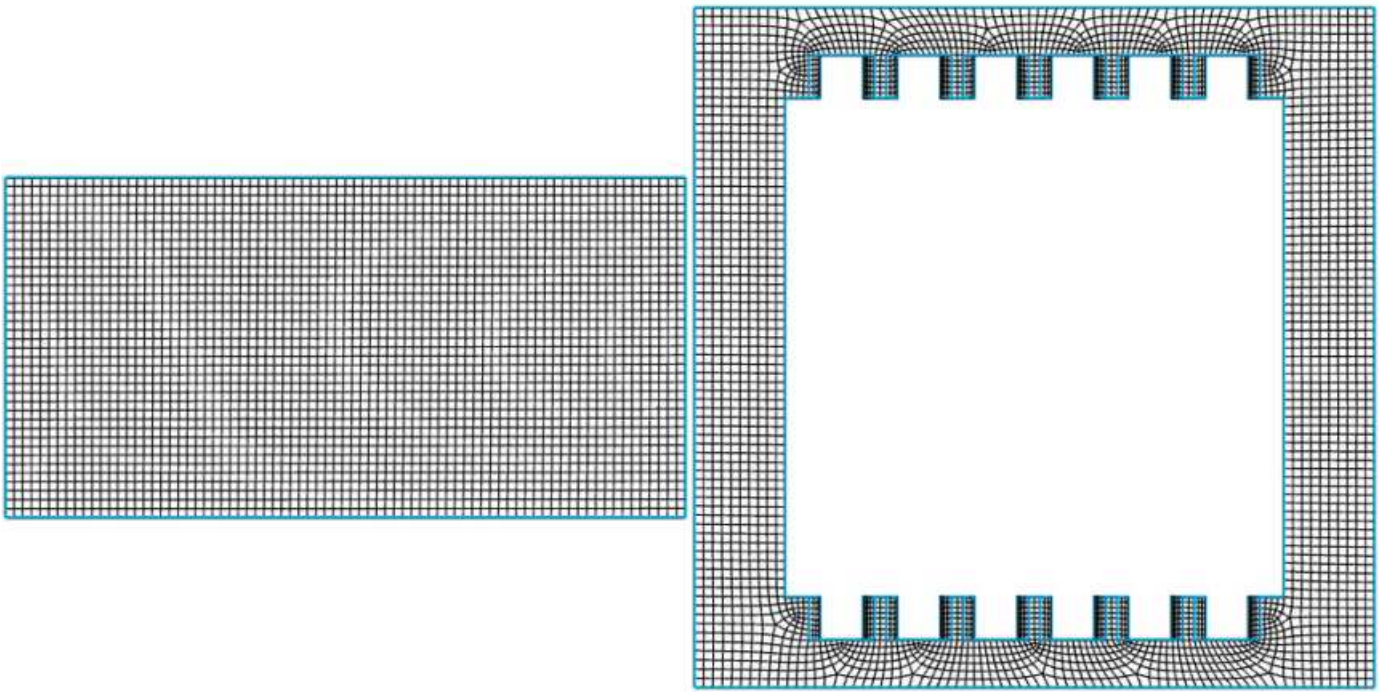
Model: 00007983 (from ABC dataset)
CAD: 208 corners, 312 curves, 106 faces
Cross field: 120 singularities detected
Timings: 14.0131 sec to generate the unstructured mesh, 11.9415 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	36690	41366	514	1
Quasi-structured	38126	42802	444	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.106571	0.695935	1.18823	0.00120933	0.965557	0.998749
Quasi-structured	0.0475768	0.682644	1.49867	0.178692	0.960755	0.998576



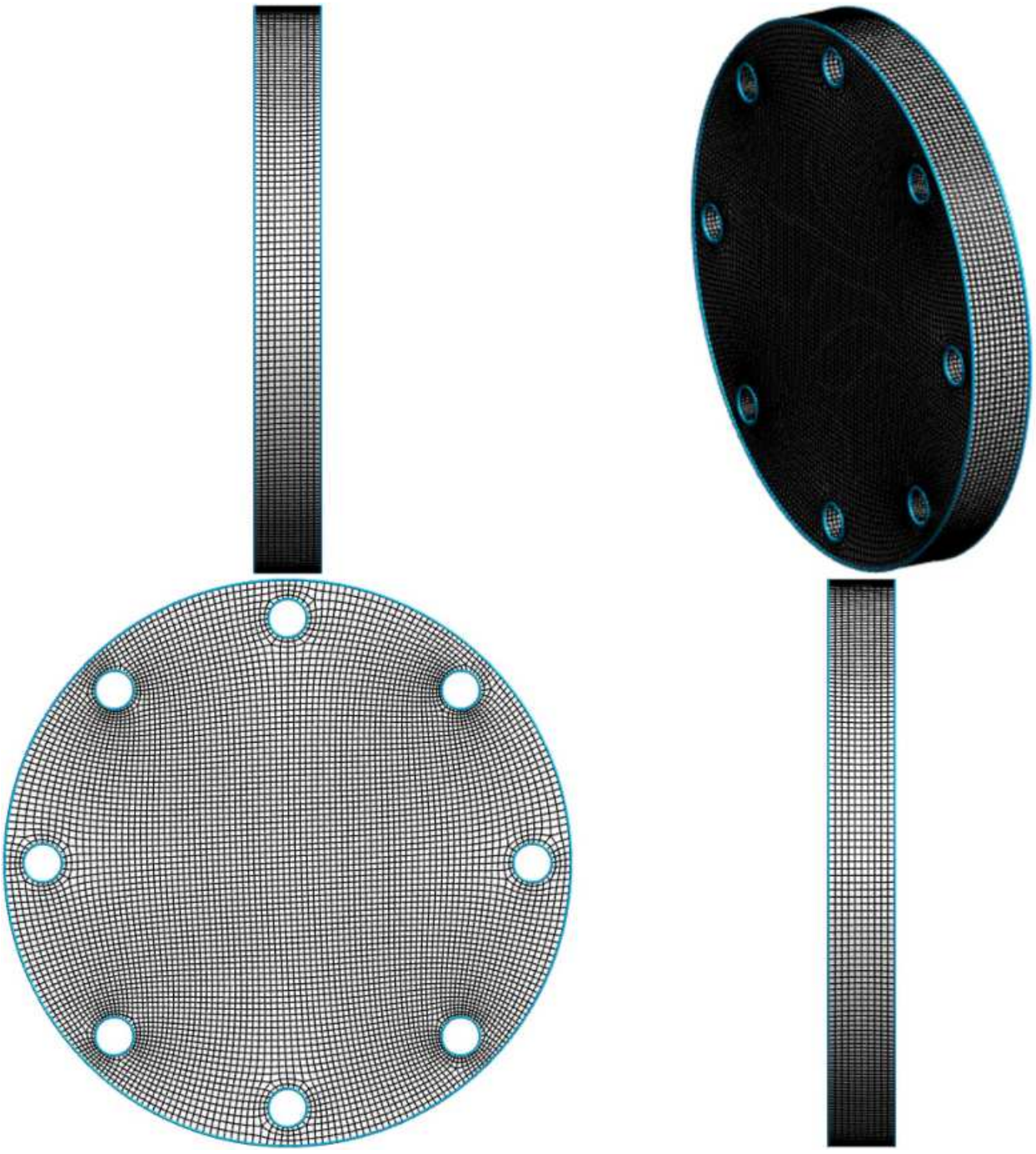


Model: 00007992 (from ABC dataset)
CAD: 25 corners, 34 curves, 11 faces
Cross field: 56 singularities detected
Timings: 23.5511 sec to generate the unstructured mesh, 3.36098 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21900	22924	338	148
Quasi-structured	21842	22866	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.549474	2.6838	5.44893	0.374369	0.972067	0.994816
Quasi-structured	0.949819	2.67477	5.35826	0.692024	0.990865	0.997731



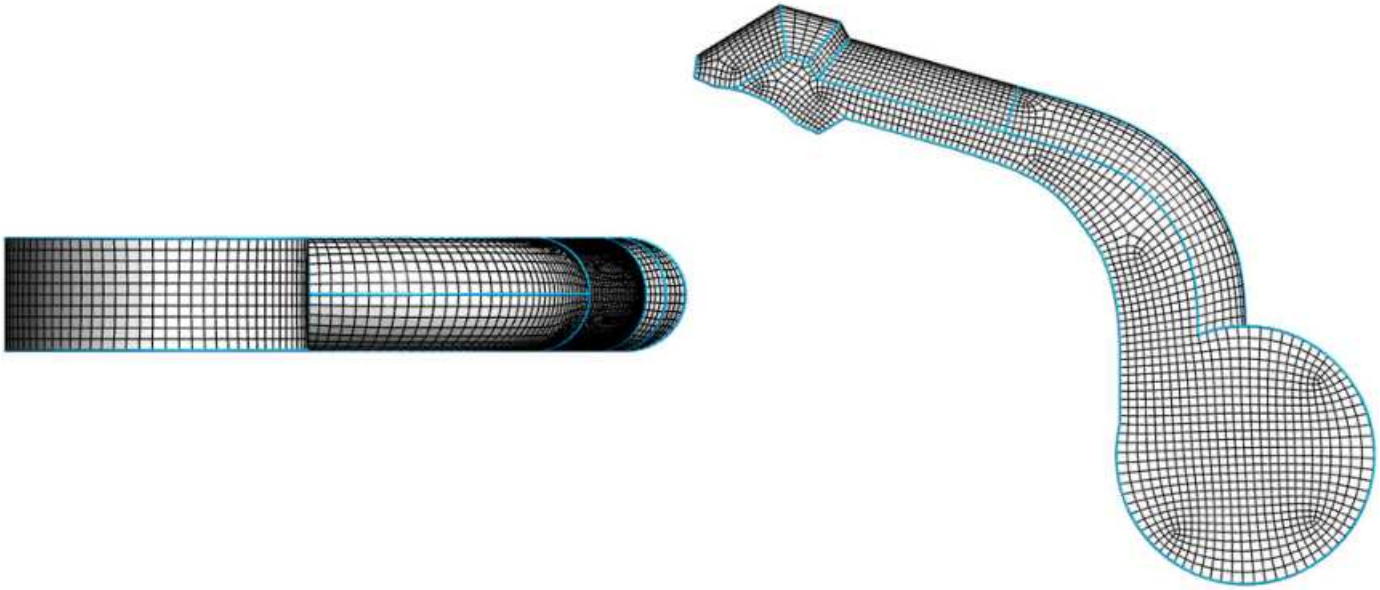
Model: 00008019 (from ABC dataset)
CAD: 30 corners, 45 curves, 17 faces
Cross field: 16 singularities detected
Timings: 8.01109 sec to generate the unstructured mesh, 1.80863 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6182	6979	181	3
Quasi-structured	6392	7189	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.225399	1.14839	2.65802	0.0292882	0.953997	0.985559
Quasi-structured	0.0653427	1.12638	2.40749	0.0820646	0.975707	0.991462



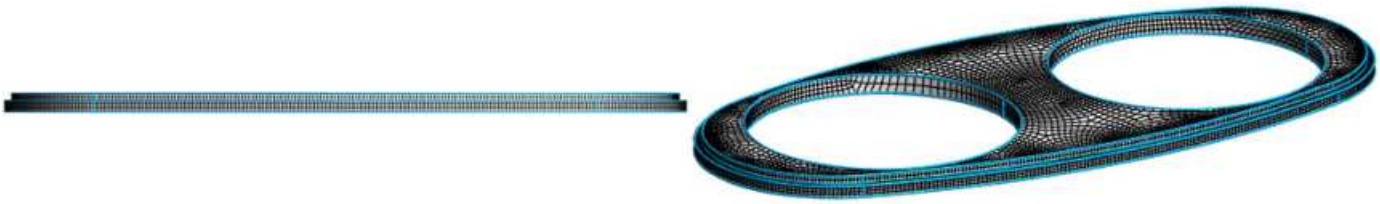


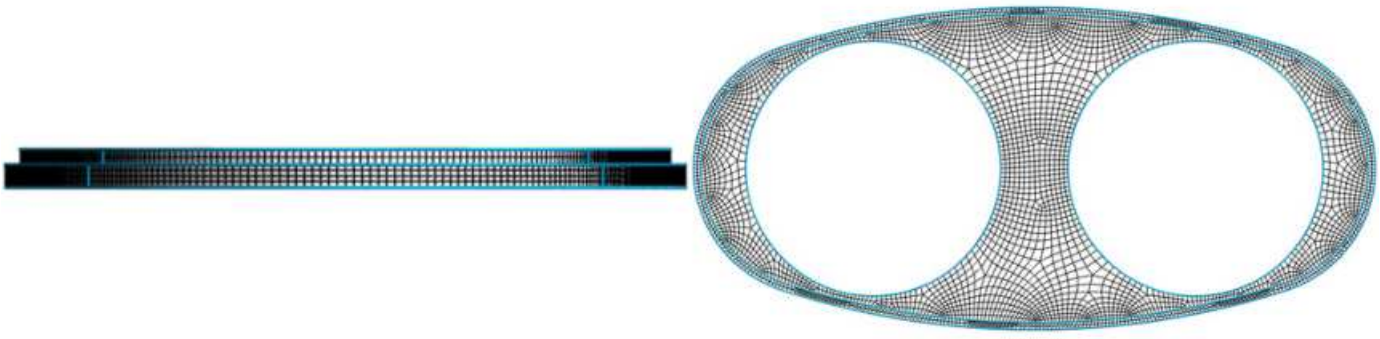
Model: 00008022 (from ABC dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 8 singularities detected
Timings: 3.14327 sec to generate the unstructured mesh, 23.0858 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10196	12568	518	42
Quasi-structured	10966	13338	190	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.380738	1.25026	3.3537	0.461887	0.931126	0.959069
Quasi-structured	0.295922	1.22624	4.1678	0.418456	0.905142	0.931125



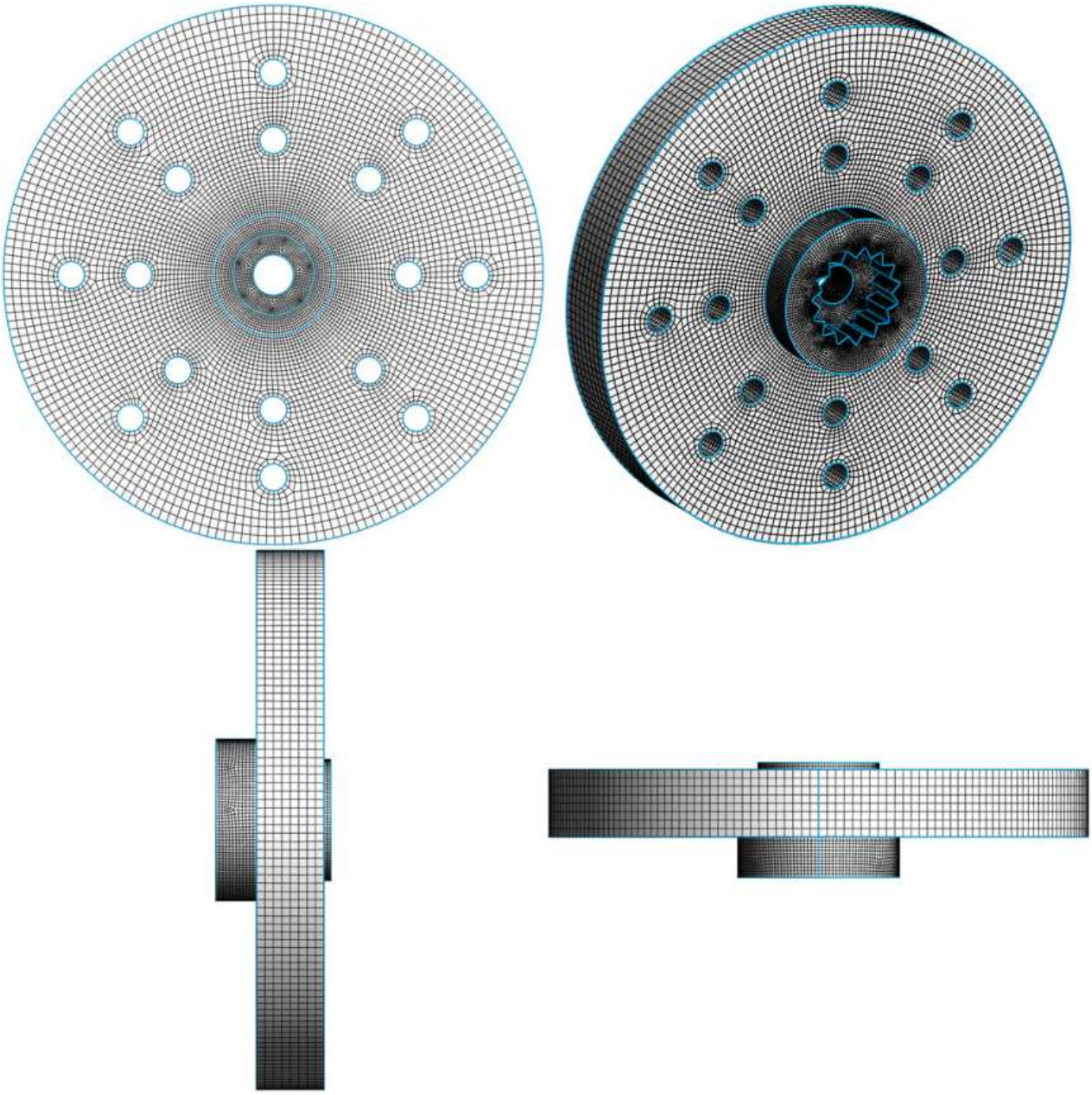


Model: 00008029 (from ABC dataset)
CAD: 147 corners, 213 curves, 72 faces
Cross field: 166 singularities detected
Timings: 29.2836 sec to generate the unstructured mesh, 12.4227 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	39180	43287	1712	350
Quasi-structured	39332	43439	430	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0256494	0.265006	0.842609	0.281423	0.953715	0.988386
Quasi-structured	0.0145177	0.264173	0.802128	0.246067	0.971055	0.990402

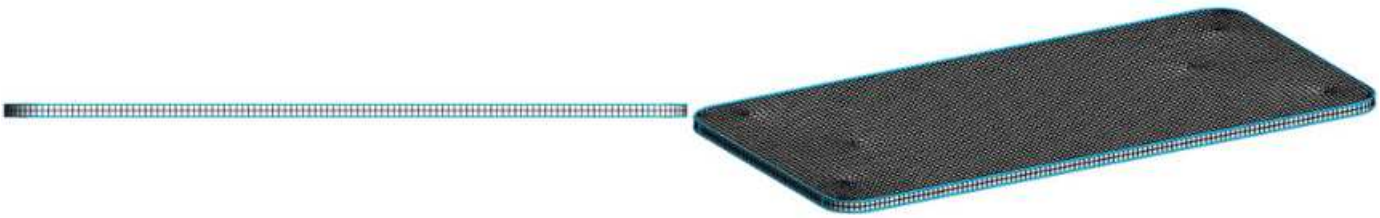


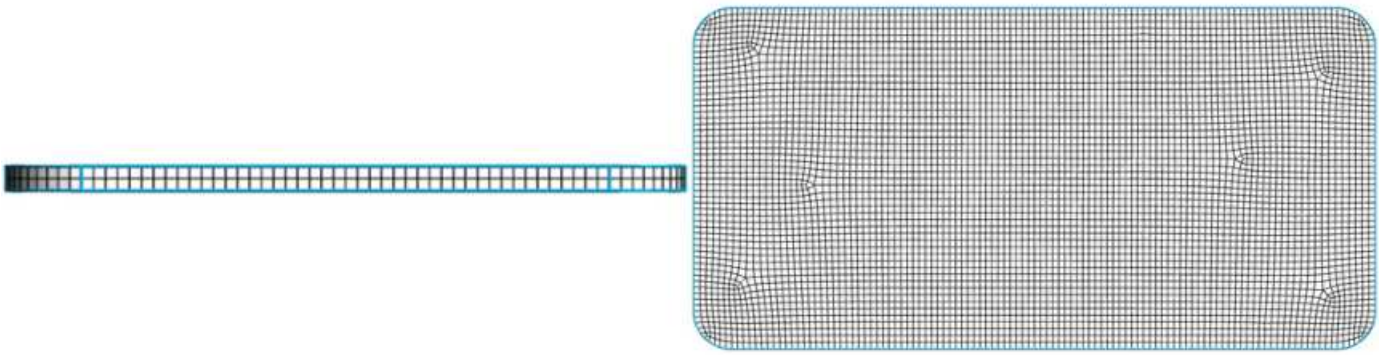
Model: 00008056 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 8.35921 sec to generate the unstructured mesh, 2.25106 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11938	12620	100	0
Quasi-structured	11928	12610	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.353576	0.844077	1.32407	0.607262	0.987474	0.991338
Quasi-structured	0.375829	0.843283	1.1472	0.77666	0.993733	0.994757



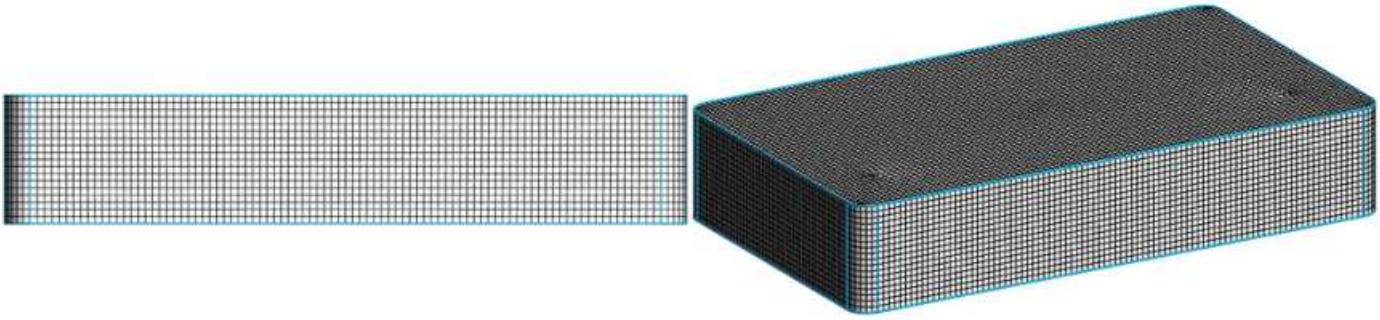


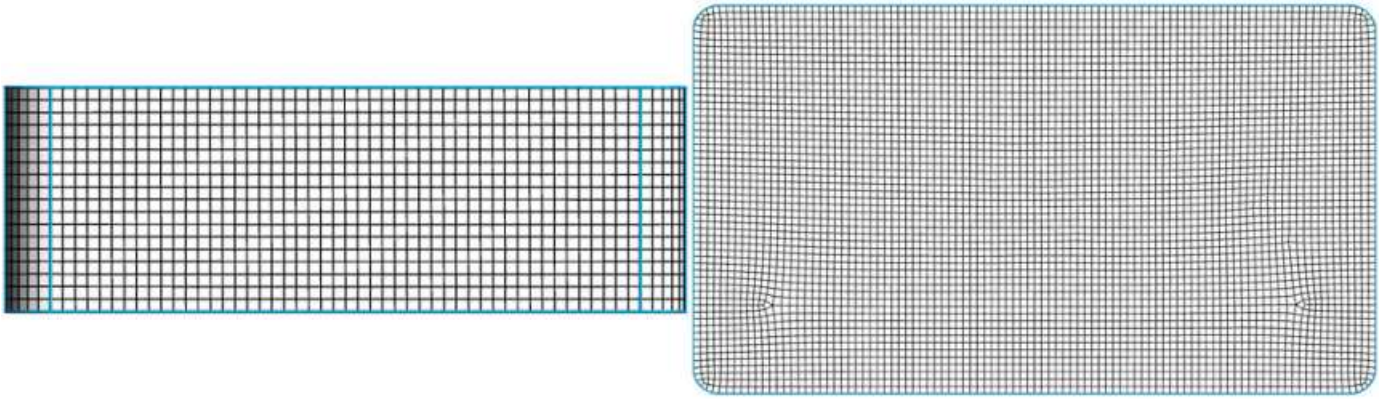
Model: 00008065 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 10.6246 sec to generate the unstructured mesh, 2.06794 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15700	16446	64	0
Quasi-structured	15784	16530	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.591321	1.39269	2.10989	0.589667	0.99462	0.999871
Quasi-structured	0.811003	1.38811	1.82064	0.838299	0.999212	0.99986



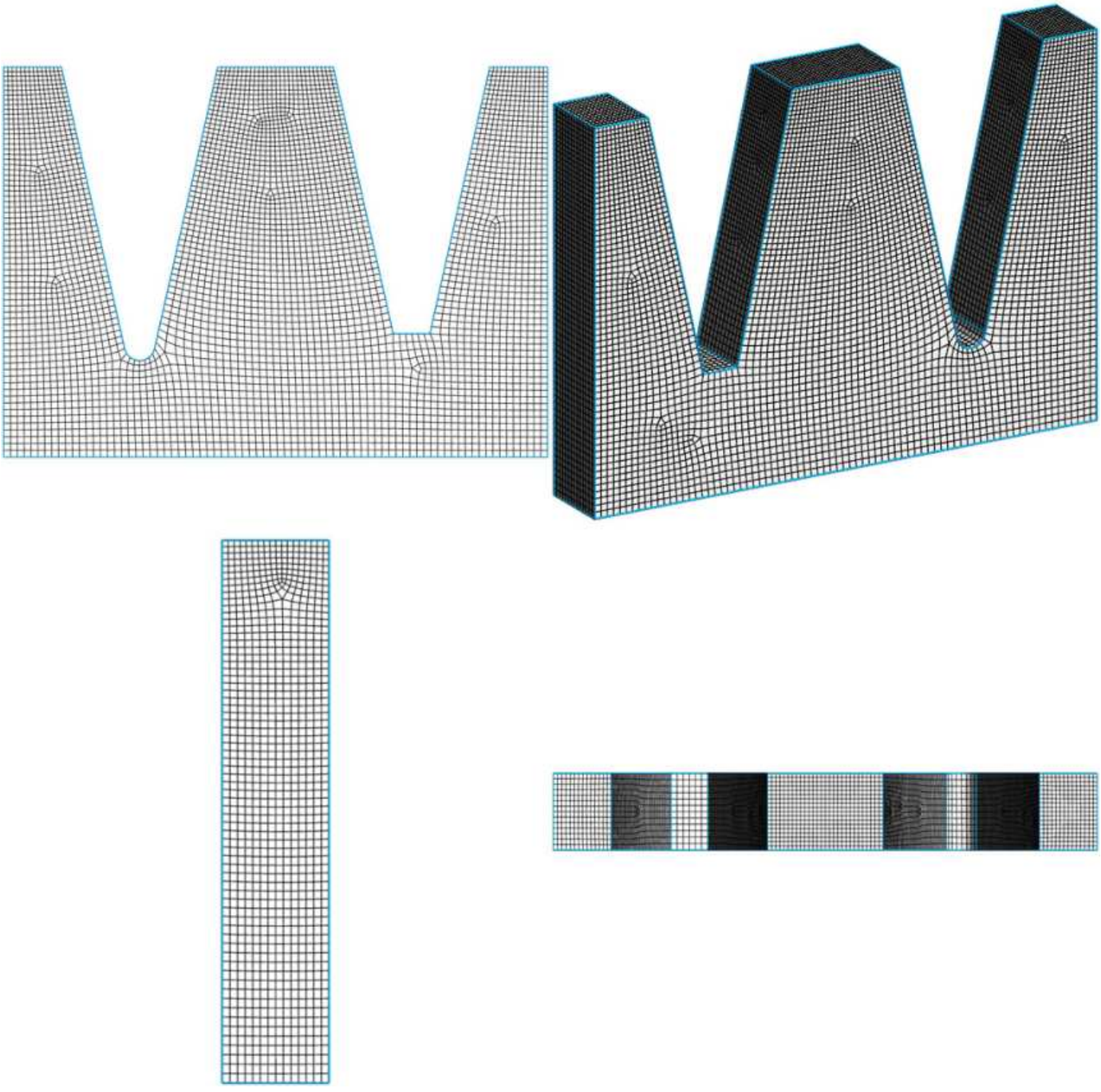


Model: 00008100 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 4 singularities detected
Timings: 11.7725 sec to generate the unstructured mesh, 2.31323 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15746	16912	106	0
Quasi-structured	15664	16830	52	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.590233	1.87514	3.64952	0.616803	0.98618	0.998878
Quasi-structured	0.796845	1.8769	4.33533	0.562437	0.992878	0.998124



Model: 00008107 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 8 singularities detected
Timings: 3.94778 sec to generate the unstructured mesh, 481.661 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	47146	55004	1421	10
Quasi-structured	47126	54984	980	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.466897	1.93729	4.29957	0.252487	0.96419	0.989315
Quasi-structured	0.436897	1.9452	5.20185	0.456201	0.961221	0.981772



Model: 00008108 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 8 singularities detected
Timings: 3.74896 sec to generate the unstructured mesh, 303.752 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	43418	50332	1192	18
Quasi-structured	42917	49831	538	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.418634	1.88167	4.10048	0.254954	0.96264	0.987944
Quasi-structured	0.308882	1.91007	4.79022	0.435844	0.954287	0.980227

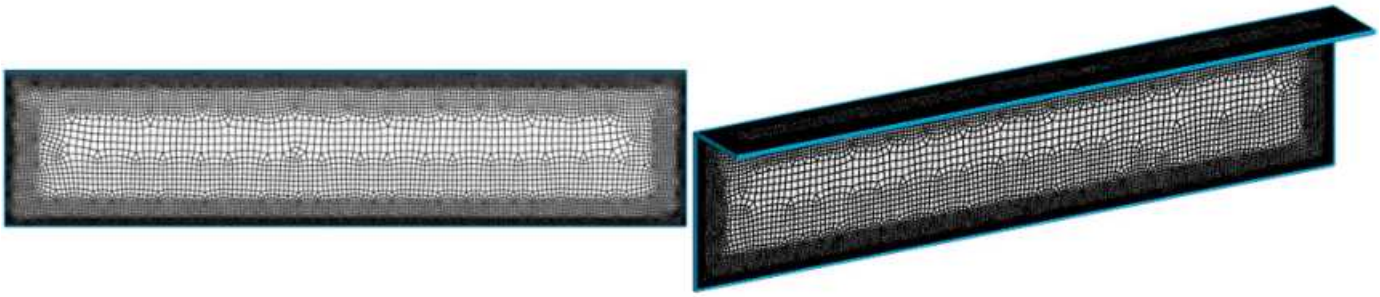


Model: 00008112 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 2 singularities detected
Timings: 5.3396 sec to generate the unstructured mesh, 588.737 sec to make it quasi-structured
Mesh topology:

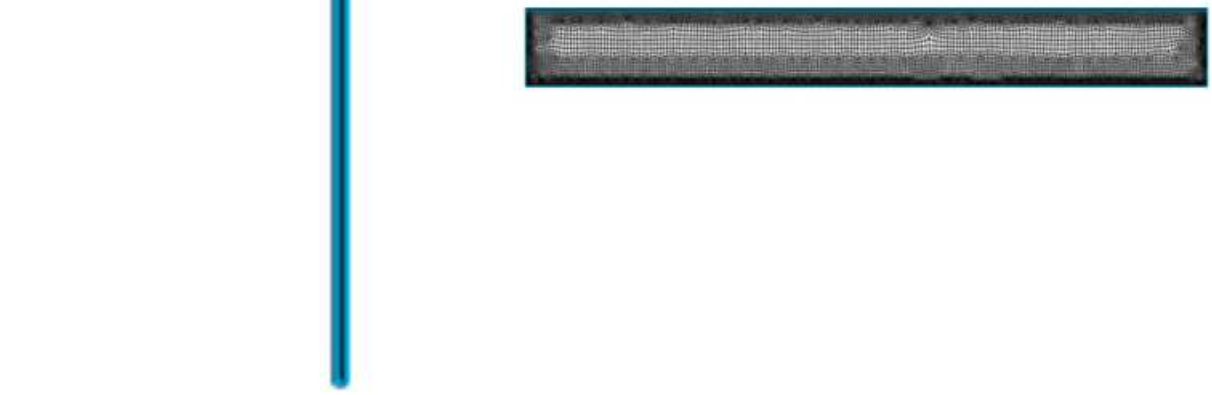
	# quads	# vertices	# irregular	# very irregular
Unstructured	60198	65008	2534	310
Quasi-structured	62879	67689	2150	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.658172	2.63439	11.5401	0.382678	0.931086	0.983281
Quasi-structured	0.669688	2.53602	12.3255	0.382678	0.971299	0.993468





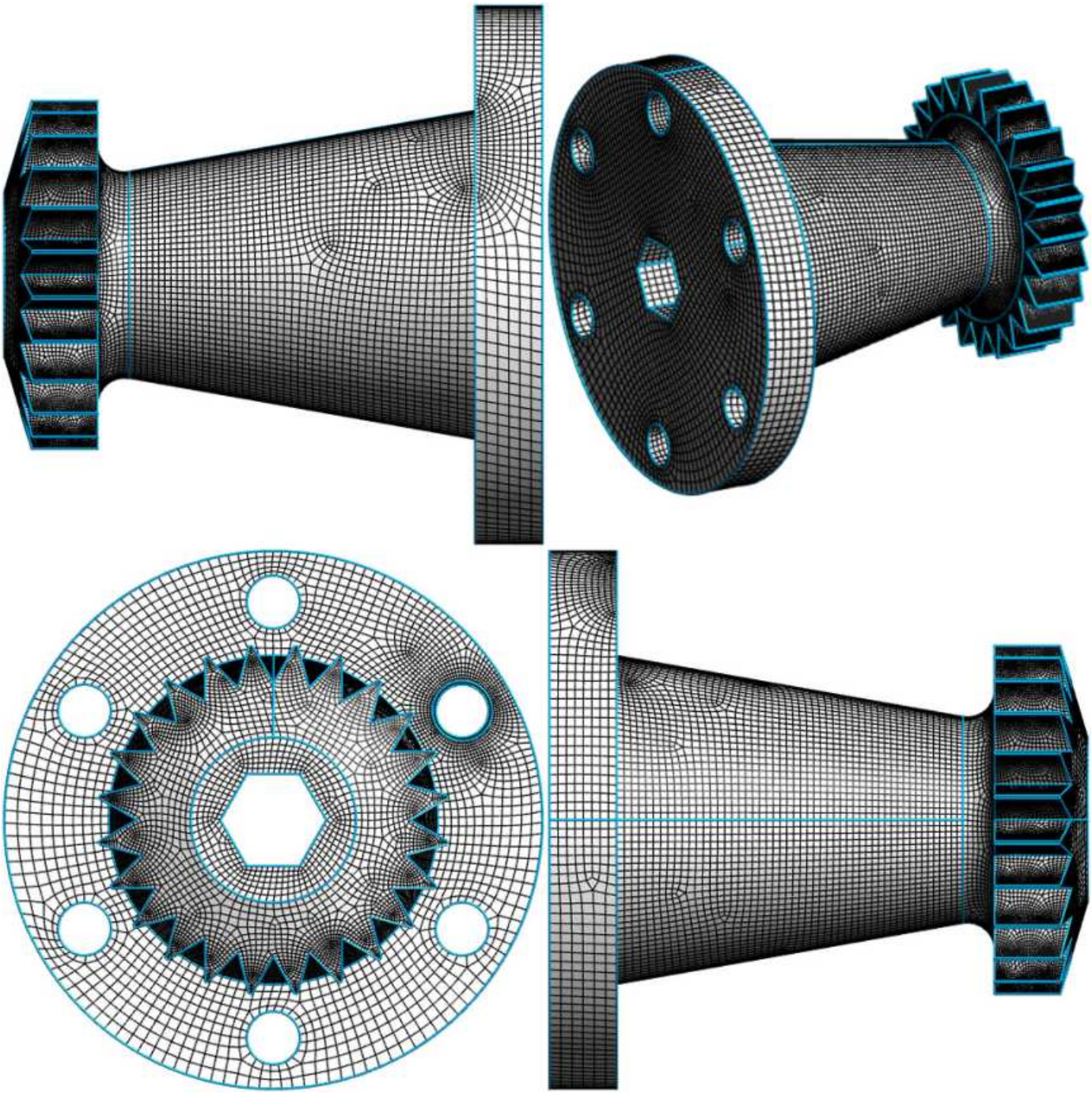


Model: 00008115 (from ABC dataset)
CAD: 182 corners, 271 curves, 93 faces
Cross field: 103 singularities detected
Timings: 29.7701 sec to generate the unstructured mesh, 23.4907 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	48628	54770	2566	269
Quasi-structured	52548	58690	617	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0248727	0.203385	1.05711	0.224821	0.940277	0.98354
Quasi-structured	0.030161	0.192153	0.906857	0.163181	0.970068	0.983293

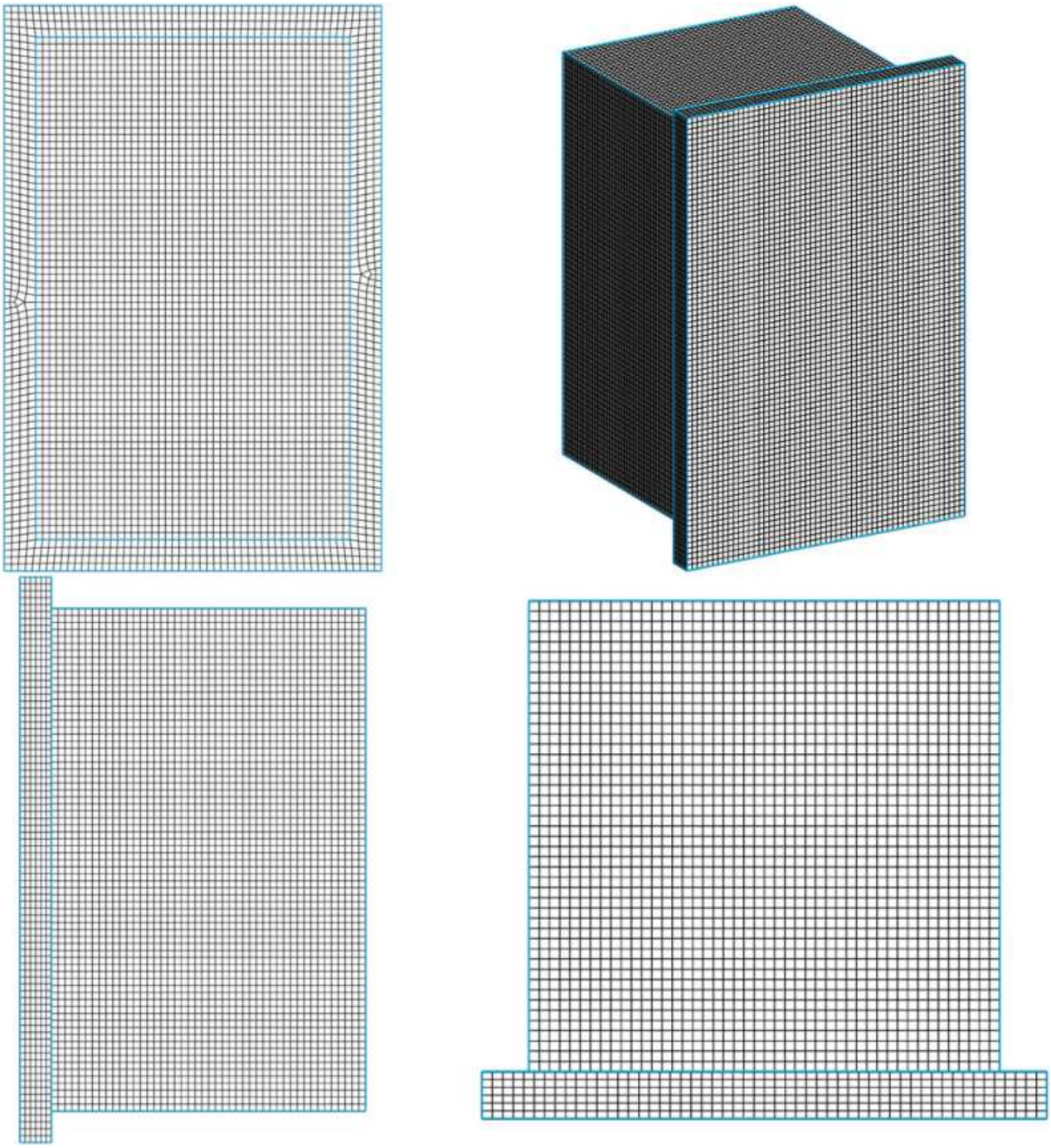


Model: 00008117 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 12.4731 sec to generate the unstructured mesh, 0.967776 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21270	22504	20	0
Quasi-structured	21246	22480	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.4442	1.38579	1.89656	0.289897	0.994948	0.999759
Quasi-structured	0.914092	1.3863	2.27003	0.840664	0.995995	0.999759

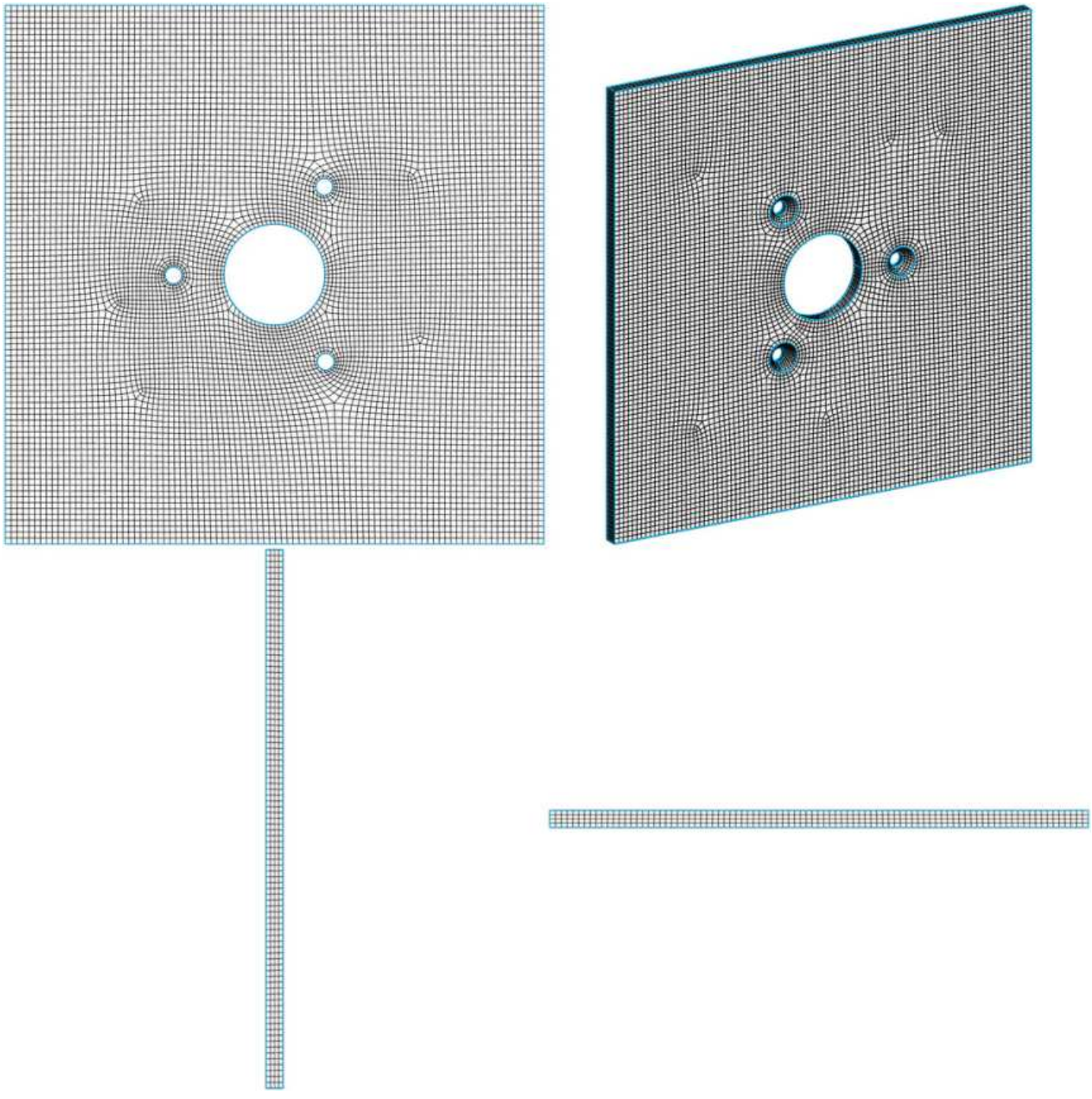


Model: 00008135 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 32 singularities detected
Timings: 17.8321 sec to generate the unstructured mesh, 5.62152 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19640	20744	323	32
Quasi-structured	19400	20504	76	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.334932	2.08821	3.66912	0.449691	0.974842	0.998412
Quasi-structured	0.497904	2.09843	4.06184	0.482488	0.986819	0.998761

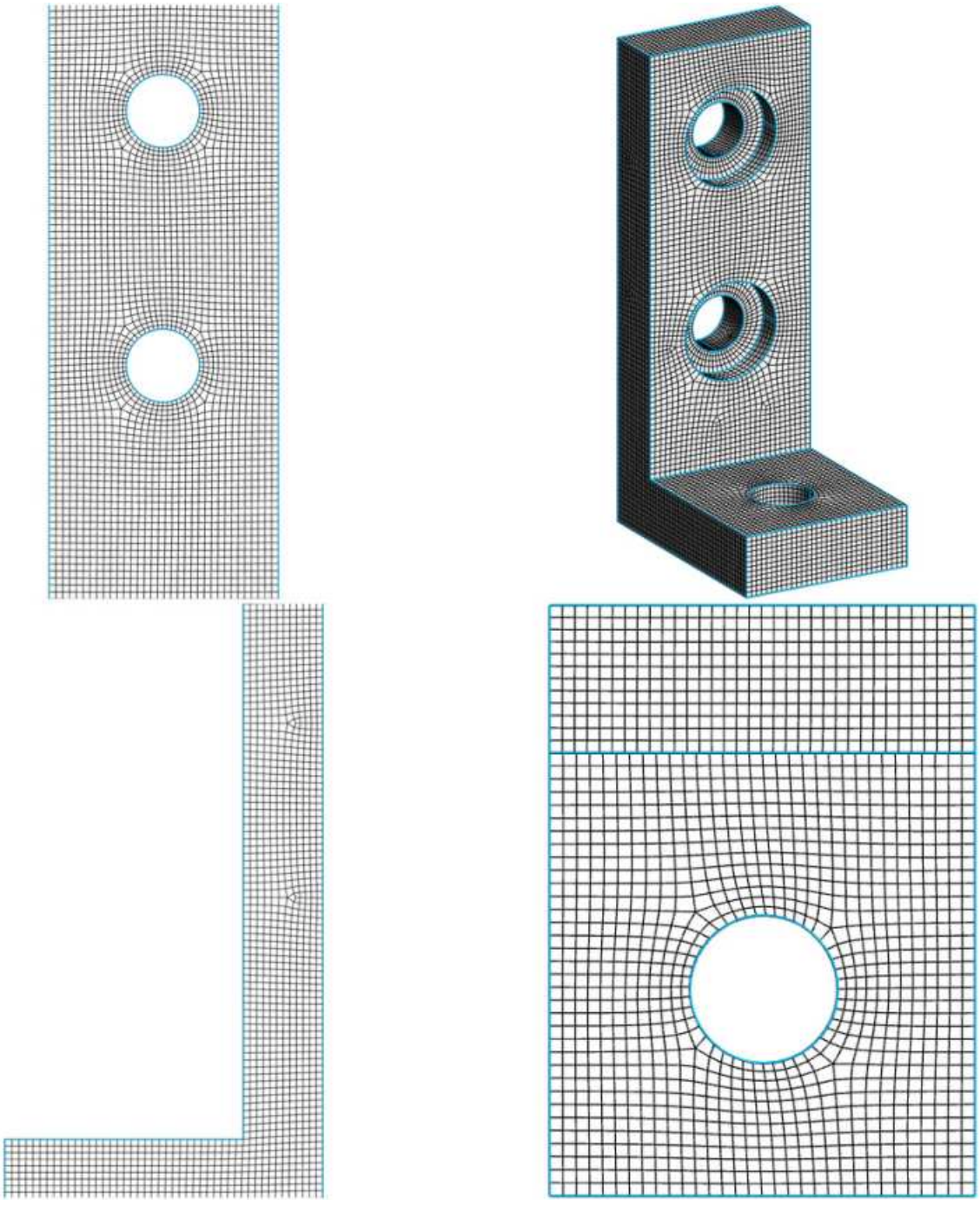


Model: 00008165 (from ABC dataset)
CAD: 22 corners, 33 curves, 15 faces
Cross field: 24 singularities detected
Timings: 7.48129 sec to generate the unstructured mesh, 1.49107 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14134	15440	220	54
Quasi-structured	14198	15504	58	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.155583	0.525666	0.973305	0.445737	0.973412	0.99652
Quasi-structured	0.156225	0.522624	1.07303	0.776588	0.98906	0.99771

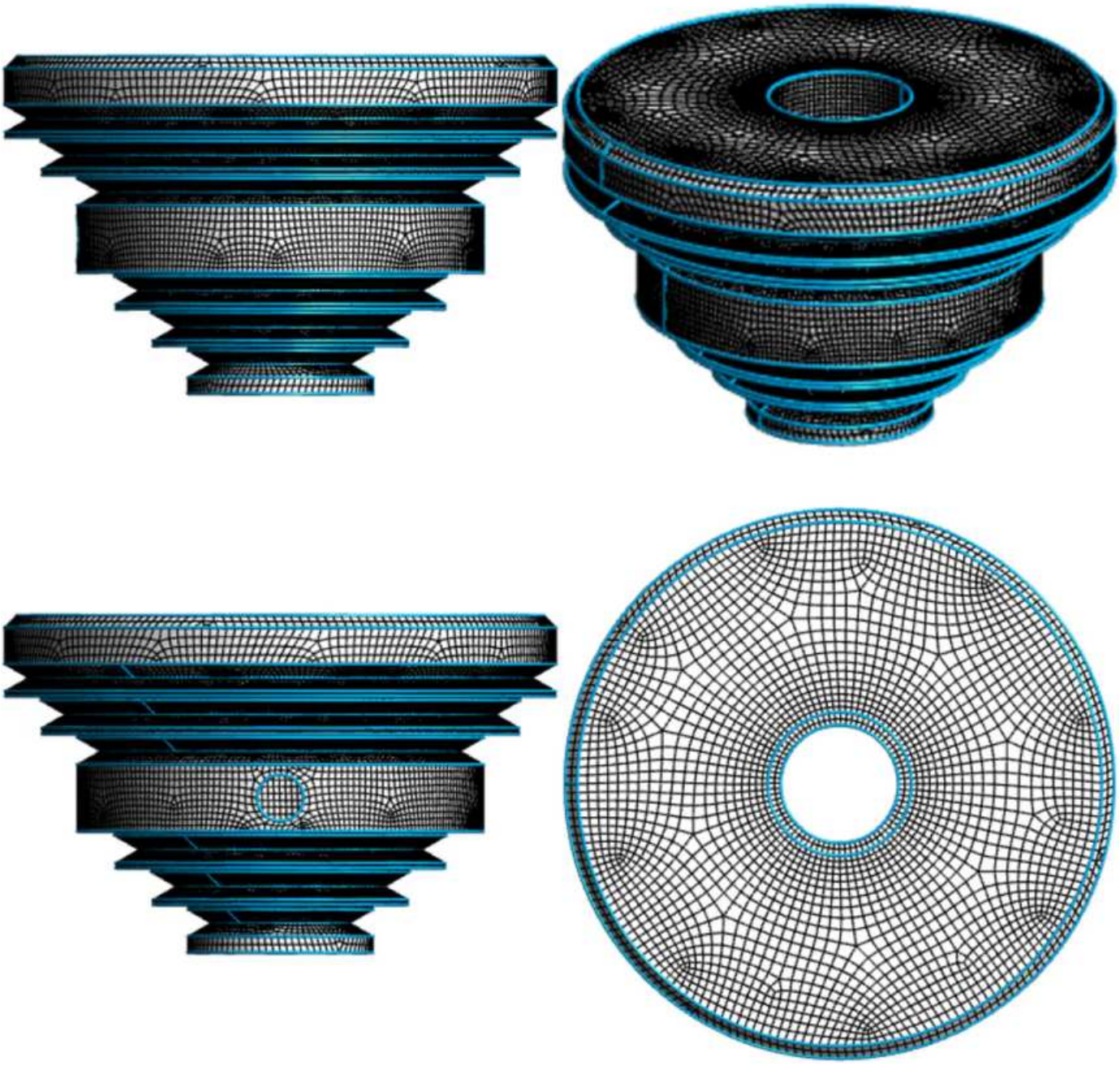


Model: 00008172 (from ABC dataset)
CAD: 66 corners, 95 curves, 36 faces
Cross field: 8 singularities detected
Timings: 30.5594 sec to generate the unstructured mesh, 472.737 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	85378	97478	3874	481
Quasi-structured	84681	96781	1346	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.082326	0.344179	1.80234	0.342547	0.942696	0.983842
Quasi-structured	0.0442268	0.345511	1.85154	0.468523	0.965419	0.982132

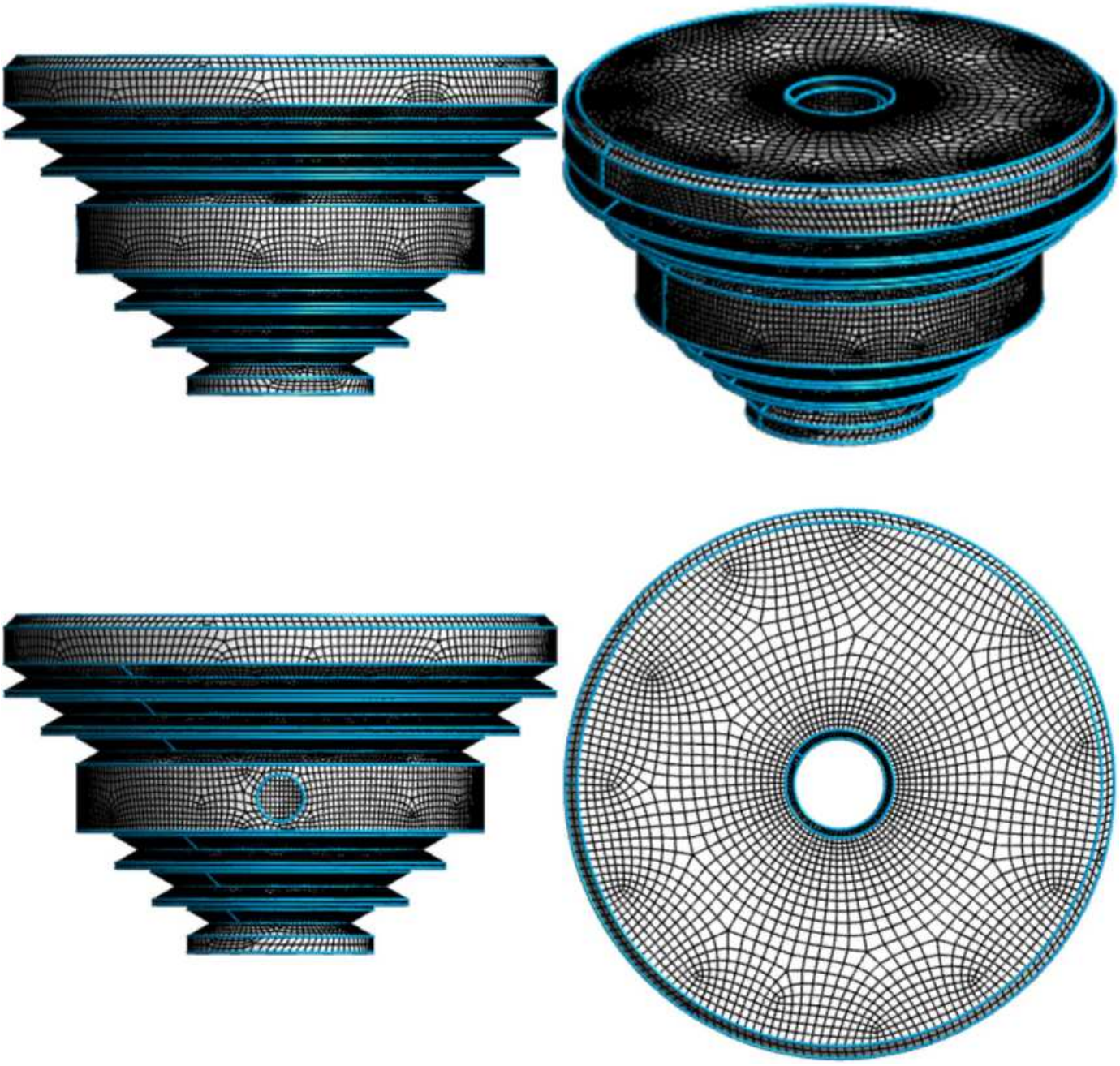


Model: 00008173 (from ABC dataset)
CAD: 73 corners, 103 curves, 36 faces
Cross field: 8 singularities detected
Timings: 40.4014 sec to generate the unstructured mesh, 544.185 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	85222	97302	3564	408
Quasi-structured	84643	96723	1328	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0860591	0.340291	1.94493	0.178381	0.943468	0.982521
Quasi-structured	0.0523421	0.342944	2.39709	0.413221	0.961069	0.974436

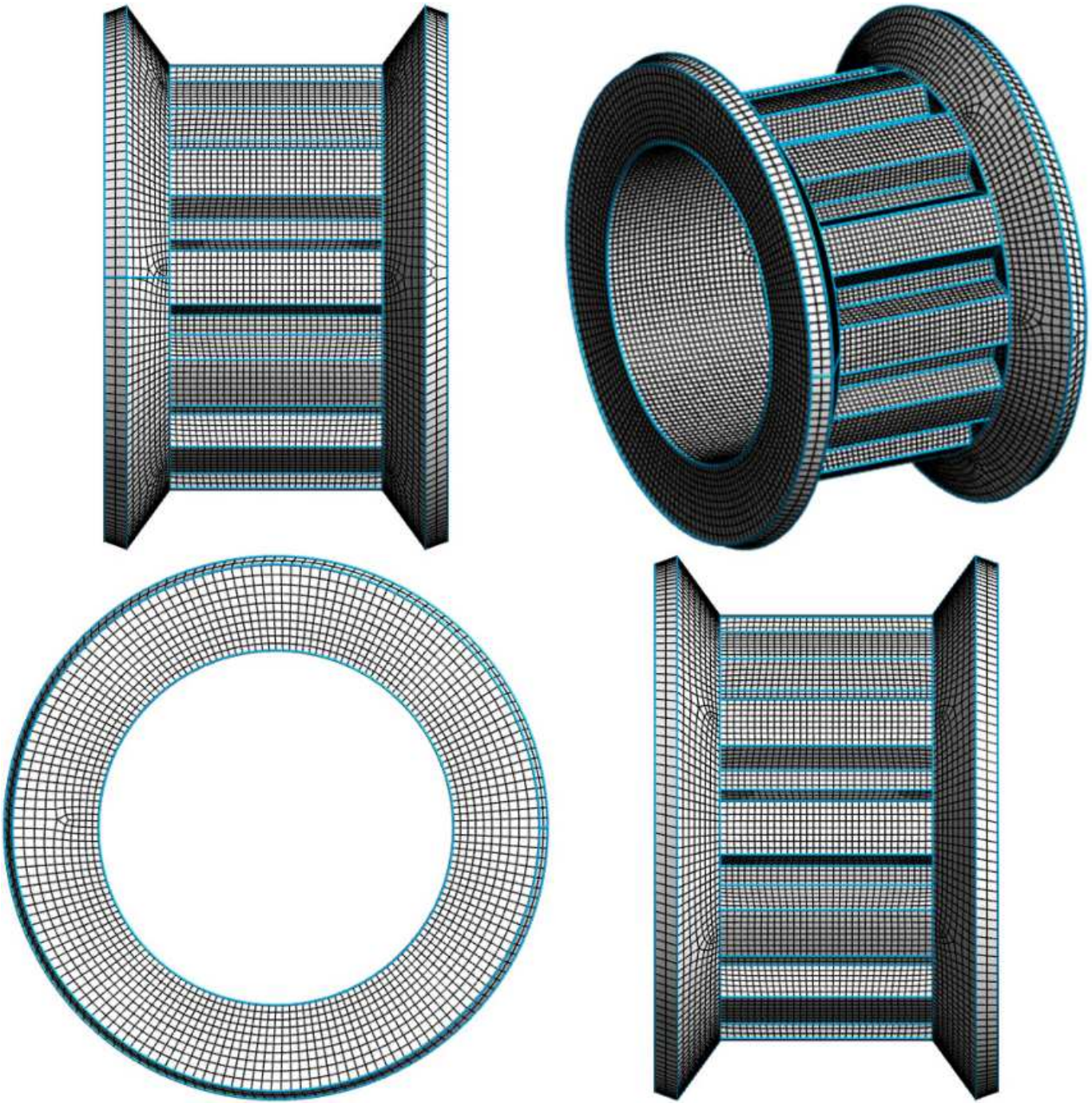


Model: 00008176 (from ABC dataset)
CAD: 105 corners, 182 curves, 79 faces
Cross field: 0 singularities detected
Timings: 16.9558 sec to generate the unstructured mesh, 3.34166 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25398	28776	262	72
Quasi-structured	25312	28690	84	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0818738	0.299648	0.556953	0.414722	0.978162	0.997001
Quasi-structured	0.119172	0.299645	0.610975	0.672826	0.983655	0.997391

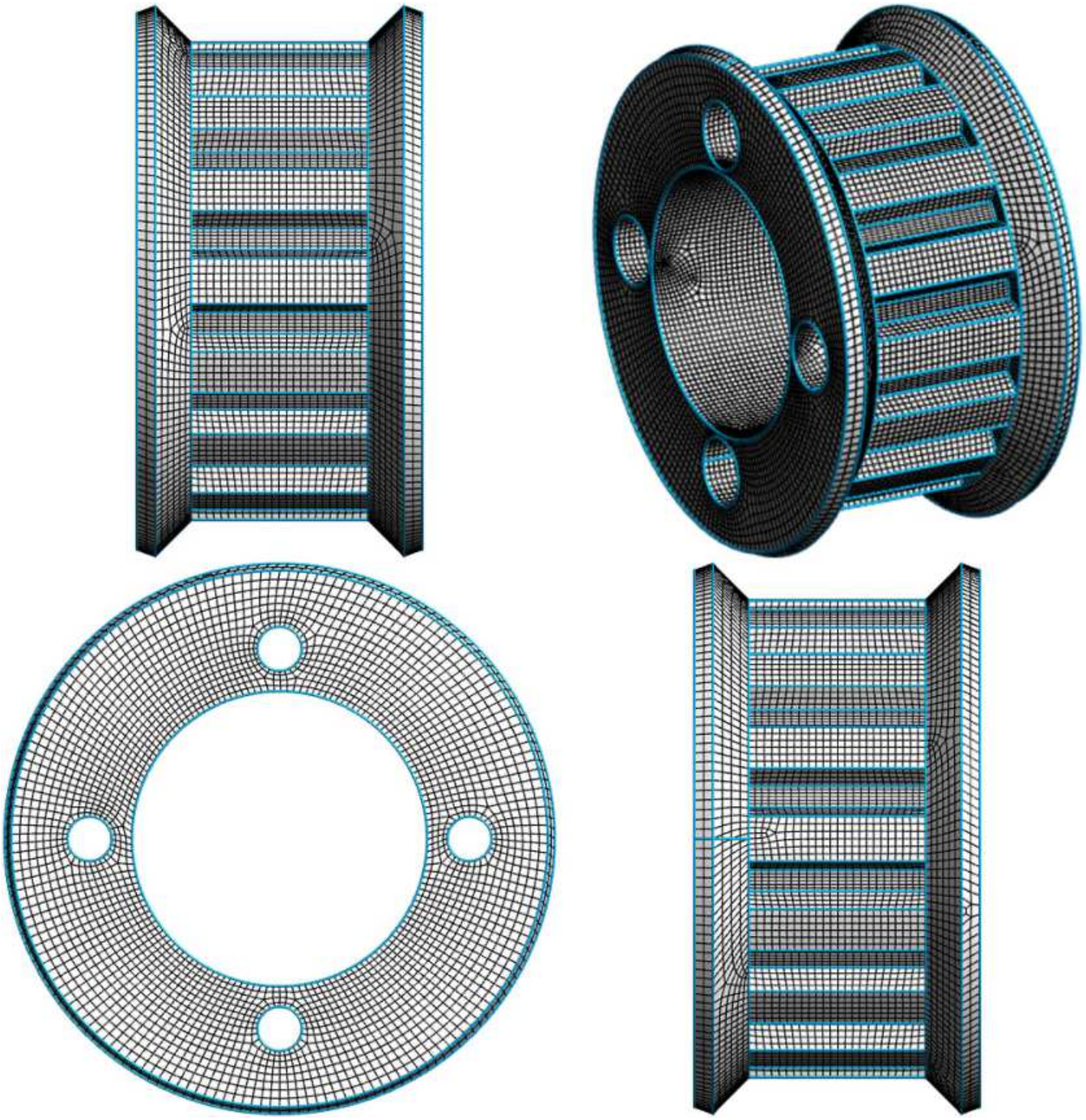


Model: 00008183 (from ABC dataset)
CAD: 157 corners, 266 curves, 115 faces
Cross field: 32 singularities detected
Timings: 17.4578 sec to generate the unstructured mesh, 7.50404 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30902	34982	468	316
Quasi-structured	30872	34952	130	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0635949	0.328283	0.850447	0.399786	0.953826	0.993005
Quasi-structured	0.0614502	0.328358	0.963539	0.566078	0.965988	0.994309

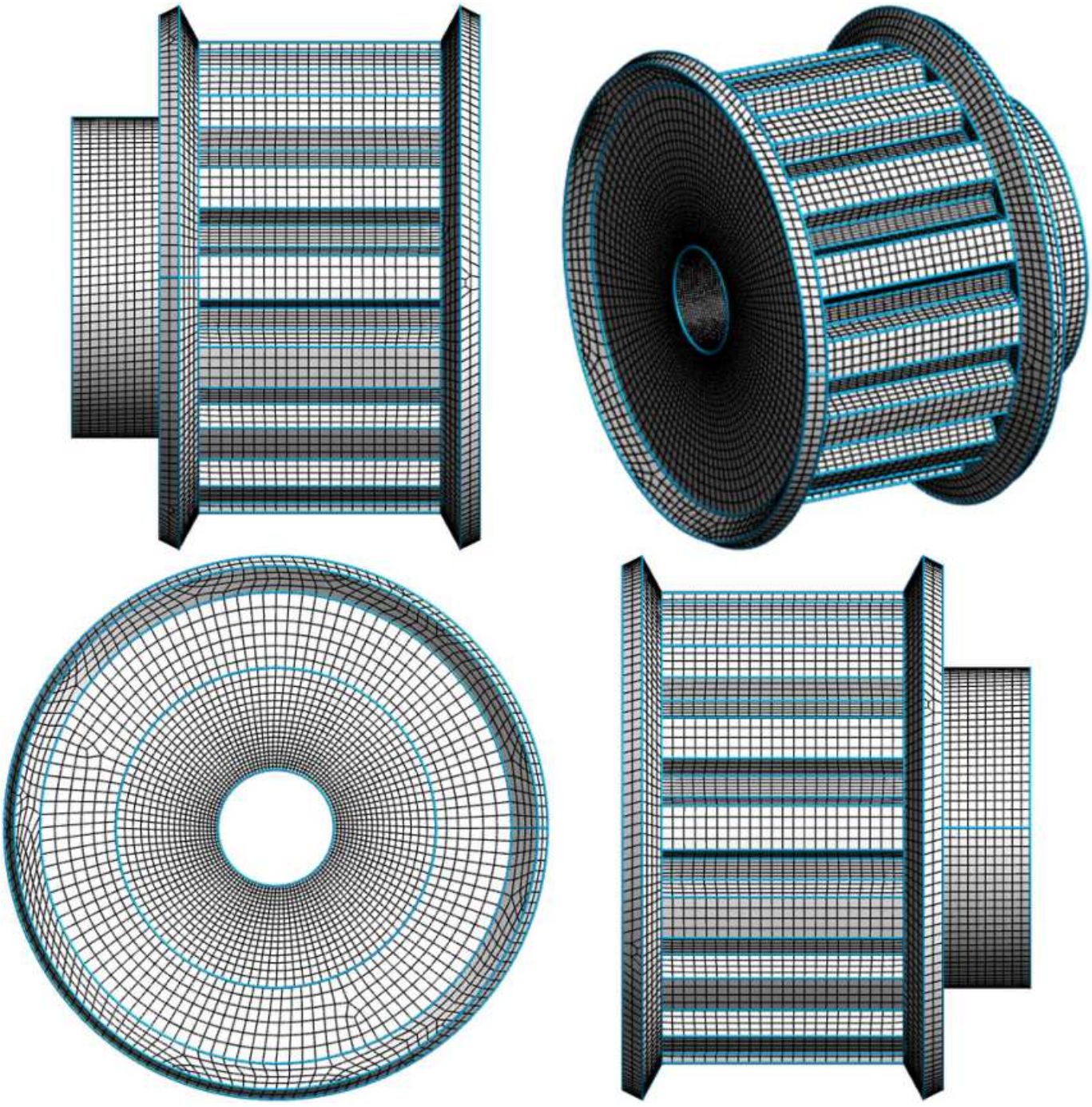


Model: 00008192 (from ABC dataset)
CAD: 143 corners, 247 curves, 107 faces
Cross field: 0 singularities detected
Timings: 19.9043 sec to generate the unstructured mesh, 11.3425 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28896	32444	244	151
Quasi-structured	28882	32430	82	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0780207	0.326523	0.963891	0.354283	0.936963	0.997497
Quasi-structured	0.10855	0.326533	1.17766	0.310852	0.942822	0.99888

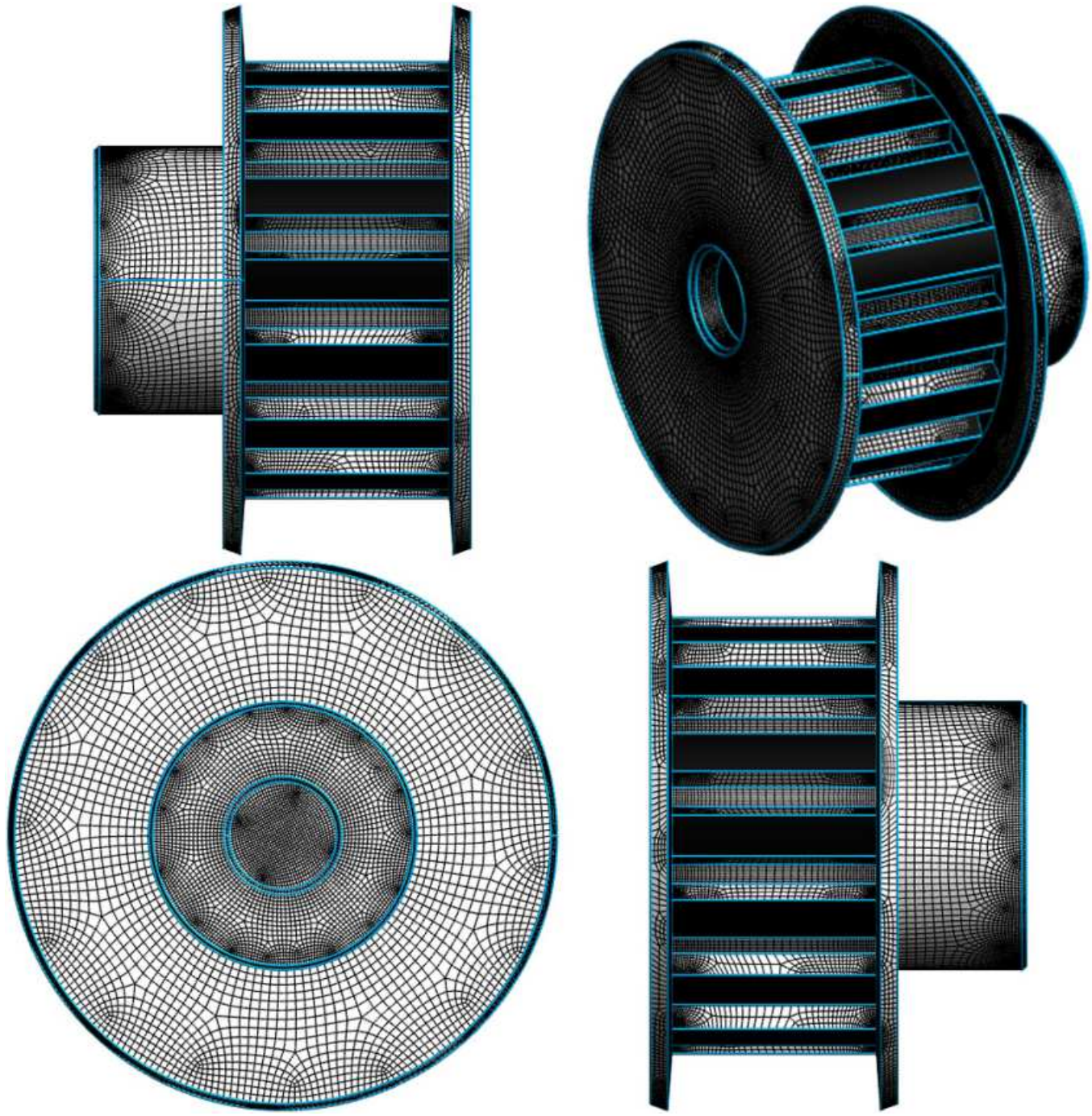


Model: 00008193 (from ABC dataset)
CAD: 146 corners, 220 curves, 81 faces
Cross field: 8 singularities detected
Timings: 25.6964 sec to generate the unstructured mesh, 969.035 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	174560	187348	5895	430
Quasi-structured	173493	186281	3416	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0122736	0.128506	0.858376	0.14991	0.768158	0.915867
Quasi-structured	0.0076878	0.12794	0.942933	0.153076	0.783389	0.927045

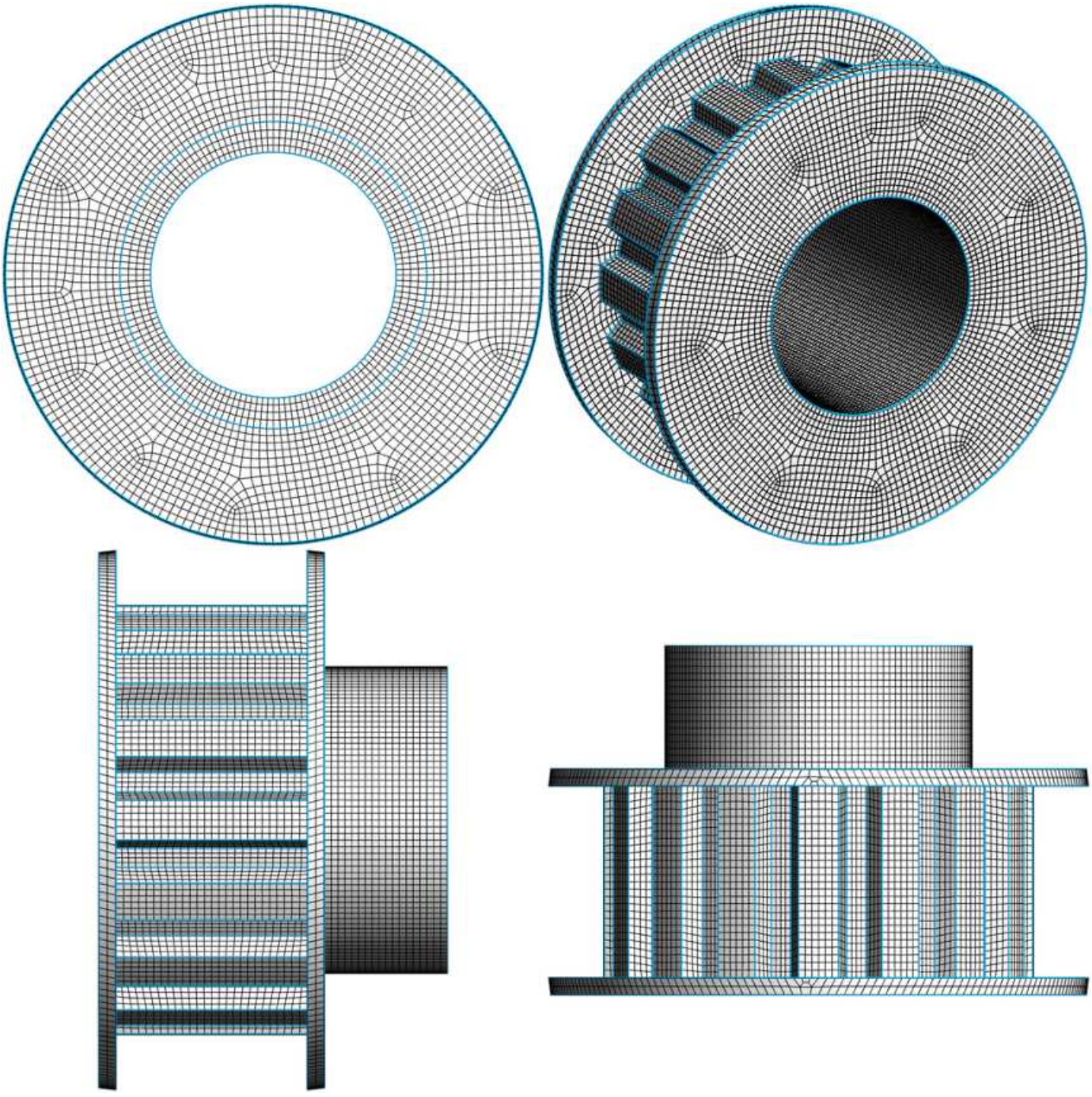


Model: 00008194 (from ABC dataset)
CAD: 137 corners, 205 curves, 73 faces
Cross field: 0 singularities detected
Timings: 16.5387 sec to generate the unstructured mesh, 5.40564 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29024	32700	304	125
Quasi-structured	29044	32720	114	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0956836	0.380274	0.859679	0.362501	0.970844	0.996152
Quasi-structured	0.19898	0.379816	0.875867	0.636441	0.982145	0.996101

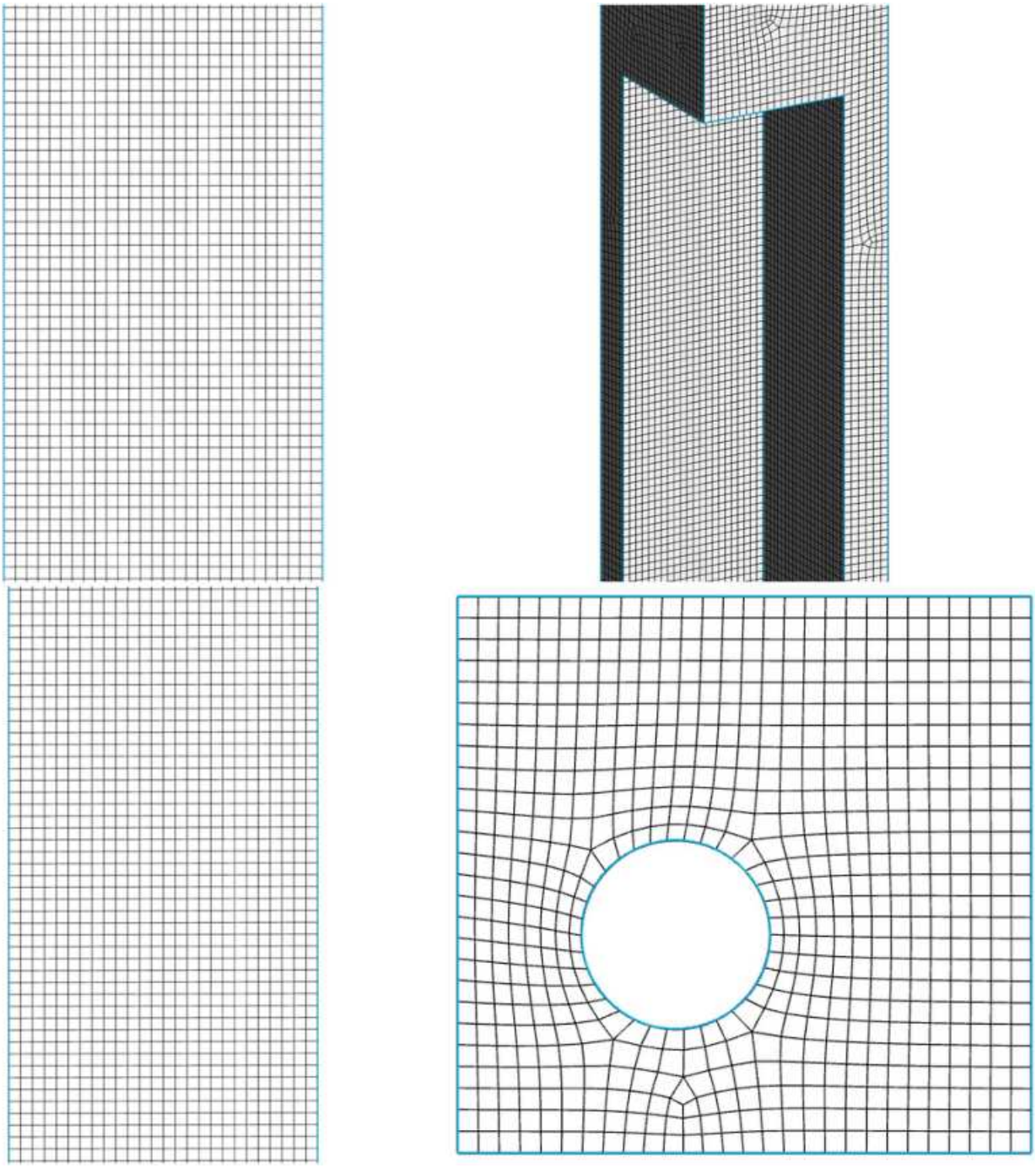


Model: 00008204 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 8.4454 sec to generate the unstructured mesh, 1.58242 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13654	14611	82	31
Quasi-structured	13760	14717	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.430598	1.08932	1.75939	0.532518	0.990964	0.998862
Quasi-structured	0.487324	1.08364	1.66998	0.775178	0.995399	0.998328

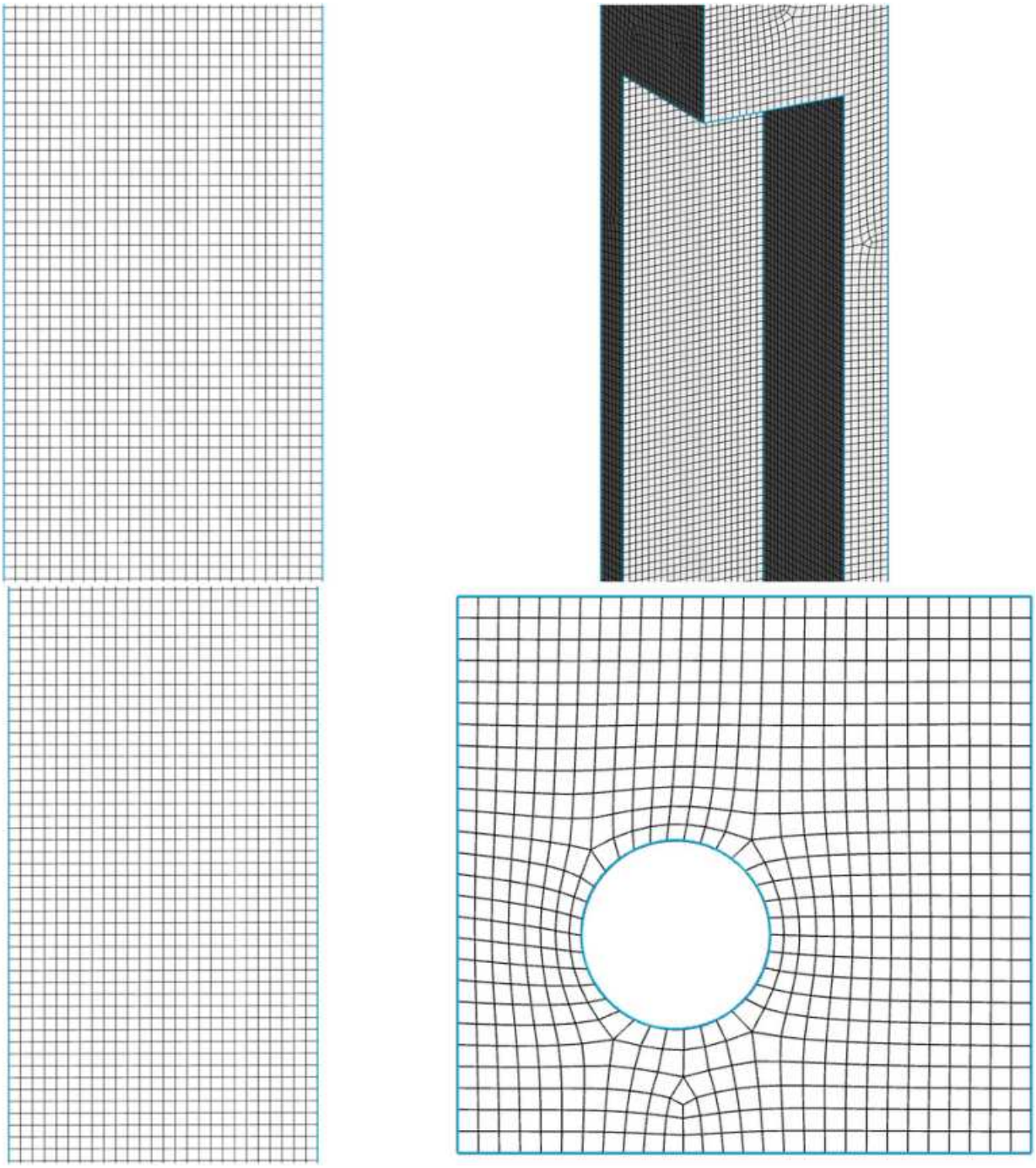


Model: 00008205 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 7.93376 sec to generate the unstructured mesh, 1.45052 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13658	14615	82	31
Quasi-structured	13762	14719	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.433753	1.08912	1.78172	0.576554	0.990976	0.998859
Quasi-structured	0.487584	1.08356	1.66995	0.775185	0.995402	0.998314

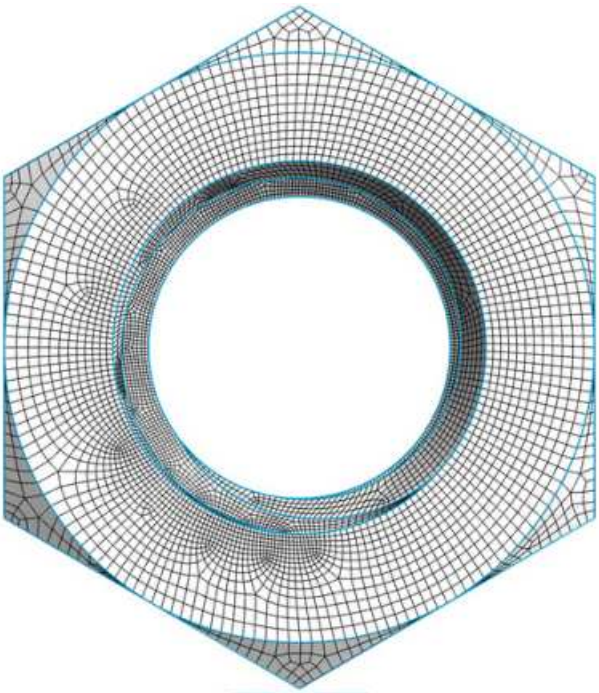


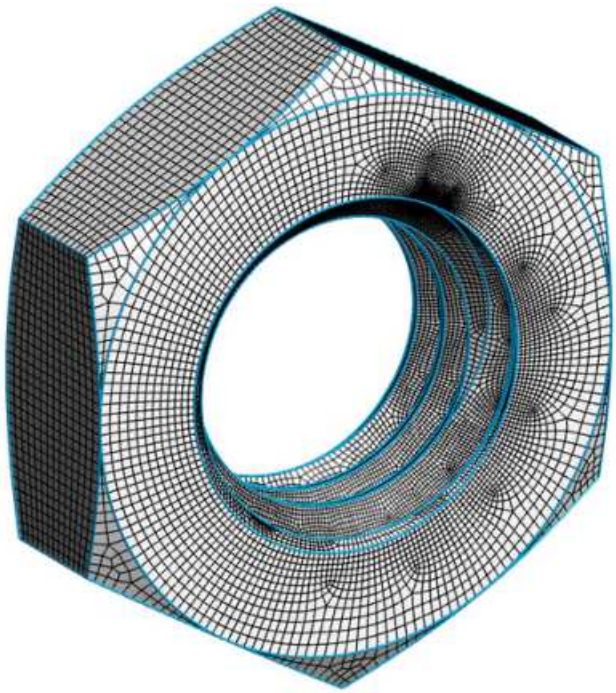
Model: 00008221 (from ABC dataset)
CAD: 33 corners, 57 curves, 26 faces
Cross field: 48 singularities detected
Timings: 38.3349 sec to generate the unstructured mesh, 263.991 sec to make it quasi-structured
Mesh topology:

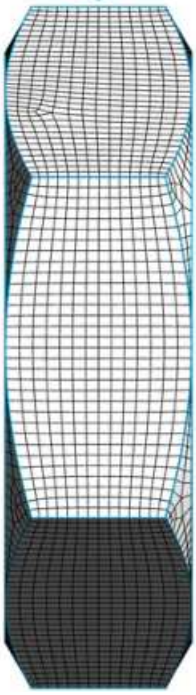
	# quads	# vertices	# irregular	# very irregular
Unstructured	32732	38214	1206	26
Quasi-structured	32775	38257	561	1

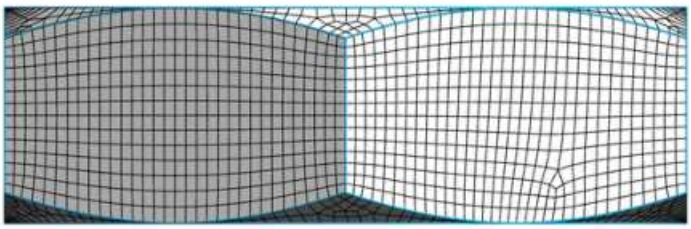
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000879689	0.16383	0.601589	0.0105879	0.924846	0.98008
Quasi-structured	0.000879689	0.163321	0.778179	0.0165447	0.929642	0.977052









Model: 00008228 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 1.86152 sec to generate the unstructured mesh, 356.118 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30038	33736	1175	33
Quasi-structured	30013	33711	534	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.562397	2.01901	4.41781	0.334529	0.879807	0.907939
Quasi-structured	0.637664	2.03143	5.78902	0.527875	0.883814	0.913536

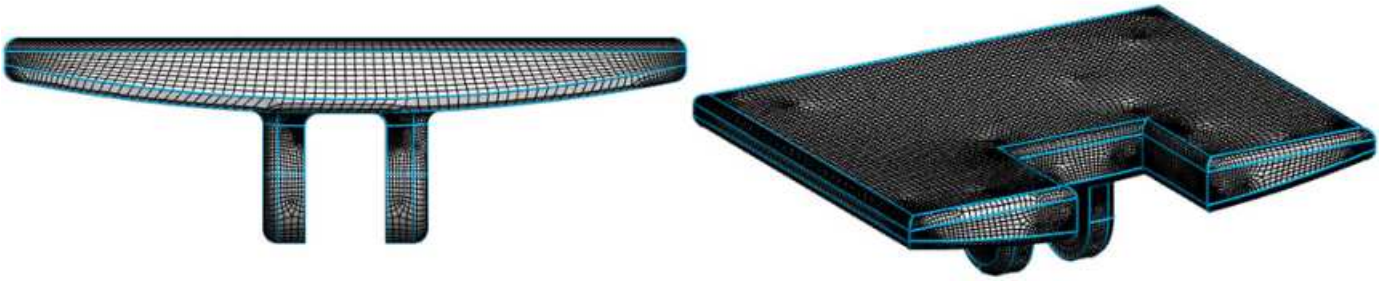


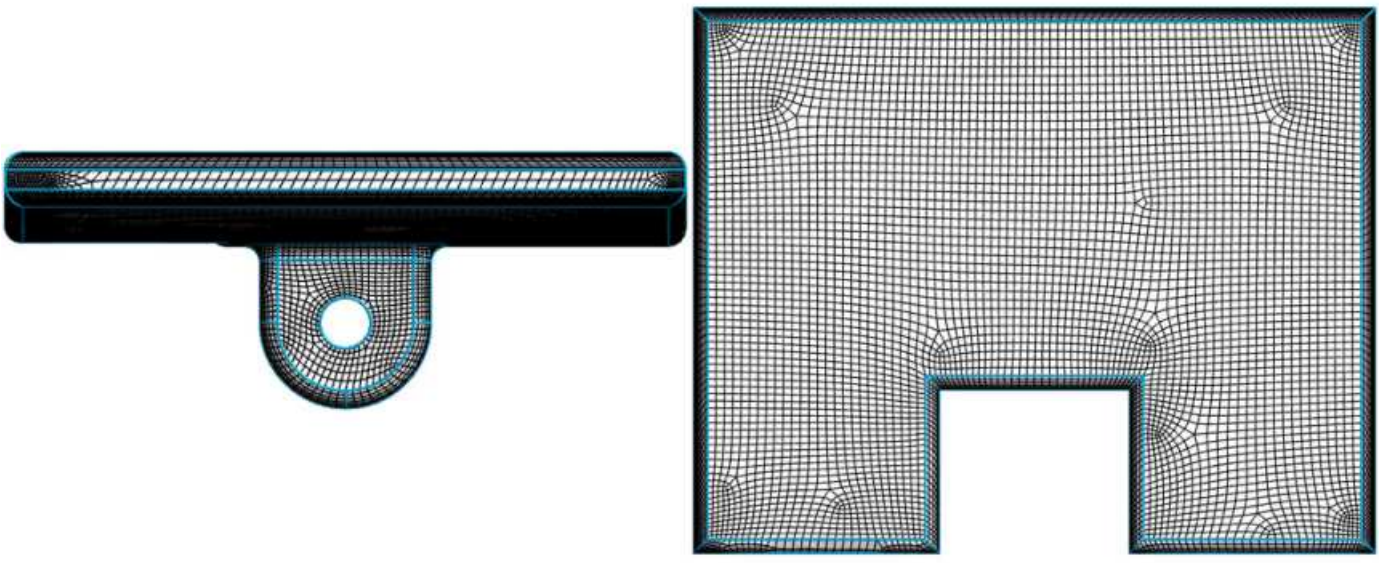
Model: 00008243 (from ABC dataset)
CAD: 92 corners, 148 curves, 60 faces
Cross field: 17 singularities detected
Timings: 15.4824 sec to generate the unstructured mesh, 19.8632 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	38864	42798	1909	87
Quasi-structured	40440	44374	354	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00576923	0.306346	1.19779	0.0960658	0.850486	0.94365
Quasi-structured	0.00822517	0.304975	1.31346	0.301023	0.866527	0.943881



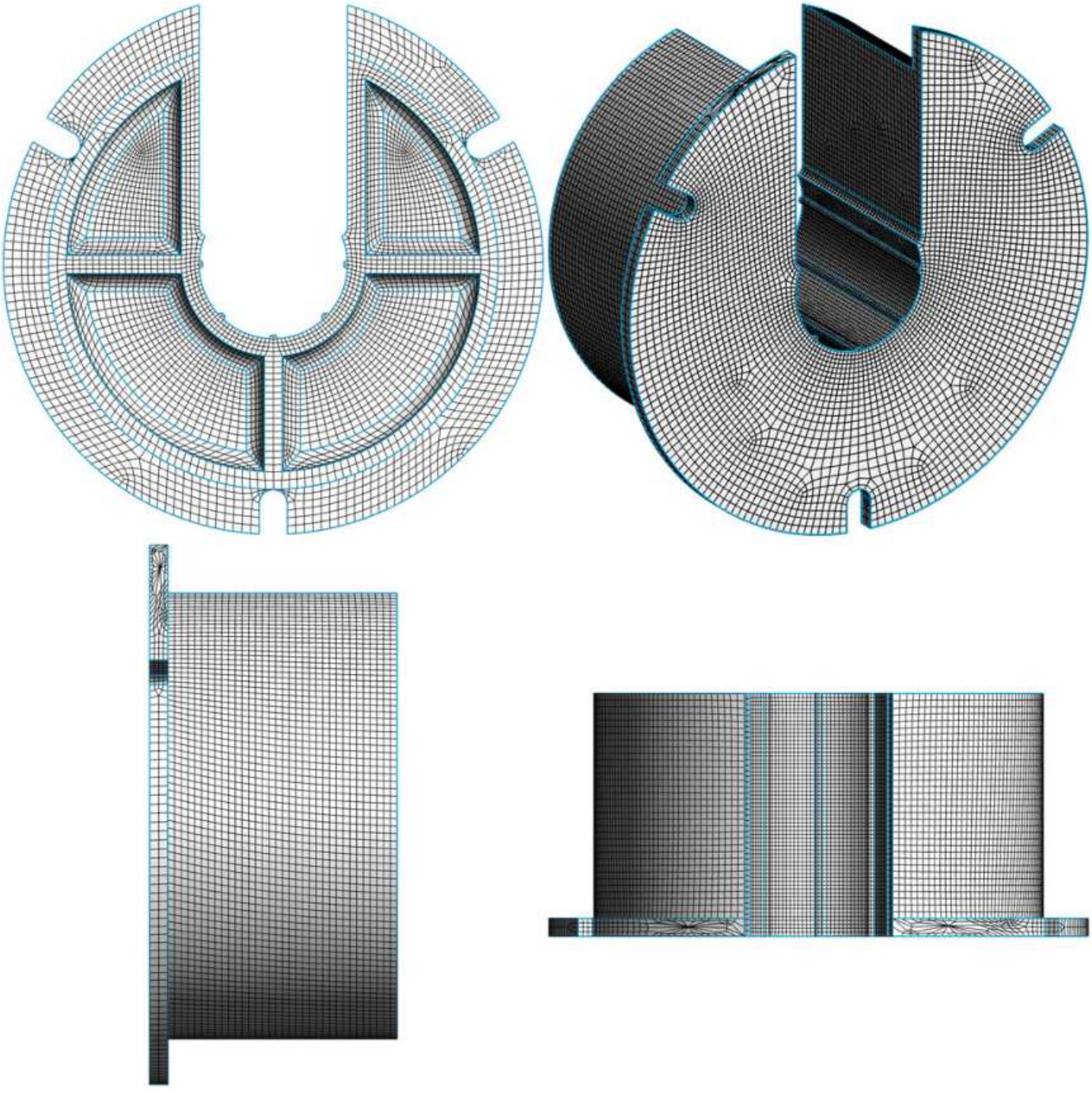


Model: 00008252 (from ABC dataset)
CAD: 105 corners, 166 curves, 67 faces
Cross field: 60 singularities detected
Timings: 26.6262 sec to generate the unstructured mesh, 13.7927 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34292	37977	495	15
Quasi-structured	35362	39047	174	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0823002	0.699273	5.82696	0.0354618	0.967571	0.993516
Quasi-structured	0.0403751	0.688063	5.37598	0.09588	0.975254	0.992085

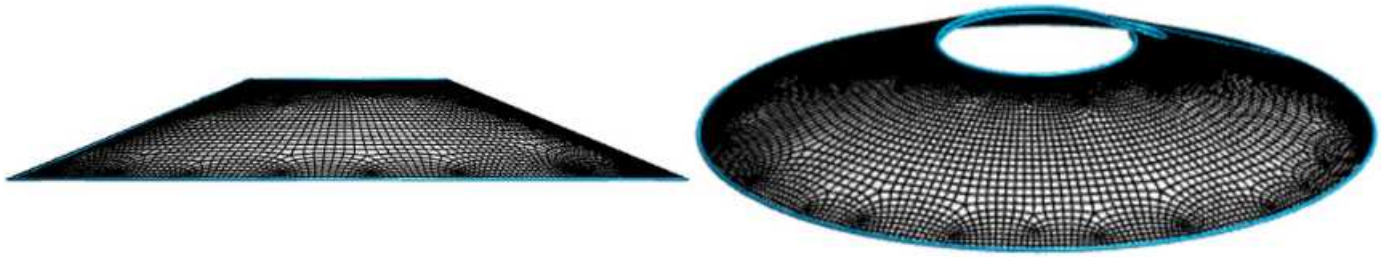


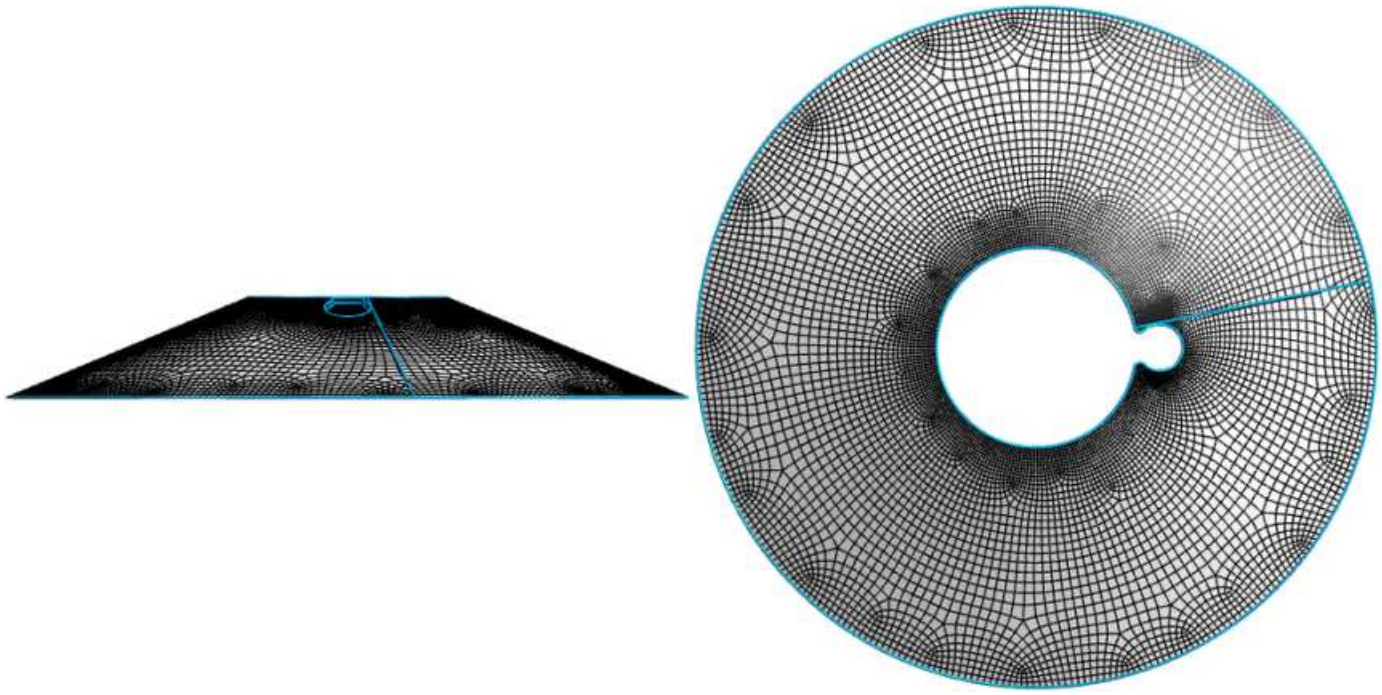
Model: 00008262 (from ABC dataset)
CAD: 12 corners, 18 curves, 7 faces
Cross field: 9 singularities detected
Timings: 14.3303 sec to generate the unstructured mesh, 124.776 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19282	20614	704	196
Quasi-structured	19398	20730	198	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.018192	0.512806	1.41478	-0.290237	0.921272	0.971368
Quasi-structured	0.0267269	0.507988	1.63408	0.170167	0.956651	0.981457



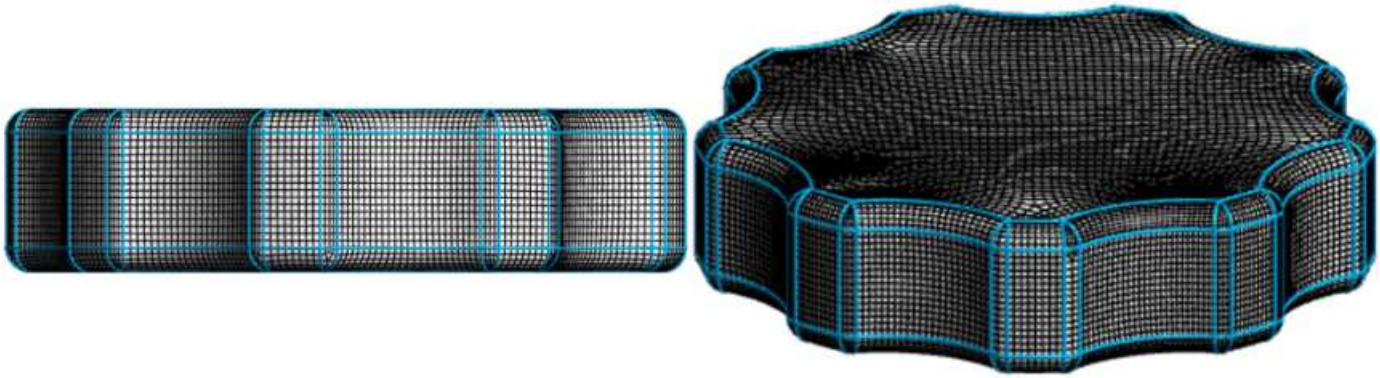


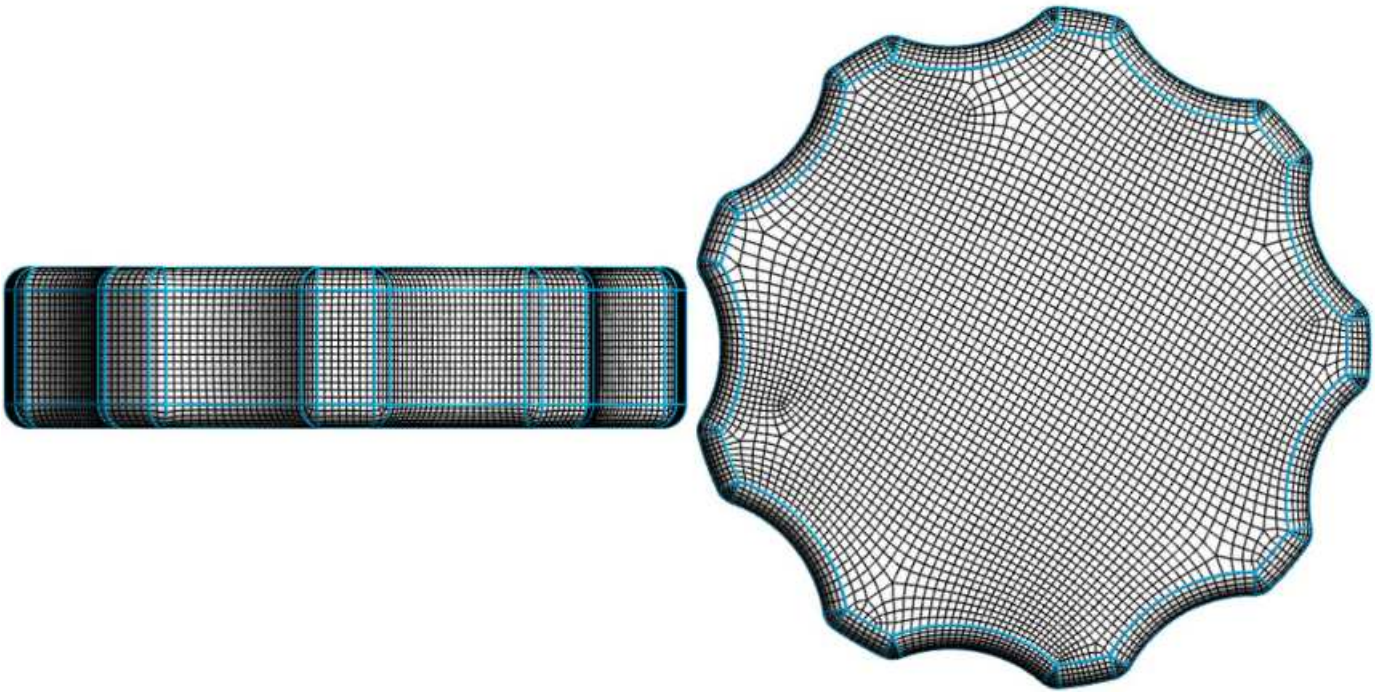
Model: 00008265 (from ABC dataset)
CAD: 108 corners, 252 curves, 110 faces
Cross field: 49 singularities detected
Timings: 12.449 sec to generate the unstructured mesh, 2.12475 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16948	19304	320	4
Quasi-structured	16538	18894	111	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0828145	0.330633	0.689007	0.162901	0.957096	0.98163
Quasi-structured	0.0733396	0.332253	1.03648	0.456004	0.971196	0.990592



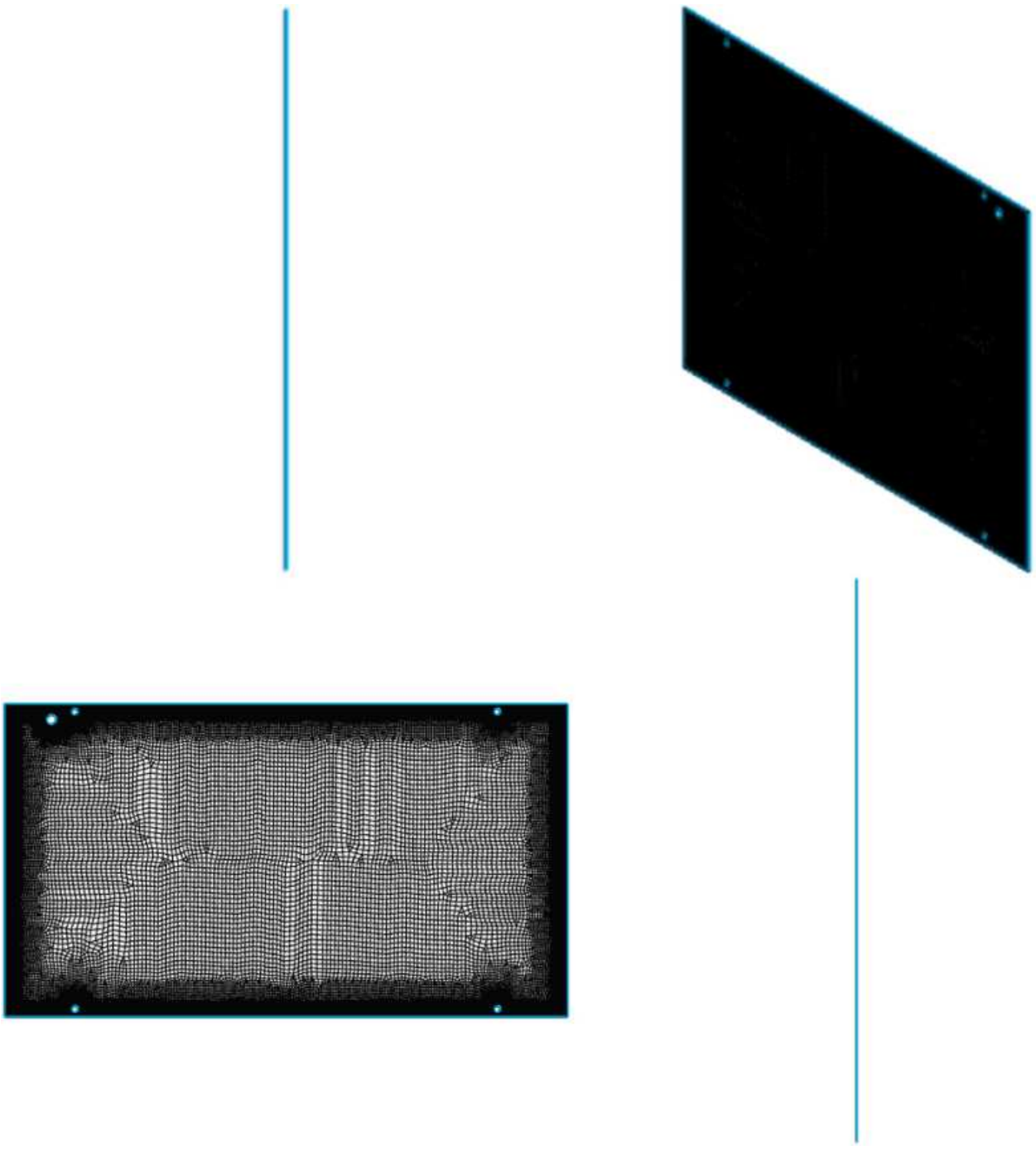


Model: 00008269 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 40 singularities detected
Timings: 29.9099 sec to generate the unstructured mesh, 761.005 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	249168	264386	11826	1079
Quasi-structured	250733	265951	11104	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0291508	0.237033	2.46606	0.375887	0.930375	0.973596
Quasi-structured	0.0304592	0.235955	2.58139	0.305922	0.937608	0.968405

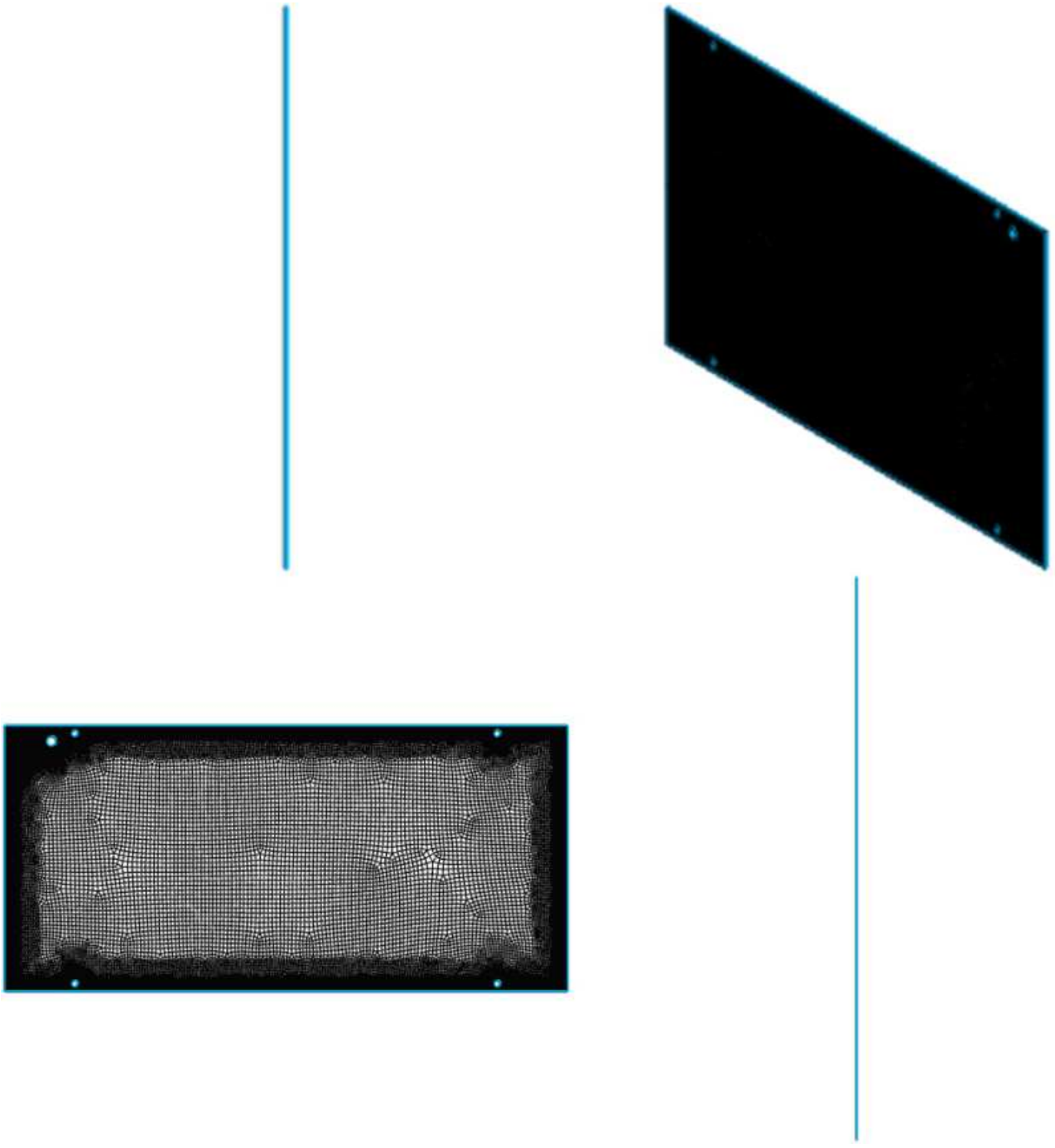


Model: 00008271 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 40 singularities detected
Timings: 23.0831 sec to generate the unstructured mesh, 871.525 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	253292	268766	12318	1008
Quasi-structured	255354	270828	11624	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0292838	0.217956	2.2762	0.397126	0.931769	0.974287
Quasi-structured	0.0256211	0.213568	2.17772	0.287324	0.971409	0.994041

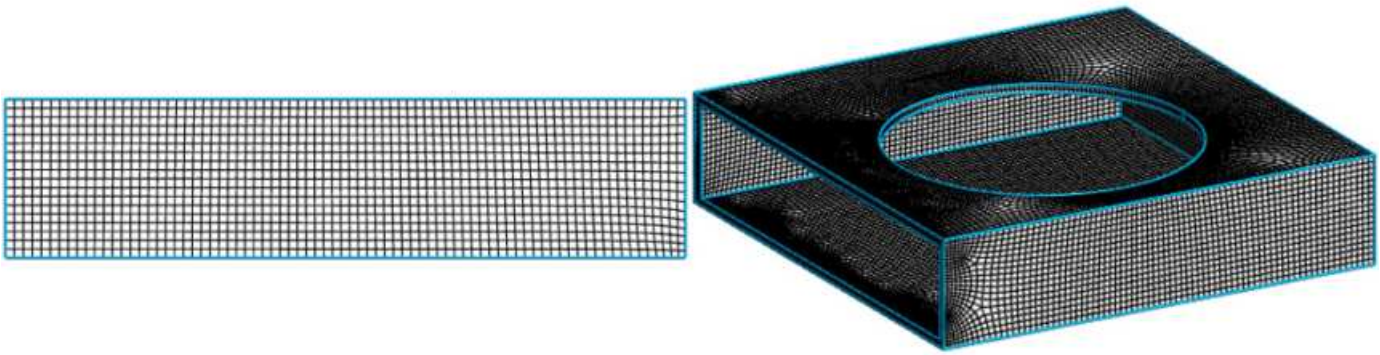


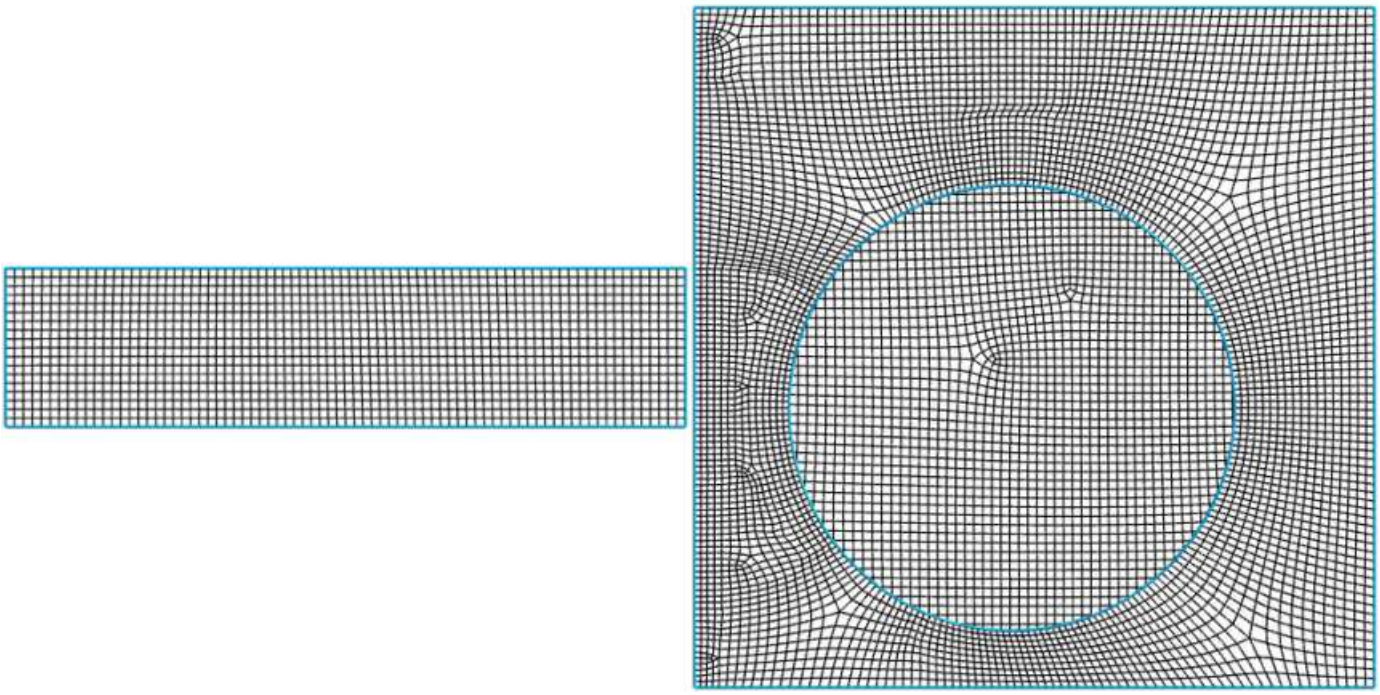
Model: 00008277 (from ABC dataset)
CAD: 25 corners, 37 curves, 15 faces
Cross field: 9 singularities detected
Timings: 18.5705 sec to generate the unstructured mesh, 22.3259 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37818	40387	970	45
Quasi-structured	38691	41260	194	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0196517	0.460306	0.969443	0.386862	0.96764	0.997356
Quasi-structured	0.0245794	0.455073	1.74726	0.411037	0.973625	0.993089



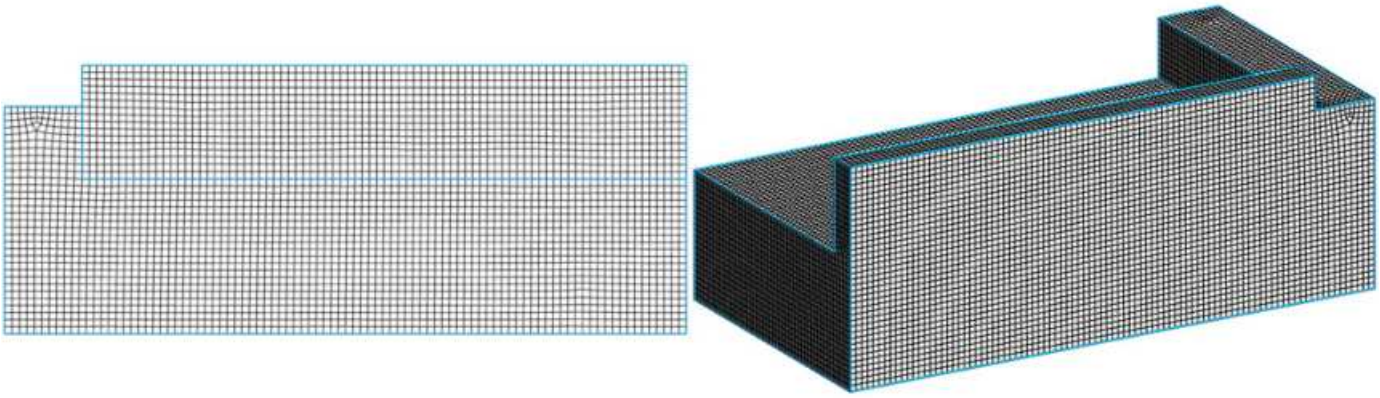


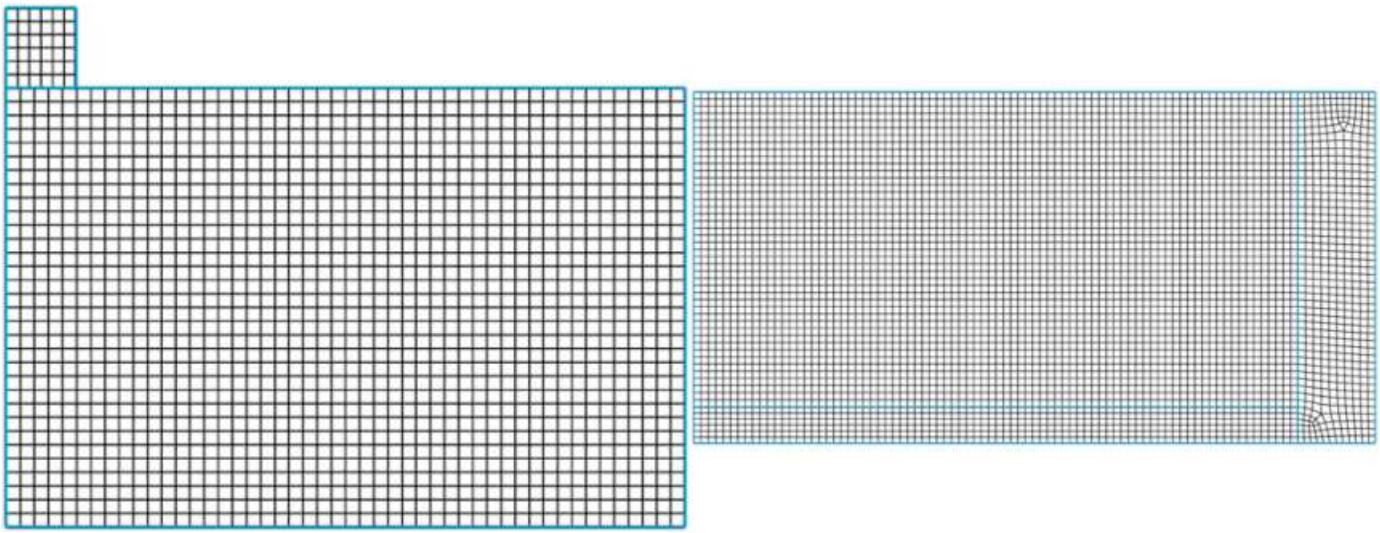
Model: 00008298 (from ABC dataset)
CAD: 17 corners, 26 curves, 11 faces
Cross field: 0 singularities detected
Timings: 7.17589 sec to generate the unstructured mesh, 1.04222 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18948	19961	16	0
Quasi-structured	19070	20083	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	5.78733	17.883	26.1958	0.568721	0.995489	0.999888
Quasi-structured	9.91285	17.8195	23.8165	0.835002	0.99837	0.999555



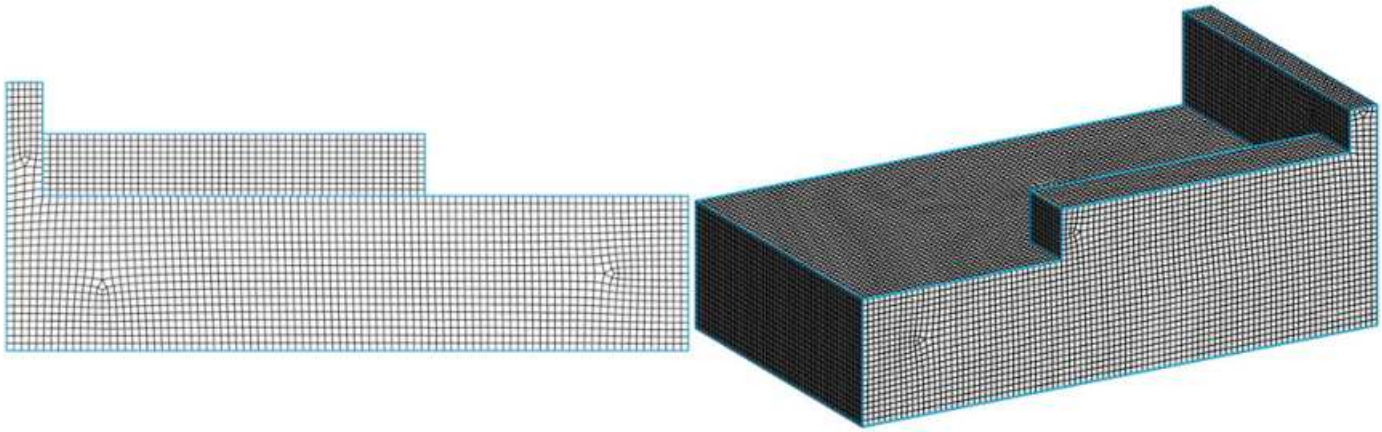


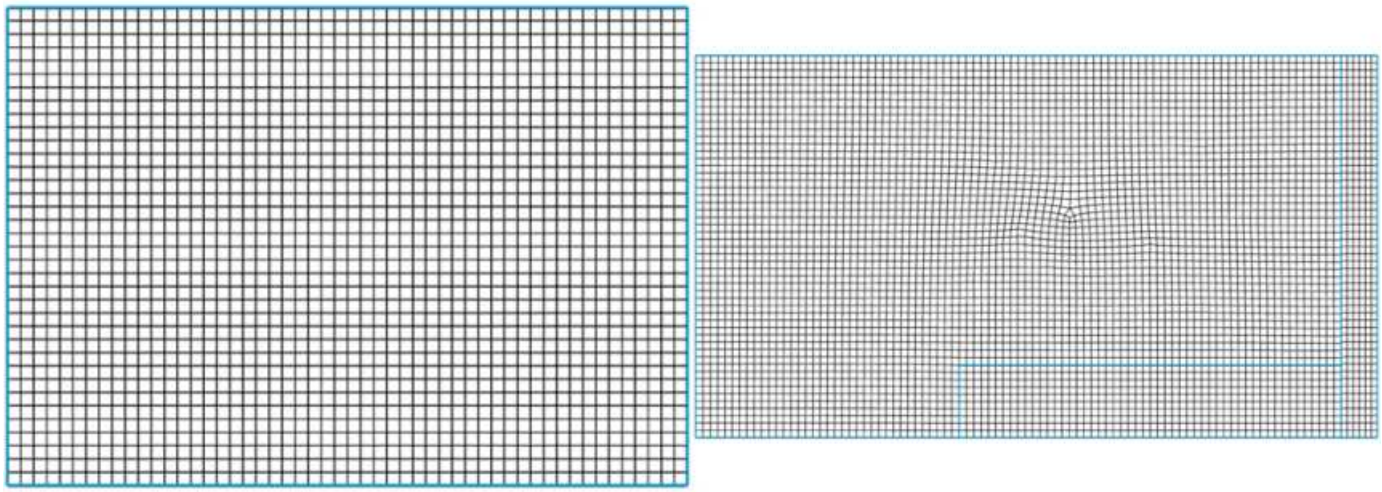
Model: 00008299 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 0 singularities detected
Timings: 10.7618 sec to generate the unstructured mesh, 2.216 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18212	19199	32	0
Quasi-structured	18308	19295	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	7.18819	18.1701	28.1796	0.538372	0.994964	0.999866
Quasi-structured	8.50014	18.1112	25.3578	0.776909	0.997952	0.99986



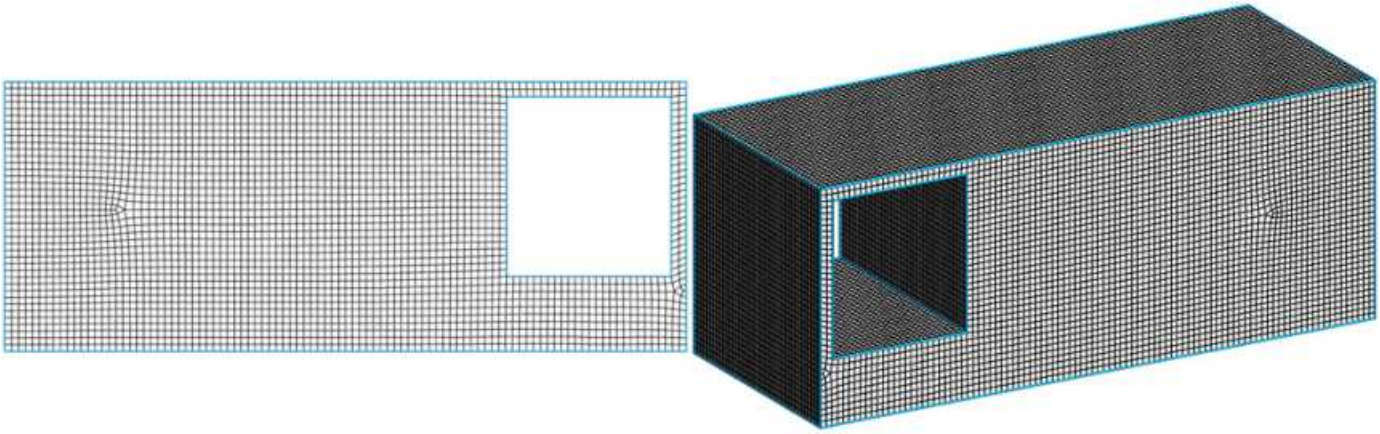


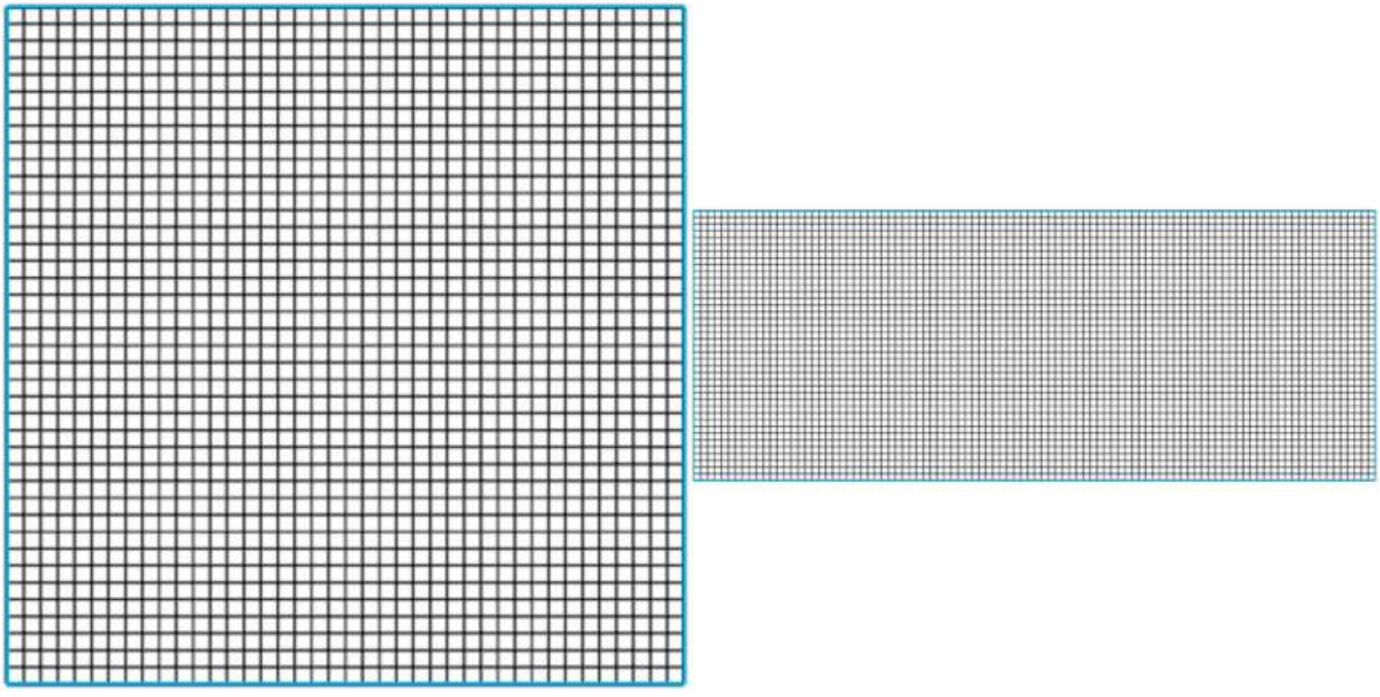
Model: 00008302 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 12.6706 sec to generate the unstructured mesh, 1.55328 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21320	22400	8	0
Quasi-structured	21320	22400	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	10.3552	23.3115	32.0233	0.720169	0.998639	0.99968
Quasi-structured	11.8452	23.3091	32.2867	0.768469	0.99916	0.999575



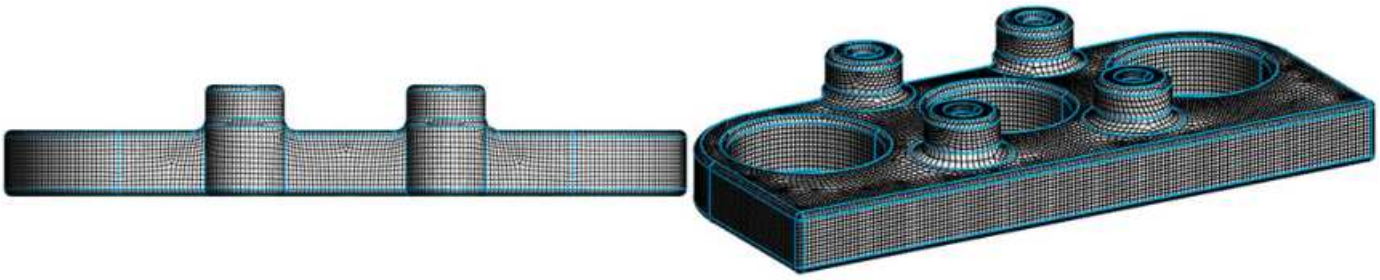


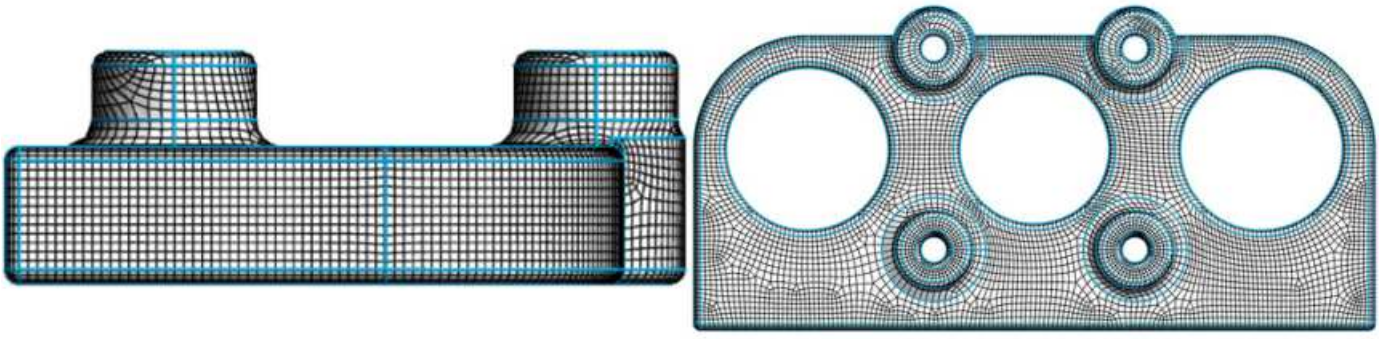
Model: 00008330 (from ABC dataset)
CAD: 96 corners, 173 curves, 77 faces
Cross field: 52 singularities detected
Timings: 13.9358 sec to generate the unstructured mesh, 33.1686 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26750	31302	1027	265
Quasi-structured	27633	32185	460	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.126703	0.690074	1.99187	0.113322	0.940216	0.984152
Quasi-structured	0.0828005	0.680962	2.05644	0.131379	0.941815	0.987574



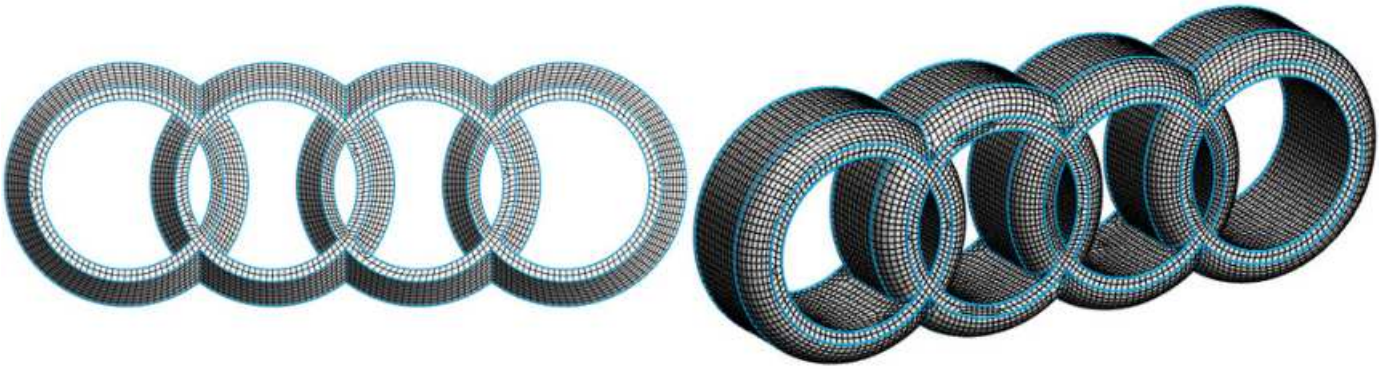


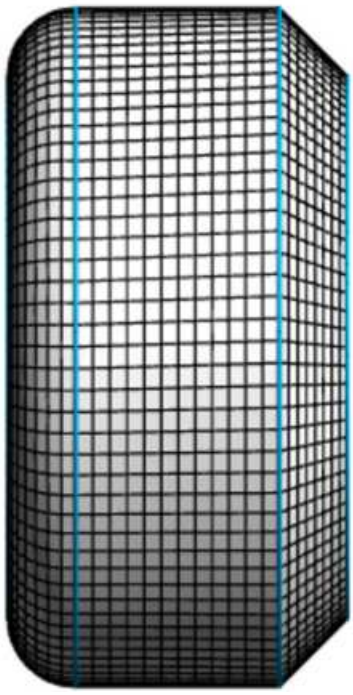
Model: 00008353 (from ABC dataset)
CAD: 84 corners, 132 curves, 50 faces
Cross field: 43 singularities detected
Timings: 14.8266 sec to generate the unstructured mesh, 3.78777 sec to make it quasi-structured
Mesh topology:

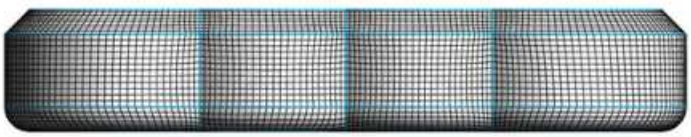
	# quads	# vertices	# irregular	# very irregular
Unstructured	19494	22466	252	0
Quasi-structured	19863	22835	186	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.209642	1.17377	2.52026	0.031521	0.946081	0.986272
Quasi-structured	0.0818814	1.1613	2.13595	0.0764473	0.953557	0.989411





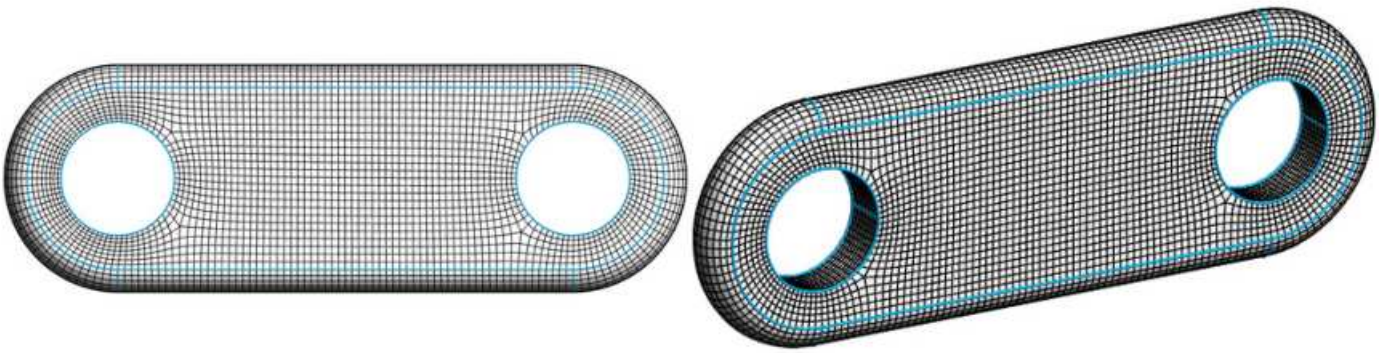


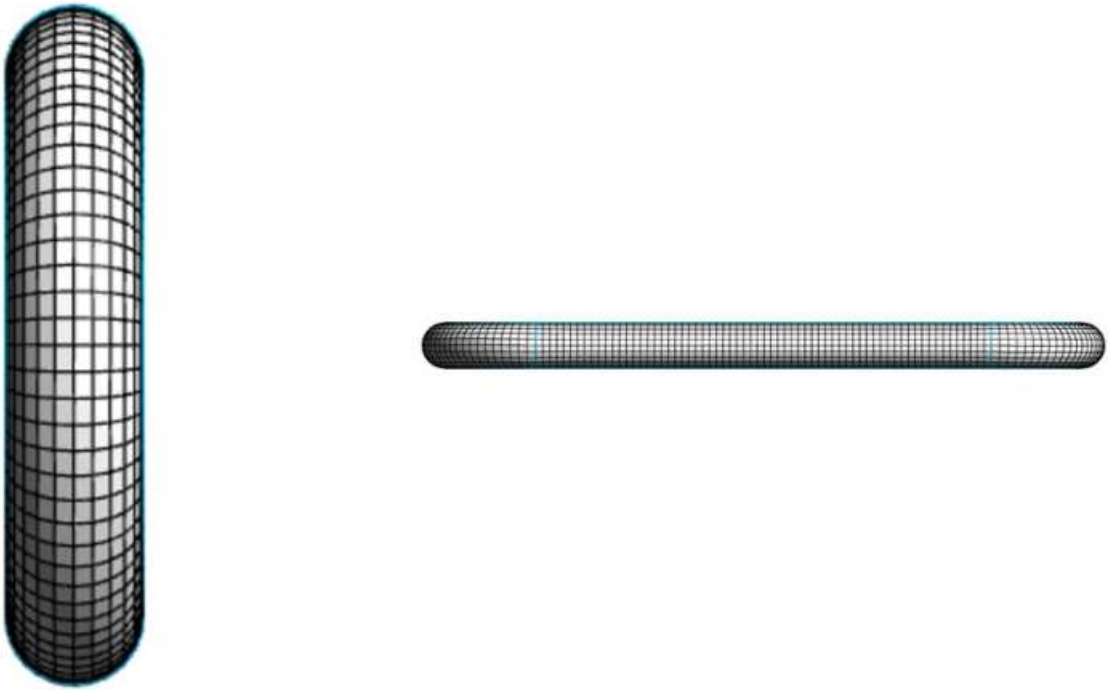
Model: 00008356 (from ABC dataset)
CAD: 16 corners, 22 curves, 8 faces
Cross field: 8 singularities detected
Timings: 6.02716 sec to generate the unstructured mesh, 1.4356 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7548	8302	85	22
Quasi-structured	8018	8772	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.236894	1.42462	3.34614	0.166265	0.964652	0.995161
Quasi-structured	0.755893	1.38282	2.77158	0.772745	0.98038	0.989786



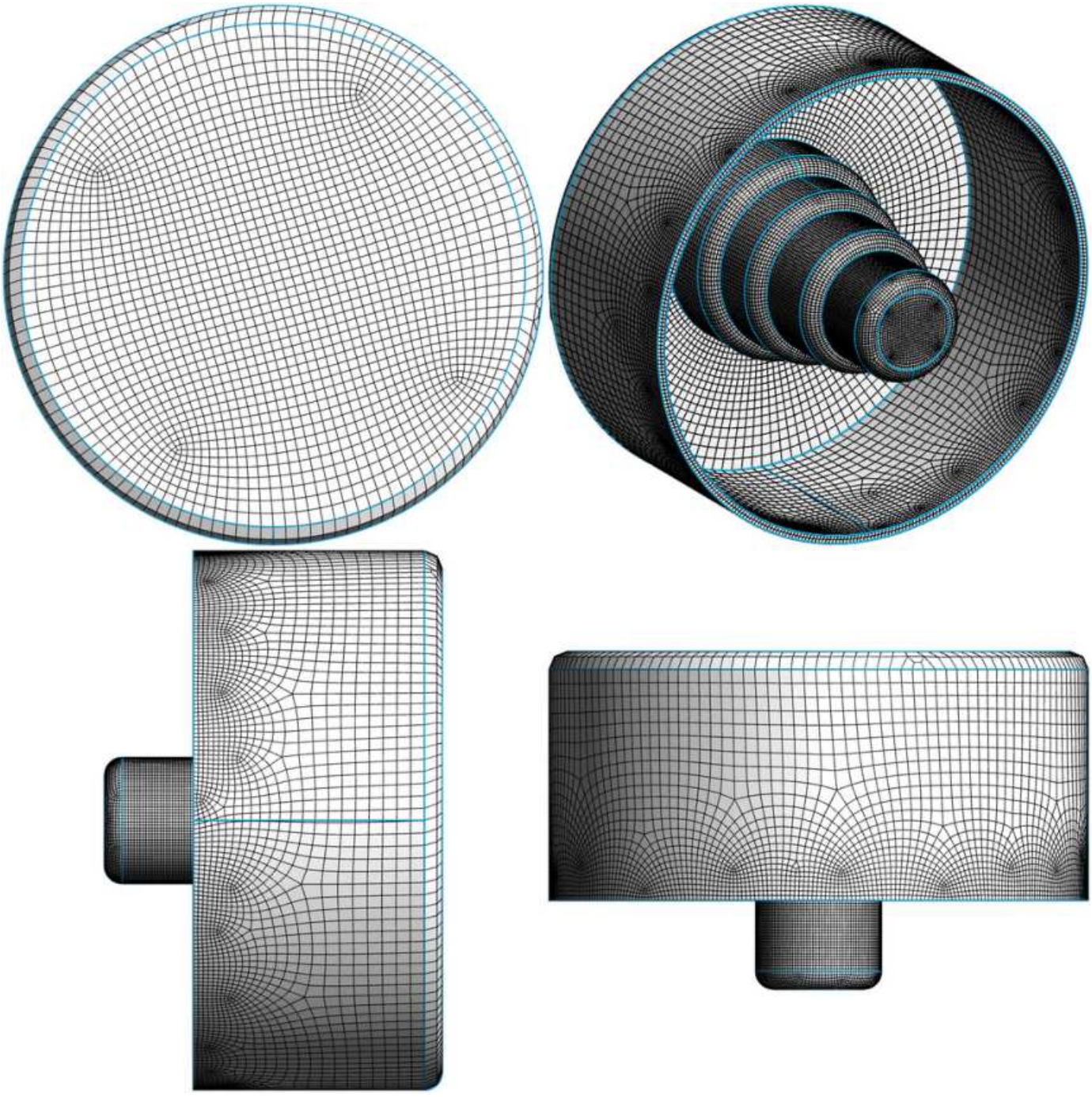


Model: 00008364 (from ABC dataset)
CAD: 17 corners, 28 curves, 15 faces
Cross field: 8 singularities detected
Timings: 17.1212 sec to generate the unstructured mesh, 53.6761 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29046	31352	564	189
Quasi-structured	29917	32223	142	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.244872	1.76236	5.55173	0.19834	0.952071	0.992192
Quasi-structured	0.345213	1.71802	5.94691	0.659584	0.985084	0.994095

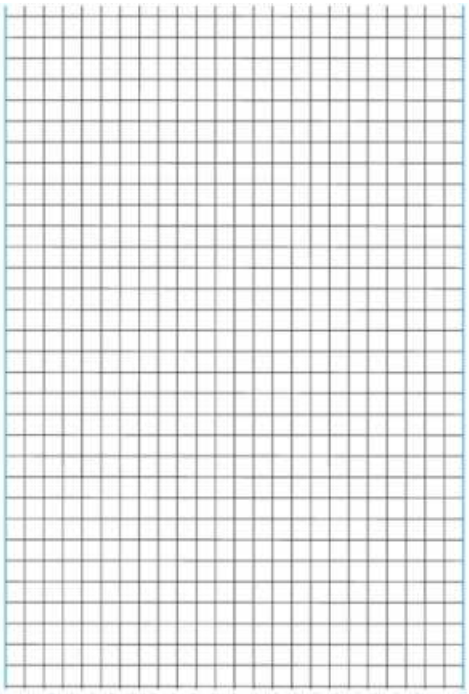


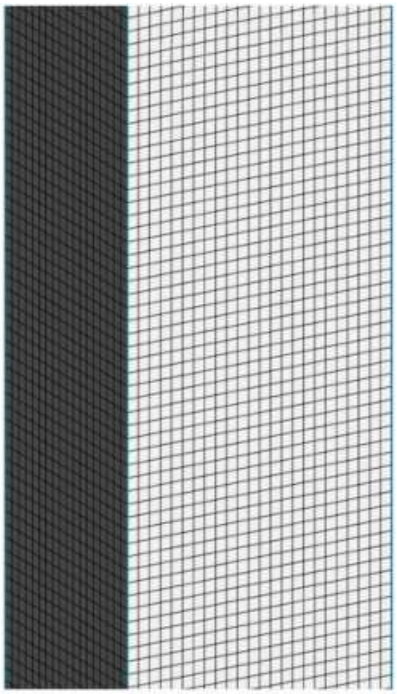
Model: 00008366 (from ABC dataset)
CAD: 14 corners, 23 curves, 12 faces
Cross field: 12 singularities detected
Timings: 5.91578 sec to generate the unstructured mesh, 0.51524 sec to make it quasi-structured
Mesh topology:

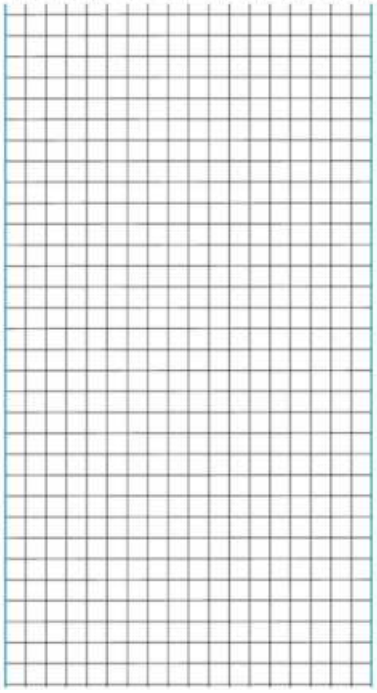
	# quads	# vertices	# irregular	# very irregular
Unstructured	9912	10630	42	24
Quasi-structured	9982	10700	16	0

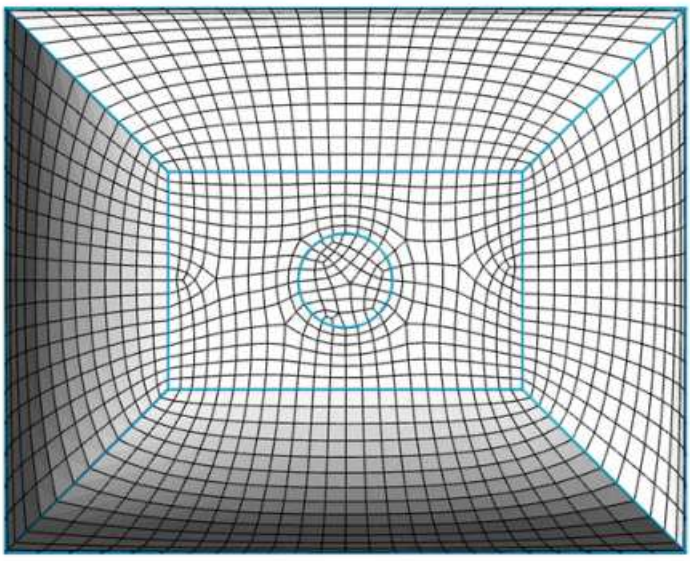
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.183711	1.00777	1.23582	0.255014	0.979883	0.996696
Quasi-structured	0.221825	1.00272	1.35098	0.702763	0.990411	0.995774









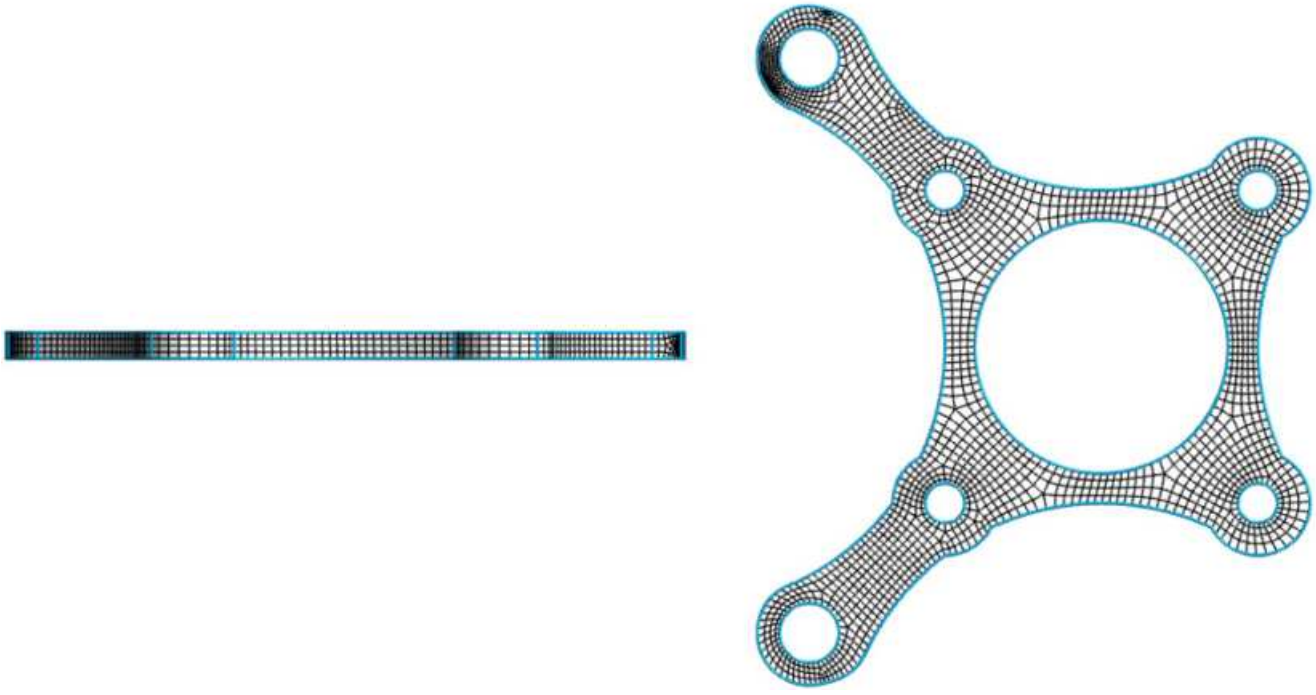
Model: 00008416 (from ABC dataset)
CAD: 76 corners, 114 curves, 40 faces
Cross field: 48 singularities detected
Timings: 7.79766 sec to generate the unstructured mesh, 5.36452 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7238	8768	310	15
Quasi-structured	7513	9043	96	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.140133	1.50751	3.64662	0.337316	0.94747	0.977009
Quasi-structured	0.13064	1.48112	4.11282	0.522423	0.960845	0.975219



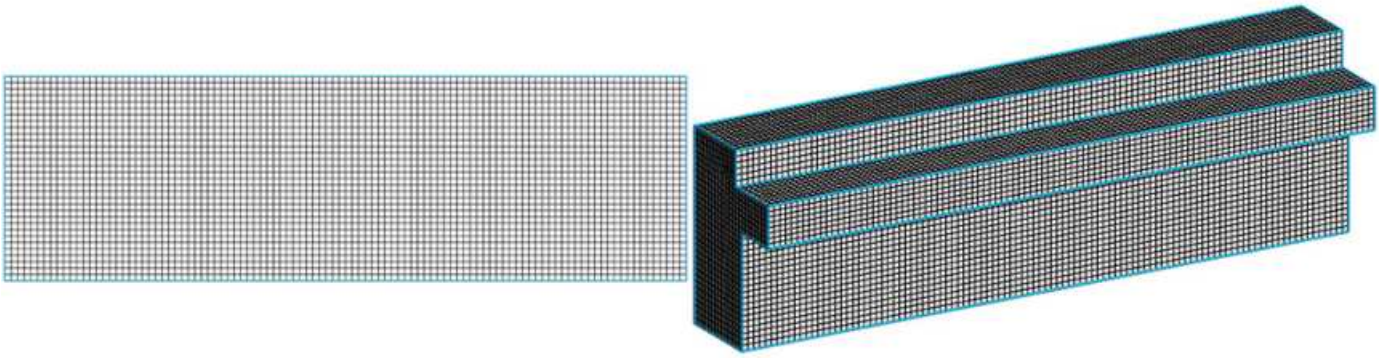


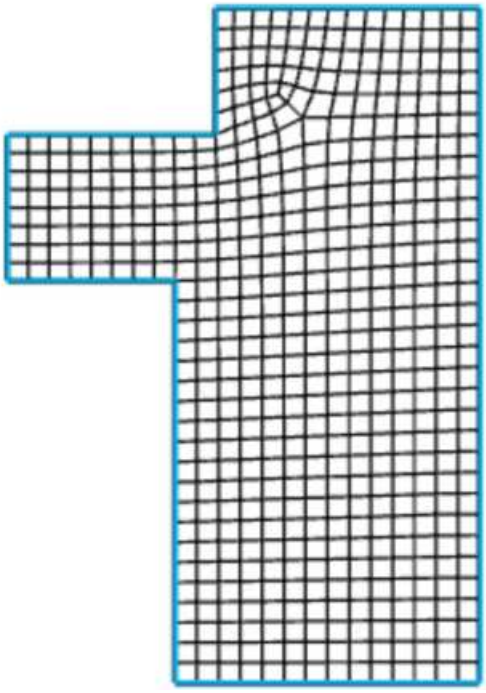
Model: 00008420 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 7.40562 sec to generate the unstructured mesh, 0.946489 sec to make it quasi-structured
Mesh topology:

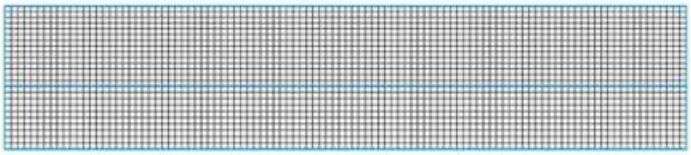
	# quads	# vertices	# irregular	# very irregular
Unstructured	12696	13762	8	0
Quasi-structured	12692	13758	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.380587	0.93512	1.06752	0.642319	0.995883	0.99953
Quasi-structured	0.534252	0.935098	1.26546	0.85877	0.996701	0.99925





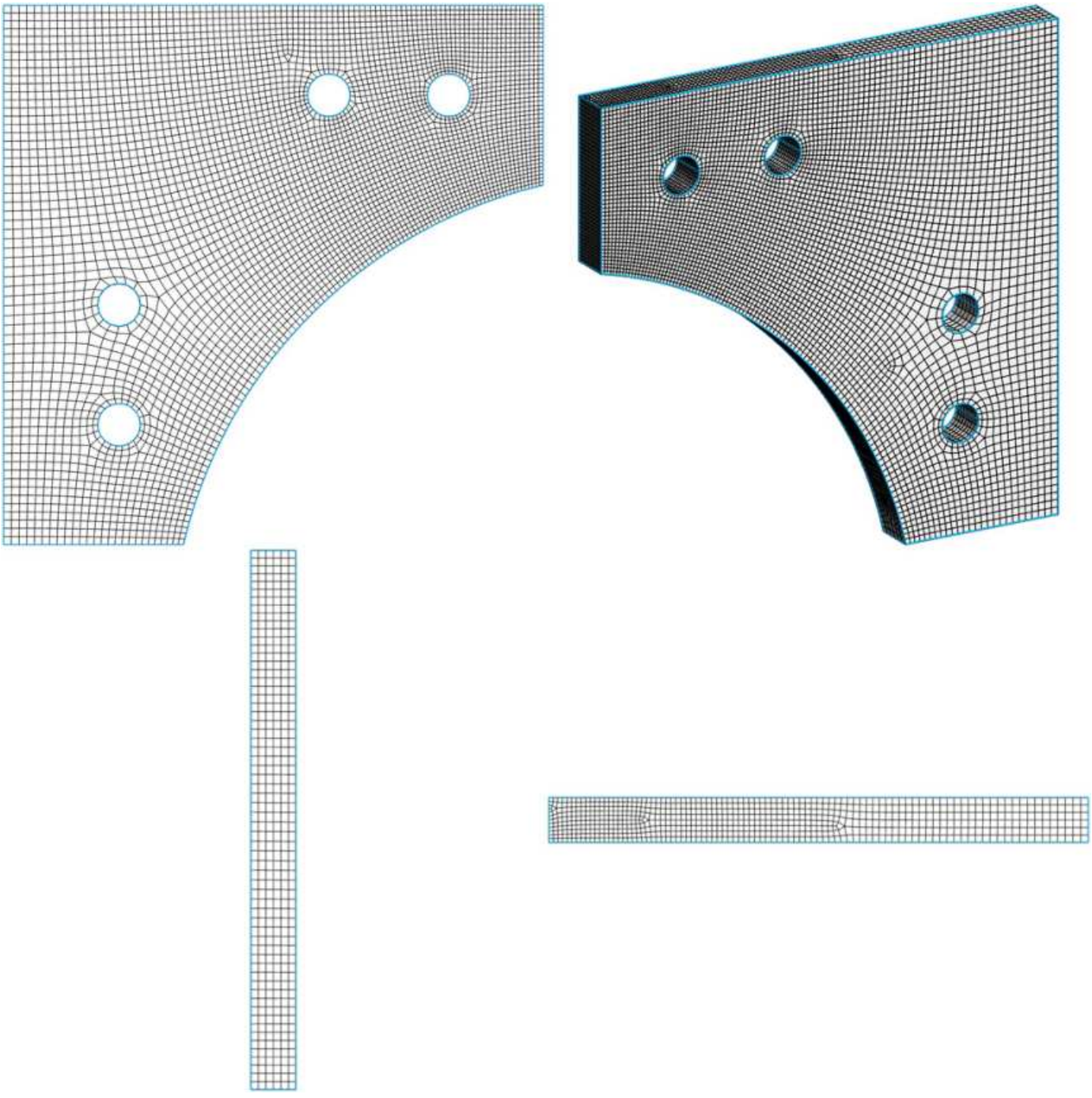


Model: 00008449 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 34 singularities detected
Timings: 11.2613 sec to generate the unstructured mesh, 2.1539 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12972	13873	208	44
Quasi-structured	13367	14268	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.200938	0.852998	2.19983	0.417592	0.972922	0.997462
Quasi-structured	0.305098	0.837758	2.6393	0.66668	0.987002	0.99753

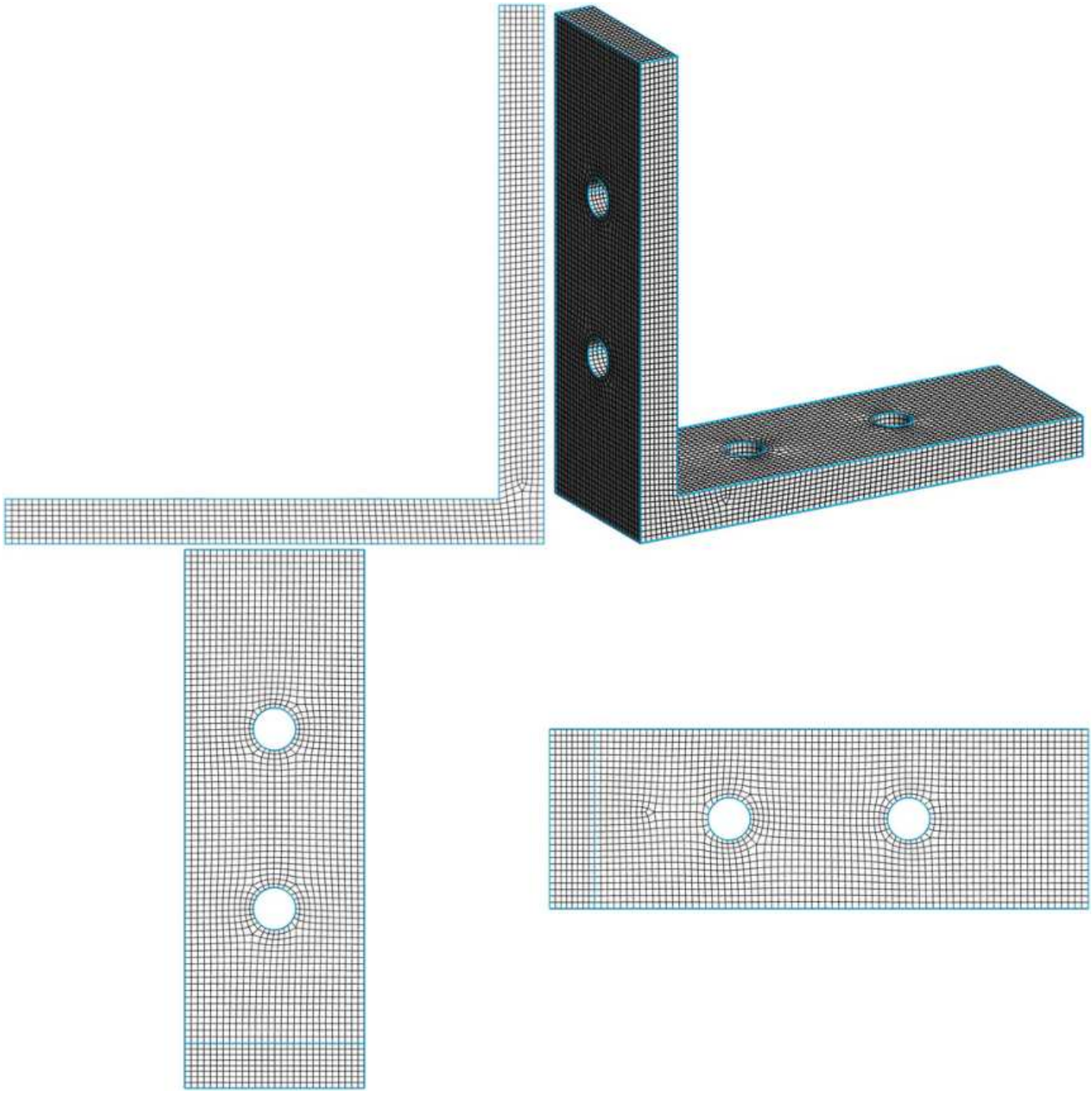


Model: 00008453 (from ABC dataset)
CAD: 22 corners, 32 curves, 12 faces
Cross field: 32 singularities detected
Timings: 5.78881 sec to generate the unstructured mesh, 0.914621 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12478	13522	155	40
Quasi-structured	12440	13484	38	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.252737	0.89037	1.49678	0.470706	0.972425	0.996073
Quasi-structured	0.500114	0.889018	1.46326	0.787851	0.990651	0.997362

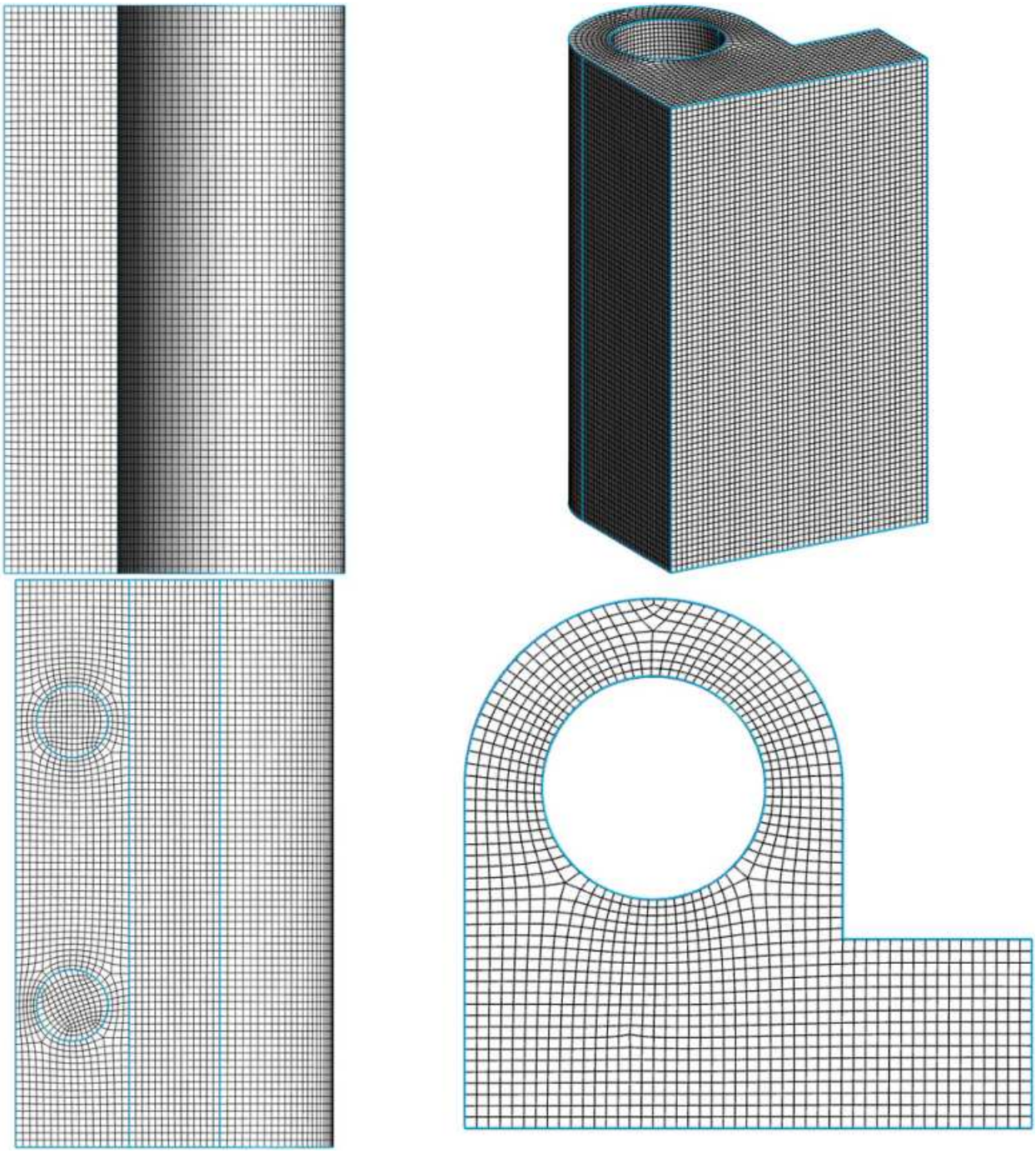


Model: 00008455 (from ABC dataset)
CAD: 18 corners, 27 curves, 13 faces
Cross field: 20 singularities detected
Timings: 19.0864 sec to generate the unstructured mesh, 2.65139 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26078	27204	128	144
Quasi-structured	26210	27336	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.193147	0.725092	1.18491	0.467137	0.991594	0.998821
Quasi-structured	0.297418	0.722726	1.37506	0.66485	0.996254	0.999211

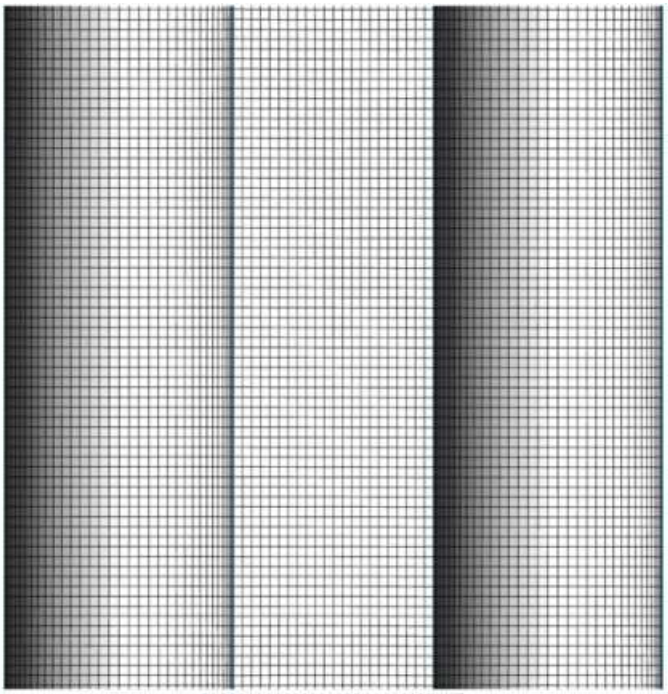


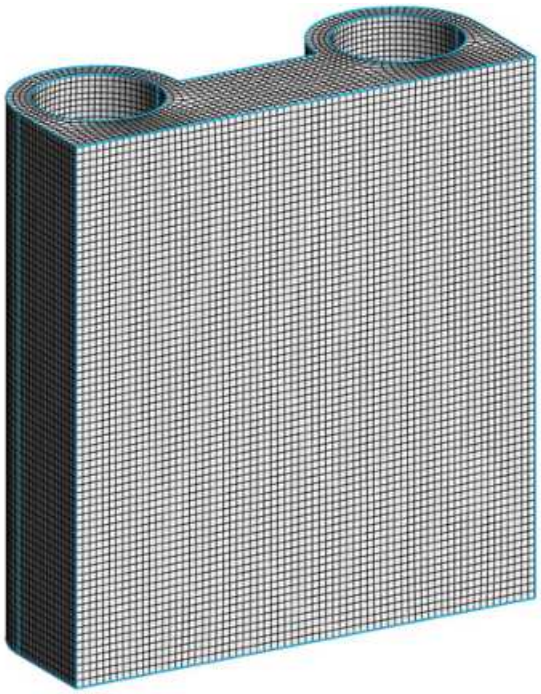
Model: 00008456 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 16.1728 sec to generate the unstructured mesh, 2.19022 sec to make it quasi-structured
Mesh topology:

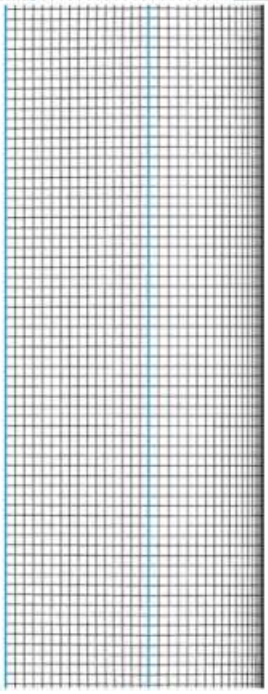
	# quads	# vertices	# irregular	# very irregular
Unstructured	27990	29080	94	178
Quasi-structured	28130	29220	20	0

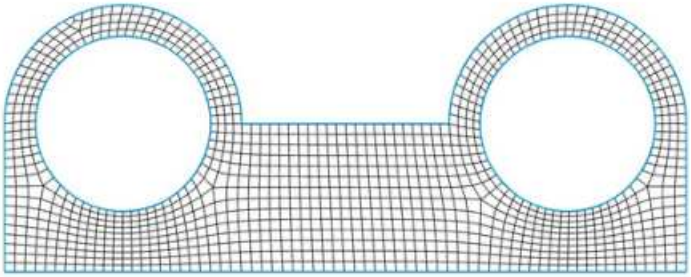
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.179593	0.79722	1.2091	0.453897	0.992479	0.999558
Quasi-structured	0.37737	0.79451	1.53936	0.691115	0.996108	0.999642







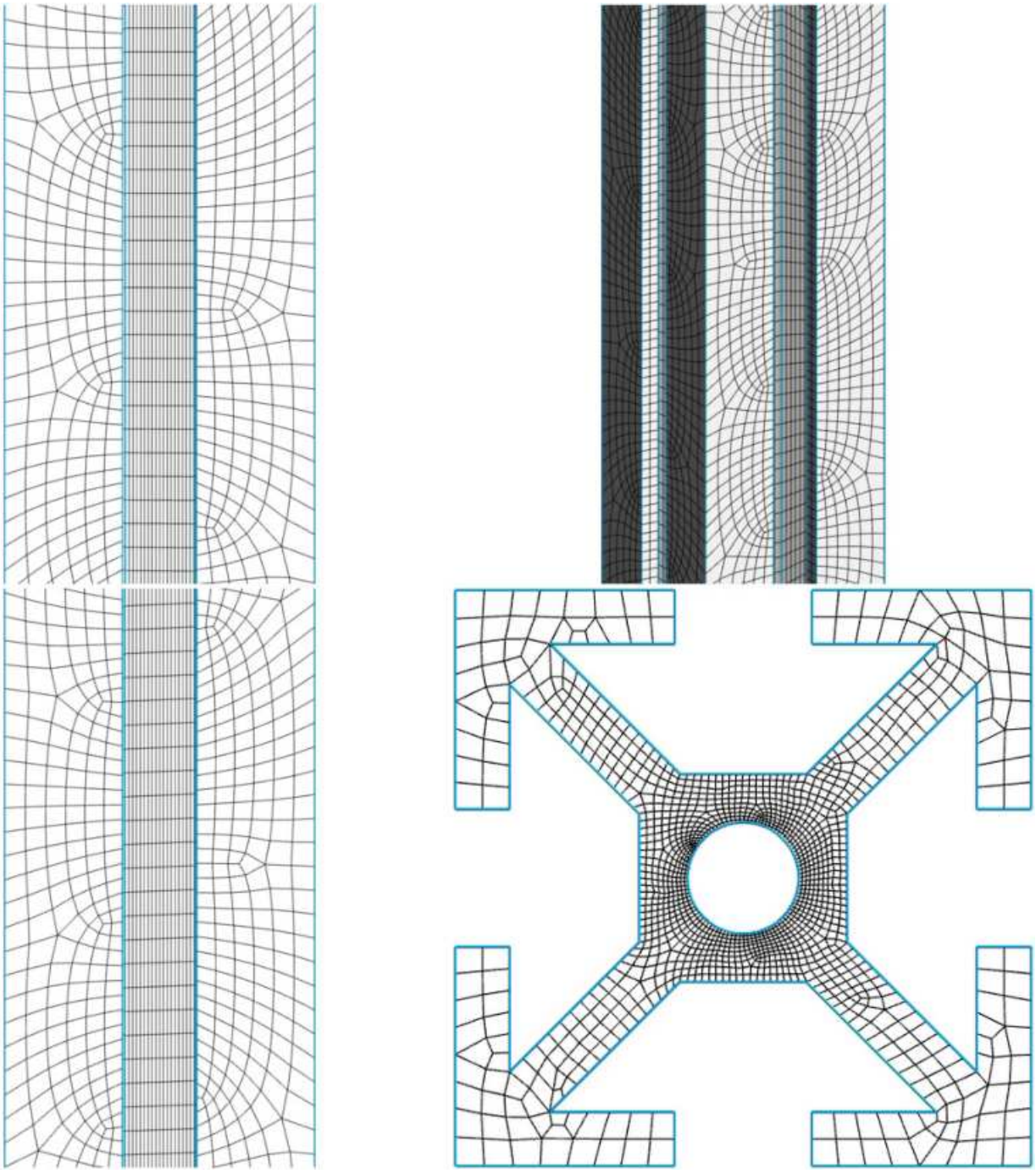


Model: 00008457 (from ABC dataset)
CAD: 168 corners, 252 curves, 86 faces
Cross field: 11 singularities detected
Timings: 22.5673 sec to generate the unstructured mesh, 184.811 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	202422	286134	1408	32
Quasi-structured	203581	287293	528	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0625821	0.408452	2.30832	0.285486	0.925134	0.999876
Quasi-structured	0.0670469	0.413361	3.70137	0.299581	0.920781	0.999876

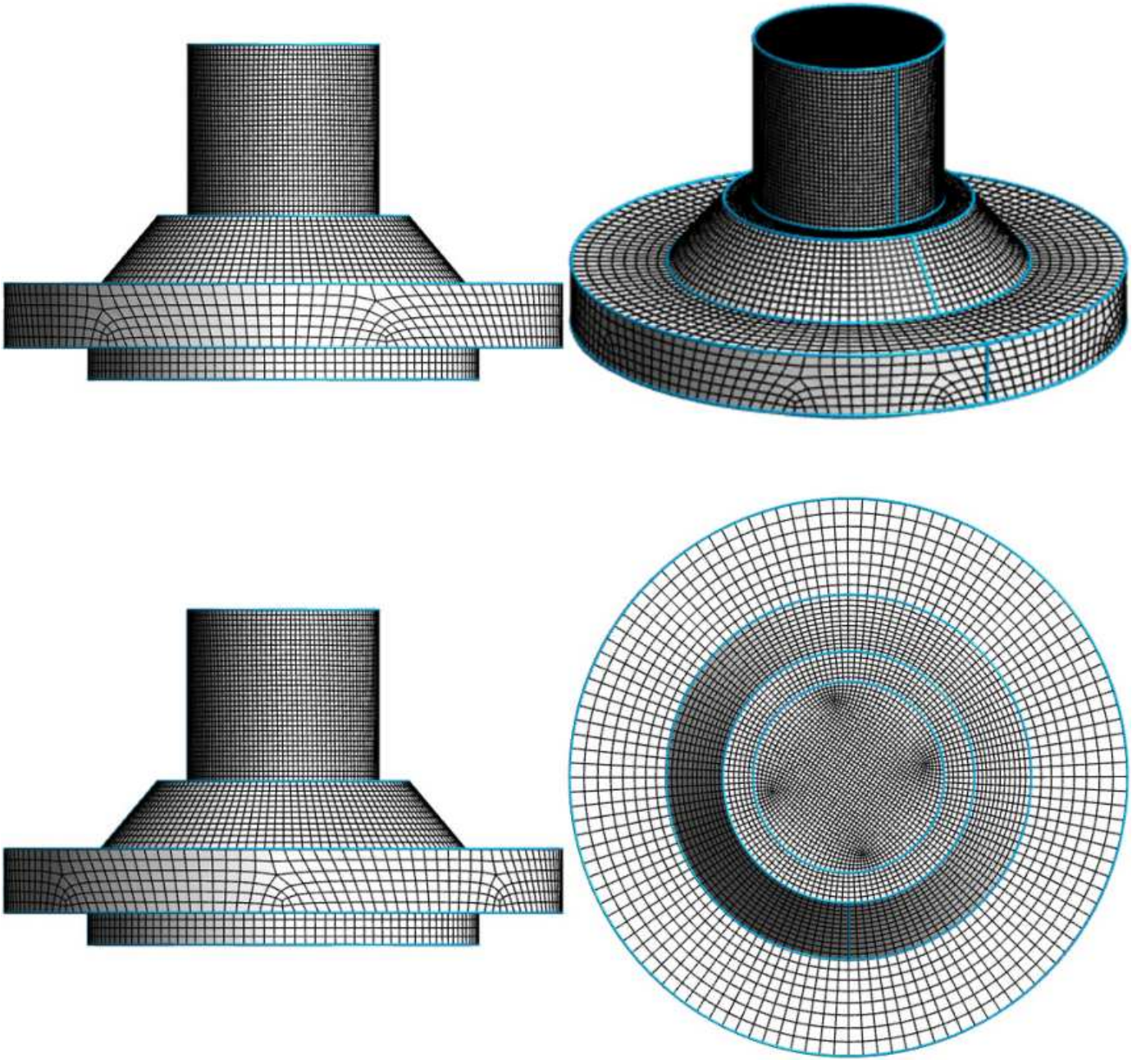


Model: 00008483 (from ABC dataset)
CAD: 13 corners, 20 curves, 14 faces
Cross field: 8 singularities detected
Timings: 8.57572 sec to generate the unstructured mesh, 3.46535 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16950	18568	124	85
Quasi-structured	16924	18542	50	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.182229	0.878484	2.57232	0.491458	0.974037	0.994853
Quasi-structured	0.21263	0.878259	2.6837	0.659483	0.987388	0.996008

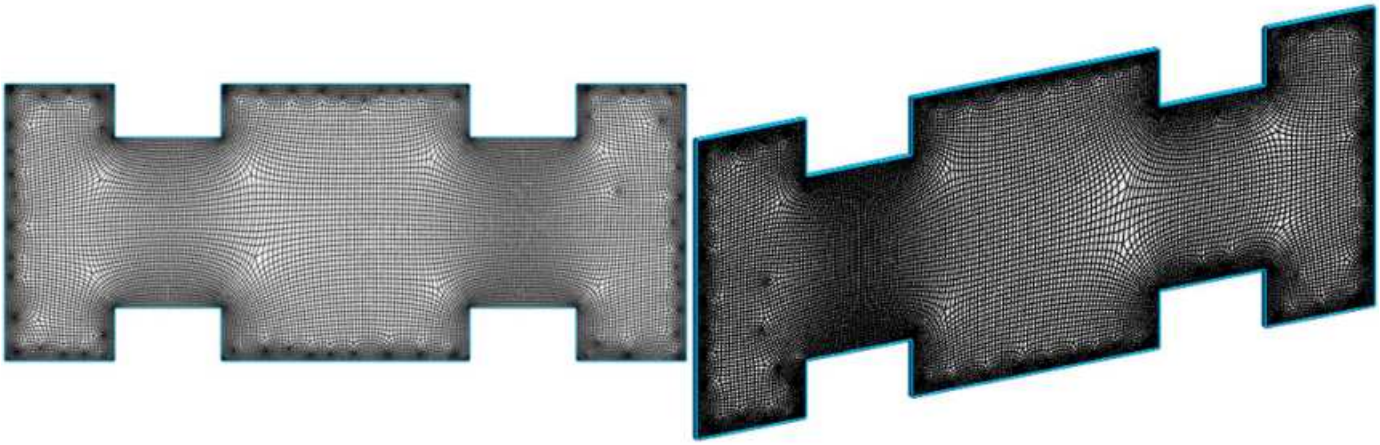


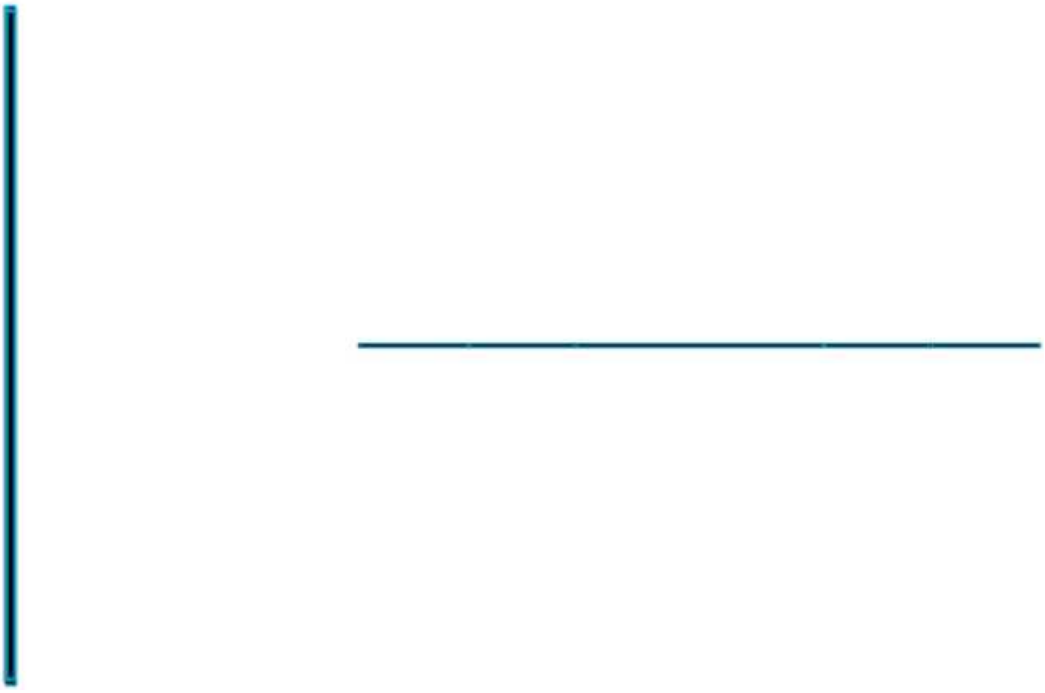
Model: 00008496 (from ABC dataset)
CAD: 80 corners, 120 curves, 42 faces
Cross field: 16 singularities detected
Timings: 19.2661 sec to generate the unstructured mesh, 122.896 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	42098	45100	1571	148
Quasi-structured	43766	46768	348	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	2.74399	18.9247	56.2322	0.158679	0.916273	0.950094
Quasi-structured	2.29939	18.8082	97.1387	0.535737	0.932607	0.957861



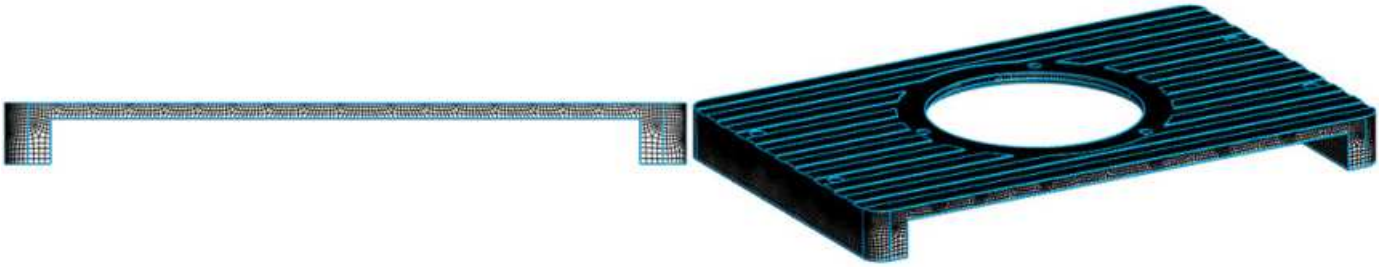


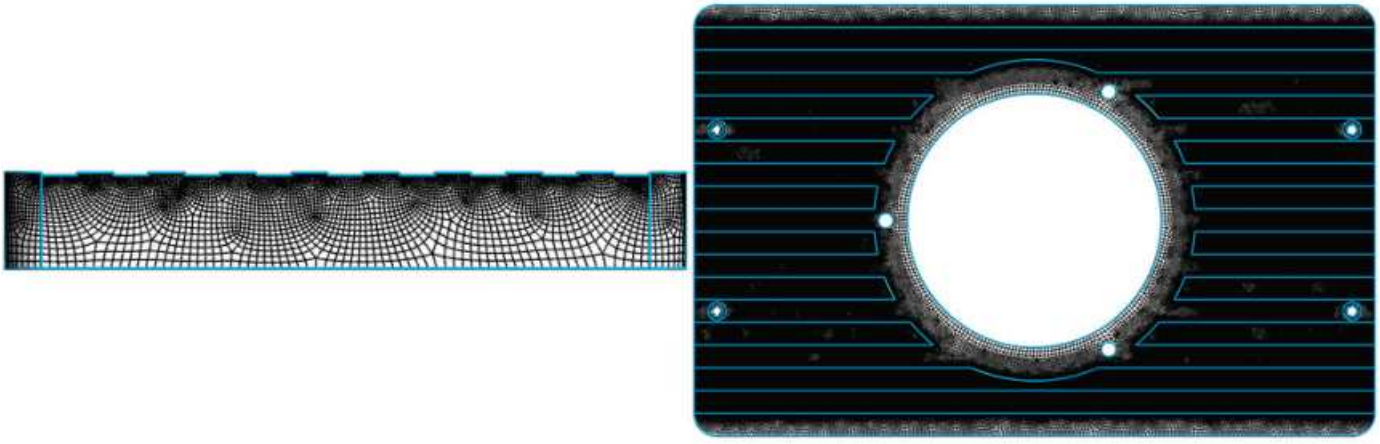
Model: 00008498 (from ABC dataset)
CAD: 177 corners, 266 curves, 95 faces
Cross field: 80 singularities detected
Timings: 36.7138 sec to generate the unstructured mesh, 456.196 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	241488	266926	9893	1206
Quasi-structured	261223	286661	2165	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0934733	0.57711	4.71004	0.326514	0.937824	0.985739
Quasi-structured	0.0946661	0.559819	6.98432	0.154625	0.960356	0.959962



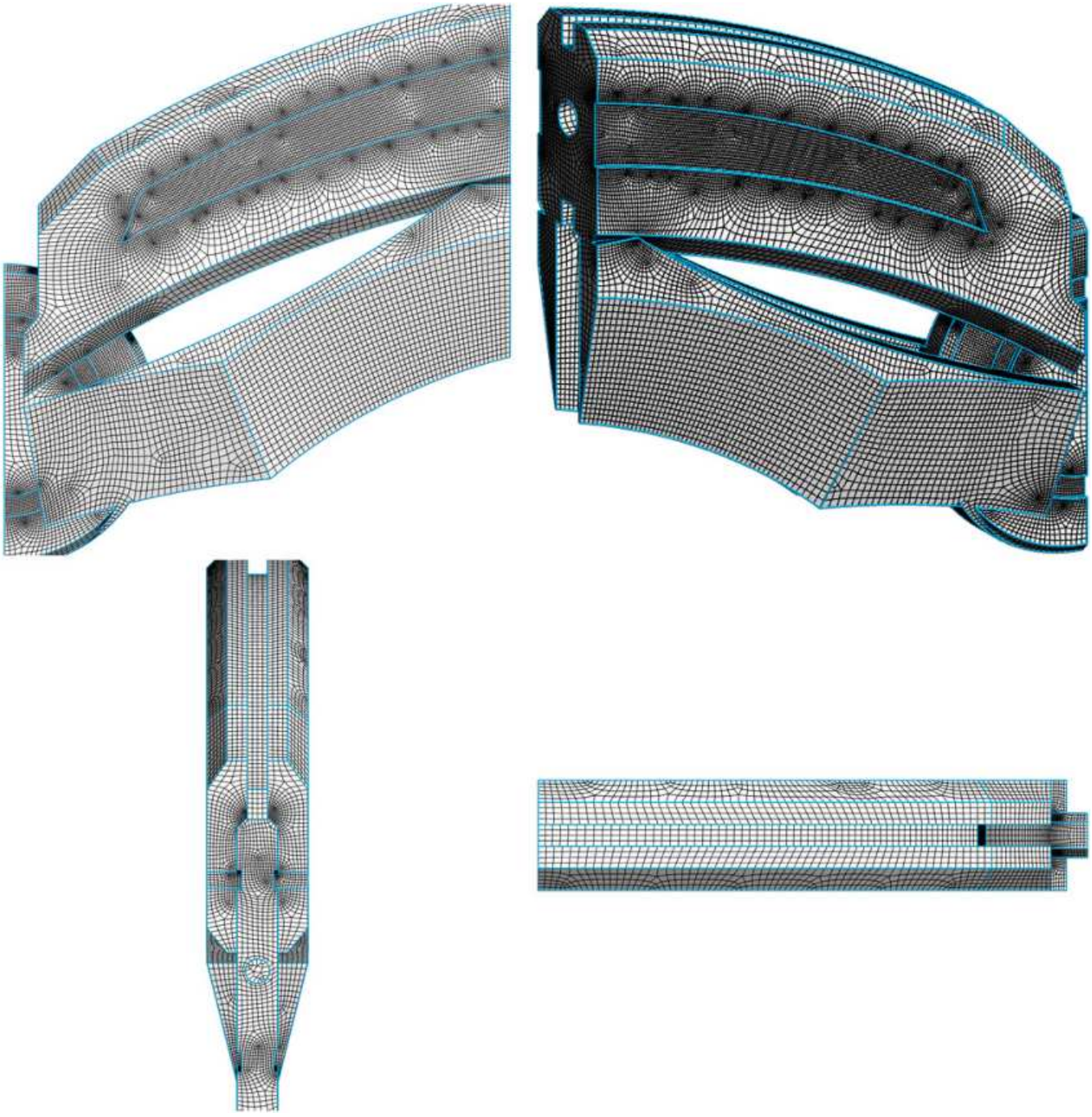


Model: 00008519 (from ABC dataset)
CAD: 191 corners, 286 curves, 95 faces
Cross field: 37 singularities detected
Timings: 32.8008 sec to generate the unstructured mesh, 64.0945 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	46368	52497	3605	359
Quasi-structured	48150	54279	574	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0904784	2.31431	8.59001	0.00155215	0.908665	0.969499
Quasi-structured	0.0489578	2.29075	9.11869	0.0396218	0.93002	0.963229

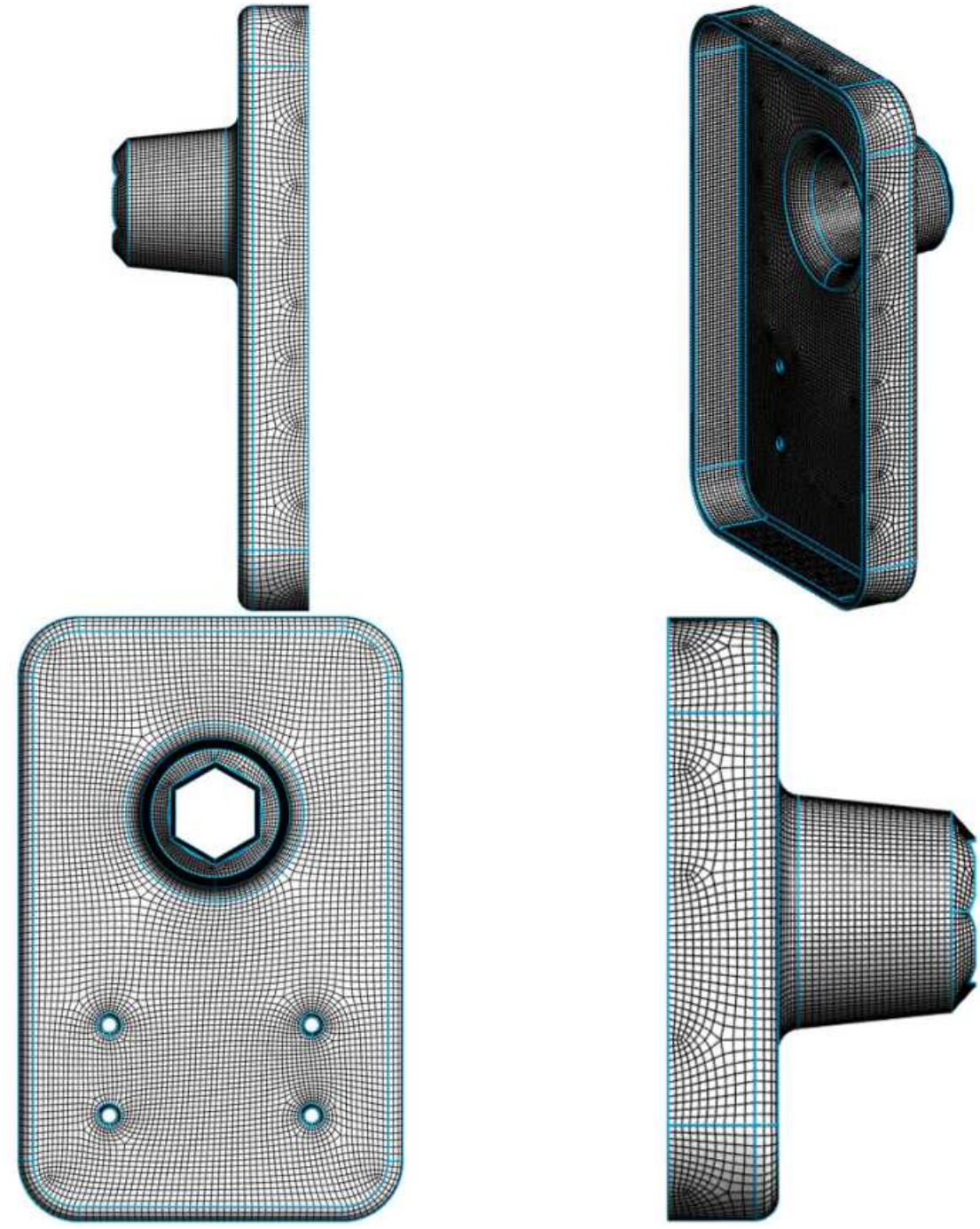


Model: 00008525 (from ABC dataset)
CAD: 115 corners, 184 curves, 73 faces
Cross field: 77 singularities detected
Timings: 27.2346 sec to generate the unstructured mesh, 19.7177 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	37842	42034	1173	113
Quasi-structured	38168	42360	312	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0500231	1.461	3.5566	0.0349627	0.940211	0.980207
Quasi-structured	0.182448	1.45686	4.22055	0.245248	0.963519	0.989996

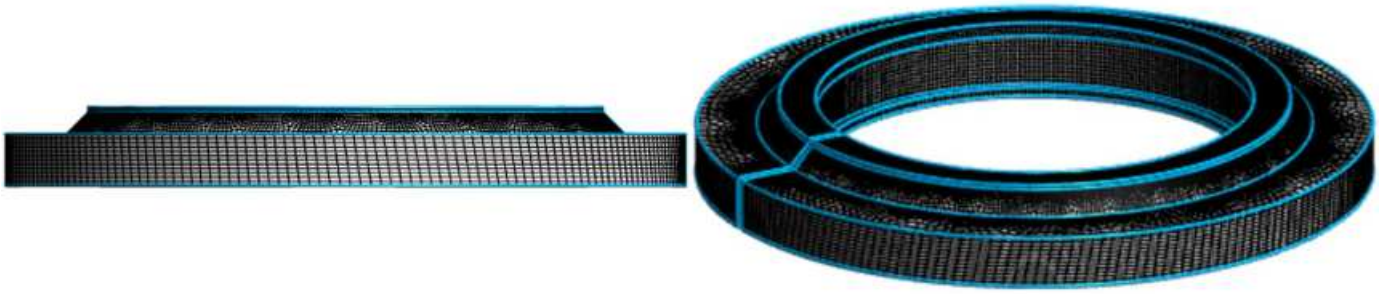


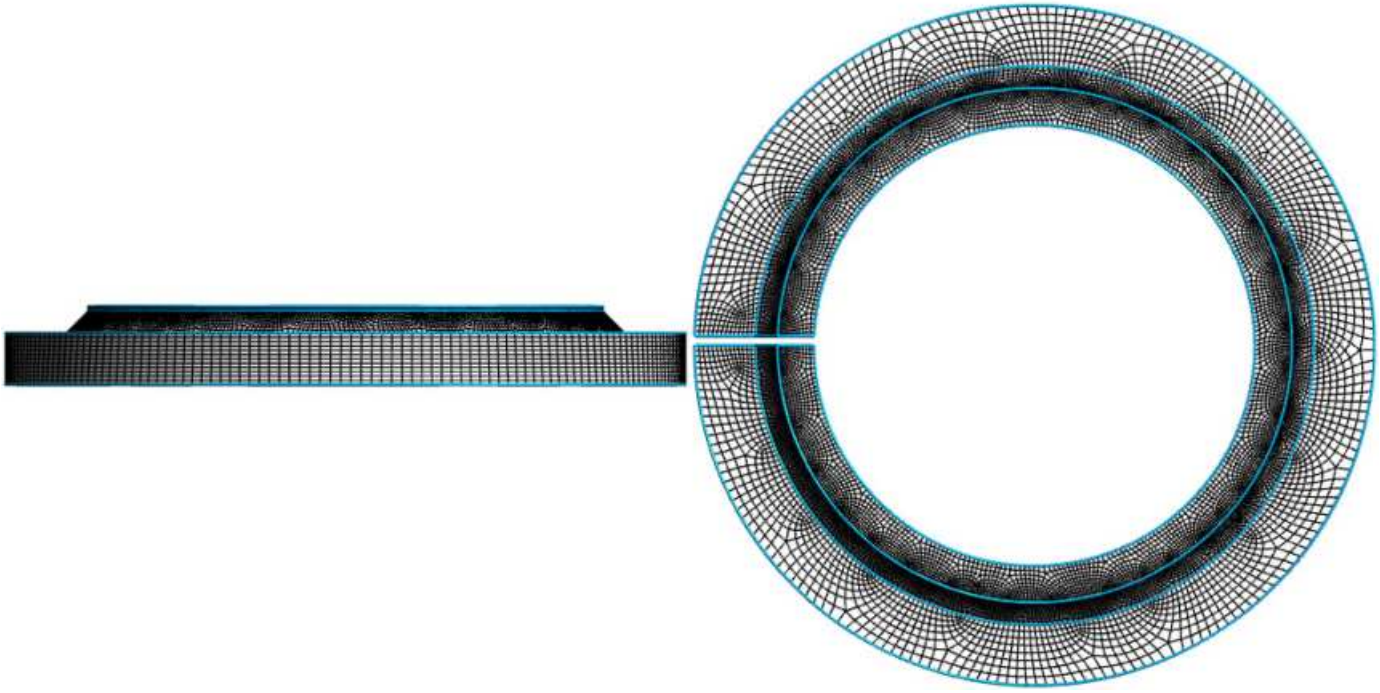
Model: 00008526 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 1 singularities detected
Timings: 9.37644 sec to generate the unstructured mesh, 189.852 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	28480	32663	970	53
Quasi-structured	28694	32877	239	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0578925	0.252449	0.641301	0.356272	0.935447	0.992053
Quasi-structured	0.0435642	0.254144	0.841397	0.562088	0.948688	0.98027



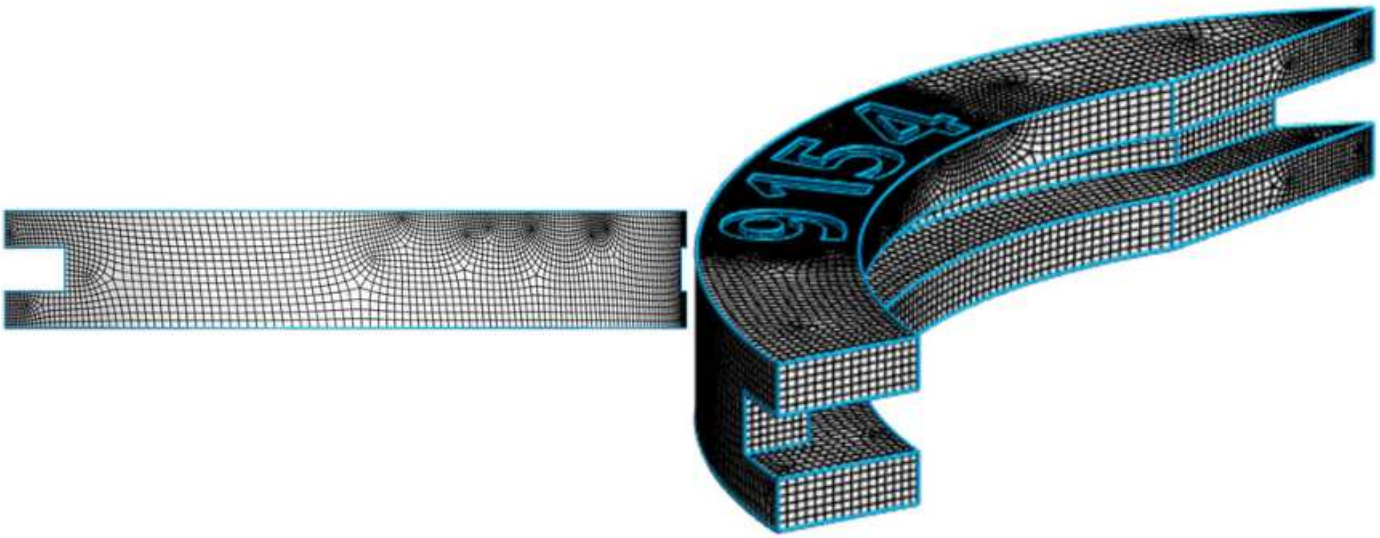


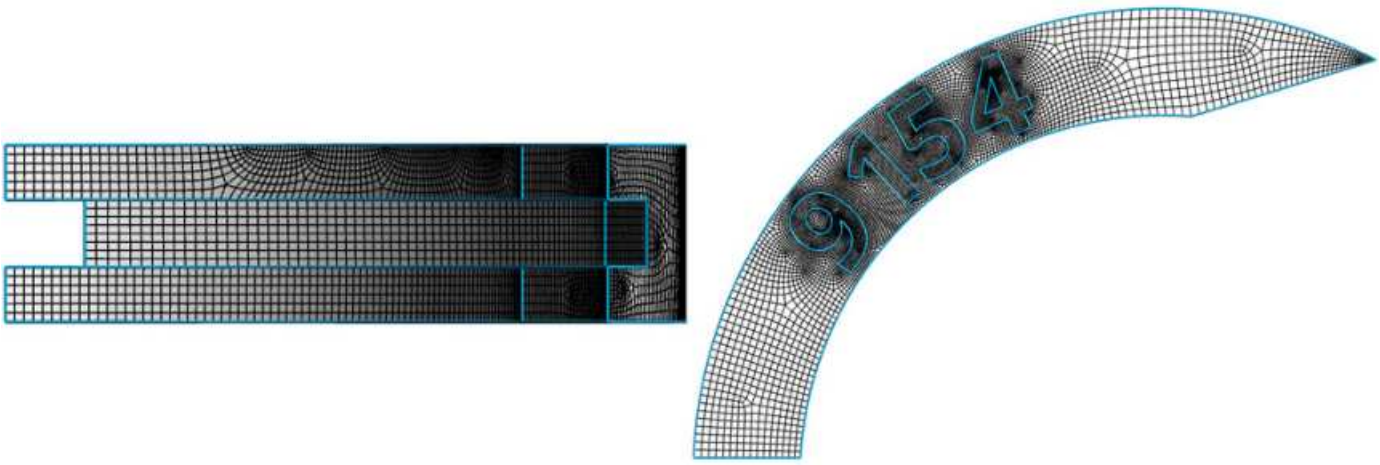
Model: 00008533 (from ABC dataset)
CAD: 172 corners, 258 curves, 94 faces
Cross field: 13 singularities detected
Timings: 13.408 sec to generate the unstructured mesh, 130.569 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20072	23294	1029	46
Quasi-structured	20980	24202	249	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00744644	0.204243	0.605079	0.159989	0.940535	0.981003
Quasi-structured	0.00848267	0.199609	0.60972	0.285072	0.95848	0.981556



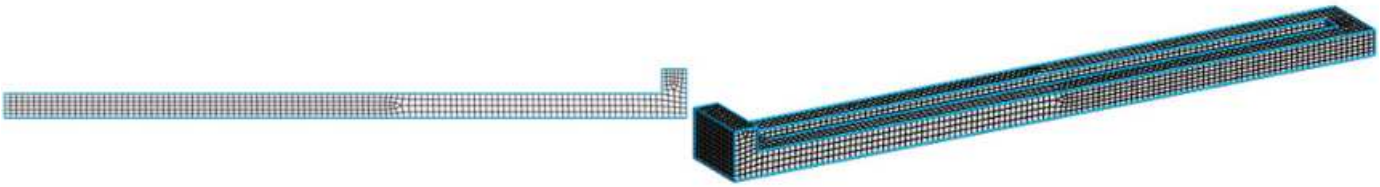


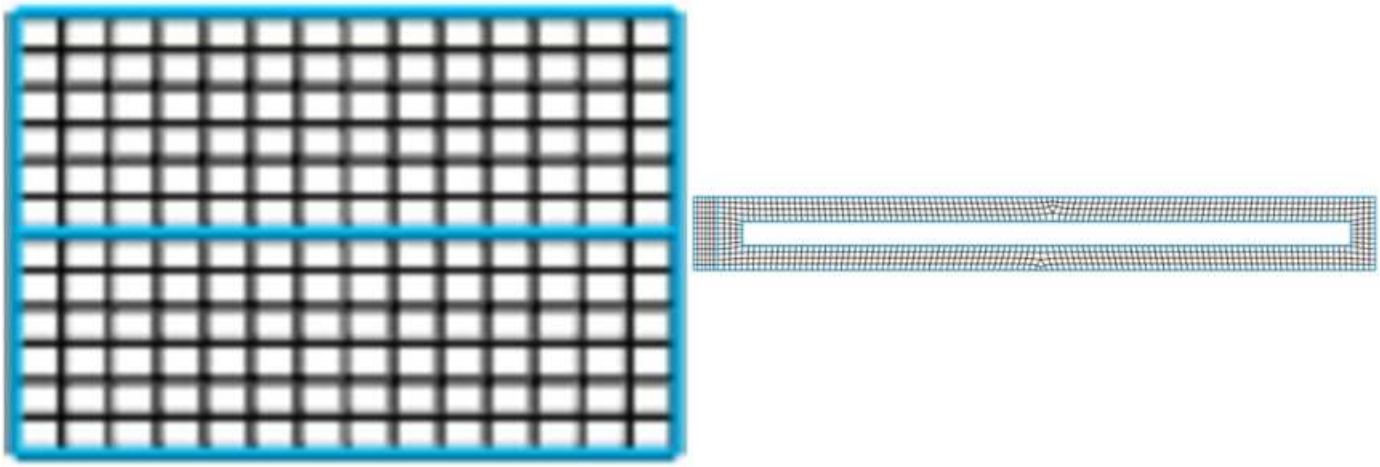
Model: 00008563 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 0 singularities detected
Timings: 2.56214 sec to generate the unstructured mesh, 0.880099 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	4642	5704	40	2
Quasi-structured	4854	5916	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.402961	1.45097	1.95896	0.252994	0.961542	0.977165
Quasi-structured	0.588801	1.41755	2.19072	0.764655	0.963354	0.973761



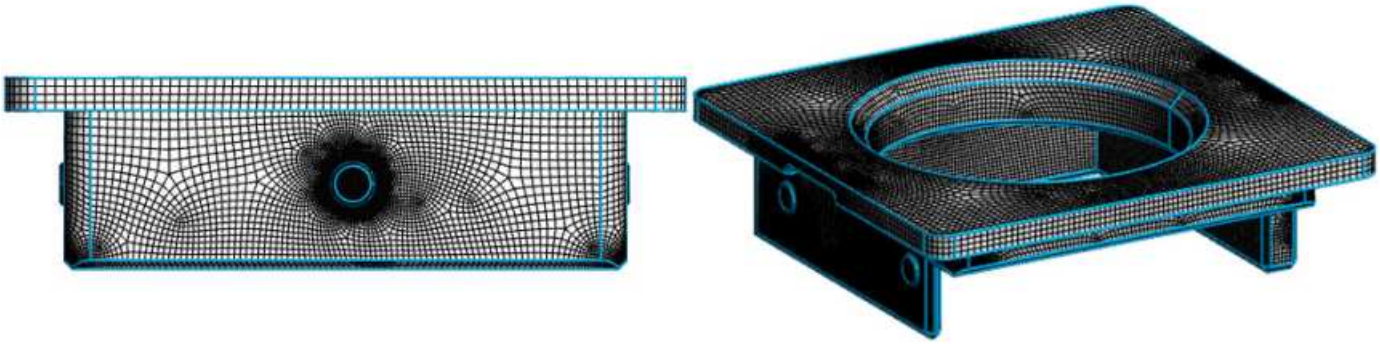


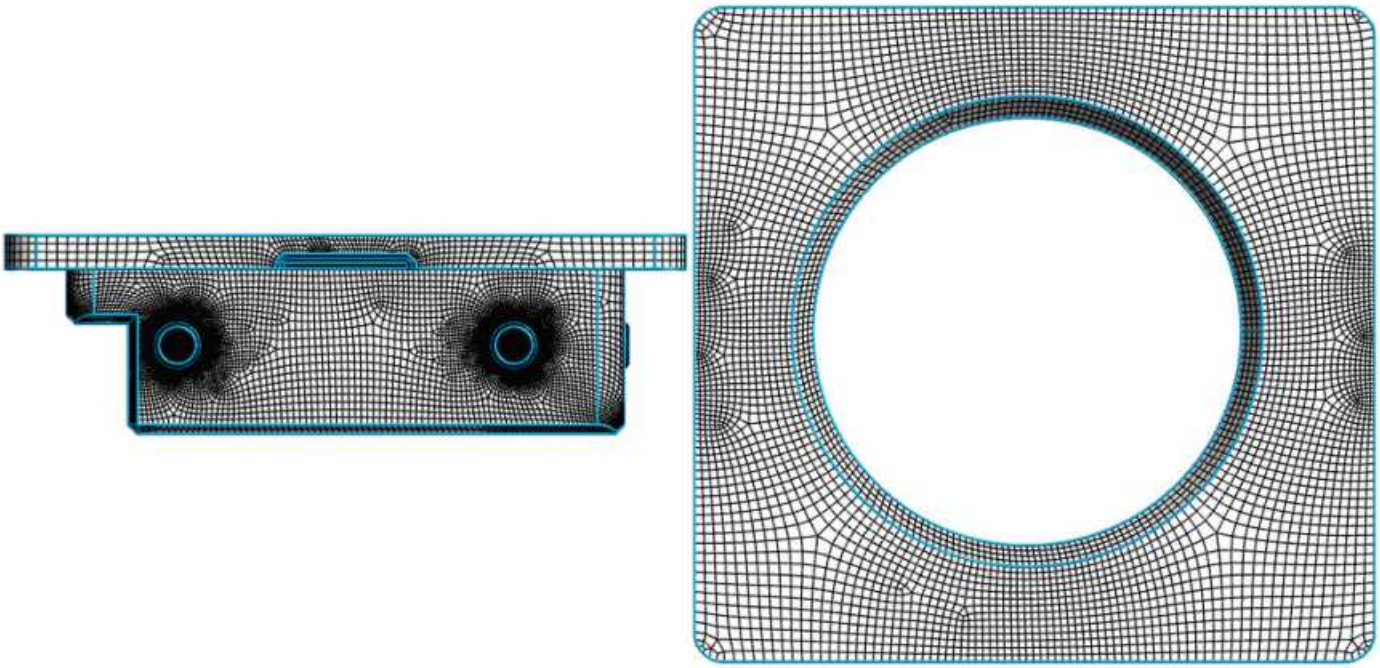
Model: 00008571 (from ABC dataset)
CAD: 127 corners, 211 curves, 92 faces
Cross field: 78 singularities detected
Timings: 17.8957 sec to generate the unstructured mesh, 172.998 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	62876	70649	3539	214
Quasi-structured	62362	70135	999	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00420295	0.101604	0.514426	0.25596	0.924489	0.975232
Quasi-structured	0.00369588	0.102956	0.943442	0.202368	0.944251	0.976632



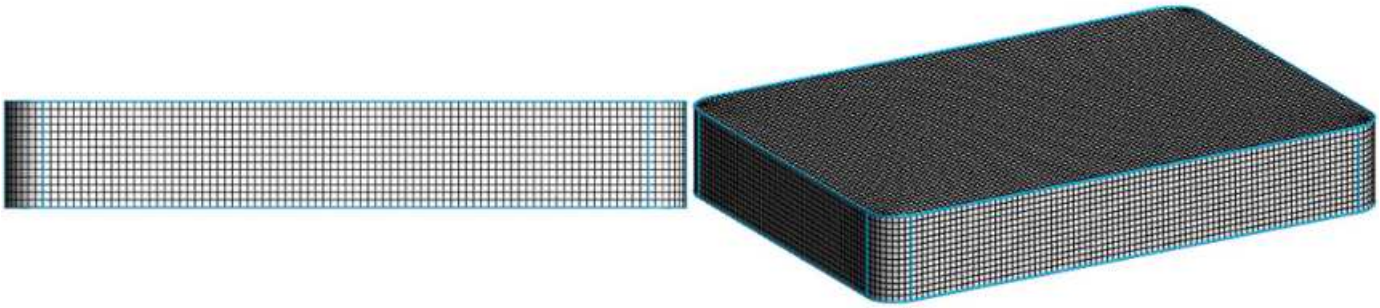


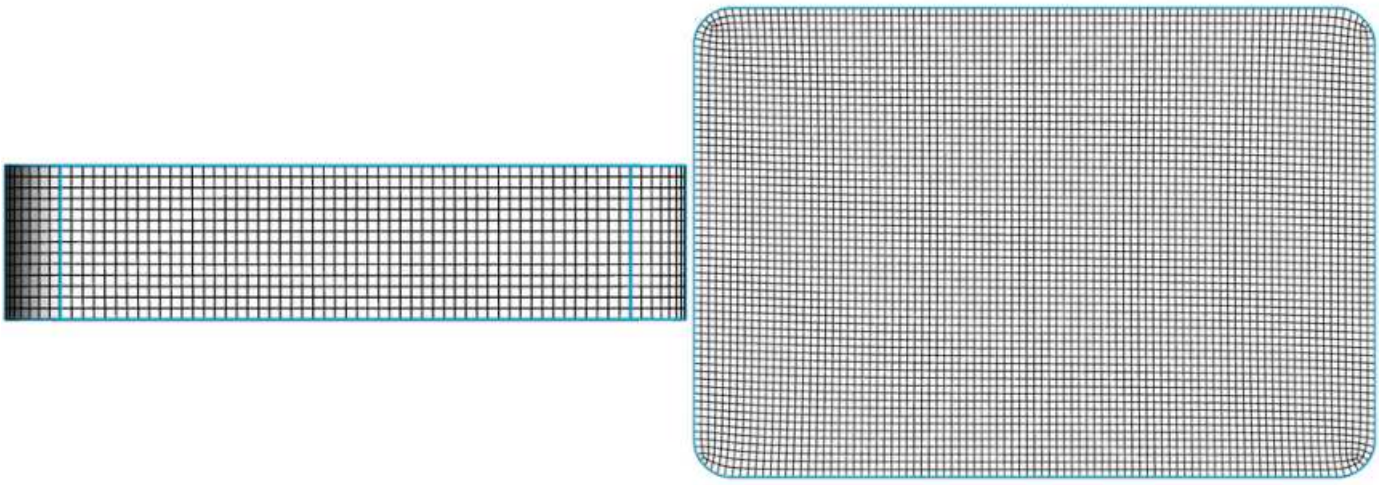
Model: 00008572 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 11.8805 sec to generate the unstructured mesh, 2.32626 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14916	15630	48	1
Quasi-structured	15532	16246	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.539827	1.28602	1.98183	0.194079	0.992884	0.999976
Quasi-structured	0.661482	1.25855	1.67434	0.824019	0.998899	0.999777



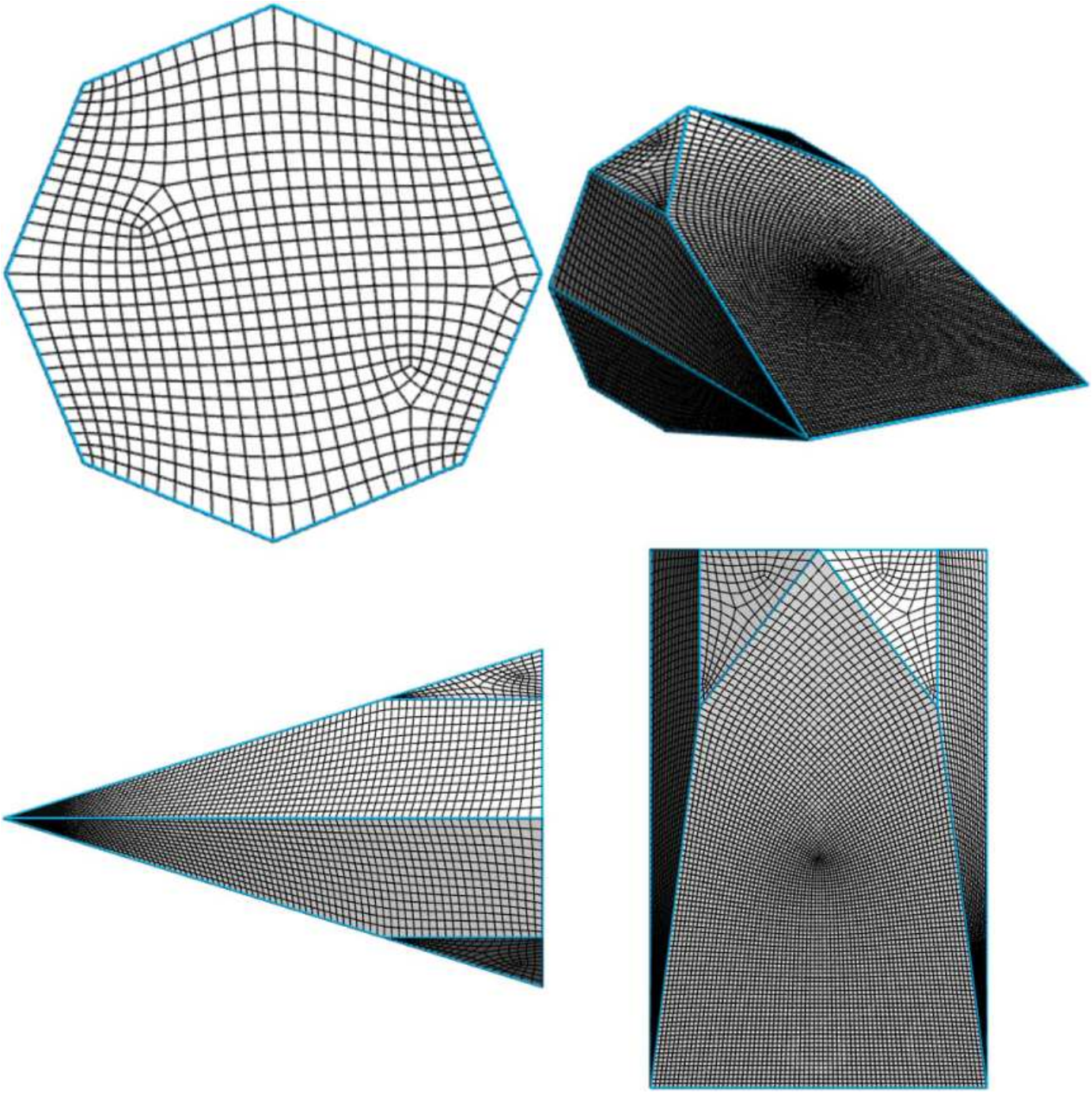


Model: 00008605 (from ABC dataset)
CAD: 14 corners, 23 curves, 11 faces
Cross field: 7 singularities detected
Timings: 6.84324 sec to generate the unstructured mesh, 2.7558 sec to make it quasi-structured
Mesh topology:

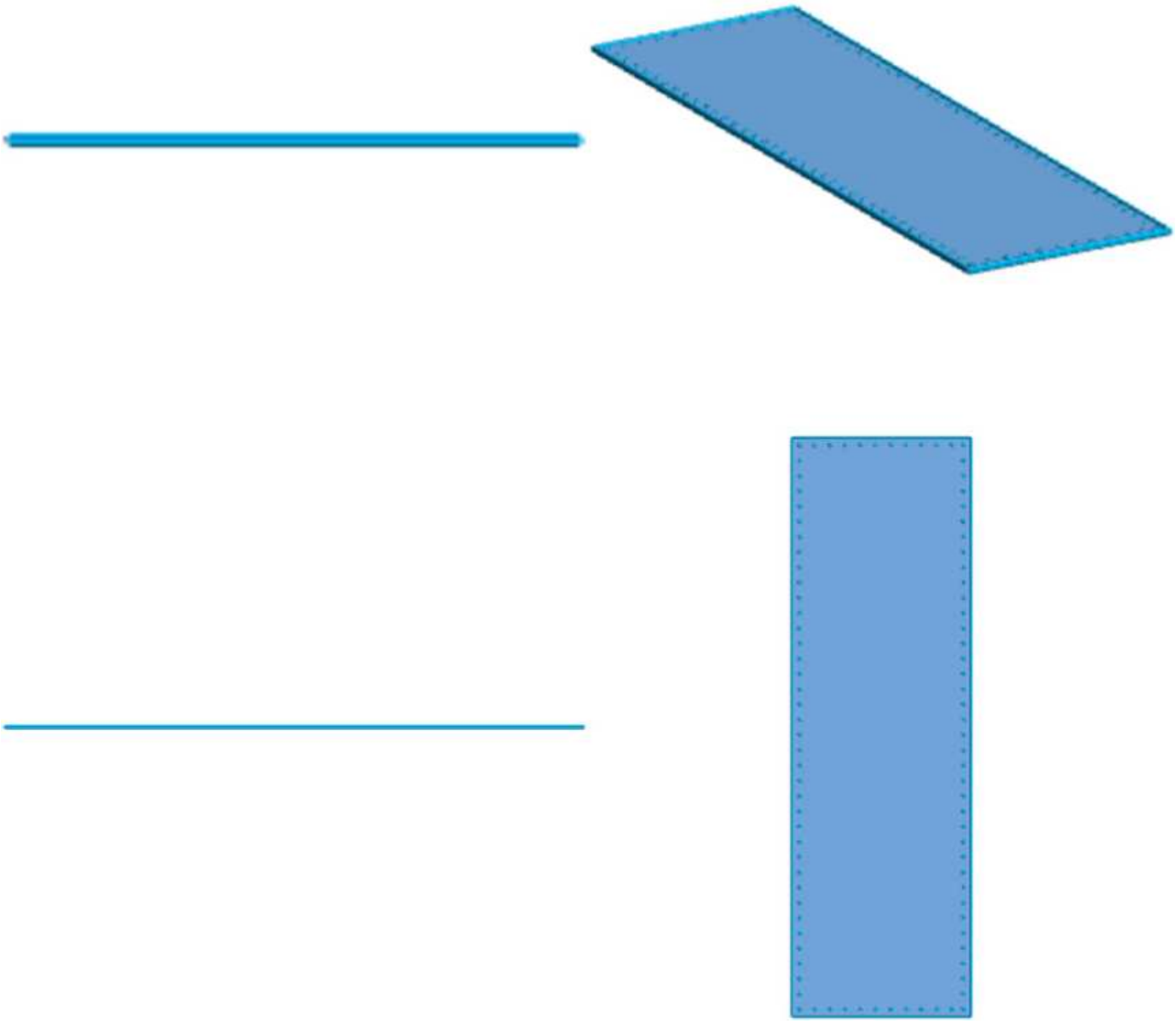
	# quads	# vertices	# irregular	# very irregular
Unstructured	13546	14361	296	3
Quasi-structured	16936	17751	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.551696	2.36434	8.22831	0.320363	0.974846	0.994329
Quasi-structured	0.254412	2.09988	8.7081	0.317468	0.933522	0.986364



Model: 00008620 (from ABC dataset)
Error: failed to build quadrilateral mesh

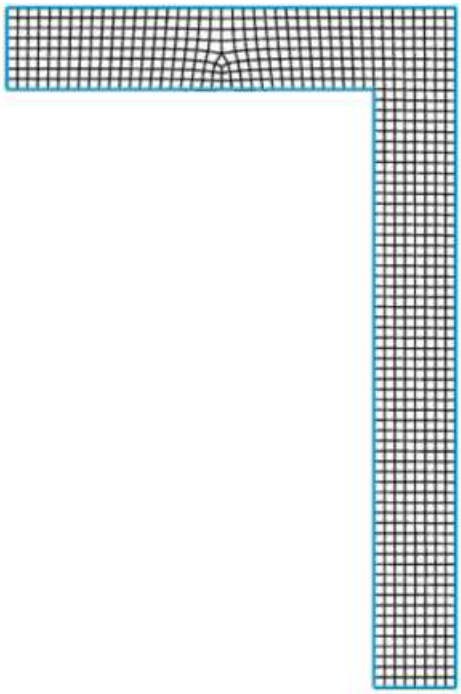


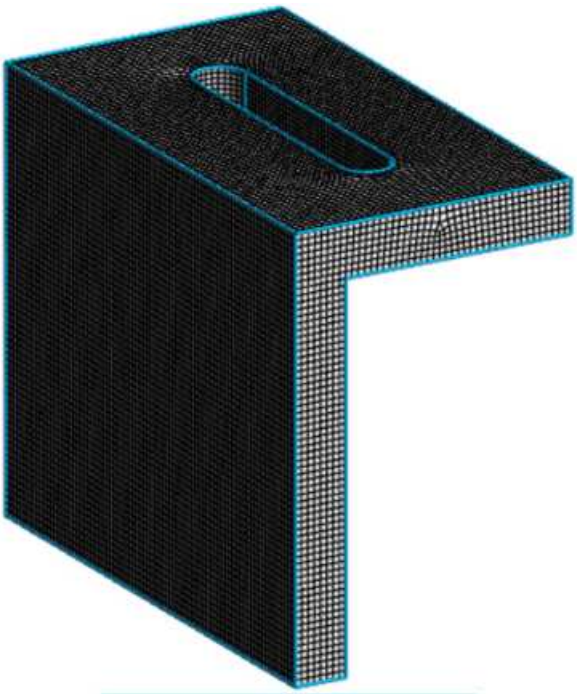
Model: 00008629 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 8 singularities detected
Timings: 12.7757 sec to generate the unstructured mesh, 1.67197 sec to make it quasi-structured
Mesh topology:

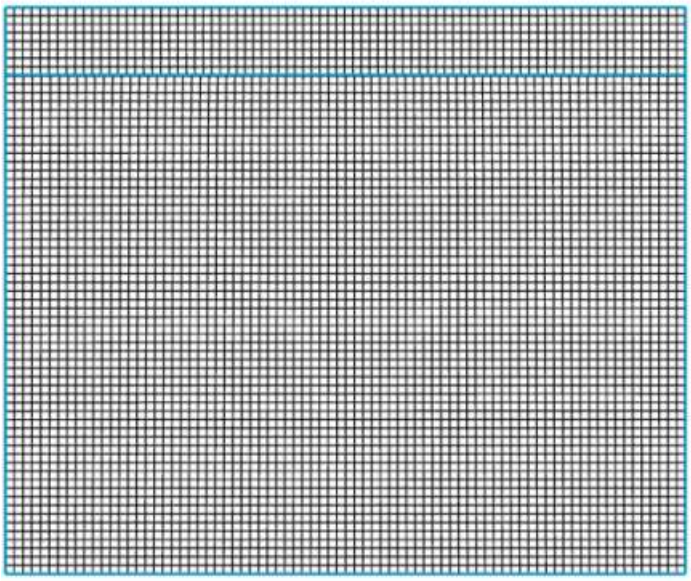
	# quads	# vertices	# irregular	# very irregular
Unstructured	19142	20324	53	3
Quasi-structured	19582	20764	12	0

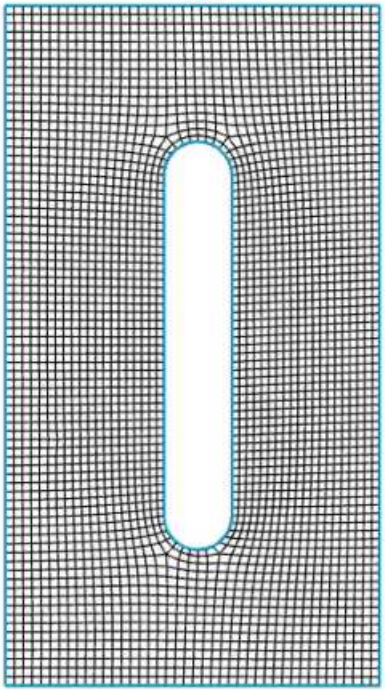
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.139126	0.378248	0.61231	0.54297	0.993228	0.999771
Quasi-structured	0.227315	0.373563	0.606375	0.765355	0.996762	0.999757







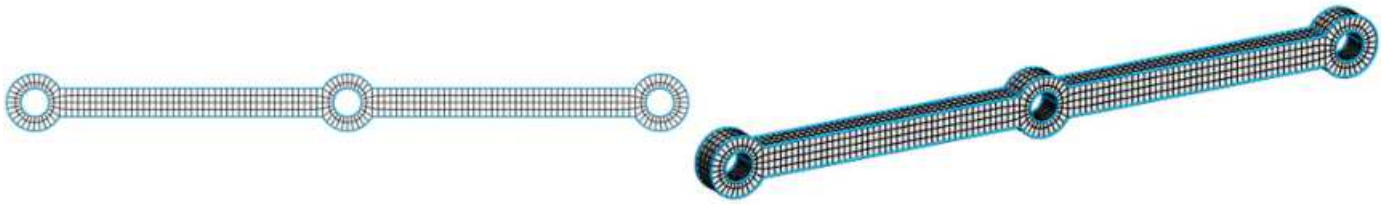


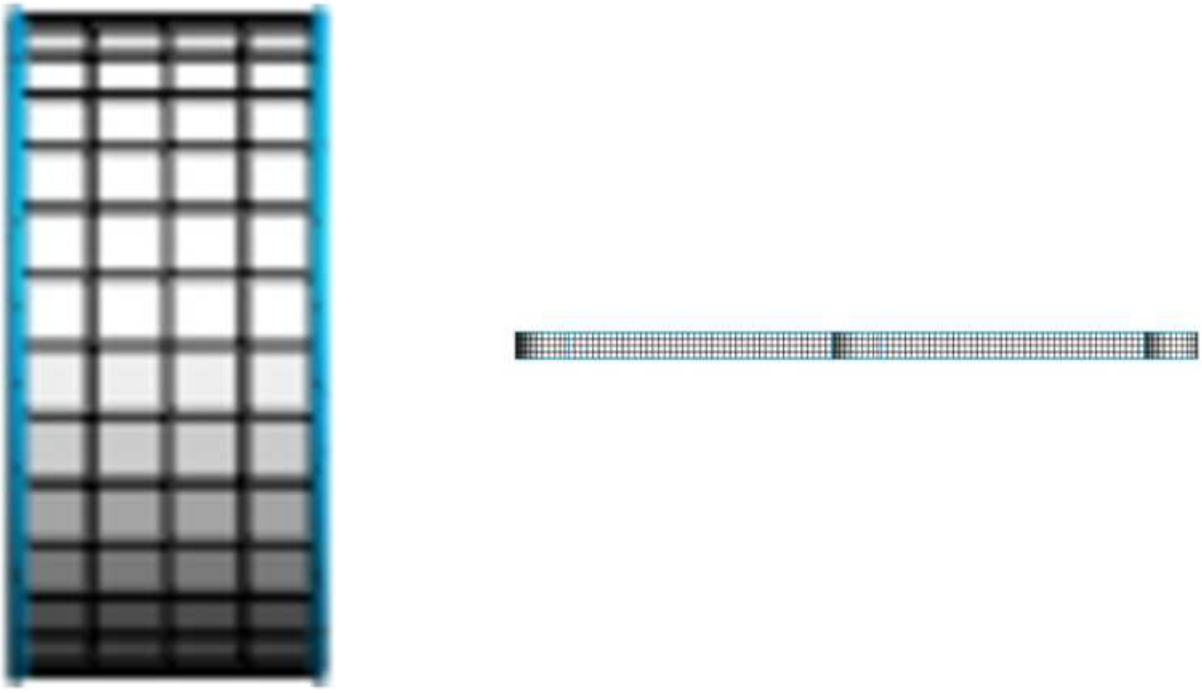
Model: 00008655 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 0 singularities detected
Timings: 1.25268 sec to generate the unstructured mesh, 0.15173 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	2714	3406	16	25
Quasi-structured	2688	3380	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.338192	1.23042	1.78453	0.316604	0.963185	0.995803
Quasi-structured	0.684228	1.233	2.00298	0.749326	0.972576	0.995799



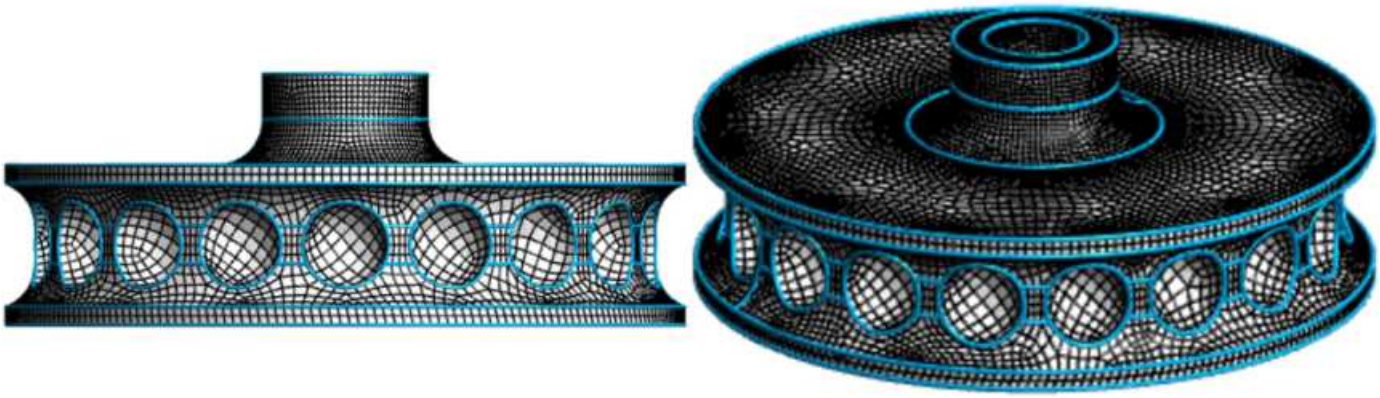


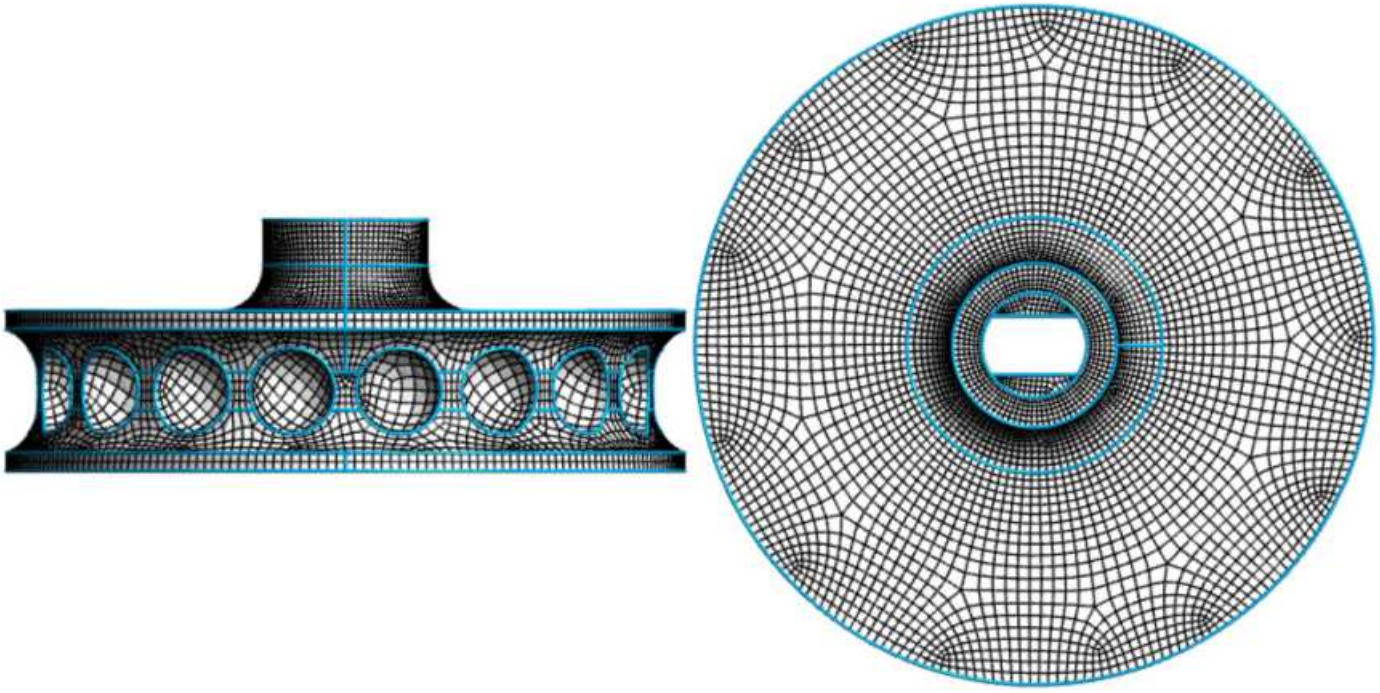
Model: 00008668 (from ABC dataset)
CAD: 91 corners, 138 curves, 50 faces
Cross field: 148 singularities detected
Timings: 18.2406 sec to generate the unstructured mesh, 9.60357 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15900	18138	885	122
Quasi-structured	16576	18814	406	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.107369	0.484345	1.09502	0.287809	0.927862	0.971415
Quasi-structured	0.106469	0.473381	1.26988	0.387406	0.958102	0.984158



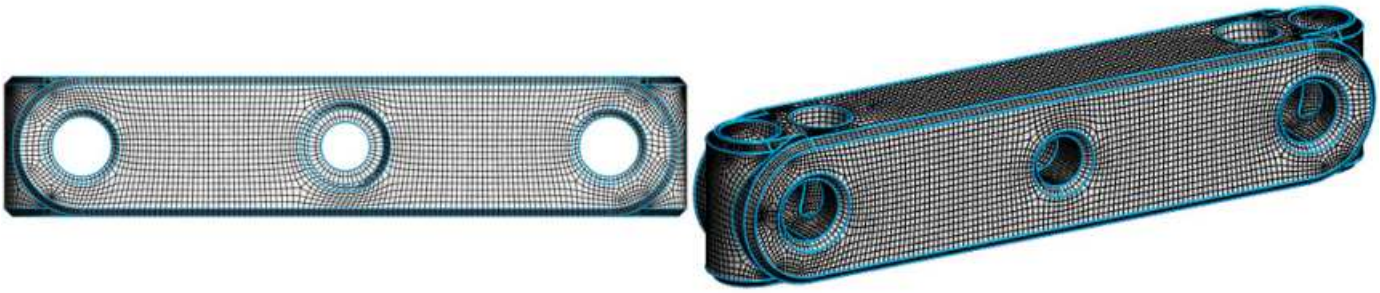


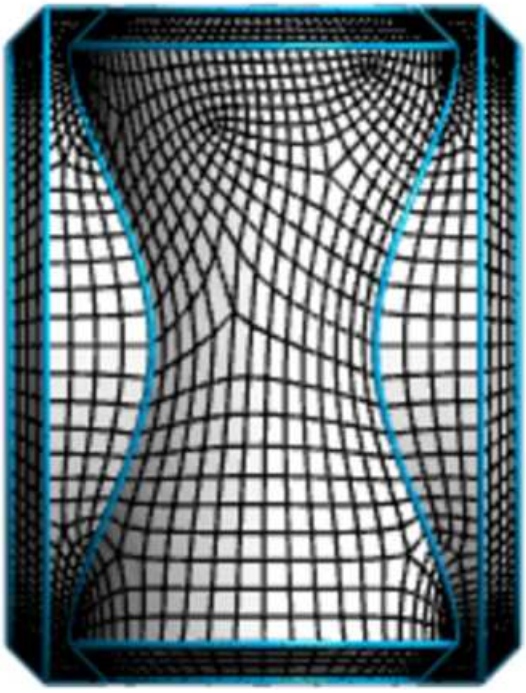
Model: 00008675 (from ABC dataset)
CAD: 112 corners, 176 curves, 77 faces
Cross field: 96 singularities detected
Timings: 12.8461 sec to generate the unstructured mesh, 55.9781 sec to make it quasi-structured
Mesh topology:

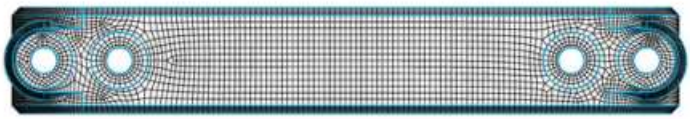
	# quads	# vertices	# irregular	# very irregular
Unstructured	23772	27922	1265	244
Quasi-structured	25147	29297	508	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0402812	0.543604	1.38873	0.0781502	0.917327	0.962582
Quasi-structured	0.0181726	0.531044	1.83505	0.0781502	0.918866	0.962794





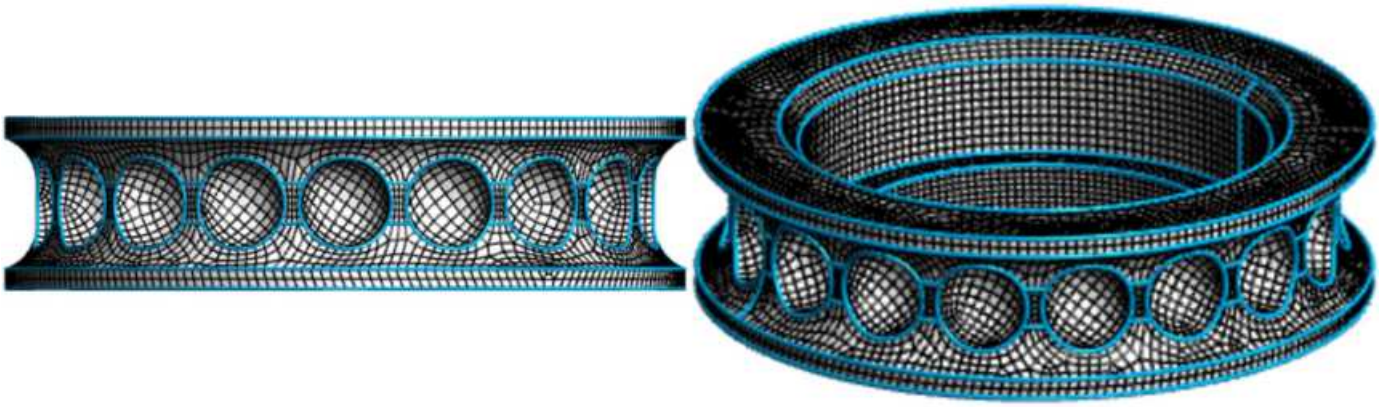


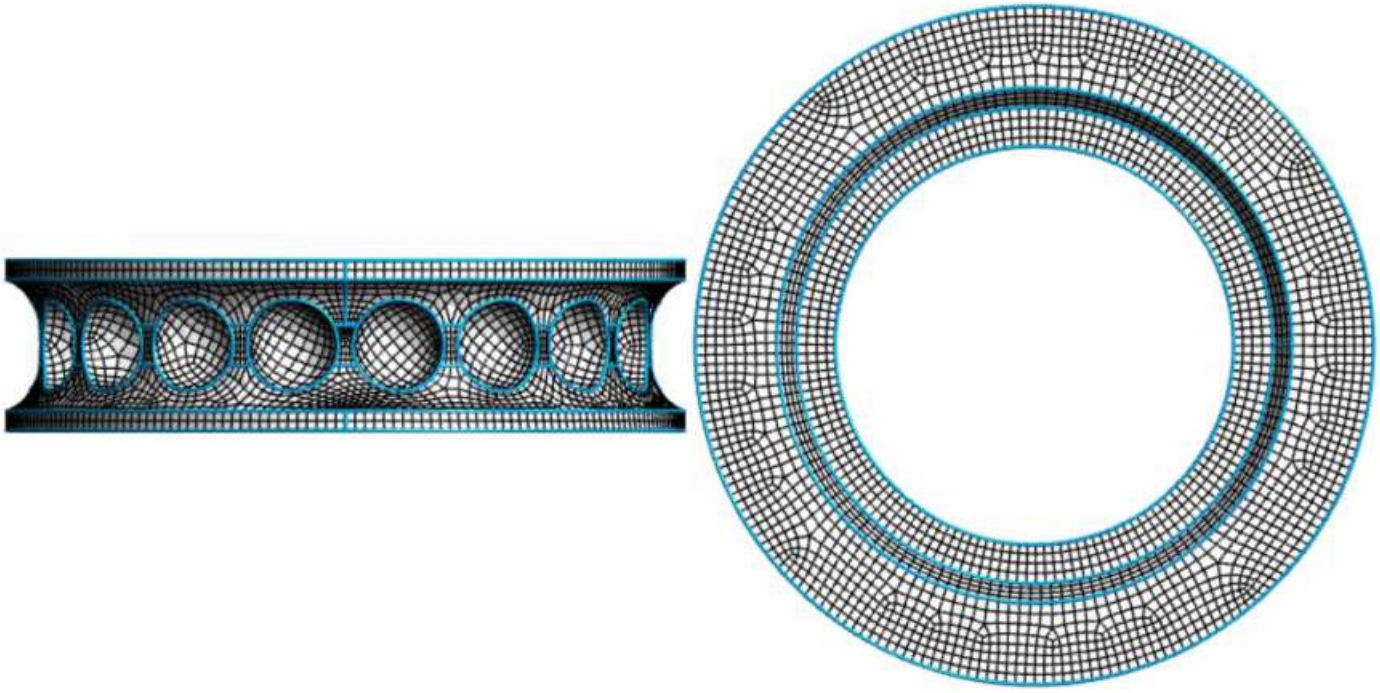
Model: 00008676 (from ABC dataset)
CAD: 84 corners, 127 curves, 46 faces
Cross field: 144 singularities detected
Timings: 18.6639 sec to generate the unstructured mesh, 12.2022 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14306	16786	629	66
Quasi-structured	14496	16976	352	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0773433	0.476972	0.963054	0.152246	0.930298	0.96652
Quasi-structured	0.0451512	0.46931	1.40463	0.260969	0.960605	0.98943



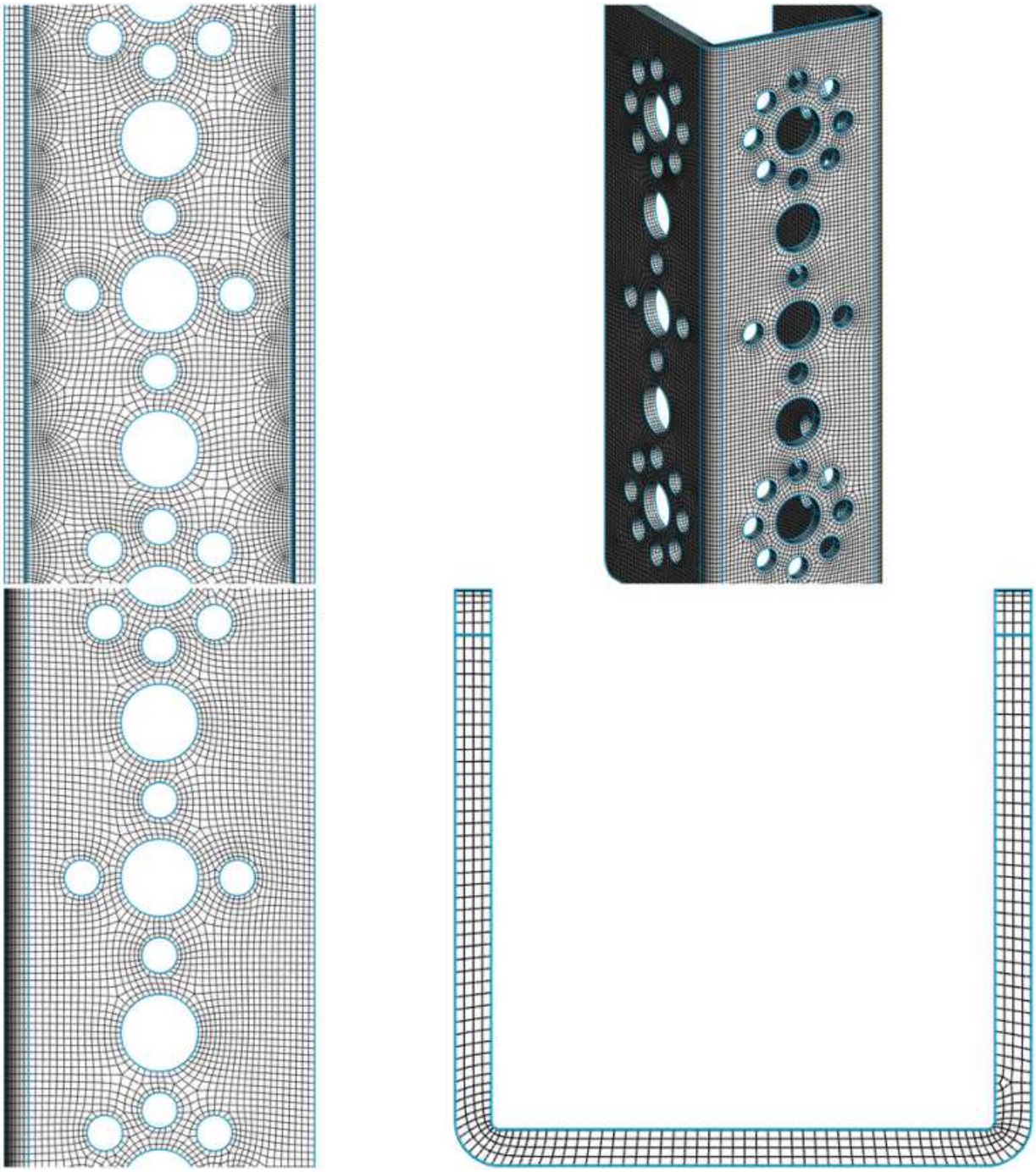


Model: 00008689 (from ABC dataset)
CAD: 238 corners, 329 curves, 93 faces
Cross field: 614 singularities detected
Timings: 39.9666 sec to generate the unstructured mesh, 19.7659 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	49350	56094	2284	373
Quasi-structured	49838	56582	914	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.131769	0.586009	1.35238	0.171846	0.935134	0.962556
Quasi-structured	0.141243	0.580752	1.60446	0.544299	0.95741	0.980857

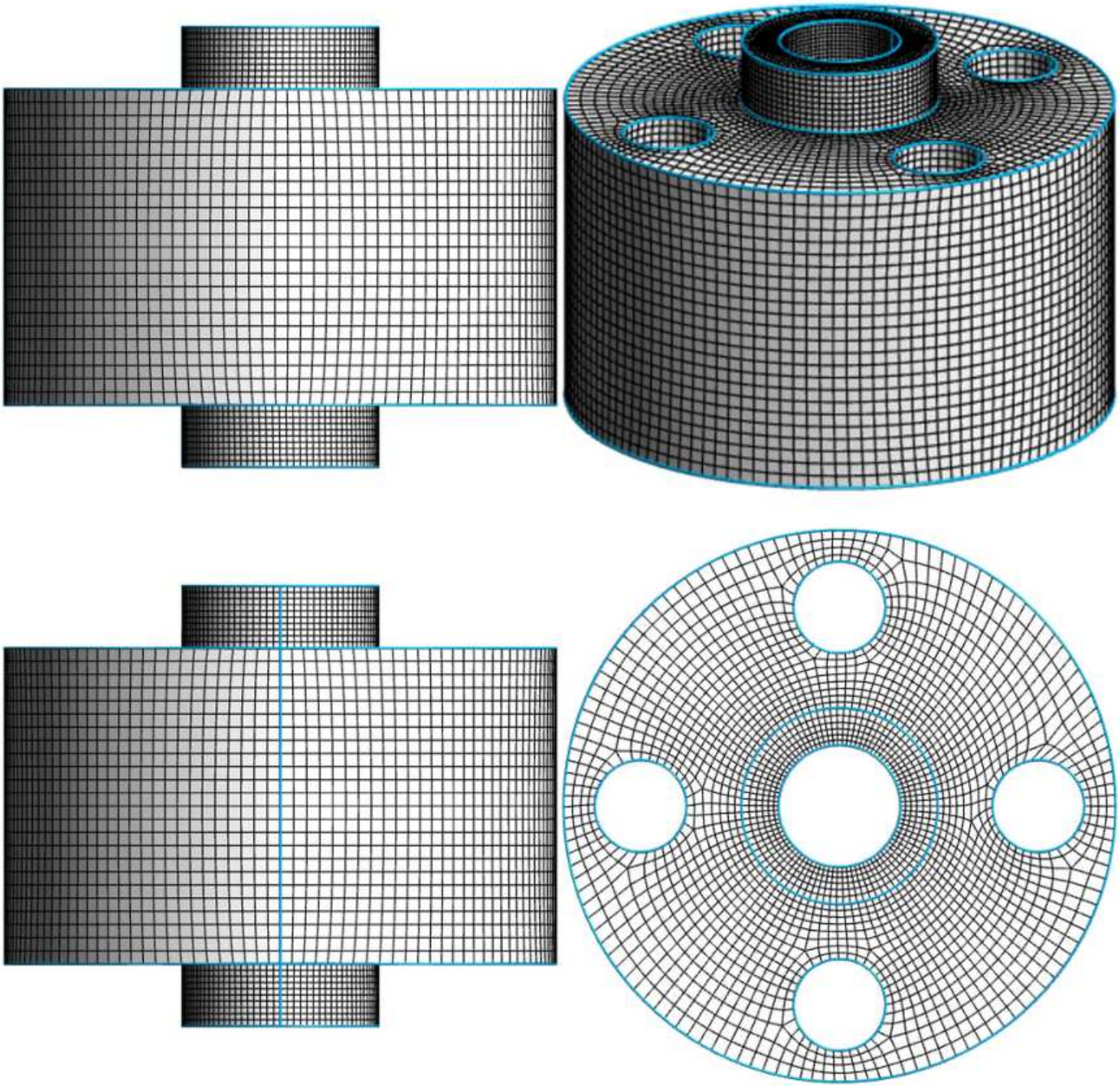


Model: 00008698 (from ABC dataset)
CAD: 17 corners, 25 curves, 12 faces
Cross field: 32 singularities detected
Timings: 13.6055 sec to generate the unstructured mesh, 1.49238 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23858	24926	184	300
Quasi-structured	24035	25103	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0841058	0.298343	0.828792	0.451846	0.98543	0.999364
Quasi-structured	0.159771	0.29732	1.07549	0.353532	0.992177	0.99969

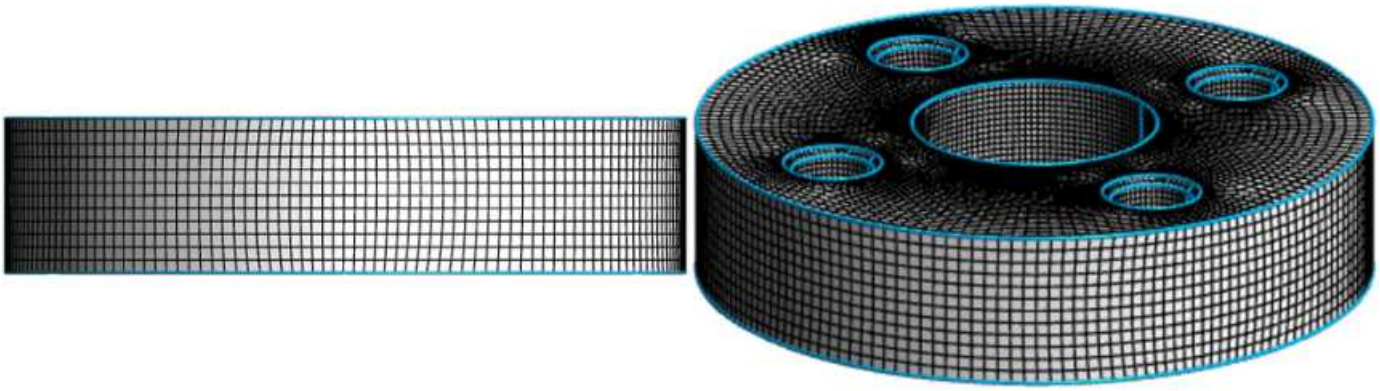


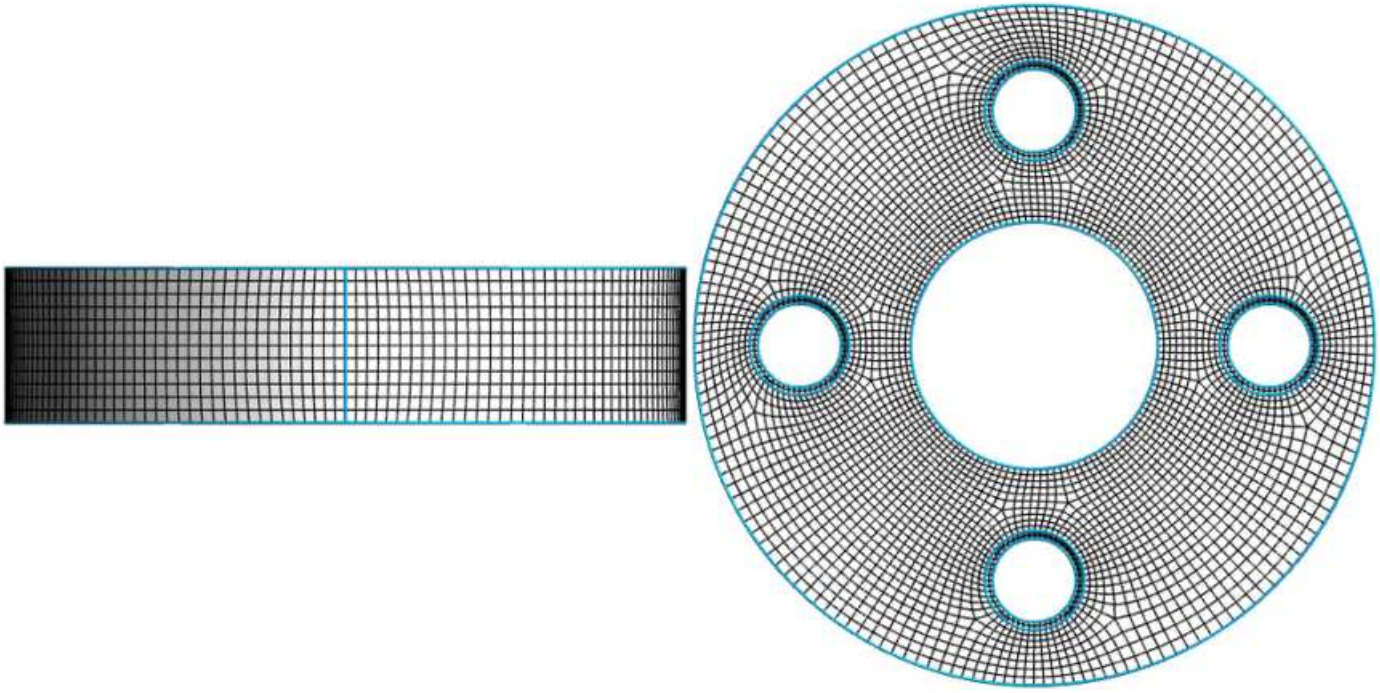
Model: 00008703 (from ABC dataset)
CAD: 20 corners, 34 curves, 16 faces
Cross field: 32 singularities detected
Timings: 9.40581 sec to generate the unstructured mesh, 1.3372 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17714	19138	352	132
Quasi-structured	17991	19415	160	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0743515	0.254353	0.544042	0.420438	0.975878	0.993907
Quasi-structured	0.0879814	0.252198	0.73676	0.626958	0.983126	0.989553



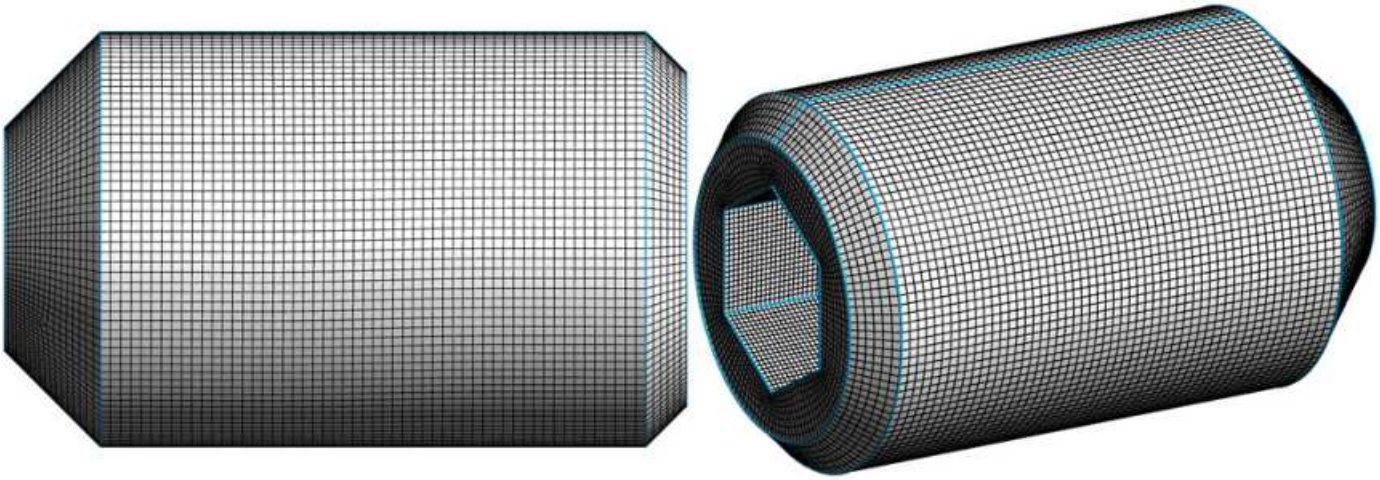


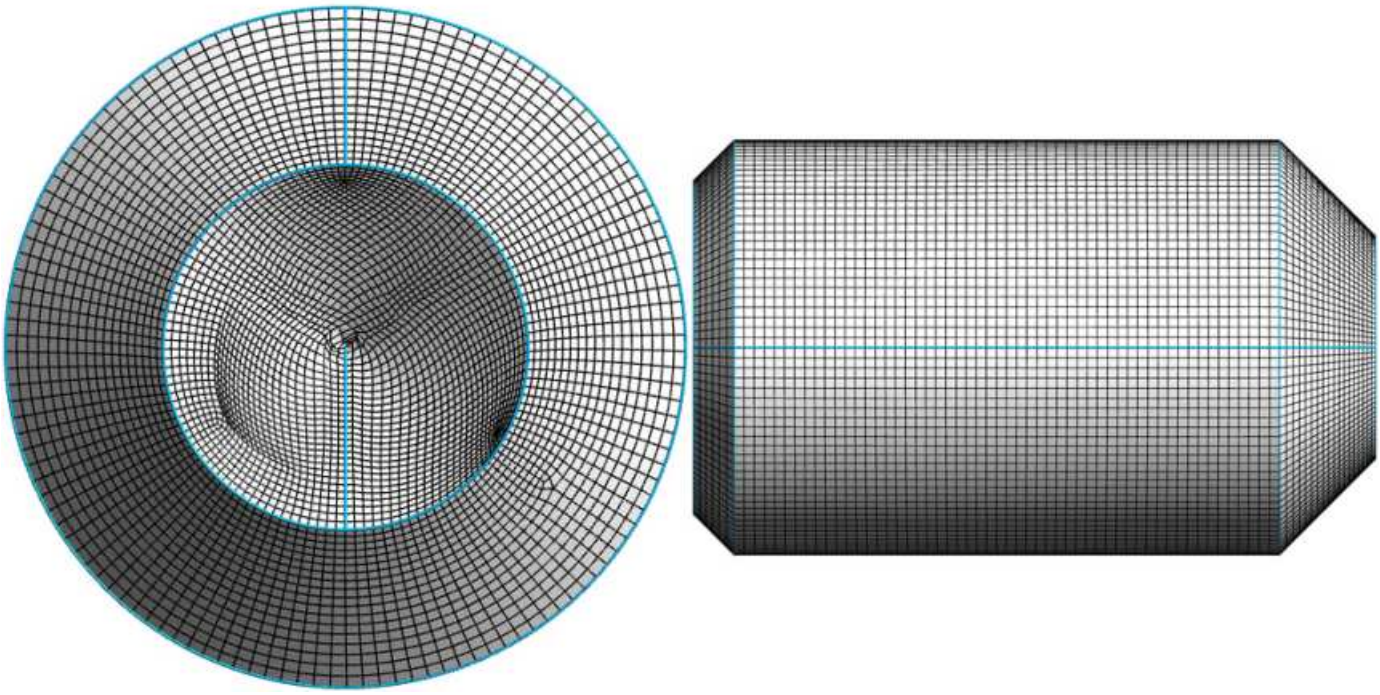
Model: 00008706 (from ABC dataset)
CAD: 18 corners, 28 curves, 12 faces
Cross field: 12 singularities detected
Timings: 9.8027 sec to generate the unstructured mesh, 1.09432 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18776	19774	120	110
Quasi-structured	18656	19654	25	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.020419	0.0895692	0.14709	0.320196	0.987114	0.997849
Quasi-structured	0.00998345	0.08996	0.17894	0.30887	0.986184	0.998627



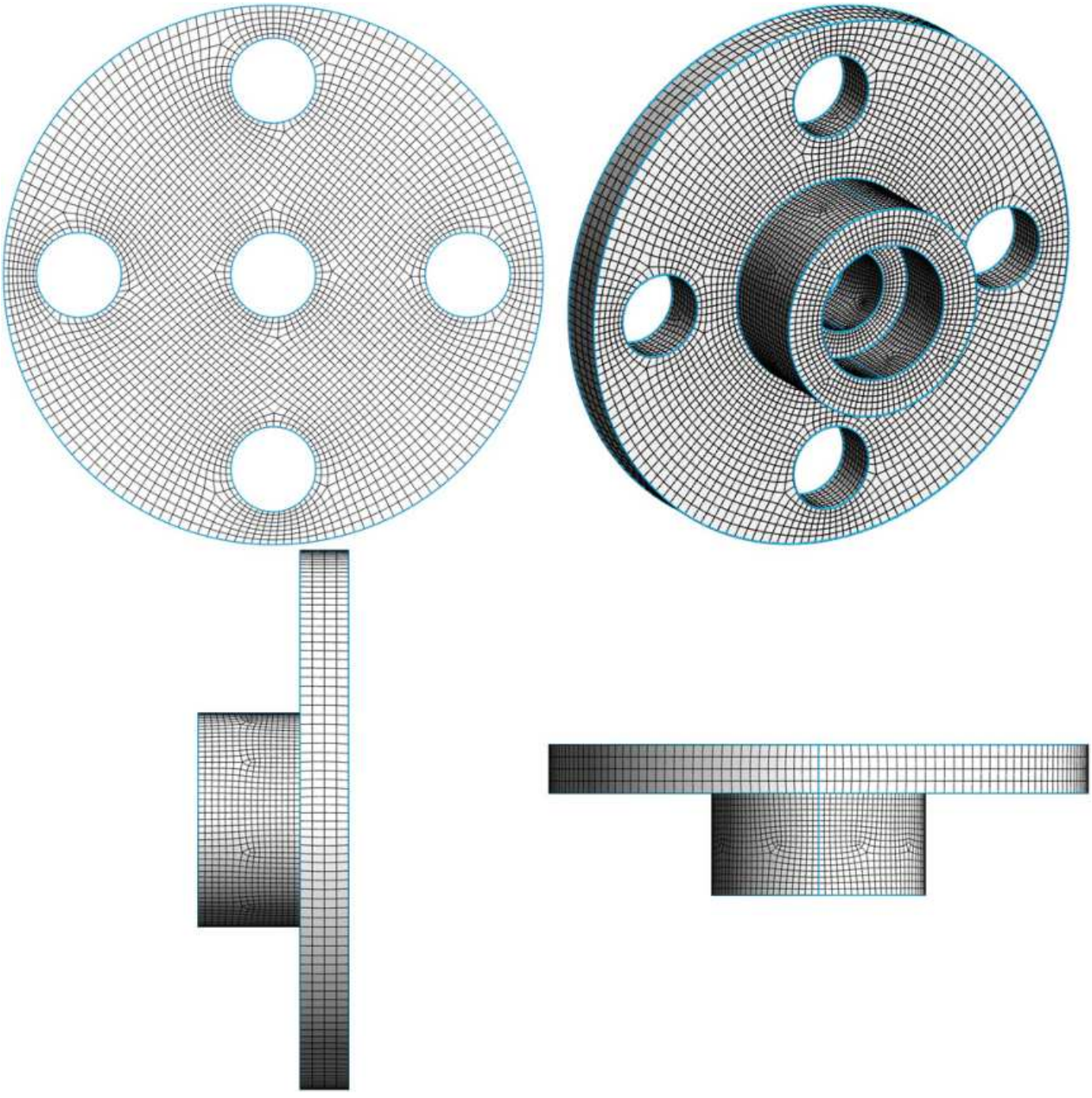


Model: 00008714 (from ABC dataset)
CAD: 17 corners, 25 curves, 12 faces
Cross field: 32 singularities detected
Timings: 8.11605 sec to generate the unstructured mesh, 1.68774 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13366	14572	258	92
Quasi-structured	13411	14617	88	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0689038	0.279161	0.603153	0.51251	0.973212	0.98996
Quasi-structured	0.0770747	0.277516	0.590298	0.630647	0.986758	0.995506

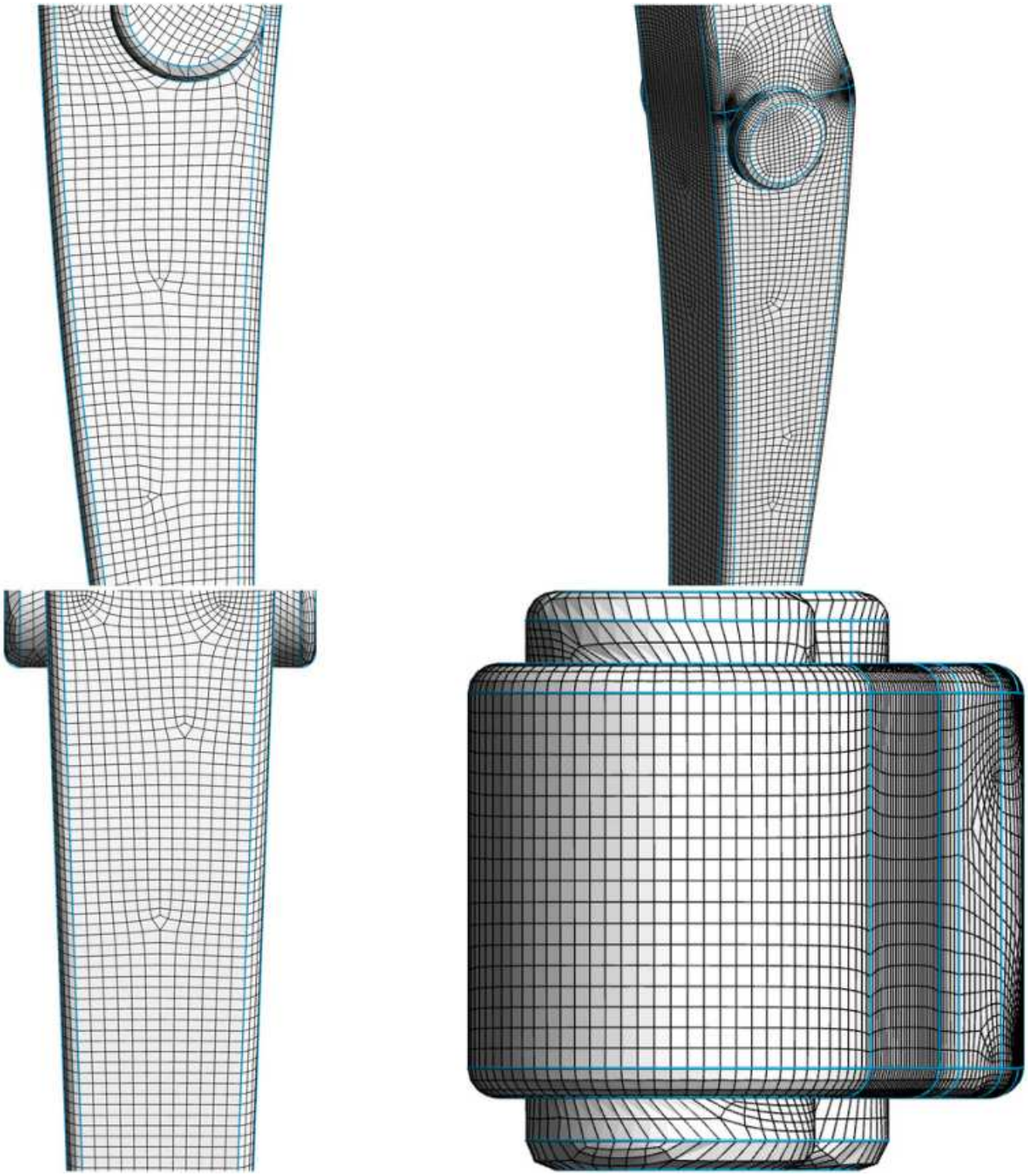


Model: 00008732 (from ABC dataset)
CAD: 68 corners, 114 curves, 50 faces
Cross field: 33 singularities detected
Timings: 8.9601 sec to generate the unstructured mesh, 26.0404 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17384	20108	996	65
Quasi-structured	17626	20350	283	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0009451	0.269497	3.45788	0.0106554	0.902083	0.950487
Quasi-structured	0.0009451	0.269527	2.54549	0.0106554	0.900943	0.956338



Model: 00008746 (from ABC dataset)
CAD: 113 corners, 189 curves, 74 faces
Cross field: 33 singularities detected
Timings: 11.9768 sec to generate the unstructured mesh, 23.3962 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23092	28002	777	135
Quasi-structured	24047	28957	290	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0220952	0.491972	1.67425	0.12149	0.928429	0.984771
Quasi-structured	0.0108366	0.477908	2.07827	0.103557	0.932301	0.985975

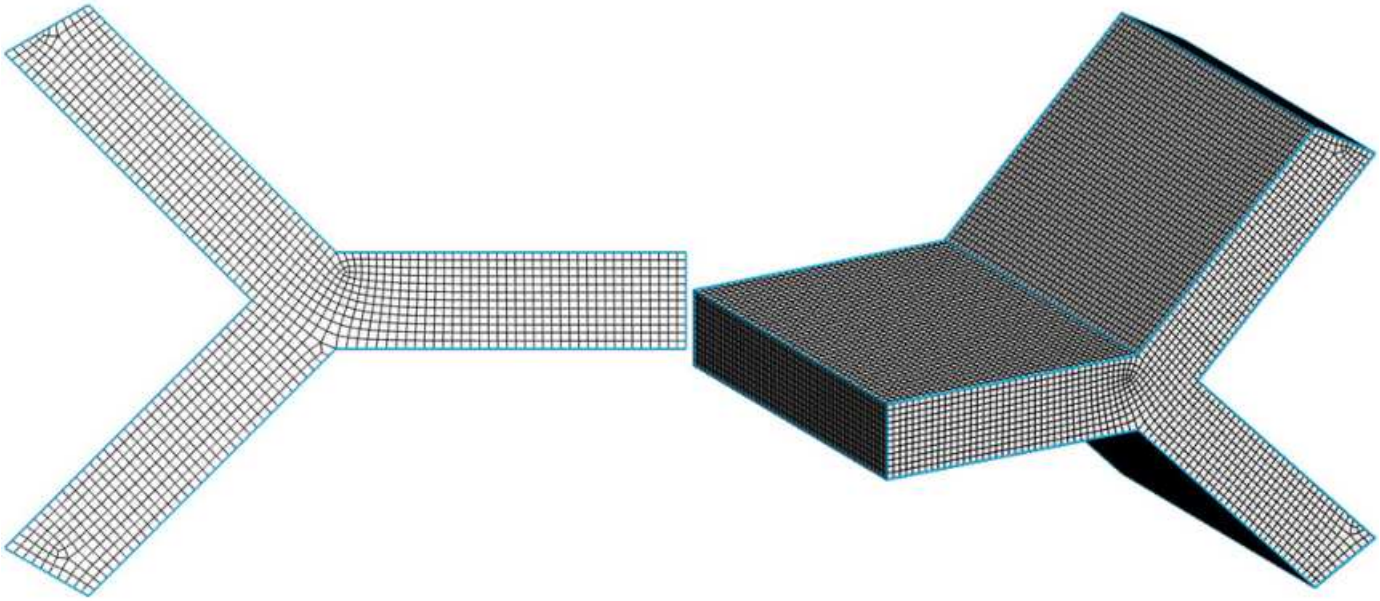


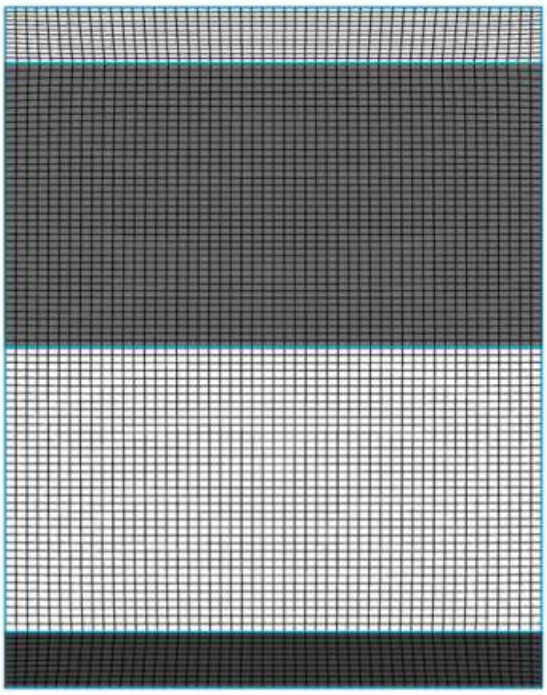
Model: 00008750 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 2 singularities detected
Timings: 6.91764 sec to generate the unstructured mesh, 0.914725 sec to make it quasi-structured
Mesh topology:

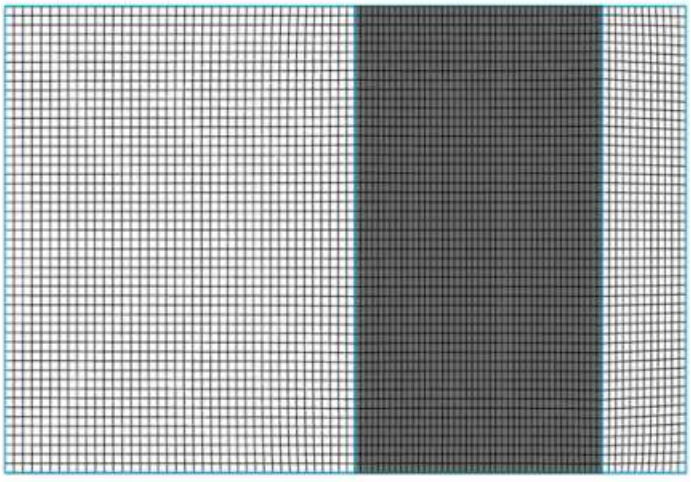
	# quads	# vertices	# irregular	# very irregular
Unstructured	15714	16707	46	1
Quasi-structured	15898	16891	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0715729	0.196617	0.333284	0.604181	0.99297	0.998005
Quasi-structured	0.0821621	0.195371	0.352844	0.747635	0.99596	0.997635





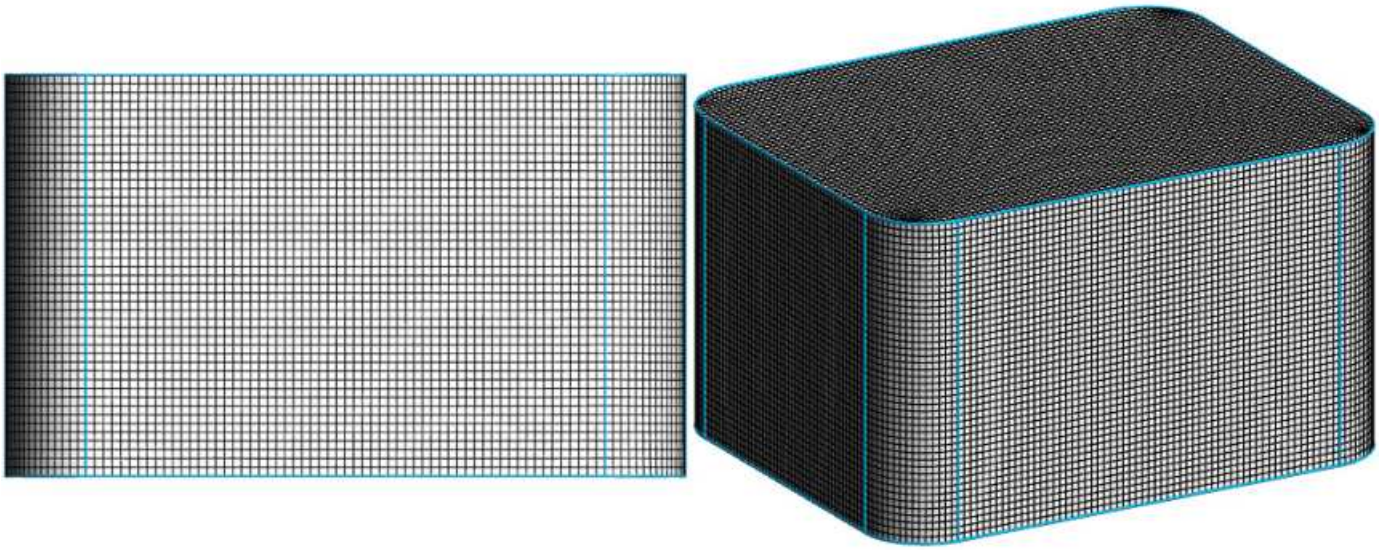


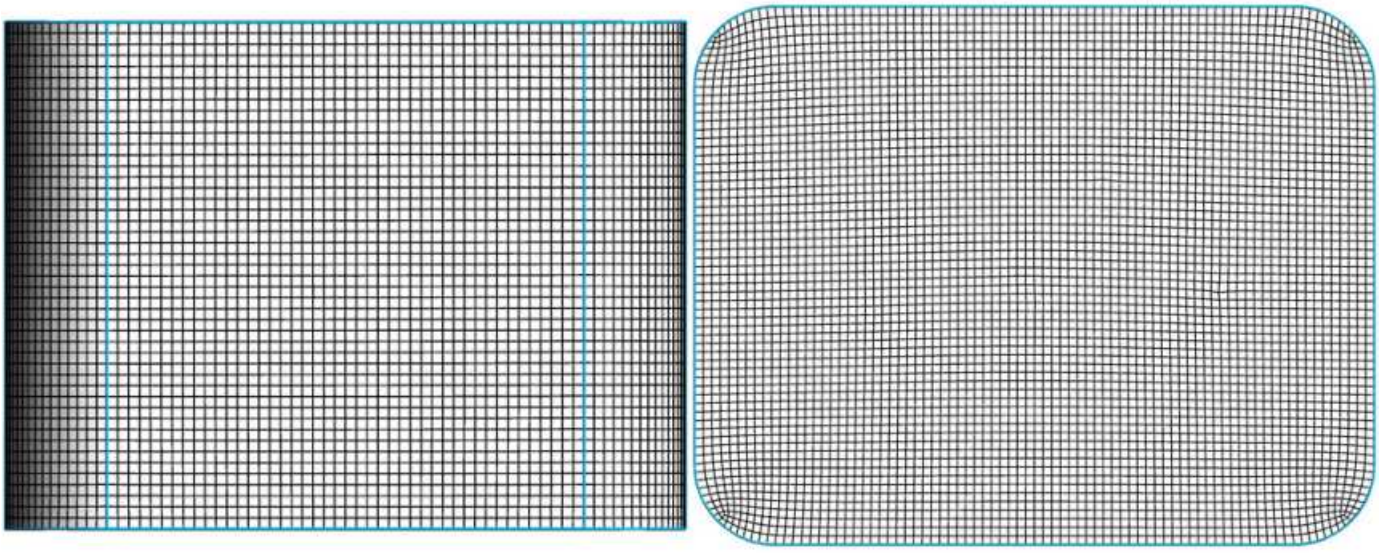
Model: 00008761 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 16.9163 sec to generate the unstructured mesh, 2.66529 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22648	23570	90	0
Quasi-structured	22566	23488	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.136148	0.530889	0.838964	0.48043	0.993775	0.999882
Quasi-structured	0.204411	0.53161	0.704373	0.734005	0.998256	0.999843



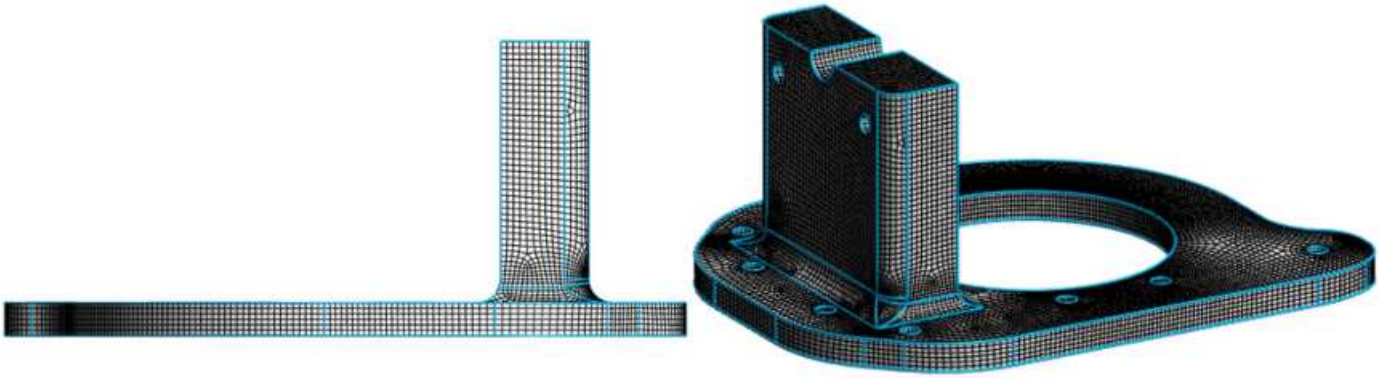


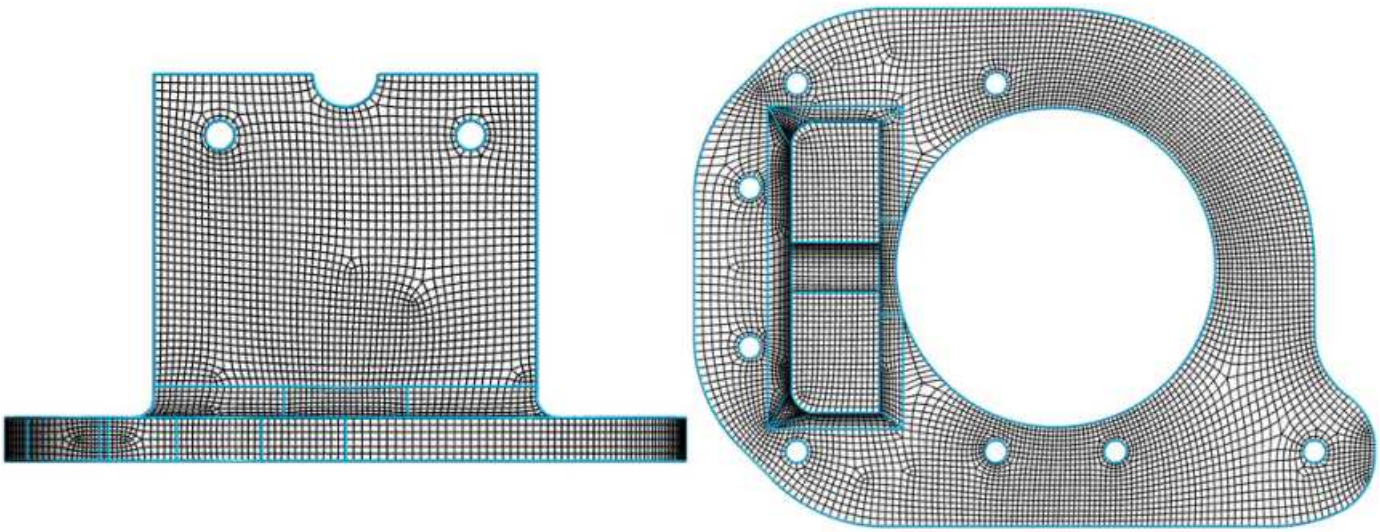
Model: 00008770 (from ABC dataset)
CAD: 93 corners, 141 curves, 48 faces
Cross field: 105 singularities detected
Timings: 19.9571 sec to generate the unstructured mesh, 6.54807 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22716	25097	733	122
Quasi-structured	22716	25097	228	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0927693	0.898236	1.85944	0.136202	0.957129	0.988211
Quasi-structured	0.101176	0.896097	3.45229	0.286522	0.97236	0.990133



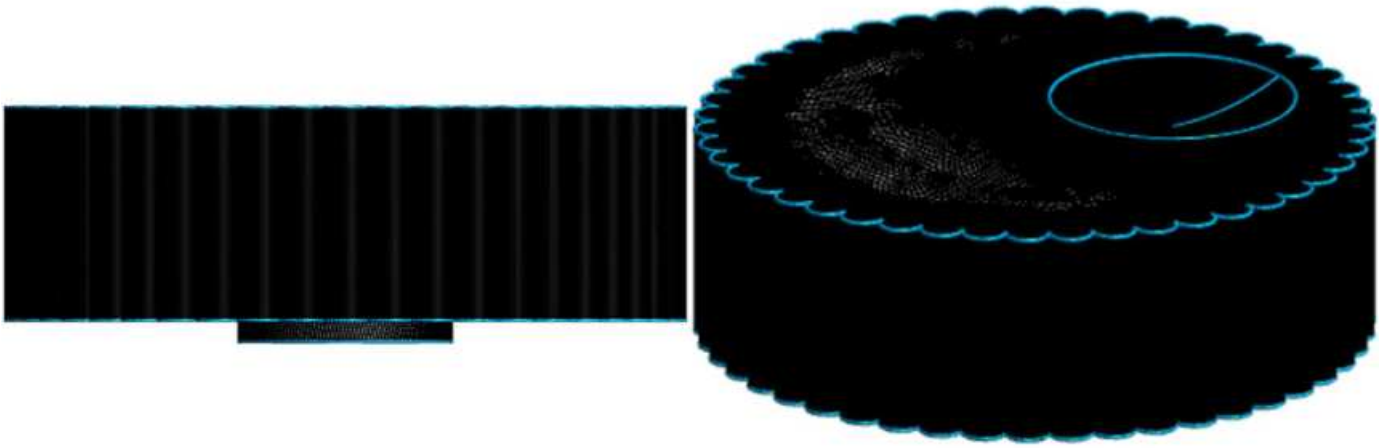


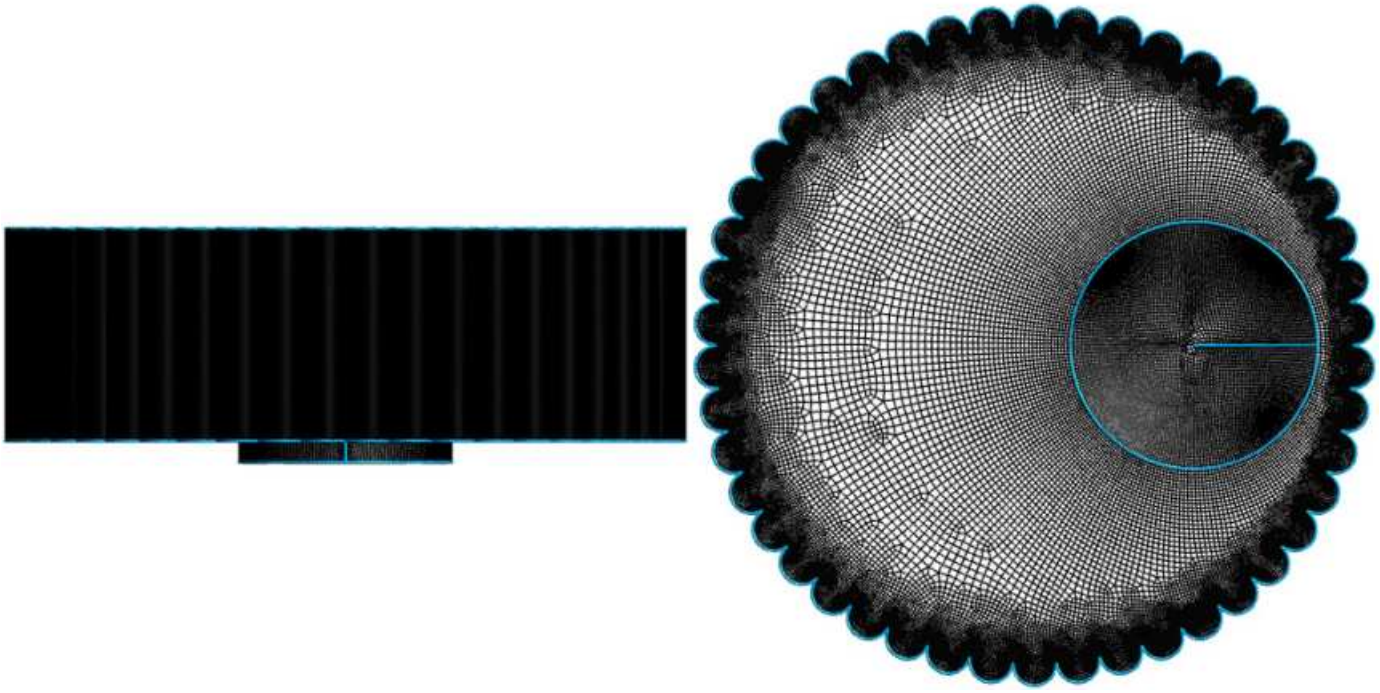
Model: 00008812 (from ABC dataset)
CAD: 192 corners, 288 curves, 100 faces
Cross field: 192 singularities detected
Timings: 81.5371 sec to generate the unstructured mesh, 298.523 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	959396	999142	8052	334
Quasi-structured	957038	996784	4441	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0099964	0.0541616	0.531471	0.172903	0.764441	0.808788
Quasi-structured	0.0104893	0.0542011	0.515833	0.172903	0.765731	0.823704



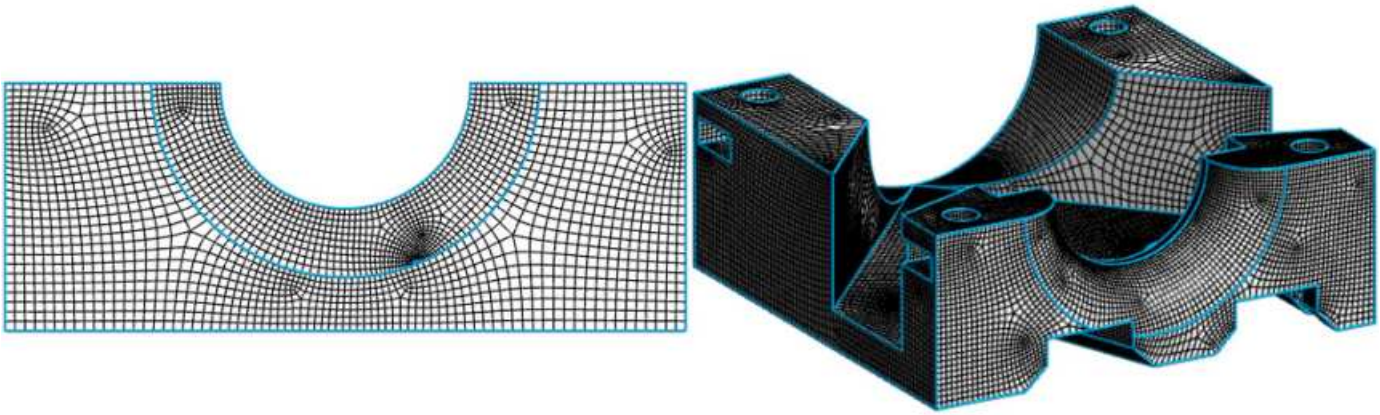


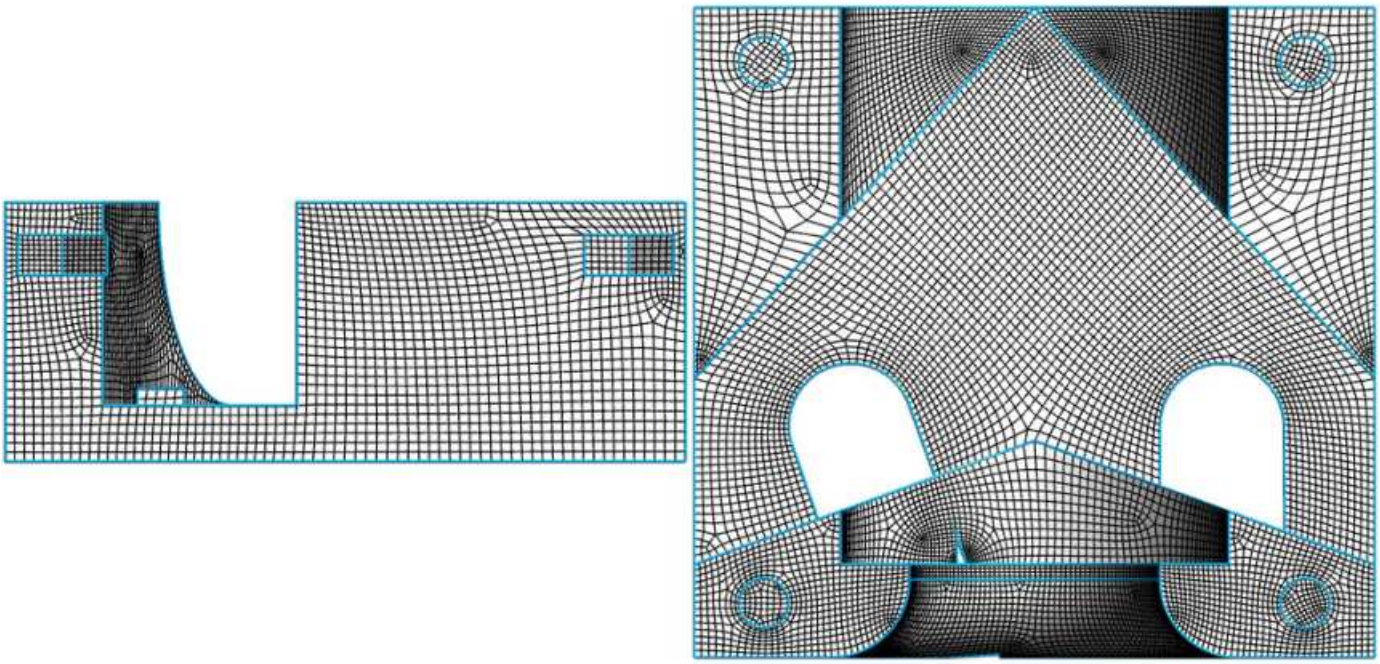
Model: 00008813 (from ABC dataset)
CAD: 143 corners, 215 curves, 73 faces
Cross field: 95 singularities detected
Timings: 25.0468 sec to generate the unstructured mesh, 17.6145 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30586	34106	1144	151
Quasi-structured	31895	35415	302	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0107767	0.491586	1.11233	0.000180595	0.950445	0.983239
Quasi-structured	0.0263461	0.481374	2.43834	0.00730331	0.958589	0.981264



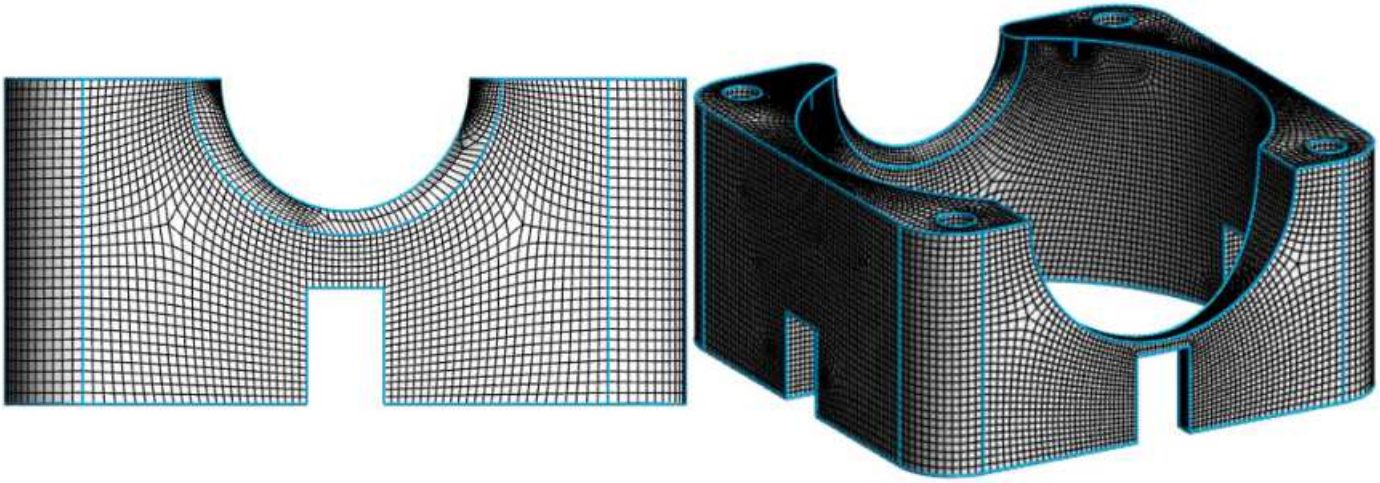


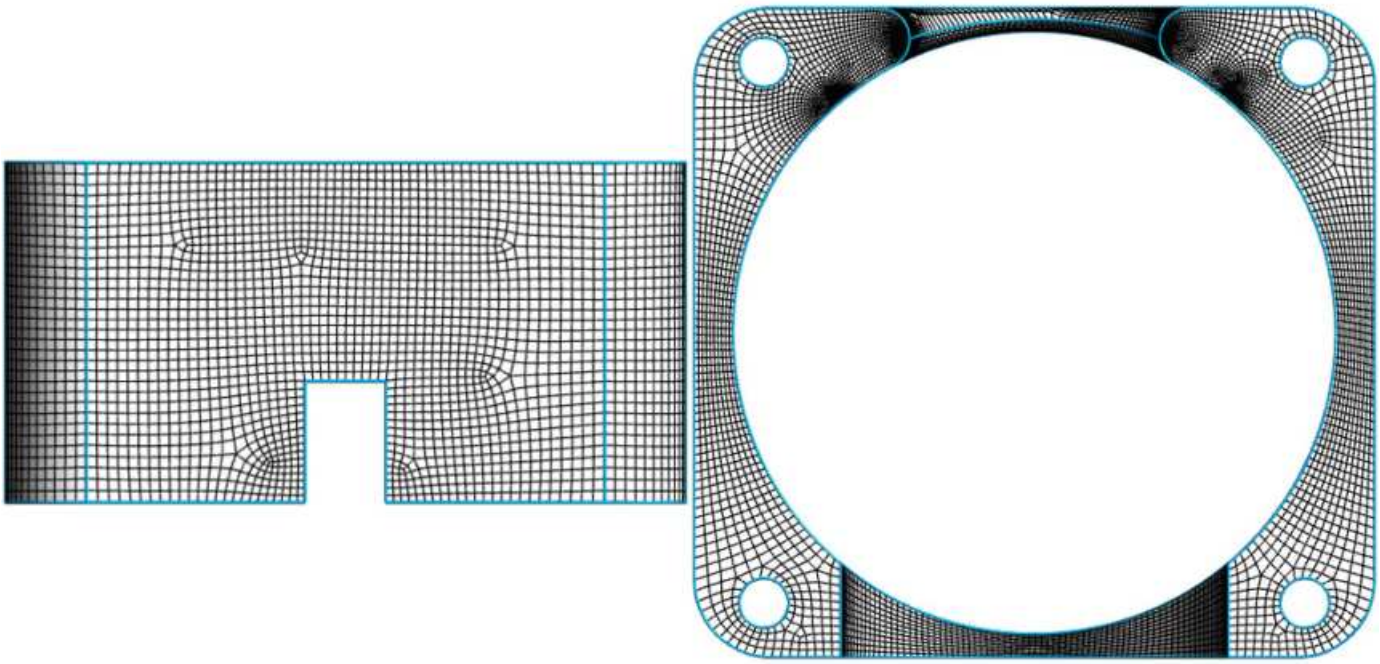
Model: 00008814 (from ABC dataset)
CAD: 79 corners, 119 curves, 40 faces
Cross field: 50 singularities detected
Timings: 32.0189 sec to generate the unstructured mesh, 16.0176 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31454	34037	1069	228
Quasi-structured	32189	34772	230	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0032724	0.445405	1.26029	0.0543791	0.947839	0.989867
Quasi-structured	0.00332965	0.442605	1.70246	0.0543791	0.958657	0.988898



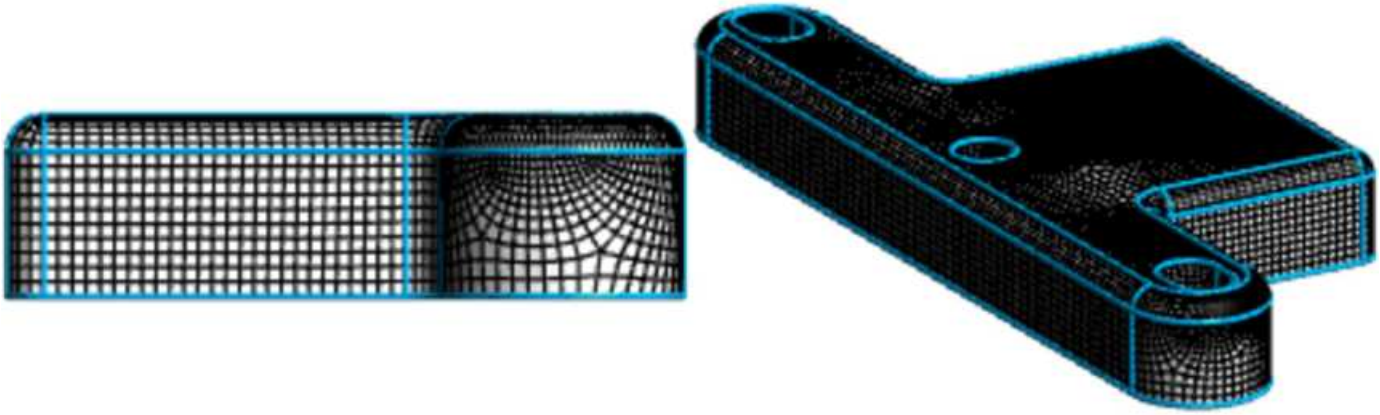


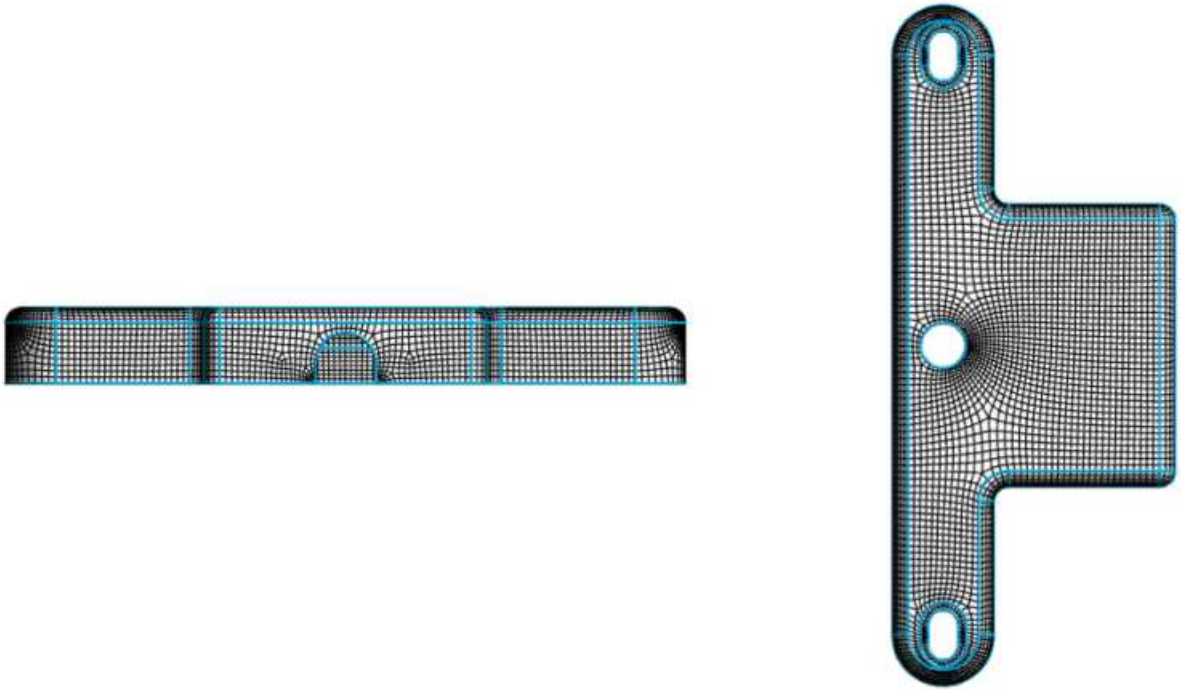
Model: 00008820 (from ABC dataset)
CAD: 99 corners, 162 curves, 63 faces
Cross field: 39 singularities detected
Timings: 10.6728 sec to generate the unstructured mesh, 3.95356 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15310	17684	442	32
Quasi-structured	15481	17855	135	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0613047	1.02019	2.32911	0.106167	0.948594	0.987043
Quasi-structured	0.133218	1.01028	2.86118	0.353907	0.962689	0.989496



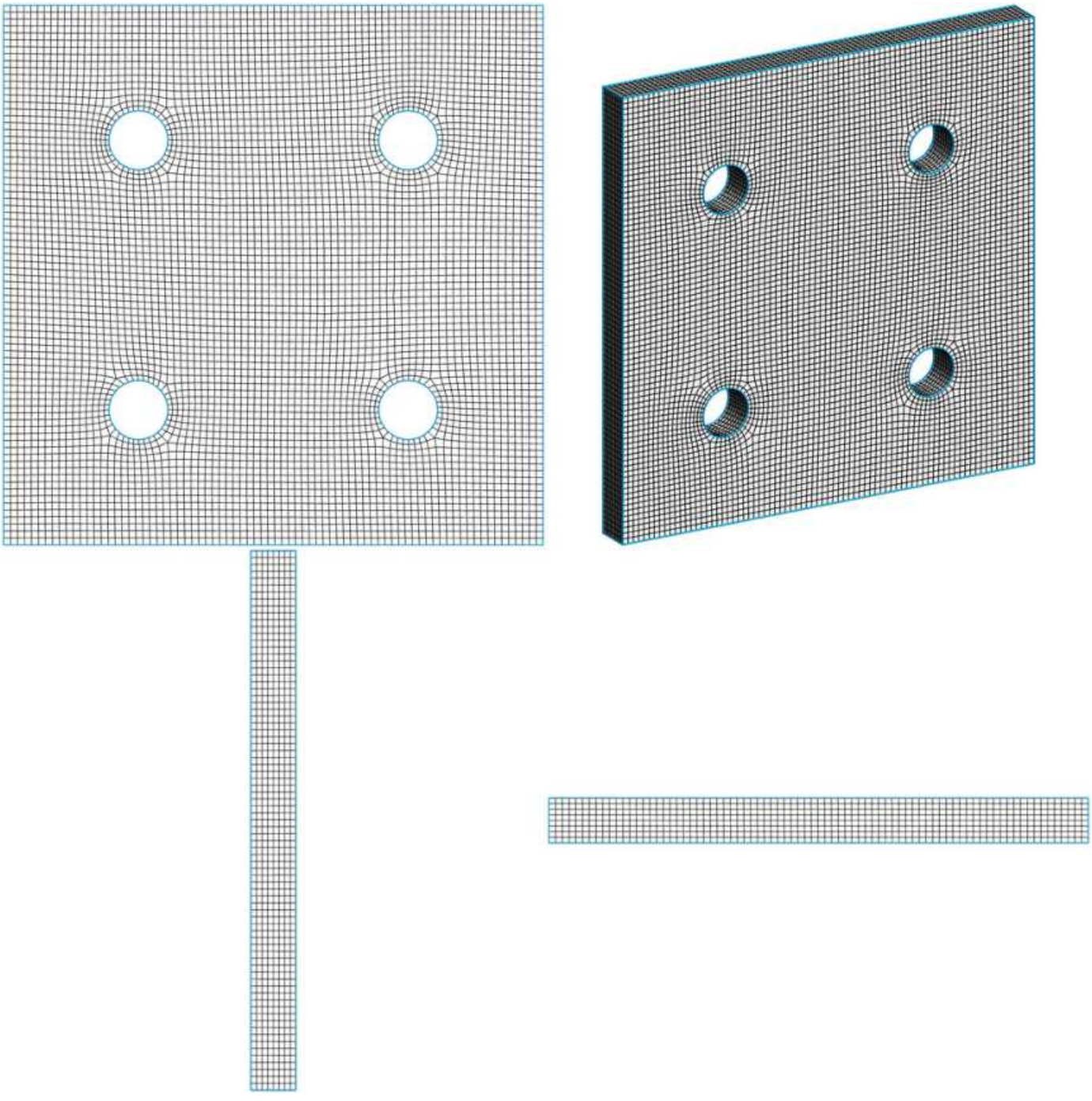


Model: 00008858 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 32 singularities detected
Timings: 9.02921 sec to generate the unstructured mesh, 1.40857 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15622	16568	180	40
Quasi-structured	15462	16408	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.291661	0.940107	1.67968	0.45819	0.97758	0.991951
Quasi-structured	0.469373	0.942572	1.64816	0.709437	0.991416	0.996782

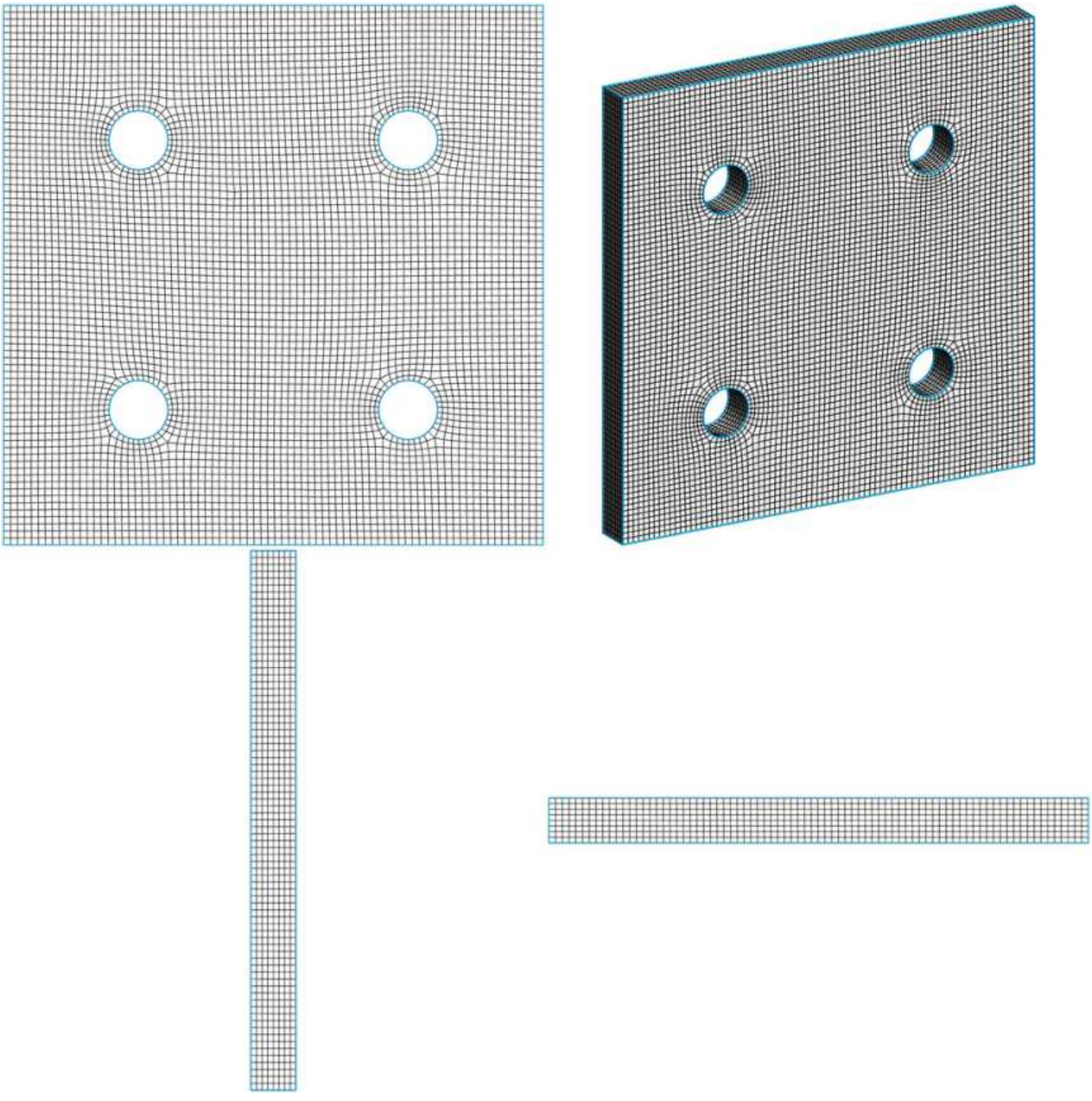


Model: 00008861 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 32 singularities detected
Timings: 13.2433 sec to generate the unstructured mesh, 2.22558 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15598	16544	182	39
Quasi-structured	15482	16428	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.291488	0.940888	1.67987	0.458029	0.976987	0.990299
Quasi-structured	0.470626	0.941997	1.65108	0.704108	0.991175	0.996812



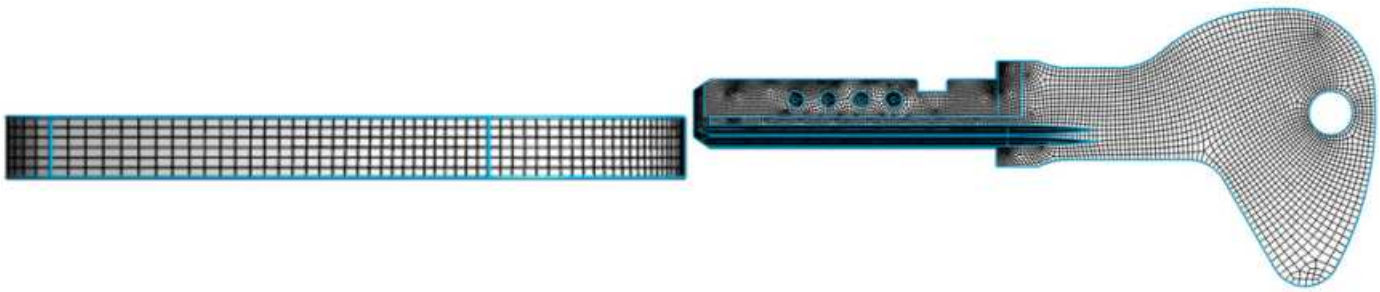
Model: 00008864 (from ABC dataset)
CAD: 143 corners, 210 curves, 82 faces
Cross field: 143 singularities detected
Timings: 14.5922 sec to generate the unstructured mesh, 128.162 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	39696	46513	2580	186
Quasi-structured	40457	47274	1097	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0245177	0.360178	1.93121	0.197992	0.925363	0.972658
Quasi-structured	0.0170071	0.359515	2.06213	0.198413	0.925056	0.958365





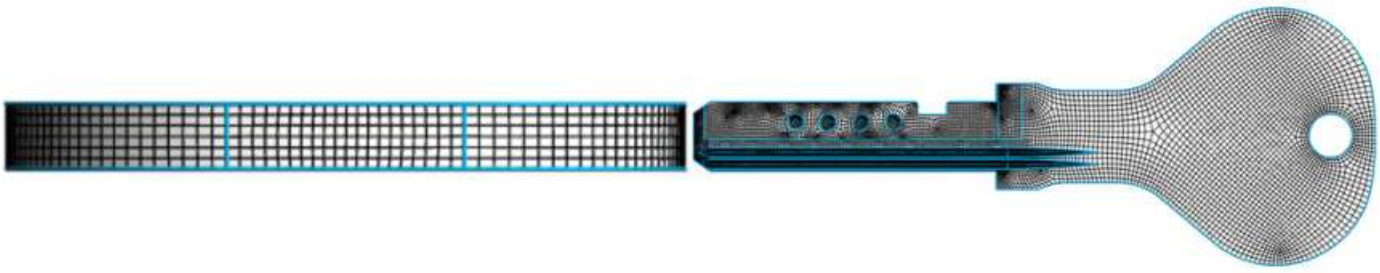
Model: 00008865 (from ABC dataset)
CAD: 139 corners, 204 curves, 80 faces
Cross field: 143 singularities detected
Timings: 9.44716 sec to generate the unstructured mesh, 77.8632 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40144	46925	2740	220
Quasi-structured	40687	47468	1027	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0244227	0.369618	1.4831	0.197647	0.922607	0.974884
Quasi-structured	0.0151474	0.366747	1.78243	0.17818	0.930167	0.964789





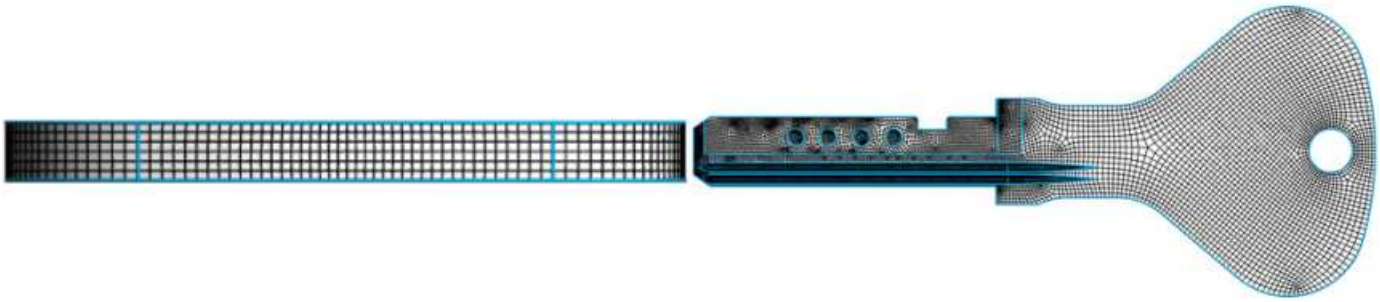
Model: 00008866 (from ABC dataset)
CAD: 139 corners, 204 curves, 80 faces
Cross field: 139 singularities detected
Timings: 15.0075 sec to generate the unstructured mesh, 128.121 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	41048	47857	2657	205
Quasi-structured	41541	48350	899	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0215615	0.371616	1.54846	0.199335	0.926412	0.974908
Quasi-structured	0.0151374	0.369277	1.70519	0.17973	0.924199	0.953862





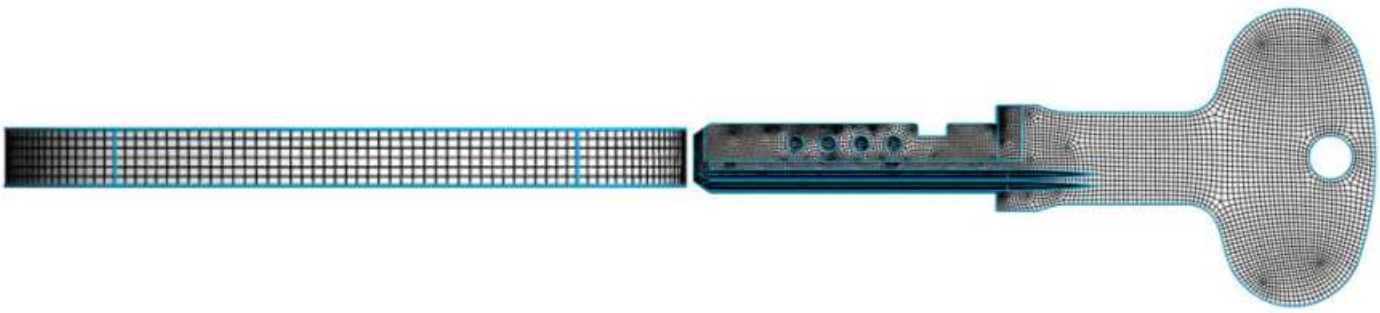
Model: 00008867 (from ABC dataset)
CAD: 139 corners, 204 curves, 80 faces
Cross field: 151 singularities detected
Timings: 10.4509 sec to generate the unstructured mesh, 69.2123 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40604	47433	2751	200
Quasi-structured	41413	48242	1185	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0198149	0.367792	1.50706	0.197863	0.923376	0.973689
Quasi-structured	0.0150228	0.365415	1.45584	0.171491	0.930283	0.963973





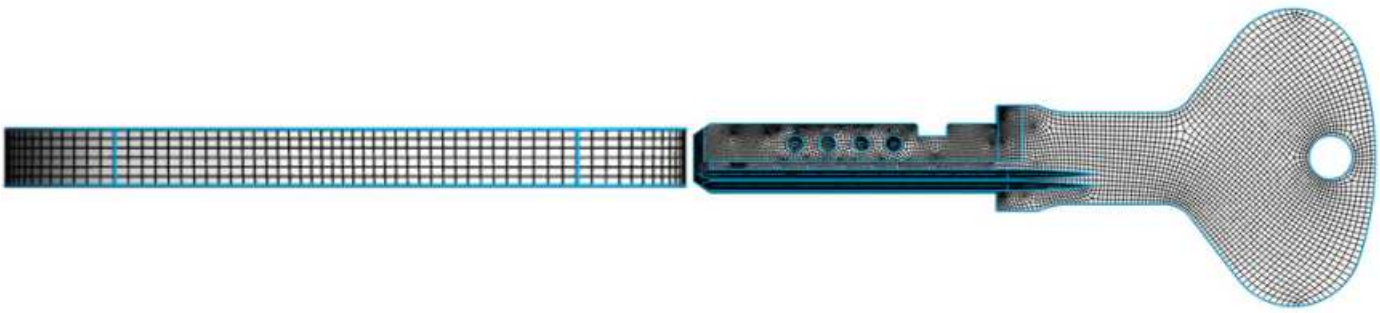
Model: 00008868 (from ABC dataset)
CAD: 139 corners, 204 curves, 80 faces
Cross field: 143 singularities detected
Timings: 14.7885 sec to generate the unstructured mesh, 90.7338 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40080	46879	2735	205
Quasi-structured	40503	47302	1069	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0198149	0.368859	1.68542	0.199279	0.921752	0.970343
Quasi-structured	0.014976	0.365396	1.63235	0.193916	0.928895	0.95964





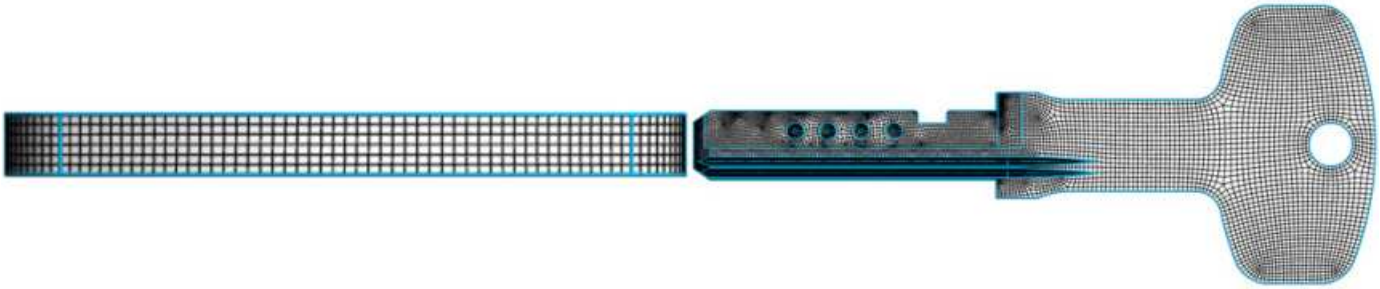
Model: 00008869 (from ABC dataset)
CAD: 147 corners, 216 curves, 84 faces
Cross field: 147 singularities detected
Timings: 9.05262 sec to generate the unstructured mesh, 72.049 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40194	47075	2782	220
Quasi-structured	40966	47847	989	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.026175	0.367139	1.54464	0.12852	0.921643	0.972723
Quasi-structured	0.0150404	0.364547	1.51378	0.170387	0.928073	0.959985





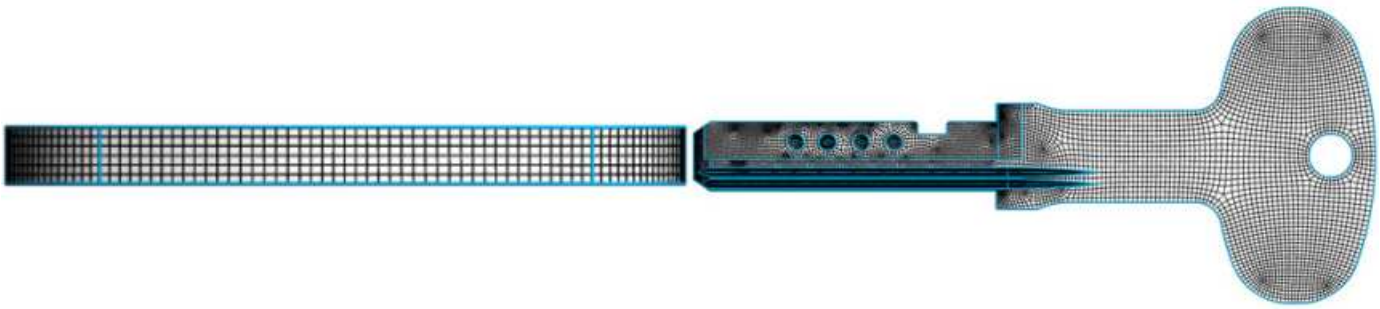
Model: 00008870 (from ABC dataset)
CAD: 147 corners, 216 curves, 84 faces
Cross field: 147 singularities detected
Timings: 14.4253 sec to generate the unstructured mesh, 123.732 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40452	47331	2789	211
Quasi-structured	41264	48143	1096	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0245272	0.368466	1.51144	0.198093	0.921653	0.971053
Quasi-structured	0.0150404	0.36456	1.51978	0.173838	0.932682	0.965411





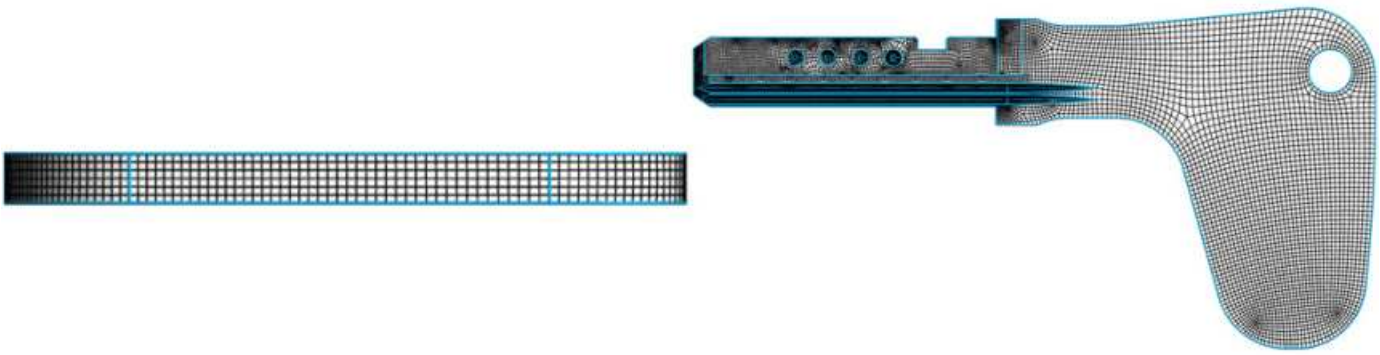
Model: 00008871 (from ABC dataset)
CAD: 143 corners, 210 curves, 82 faces
Cross field: 137 singularities detected
Timings: 14.4675 sec to generate the unstructured mesh, 87.7425 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	41034	47887	2594	207
Quasi-structured	41368	48221	1071	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0245754	0.38413	1.60354	0.169921	0.926627	0.974361
Quasi-structured	0.0182724	0.384068	1.9419	0.17712	0.927828	0.961902



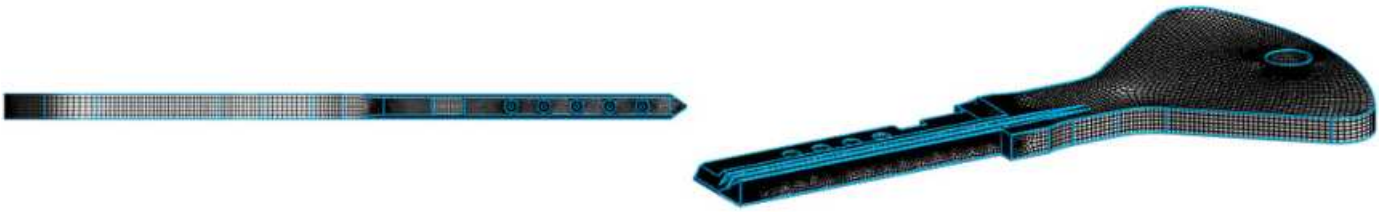


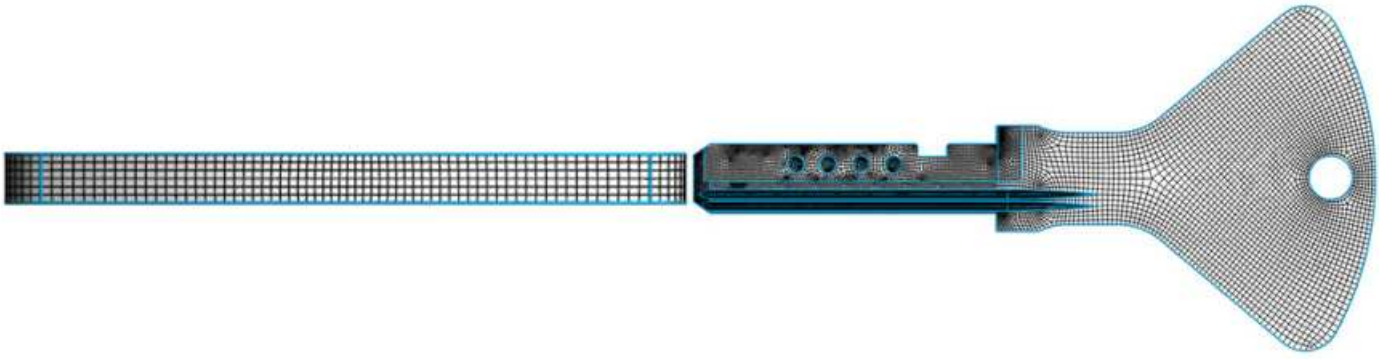
Model: 00008872 (from ABC dataset)
CAD: 139 corners, 204 curves, 80 faces
Cross field: 140 singularities detected
Timings: 13.9488 sec to generate the unstructured mesh, 100.017 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40972	47765	2629	209
Quasi-structured	41860	48653	1036	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0188499	0.374727	1.5662	0.00176279	0.924788	0.974826
Quasi-structured	0.015859	0.371627	1.80924	0.181138	0.927665	0.960338



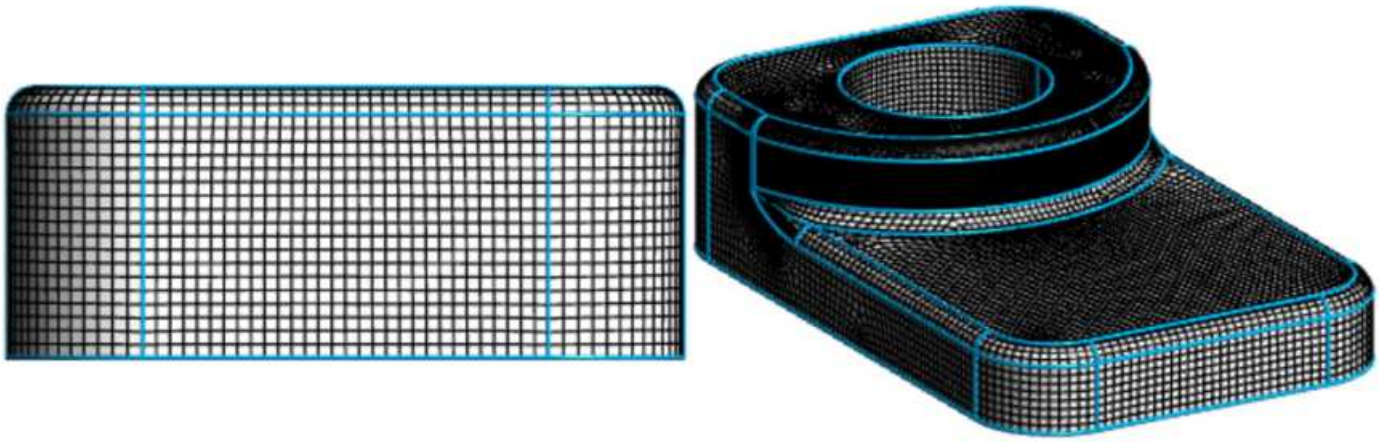


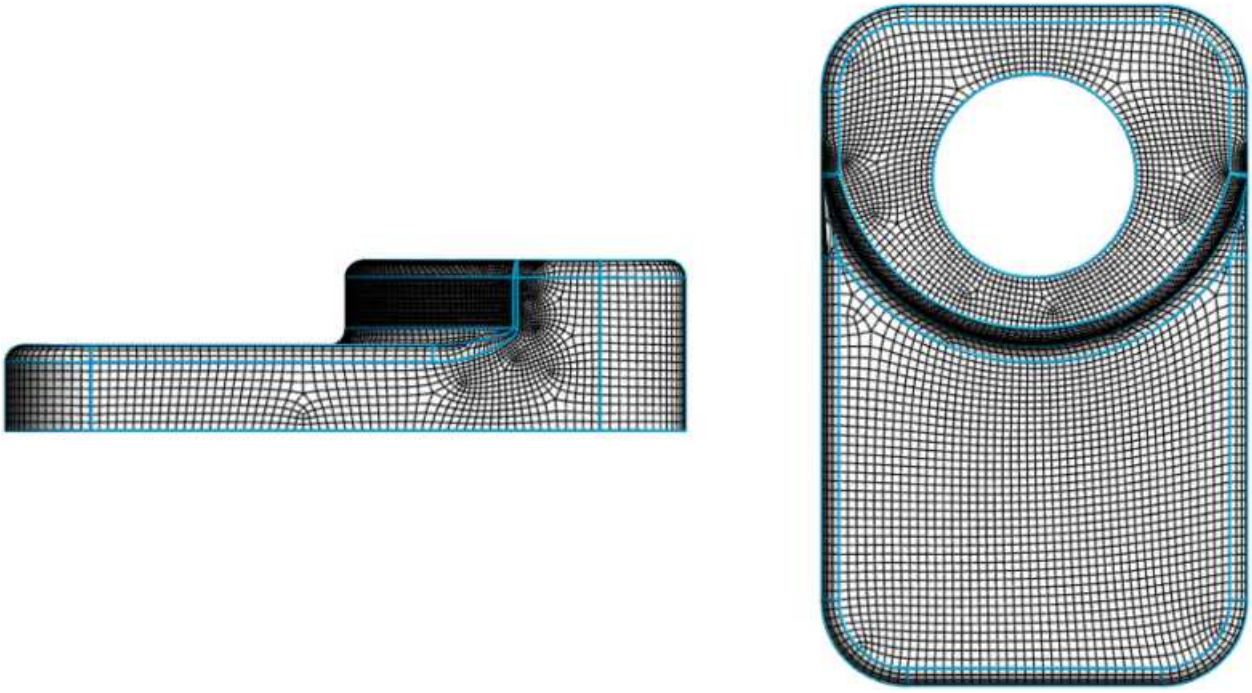
Model: 00008877 (from ABC dataset)
CAD: 64 corners, 107 curves, 45 faces
Cross field: 26 singularities detected
Timings: 10.3242 sec to generate the unstructured mesh, 8.282 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24780	27451	499	64
Quasi-structured	25464	28135	147	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00804515	0.402618	2.57779	0.007158	0.912365	0.992677
Quasi-structured	0.00804515	0.397631	2.57779	0.007158	0.926358	0.991368



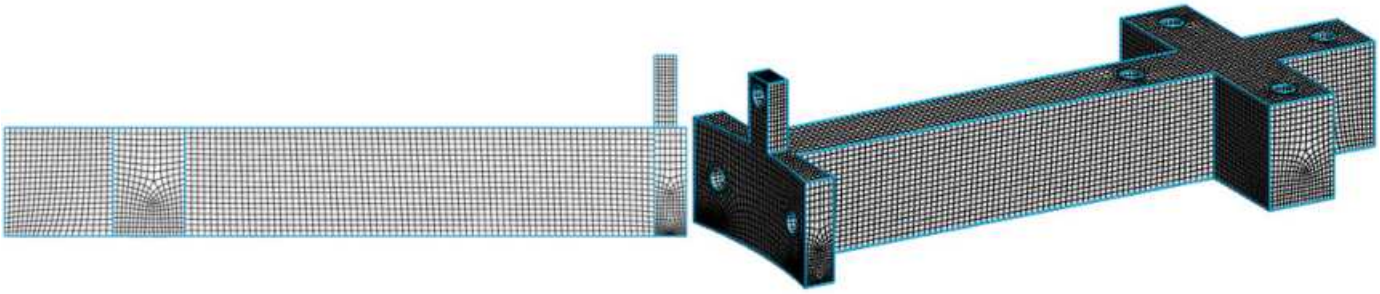


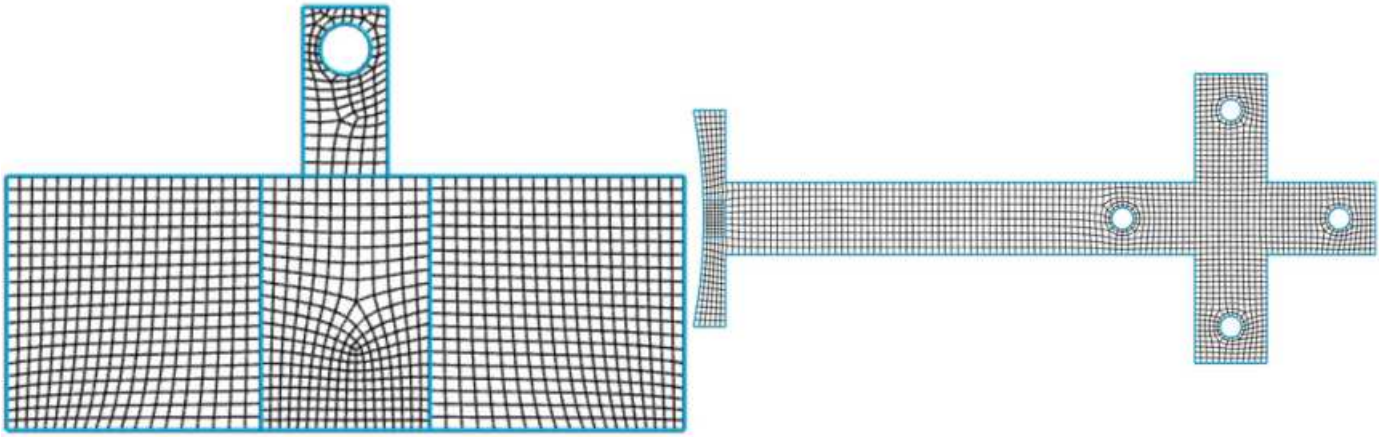
Model: 00008896 (from ABC dataset)
CAD: 148 corners, 221 curves, 89 faces
Cross field: 60 singularities detected
Timings: 10.8586 sec to generate the unstructured mesh, 48.6967 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29138	33550	994	177
Quasi-structured	28986	33398	345	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.000841845	0.540276	1.40925	0.0316538	0.930376	0.986627
Quasi-structured	0.00196074	0.542744	1.45743	0.0697411	0.943204	0.985366



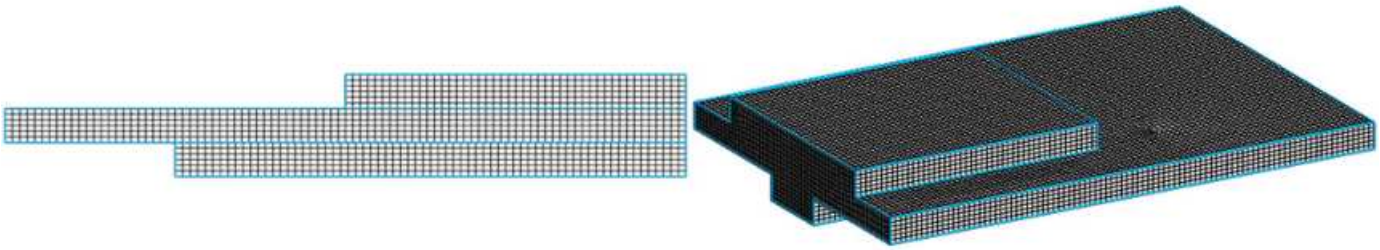


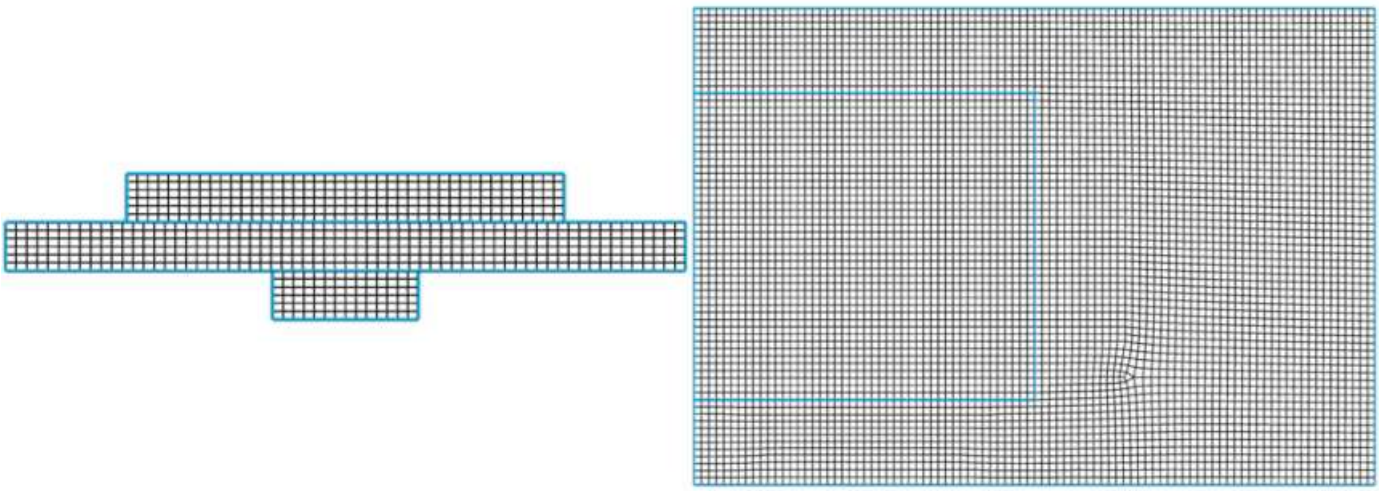
Model: 00008906 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 9.68008 sec to generate the unstructured mesh, 1.18086 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15624	16906	68	0
Quasi-structured	15782	17064	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0881644	0.212377	0.34241	0.633858	0.983517	0.99958
Quasi-structured	0.102115	0.211033	0.29451	0.791119	0.99109	0.999155



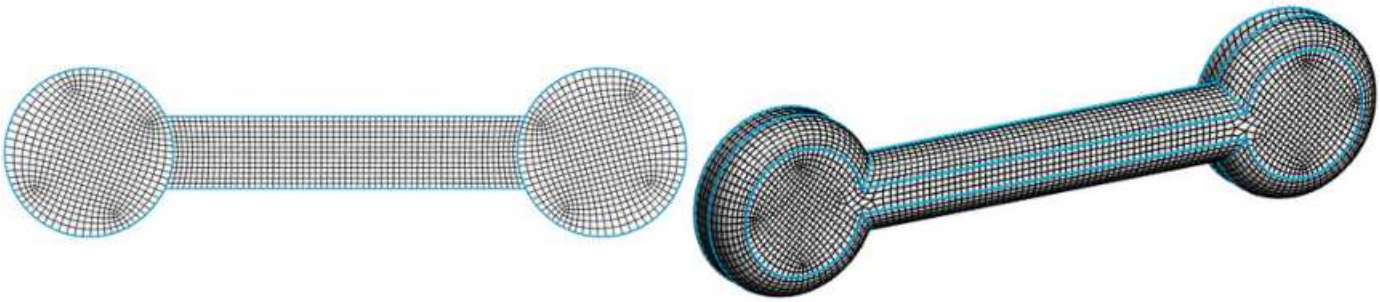


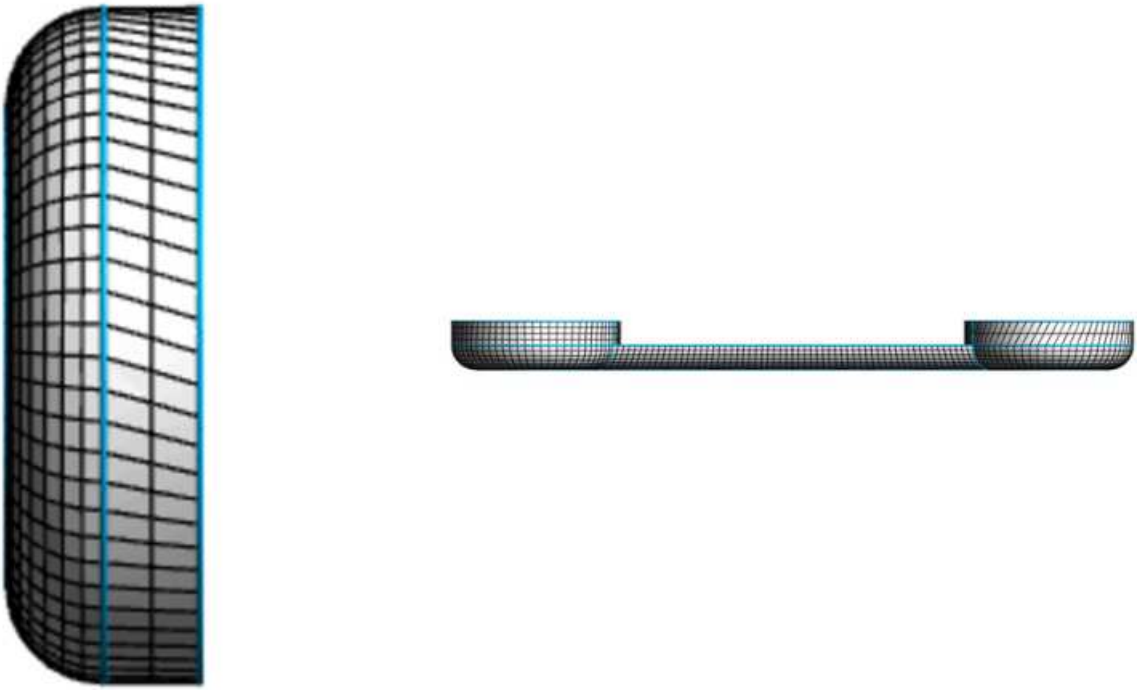
Model: 00008923 (from ABC dataset)
CAD: 11 corners, 19 curves, 10 faces
Cross field: 16 singularities detected
Timings: 3.71072 sec to generate the unstructured mesh, 0.660292 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5476	6158	72	7
Quasi-structured	5431	6113	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.391324	1.21893	2.61878	0.328256	0.942955	0.964168
Quasi-structured	0.496532	1.21882	2.86301	0.603334	0.959985	0.982061



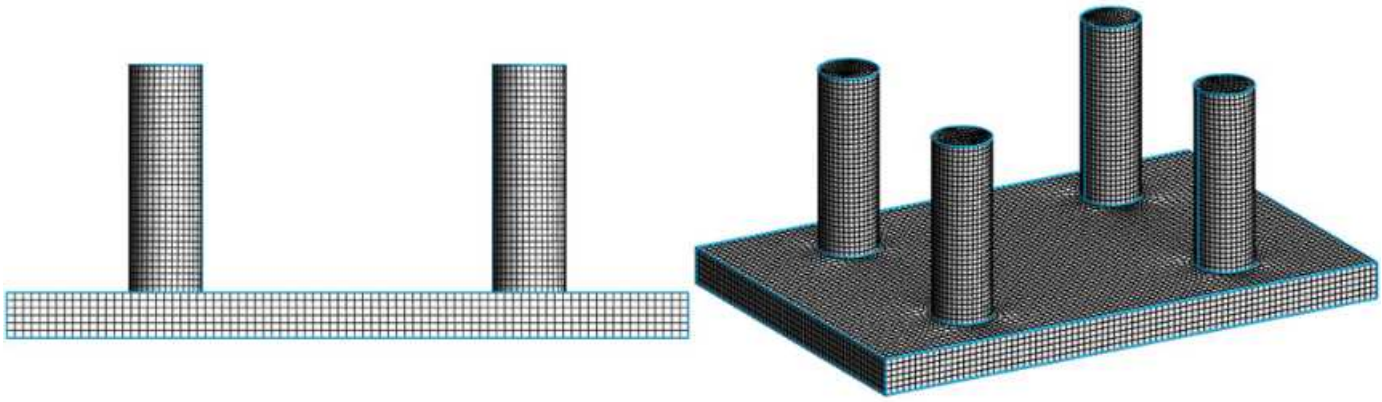


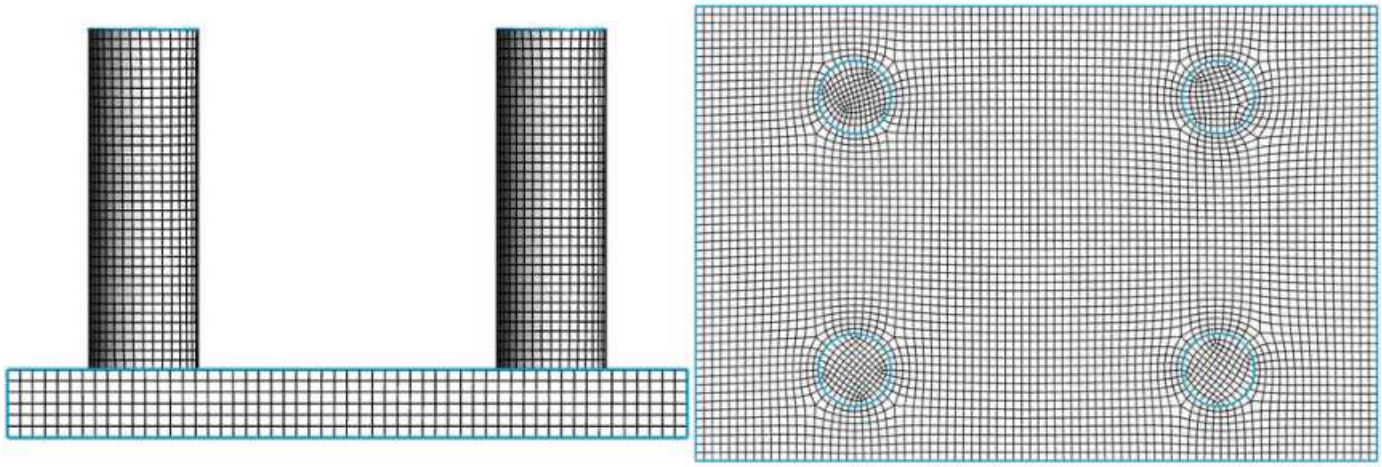
Model: 00008929 (from ABC dataset)
CAD: 16 corners, 24 curves, 14 faces
Cross field: 32 singularities detected
Timings: 12.7493 sec to generate the unstructured mesh, 1.33919 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15804	16662	136	142
Quasi-structured	16006	16864	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.250645	0.839648	1.44192	0.164834	0.985885	0.998761
Quasi-structured	0.291359	0.832378	1.57358	0.753682	0.995274	0.99974



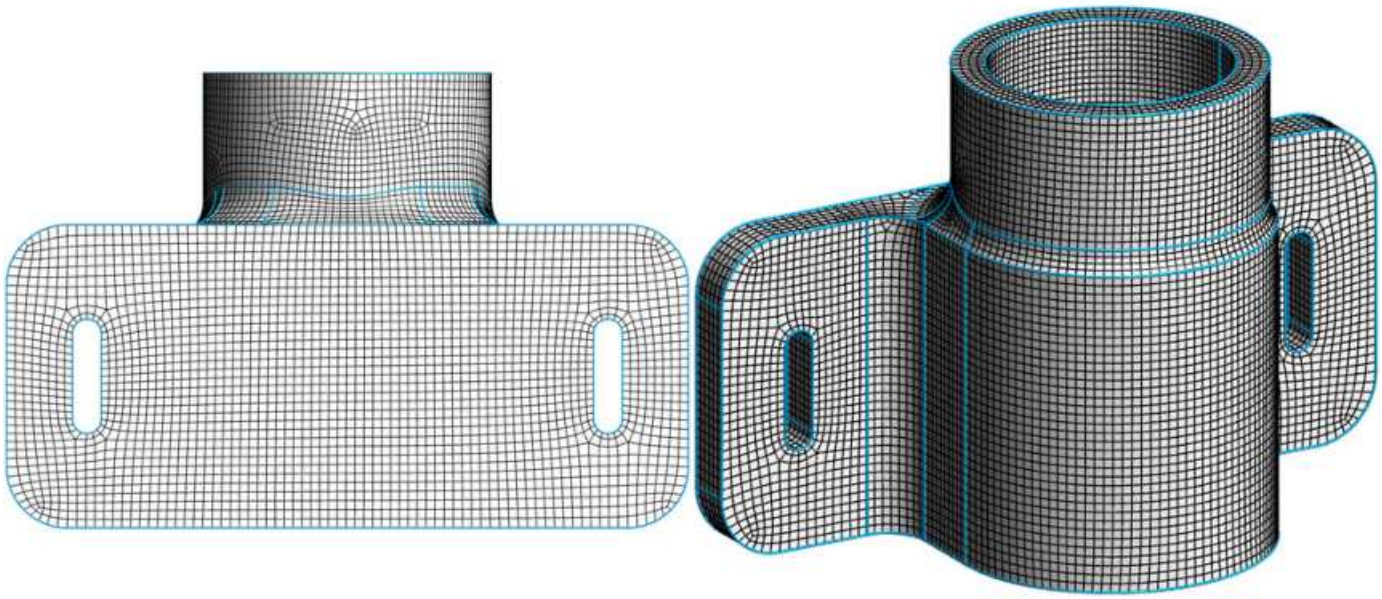


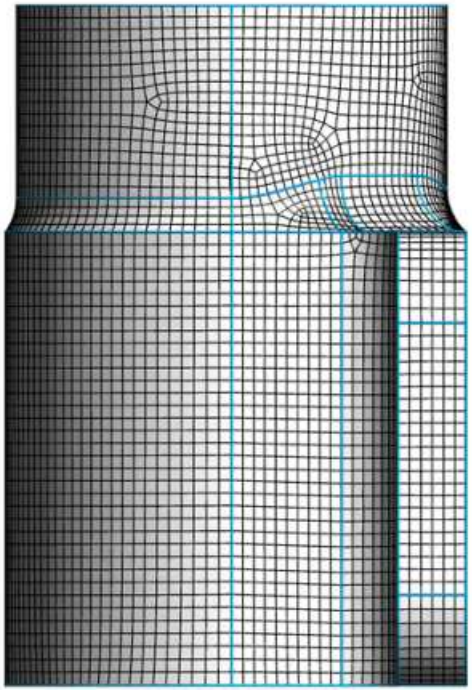
Model: 00008942 (from ABC dataset)
CAD: 60 corners, 95 curves, 38 faces
Cross field: 36 singularities detected
Timings: 13.2341 sec to generate the unstructured mesh, 2.16513 sec to make it quasi-structured
Mesh topology:

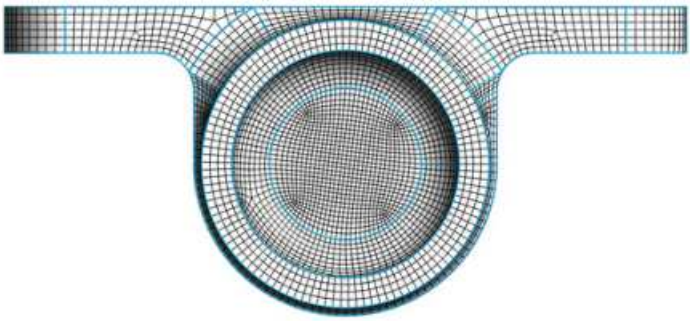
	# quads	# vertices	# irregular	# very irregular
Unstructured	21648	23312	224	91
Quasi-structured	21962	23626	78	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.149461	0.608729	1.18243	0.413072	0.978392	0.997508
Quasi-structured	0.163252	0.603027	1.16828	0.51175	0.990783	0.998821





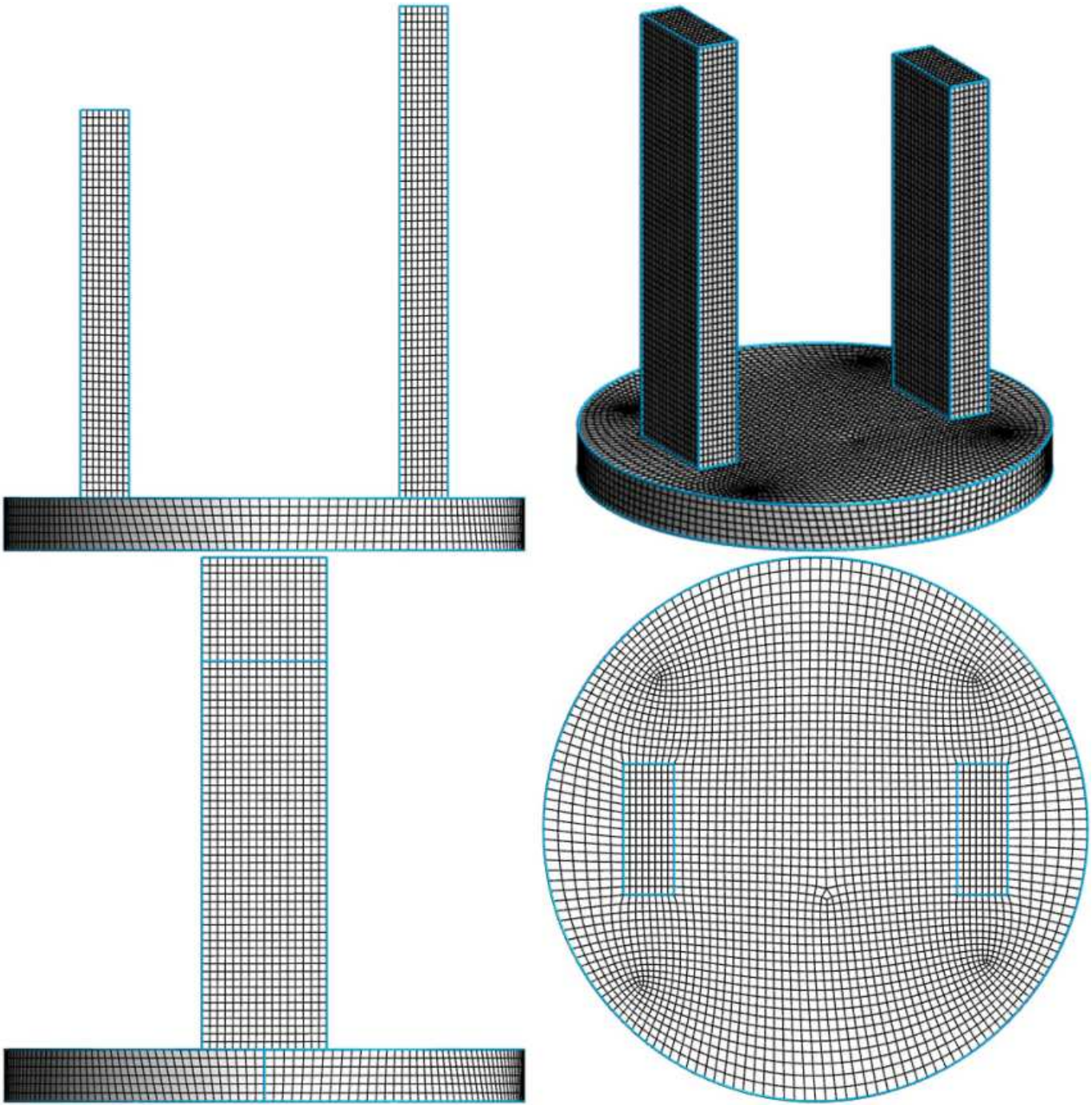


Model: 00008950 (from ABC dataset)
CAD: 18 corners, 27 curves, 13 faces
Cross field: 8 singularities detected
Timings: 11.2004 sec to generate the unstructured mesh, 1.62451 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13330	14328	101	7
Quasi-structured	13180	14178	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0940962	0.286082	0.486822	0.21028	0.981854	0.993401
Quasi-structured	0.103661	0.286652	0.507623	0.815817	0.98959	0.996474

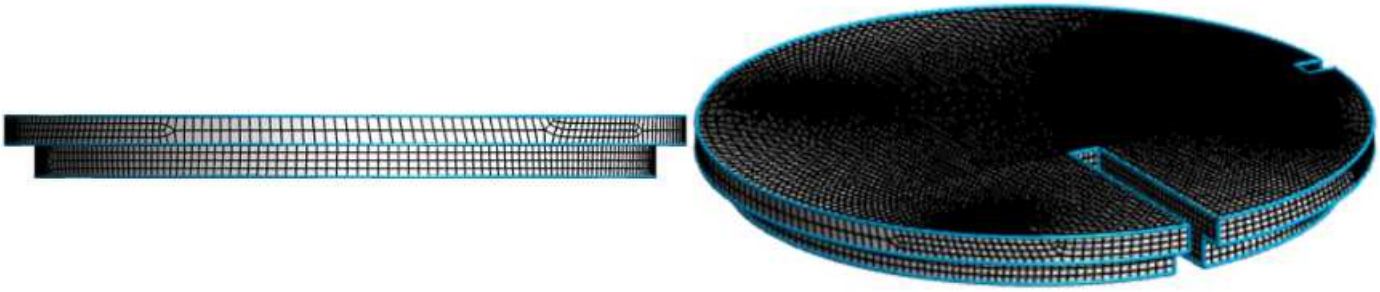


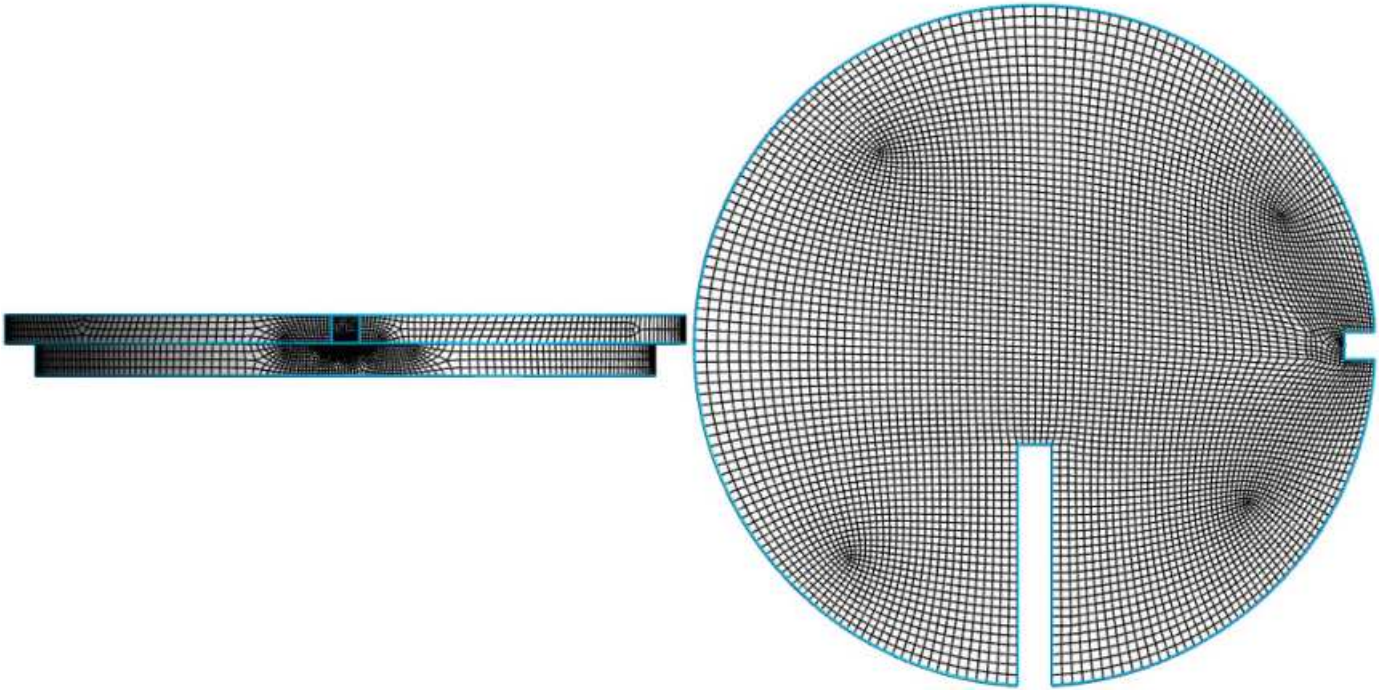
Model: 00008951 (from ABC dataset)
CAD: 22 corners, 34 curves, 14 faces
Cross field: 12 singularities detected
Timings: 11.9309 sec to generate the unstructured mesh, 11.3167 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16722	18080	491	13
Quasi-structured	18364	19722	78	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00282871	0.848647	2.03263	0.0324148	0.954544	0.992681
Quasi-structured	0.0025849	0.822172	1.95999	0.0381334	0.959801	0.986822



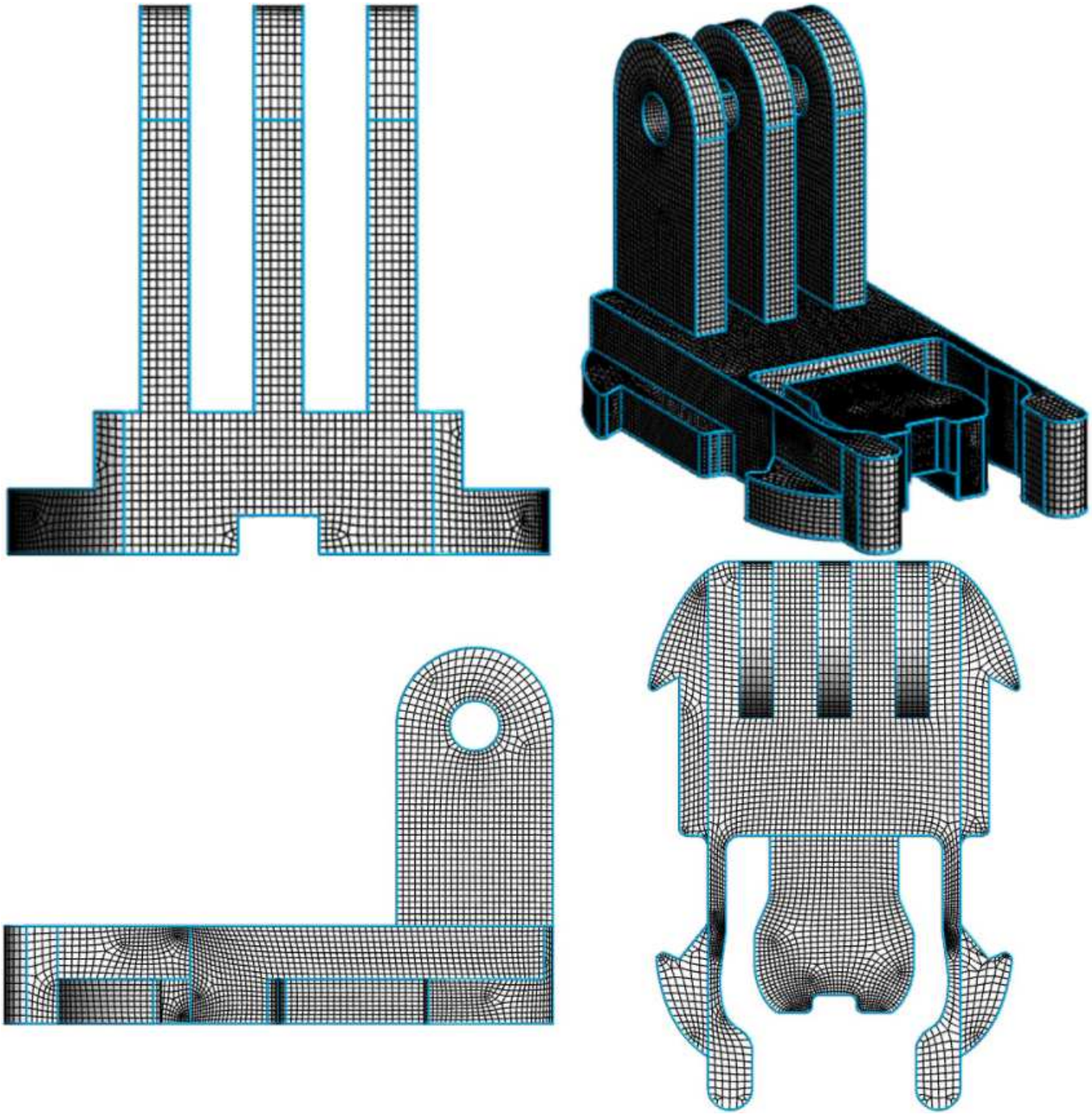


Model: 00008953 (from ABC dataset)
CAD: 176 corners, 265 curves, 91 faces
Cross field: 60 singularities detected
Timings: 11.0796 sec to generate the unstructured mesh, 11.6472 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	34478	39048	1365	79
Quasi-structured	35660	40230	366	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0188541	0.39984	1.07696	0.048675	0.946701	0.98236
Quasi-structured	0.027384	0.393909	1.34885	0.174496	0.966743	0.98546

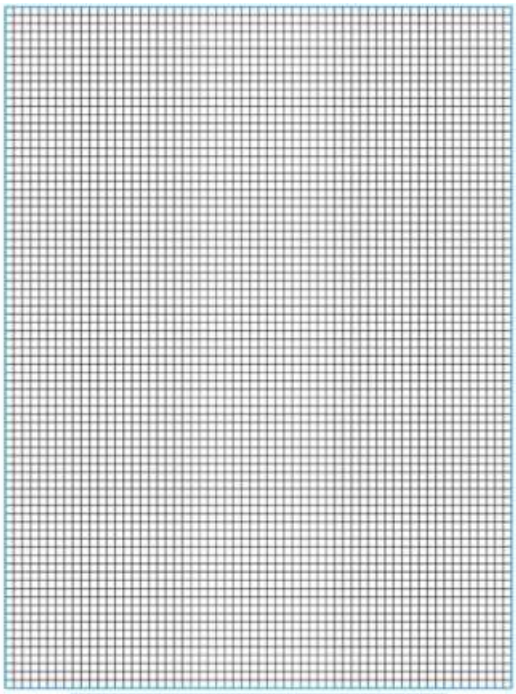


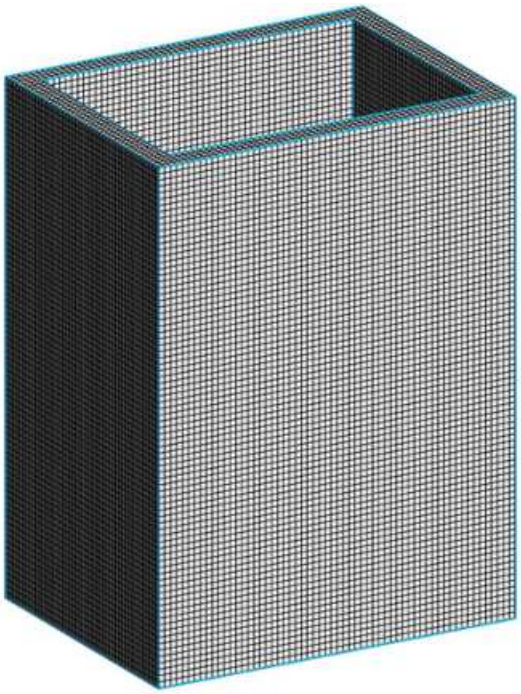
Model: 00008954 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 28.1015 sec to generate the unstructured mesh, 1.62227 sec to make it quasi-structured
Mesh topology:

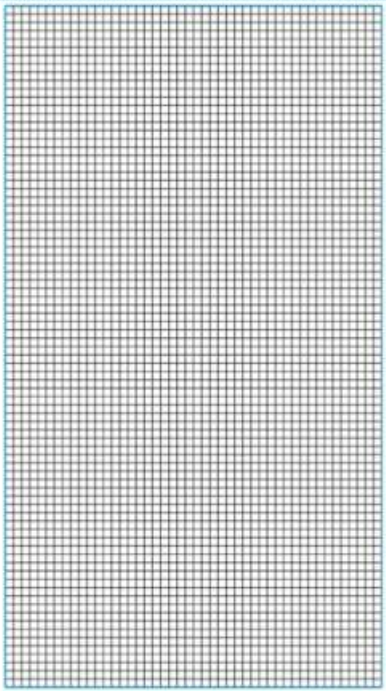
	# quads	# vertices	# irregular	# very irregular
Unstructured	36944	38378	0	0
Quasi-structured	36944	38378	0	0

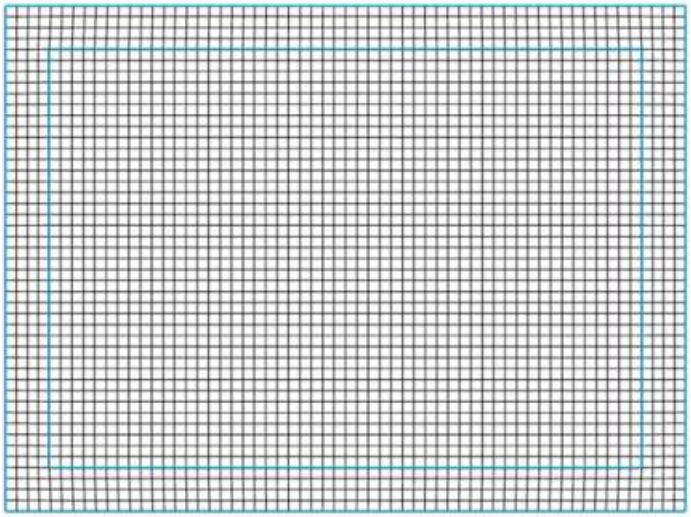
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.378143	0.407344	0.430997	0.992963	0.999777	0.999881
Quasi-structured	0.390439	0.407343	0.415192	0.997224	0.999802	0.999881







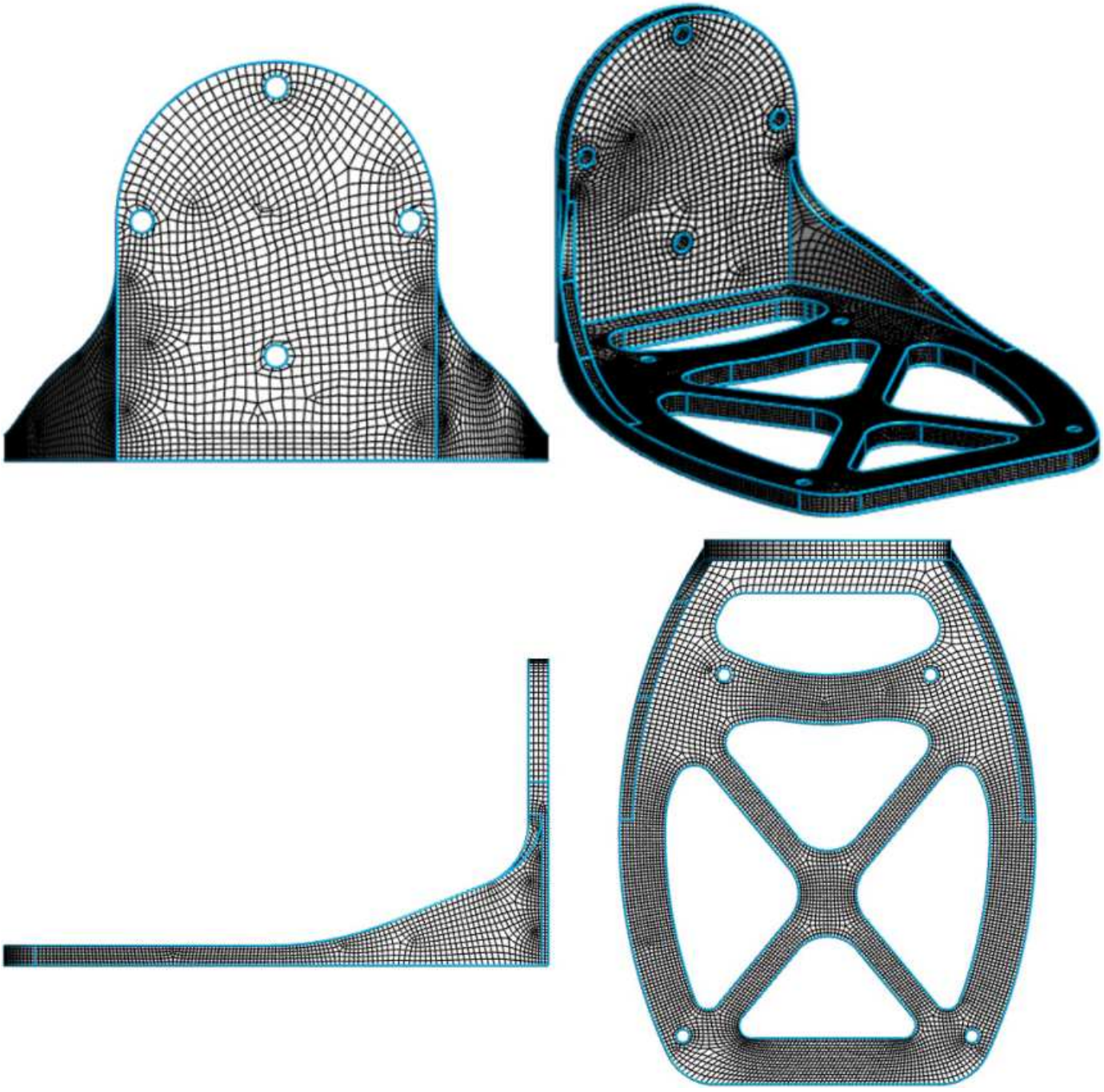


Model: 00008960 (from ABC dataset)
CAD: 136 corners, 206 curves, 72 faces
Cross field: 114 singularities detected
Timings: 20.844 sec to generate the unstructured mesh, 17.2452 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26500	30056	856	77
Quasi-structured	26665	30221	274	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.22186e-05	0.801592	2.31788	3.15949e-05	0.946898	0.988777
Quasi-structured	1.22186e-05	0.80017	4.24374	5.03279e-05	0.954867	0.986823

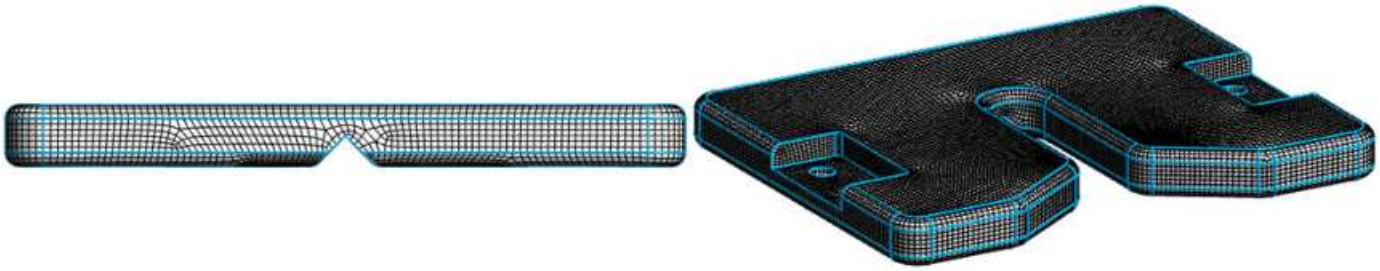


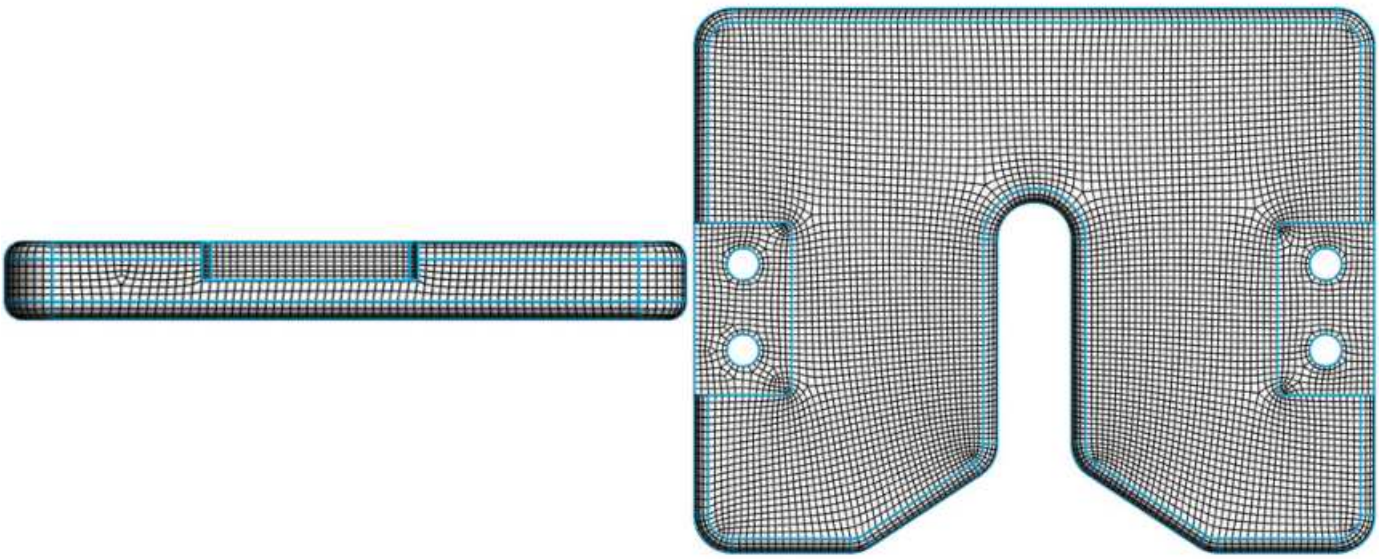
Model: 00008975 (from ABC dataset)
CAD: 122 corners, 201 curves, 81 faces
Cross field: 61 singularities detected
Timings: 12.1986 sec to generate the unstructured mesh, 5.72231 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21050	23805	439	33
Quasi-structured	22677	25432	137	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0264307	0.920272	1.78951	0.0663587	0.960238	0.987617
Quasi-structured	0.225791	0.887325	2.6872	0.381229	0.959938	0.982895



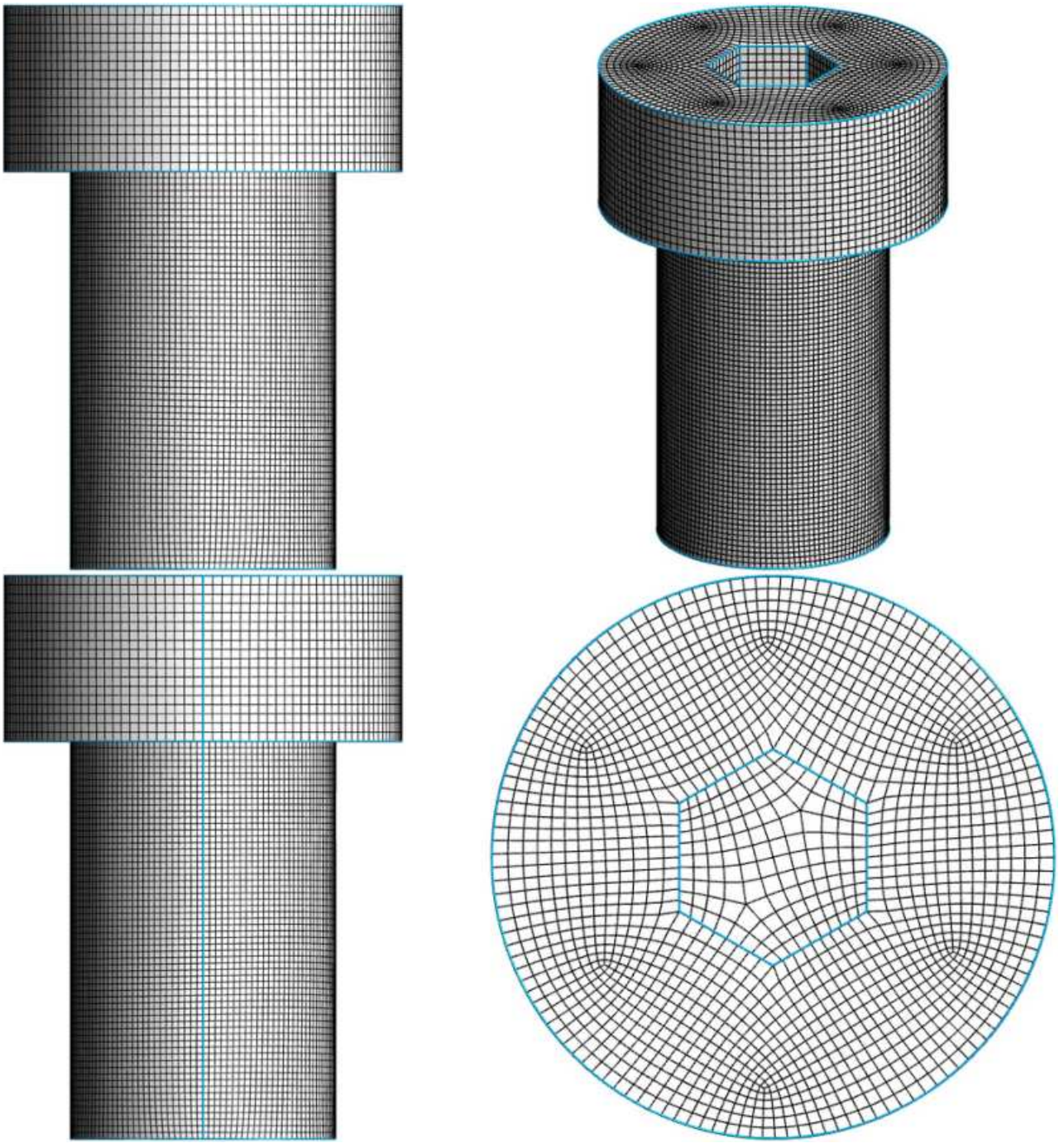


Model: 00008980 (from ABC dataset)
CAD: 16 corners, 24 curves, 12 faces
Cross field: 12 singularities detected
Timings: 10.244 sec to generate the unstructured mesh, 1.13487 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16524	17264	106	83
Quasi-structured	16388	17128	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.119096	0.42417	0.840294	0.431068	0.98676	0.997615
Quasi-structured	0.118904	0.425021	0.996959	0.71941	0.99591	0.999424

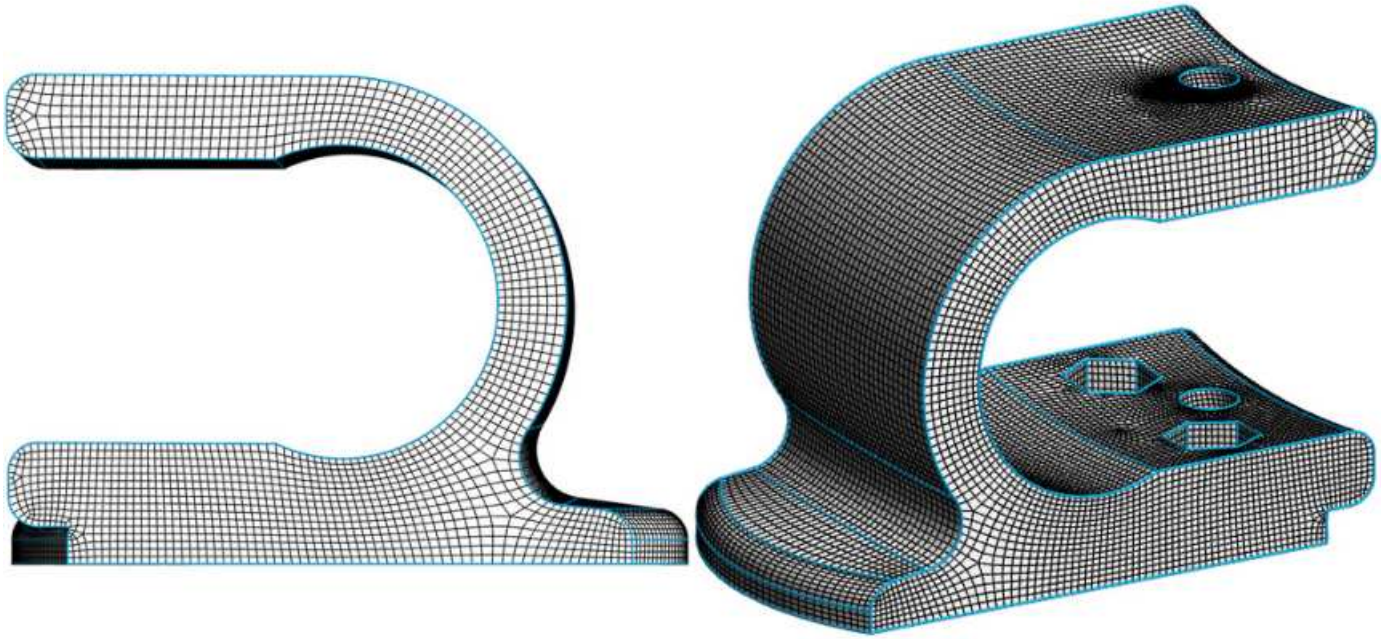


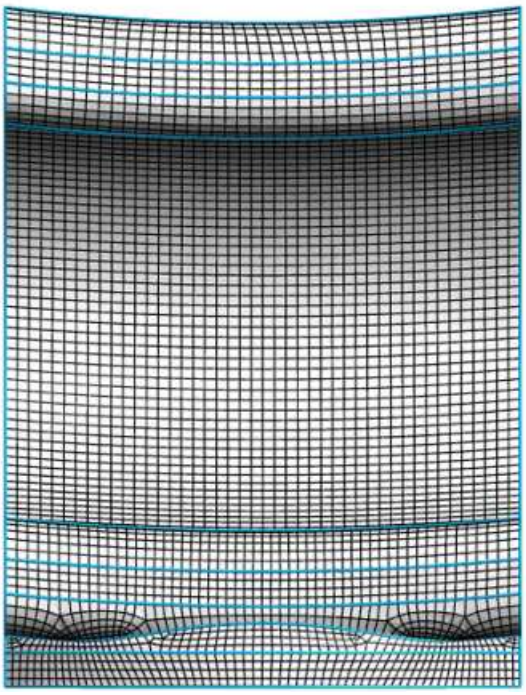
Model: 00008983 (from ABC dataset)
CAD: 86 corners, 128 curves, 47 faces
Cross field: 56 singularities detected
Timings: 20.9218 sec to generate the unstructured mesh, 24.1466 sec to make it quasi-structured
Mesh topology:

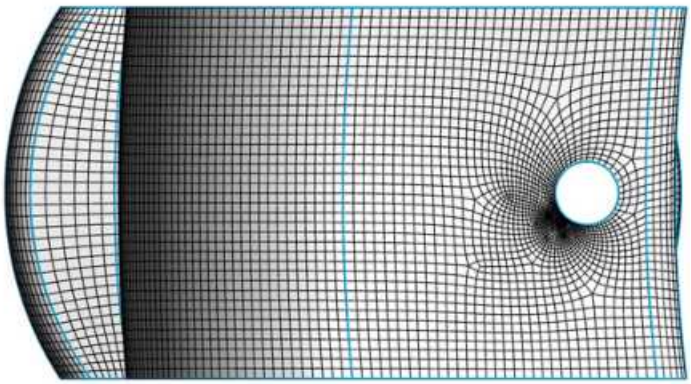
	# quads	# vertices	# irregular	# very irregular
Unstructured	23184	25526	646	84
Quasi-structured	23419	25761	170	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	7.1853e-05	0.785118	1.73795	0.00163175	0.954328	0.989152
Quasi-structured	7.1853e-05	0.779915	2.06612	0.0259448	0.973353	0.991643





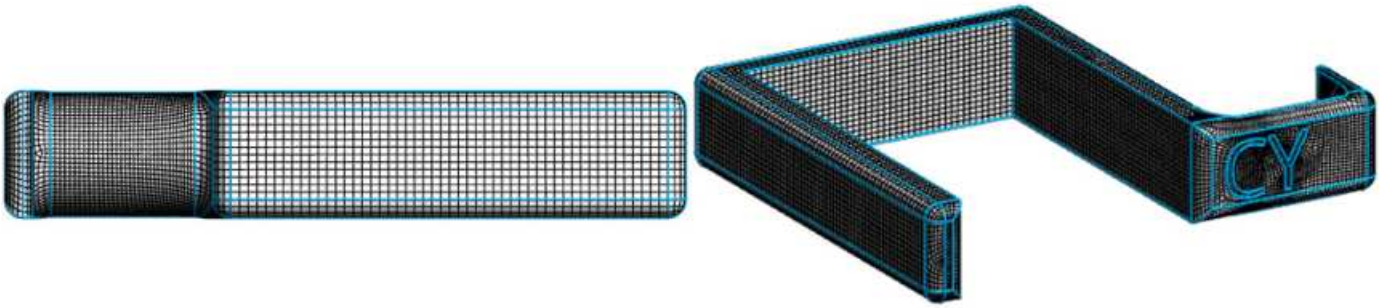


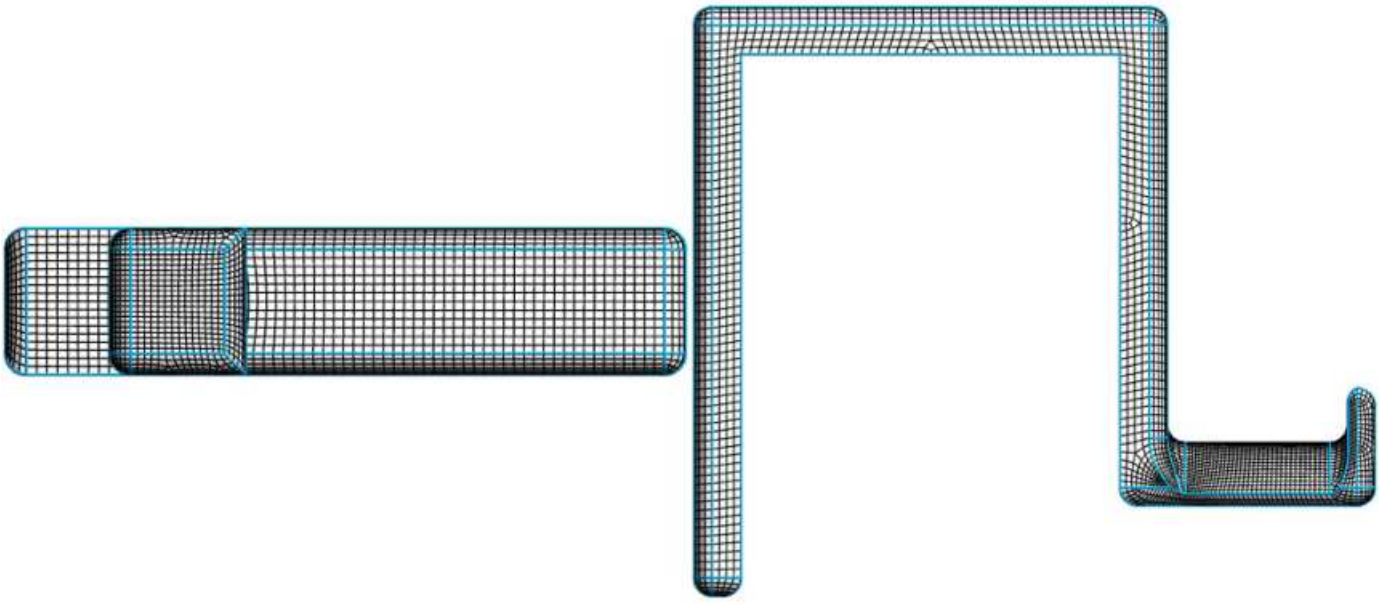
Model: 00008985 (from ABC dataset)
CAD: 106 corners, 183 curves, 73 faces
Cross field: 29 singularities detected
Timings: 8.95991 sec to generate the unstructured mesh, 16.4621 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13540	15981	317	10
Quasi-structured	13430	15871	106	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0359316	0.350391	0.596983	0.154826	0.932804	0.977583
Quasi-structured	0.0422214	0.352087	0.74606	0.293306	0.937036	0.976714



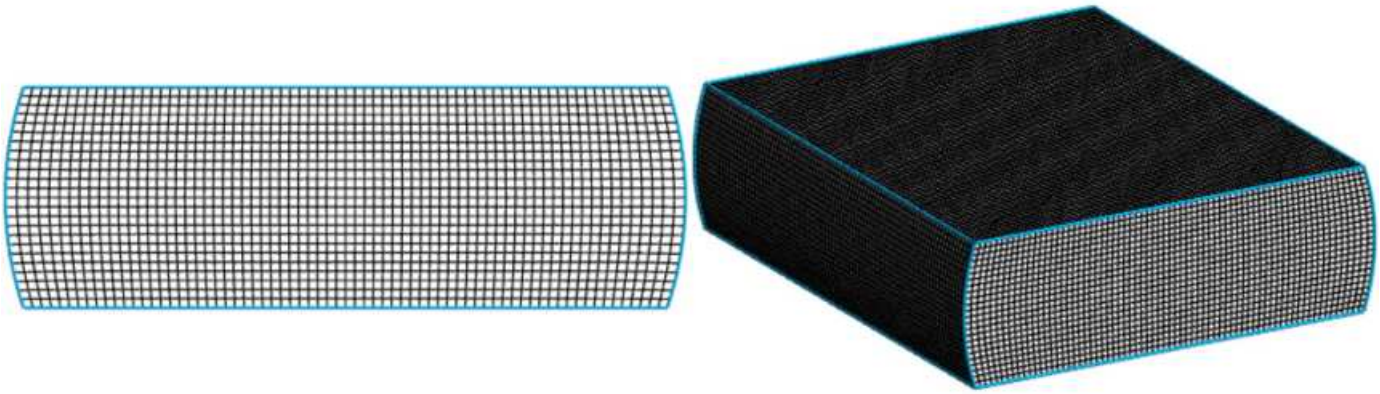


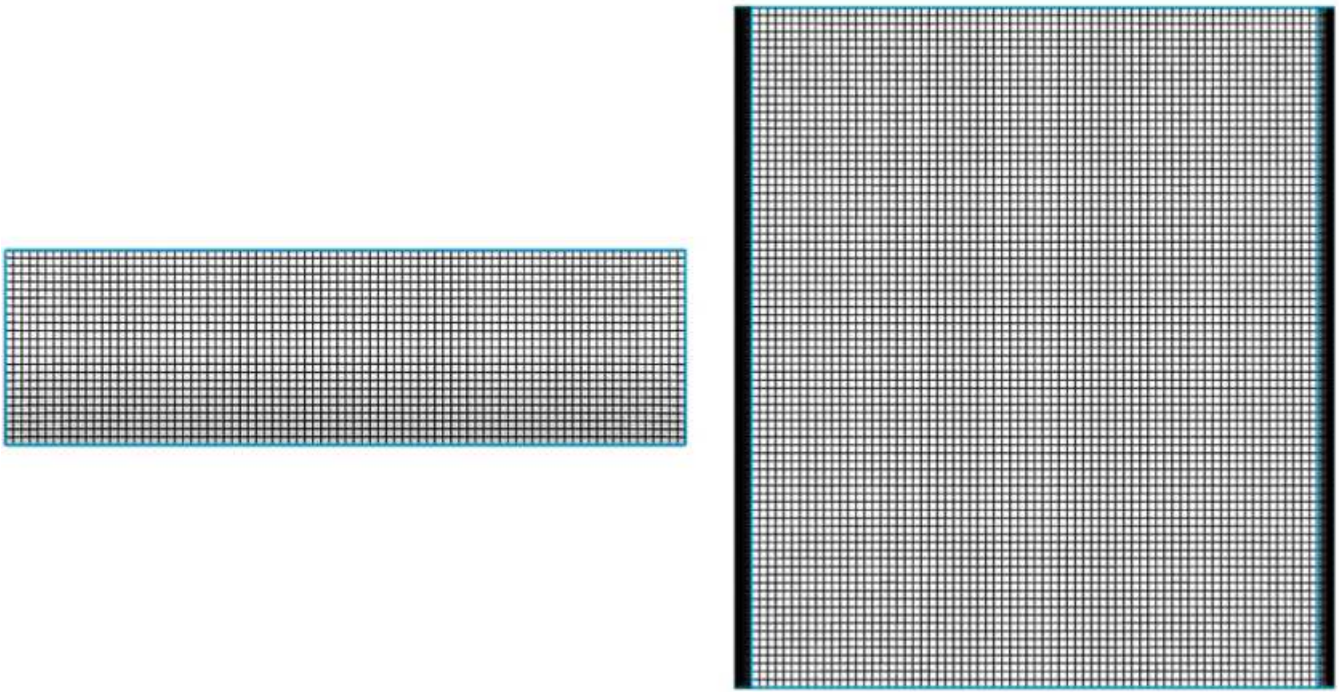
Model: 00008990 (from ABC dataset)
CAD: 136 corners, 204 curves, 86 faces
Cross field: 0 singularities detected
Timings: 35.1753 sec to generate the unstructured mesh, 4.07195 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	42710	46948	36	0
Quasi-structured	42712	46950	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.179423	0.399537	0.626771	0.696295	0.995561	0.996265
Quasi-structured	0.143073	0.39941	0.626002	0.662706	0.99658	0.996267



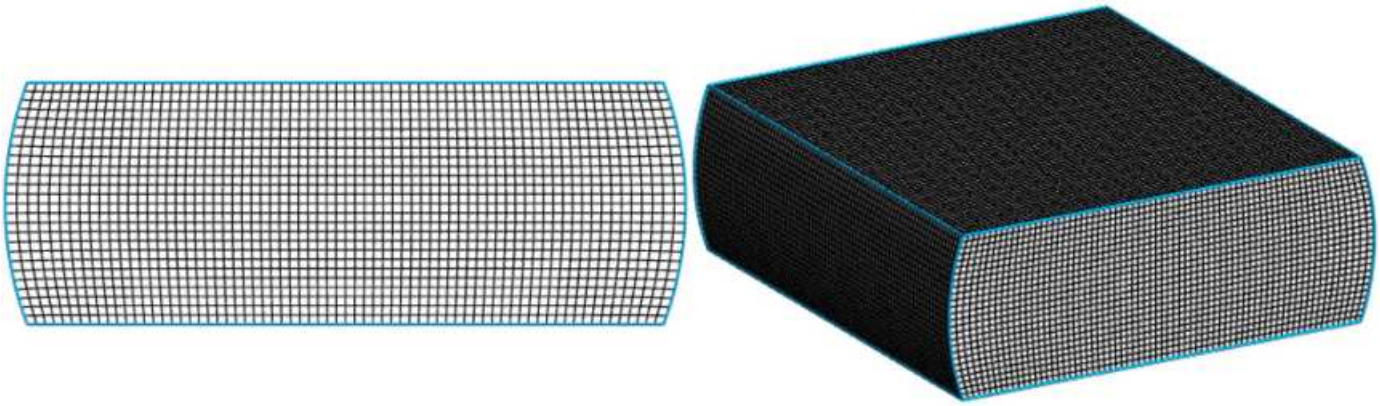


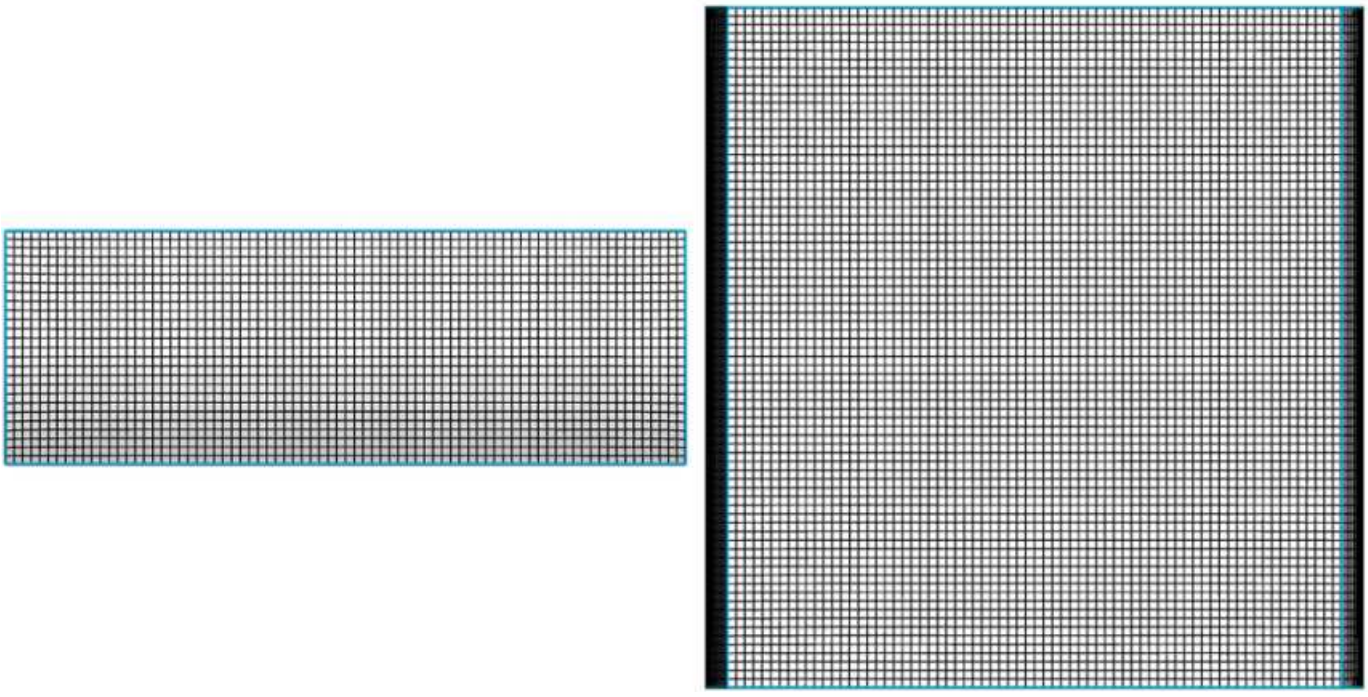
Model: 00008993 (from ABC dataset)
CAD: 16 corners, 24 curves, 11 faces
Cross field: 0 singularities detected
Timings: 22.891 sec to generate the unstructured mesh, 1.8538 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23464	24762	8	0
Quasi-structured	23464	24762	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.234388	0.45793	0.734499	0.584187	0.995847	0.999963
Quasi-structured	0.237536	0.457675	0.770631	0.709283	0.997207	0.999956



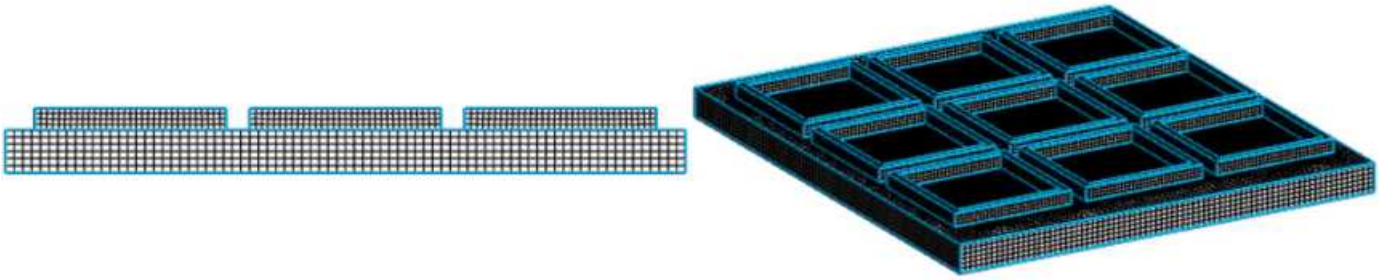


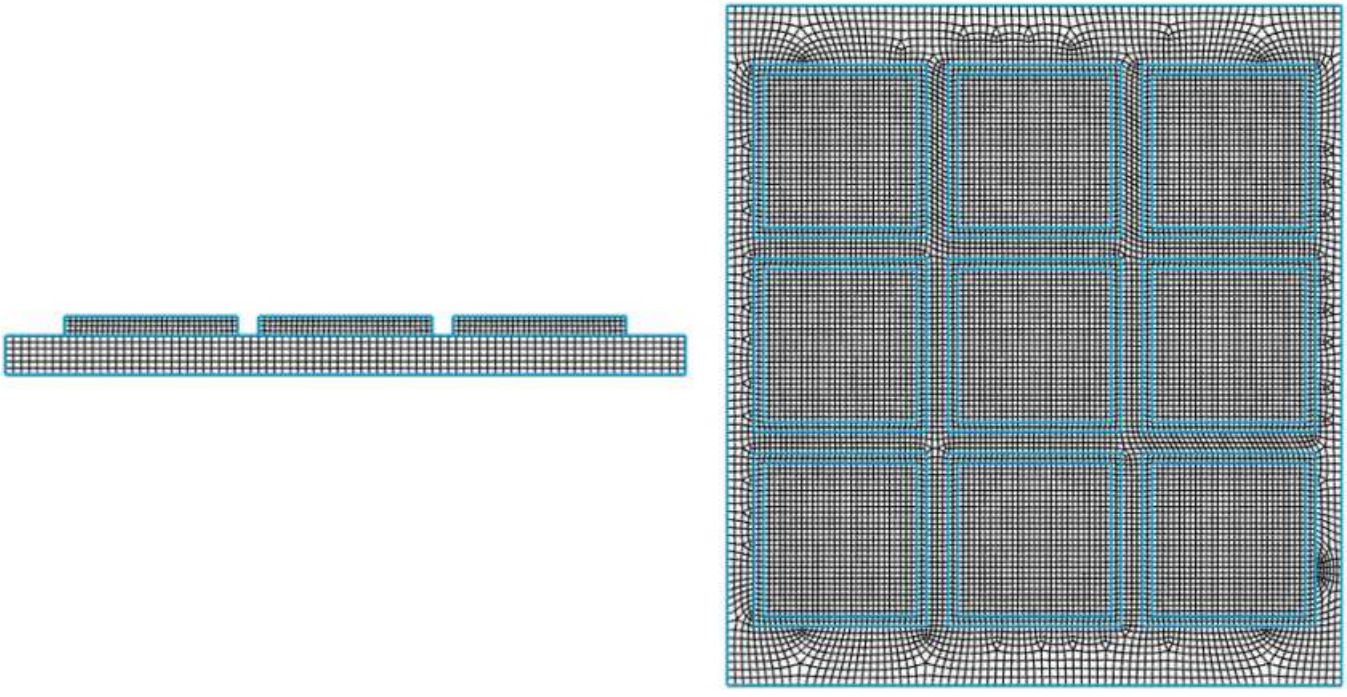
Model: 00008994 (from ABC dataset)
CAD: 152 corners, 228 curves, 96 faces
Cross field: 0 singularities detected
Timings: 10.3912 sec to generate the unstructured mesh, 3.8481 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30340	35706	148	0
Quasi-structured	30364	35730	122	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.113825	0.313878	0.55	0.566819	0.989186	0.998356
Quasi-structured	0.112837	0.313806	0.61484	0.545499	0.990247	0.995425



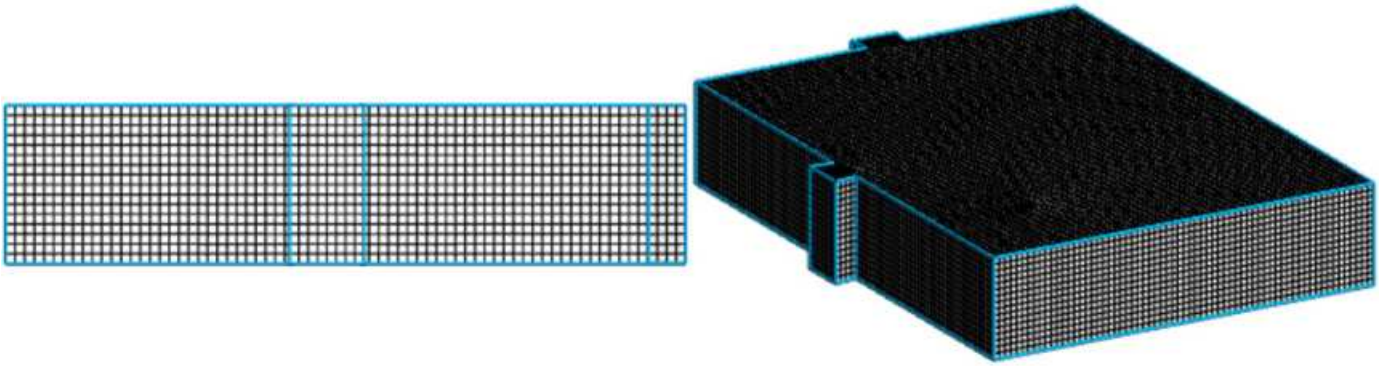


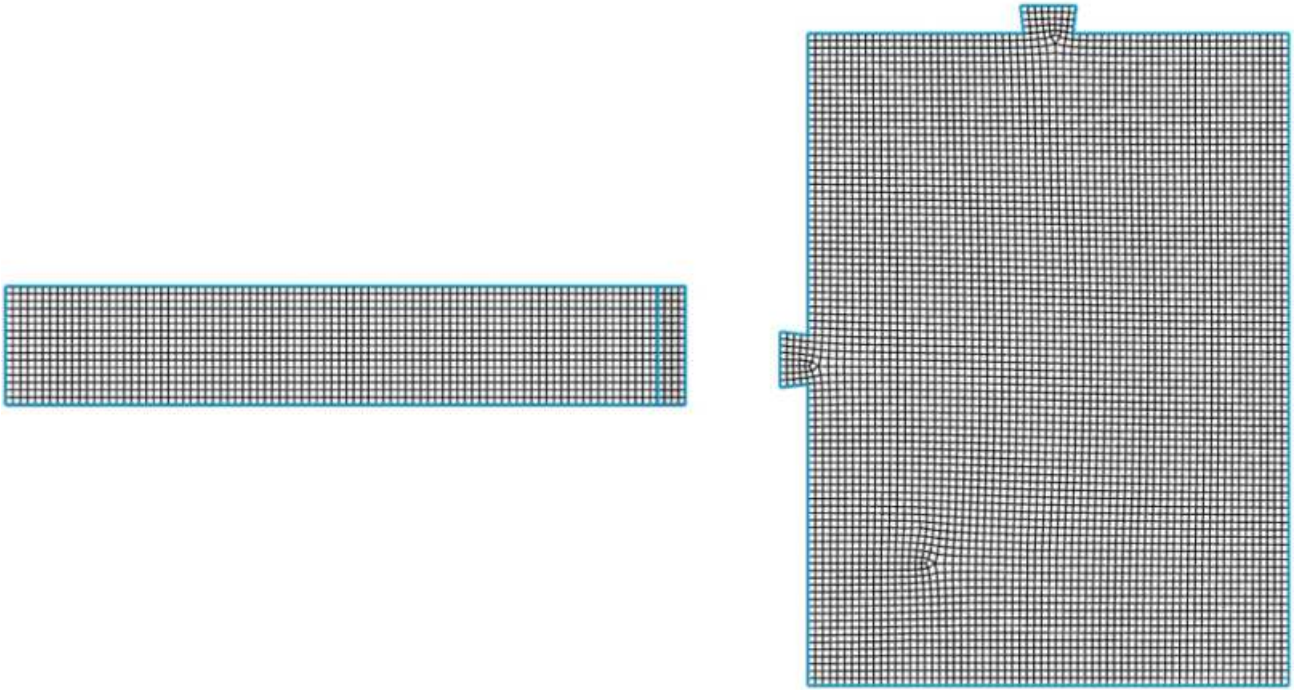
Model: 00009005 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 11.2763 sec to generate the unstructured mesh, 2.53023 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16862	17728	44	0
Quasi-structured	17106	17972	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.195046	0.529219	0.786728	0.617307	0.995862	0.999543
Quasi-structured	0.312515	0.525208	0.694089	0.837977	0.999227	0.999559



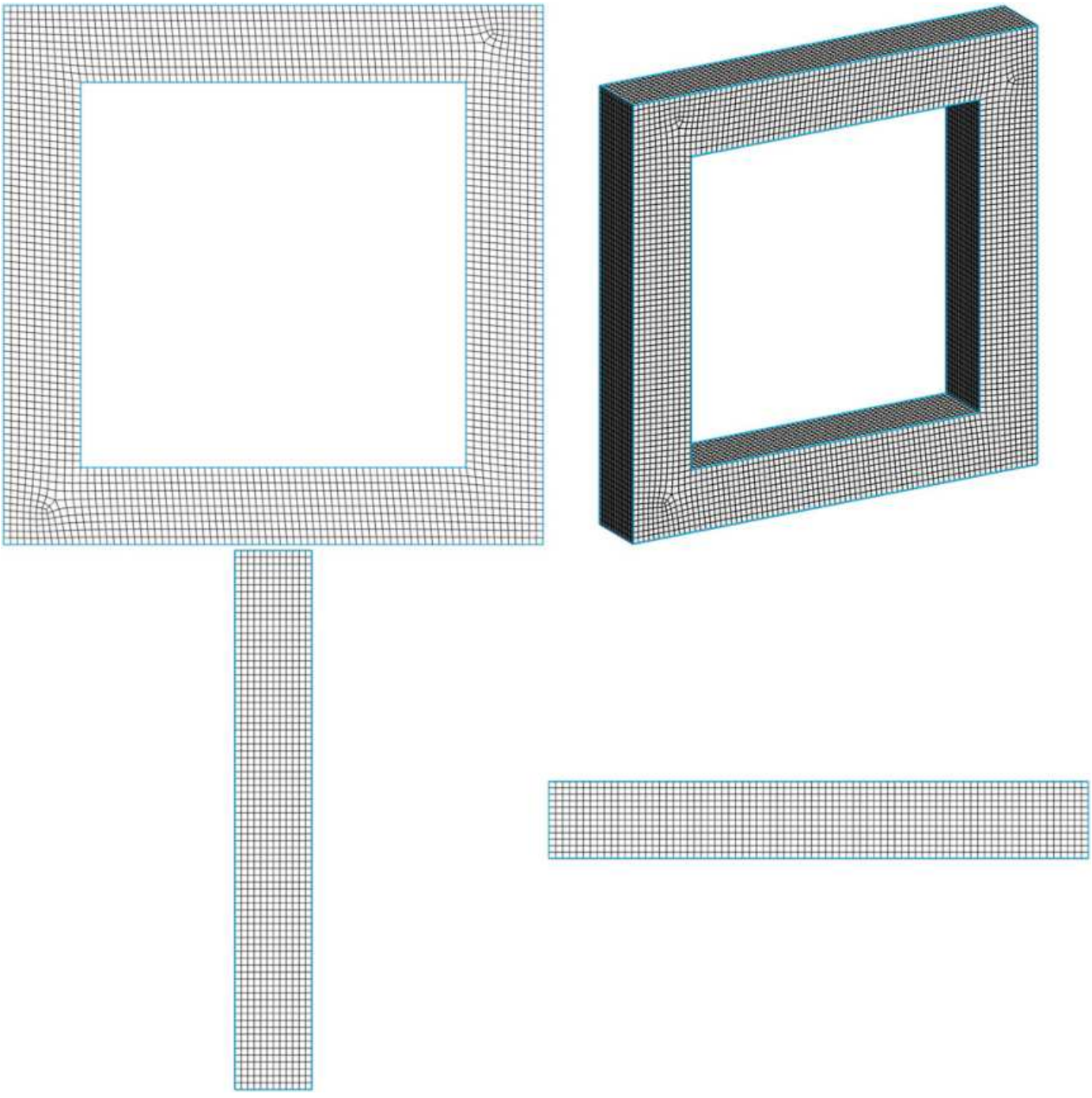


Model: 00009013 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 4.76487 sec to generate the unstructured mesh, 0.725089 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11816	12992	48	0
Quasi-structured	11814	12990	10	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.202429	0.361491	0.57981	0.677522	0.985432	0.997625
Quasi-structured	0.215935	0.360835	0.507305	0.841473	0.993925	0.99726

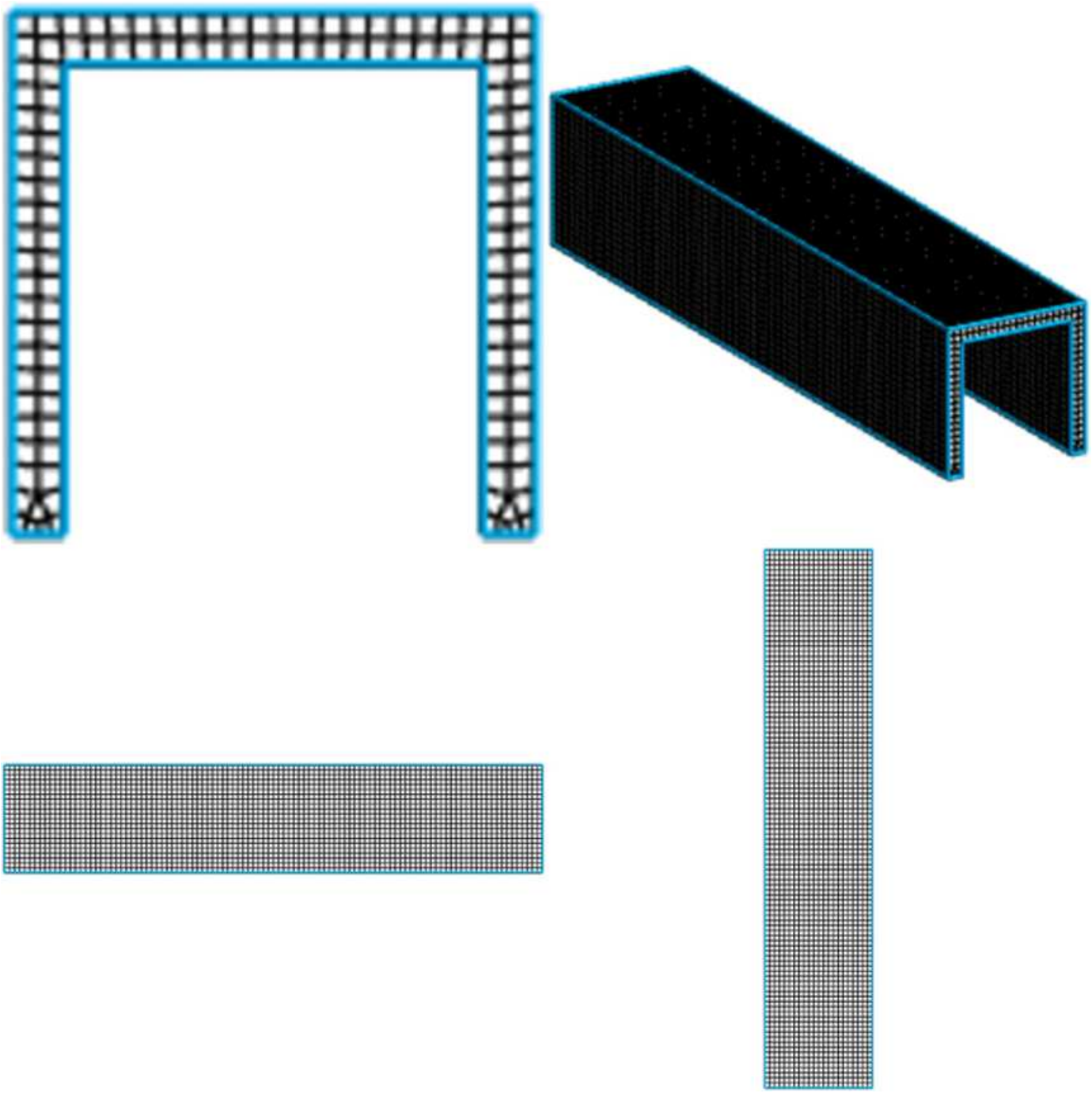


Model: 00009014 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 8.36723 sec to generate the unstructured mesh, 0.974997 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14252	15374	8	0
Quasi-structured	14252	15374	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.71594	4.55735	5.14782	0.481283	0.988084	0.998892
Quasi-structured	2.30652	4.55696	5.48243	0.790518	0.988398	0.998892

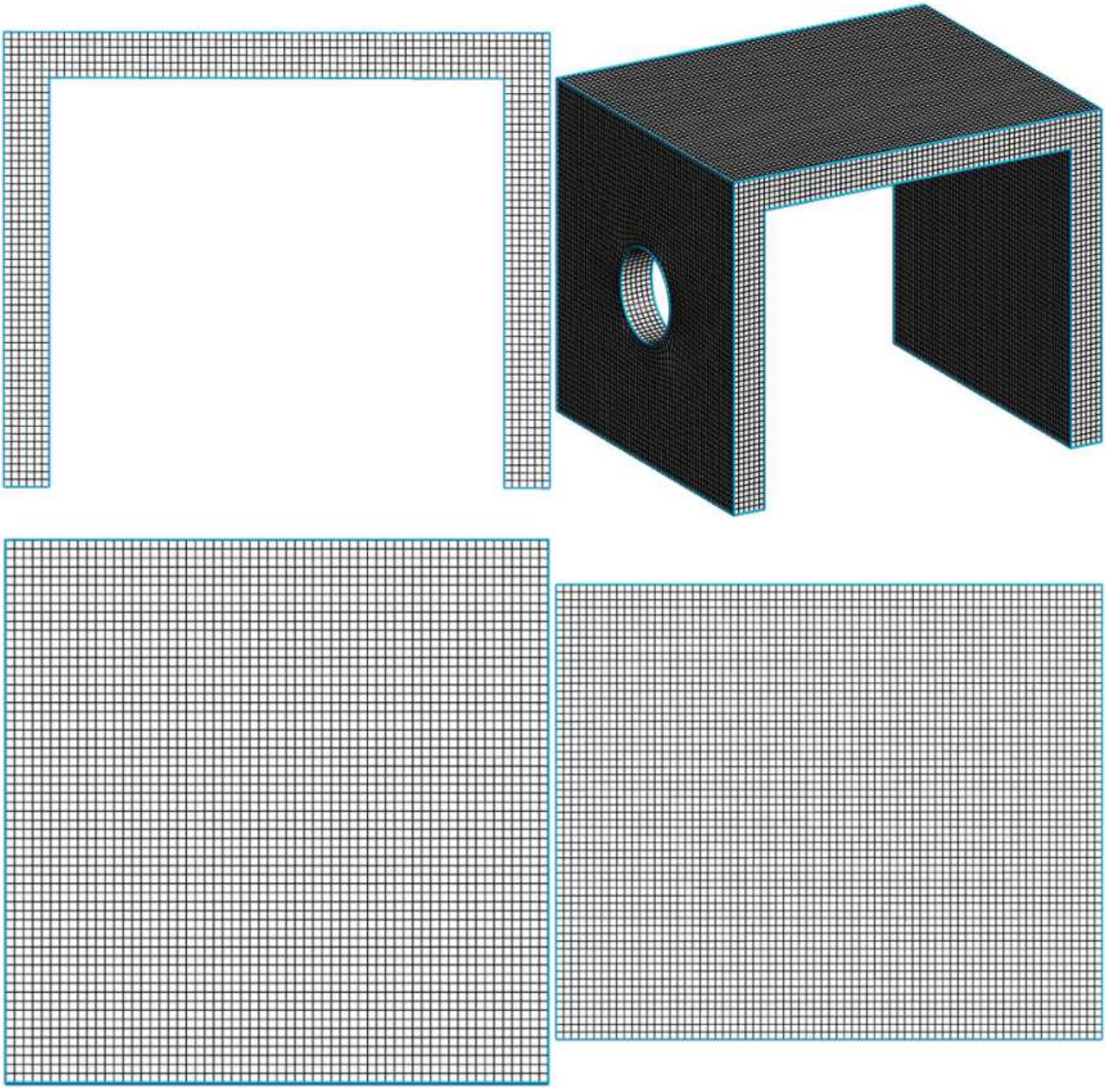


Model: 00009016 (from ABC dataset)
CAD: 19 corners, 28 curves, 11 faces
Cross field: 8 singularities detected
Timings: 17.5733 sec to generate the unstructured mesh, 2.16287 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24242	25592	78	12
Quasi-structured	24512	25862	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.593456	1.67165	2.69648	0.477817	0.994848	0.999998
Quasi-structured	0.975846	1.66161	2.89338	0.767427	0.998069	0.999999

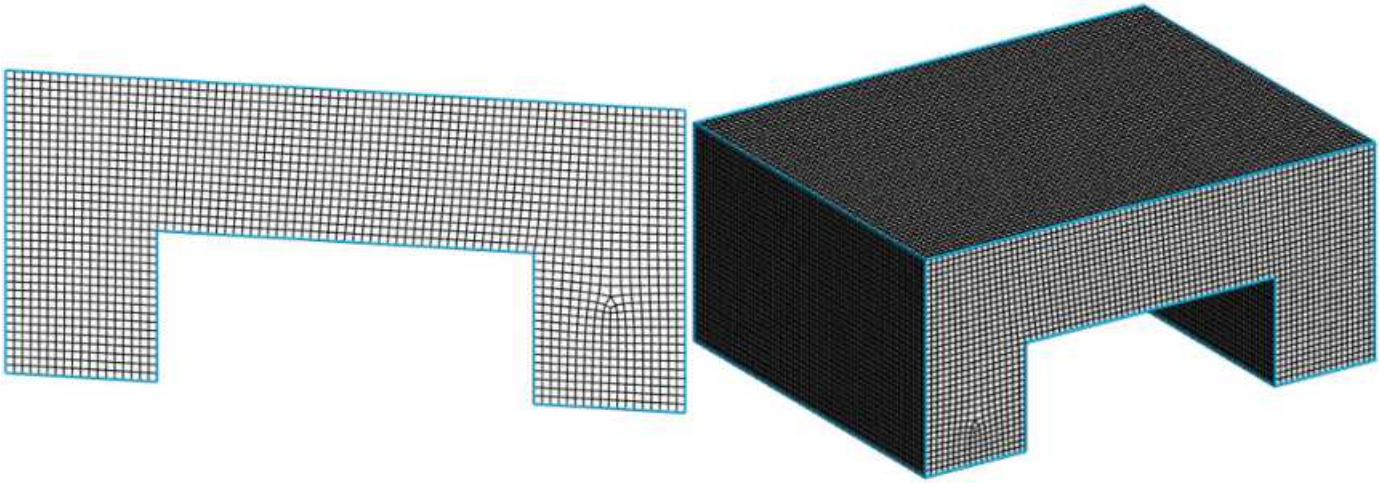


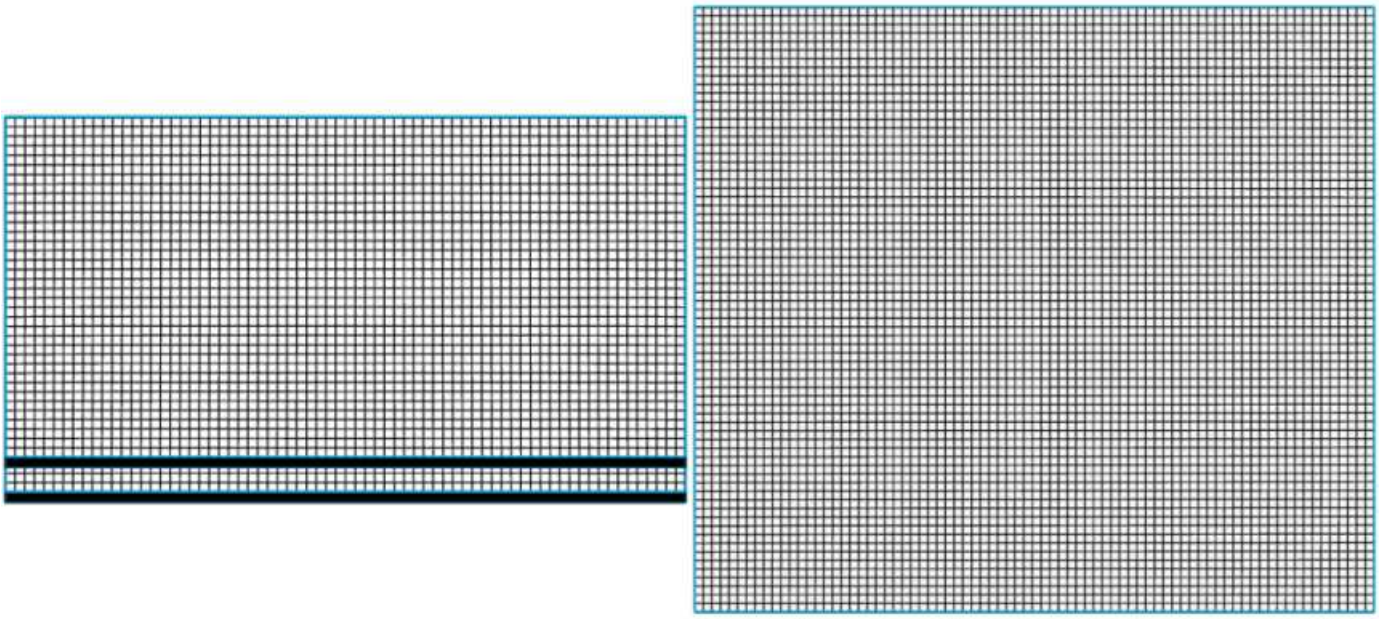
Model: 00009017 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 10.5514 sec to generate the unstructured mesh, 1.15873 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22494	23596	36	1
Quasi-structured	22694	23796	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.242131	0.569842	0.914215	0.585685	0.996449	0.999782
Quasi-structured	0.345854	0.567116	0.776076	0.832863	0.999427	0.999684



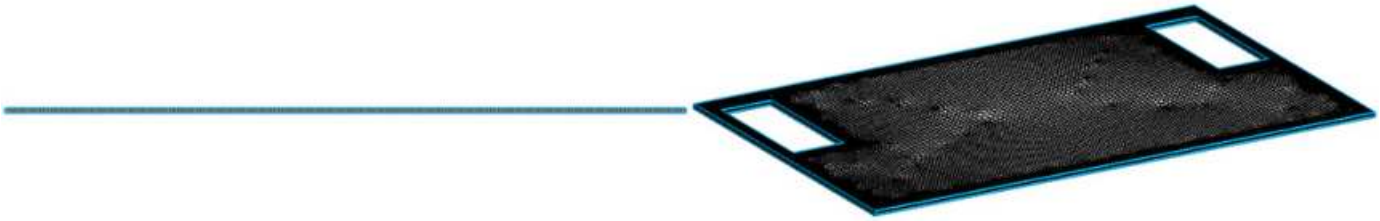


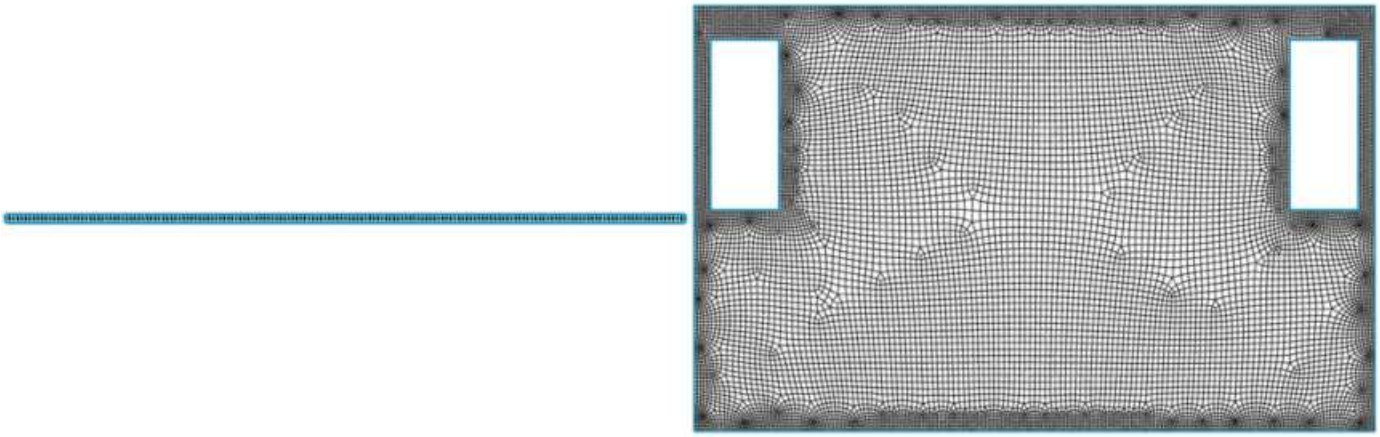
Model: 00009035 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 10.0709 sec to generate the unstructured mesh, 215.938 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30418	32964	868	96
Quasi-structured	30291	32837	376	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.621498	2.3584	6.94716	0.427088	0.947837	0.977677
Quasi-structured	0.701386	2.33951	6.78822	0.579552	0.978513	0.98555



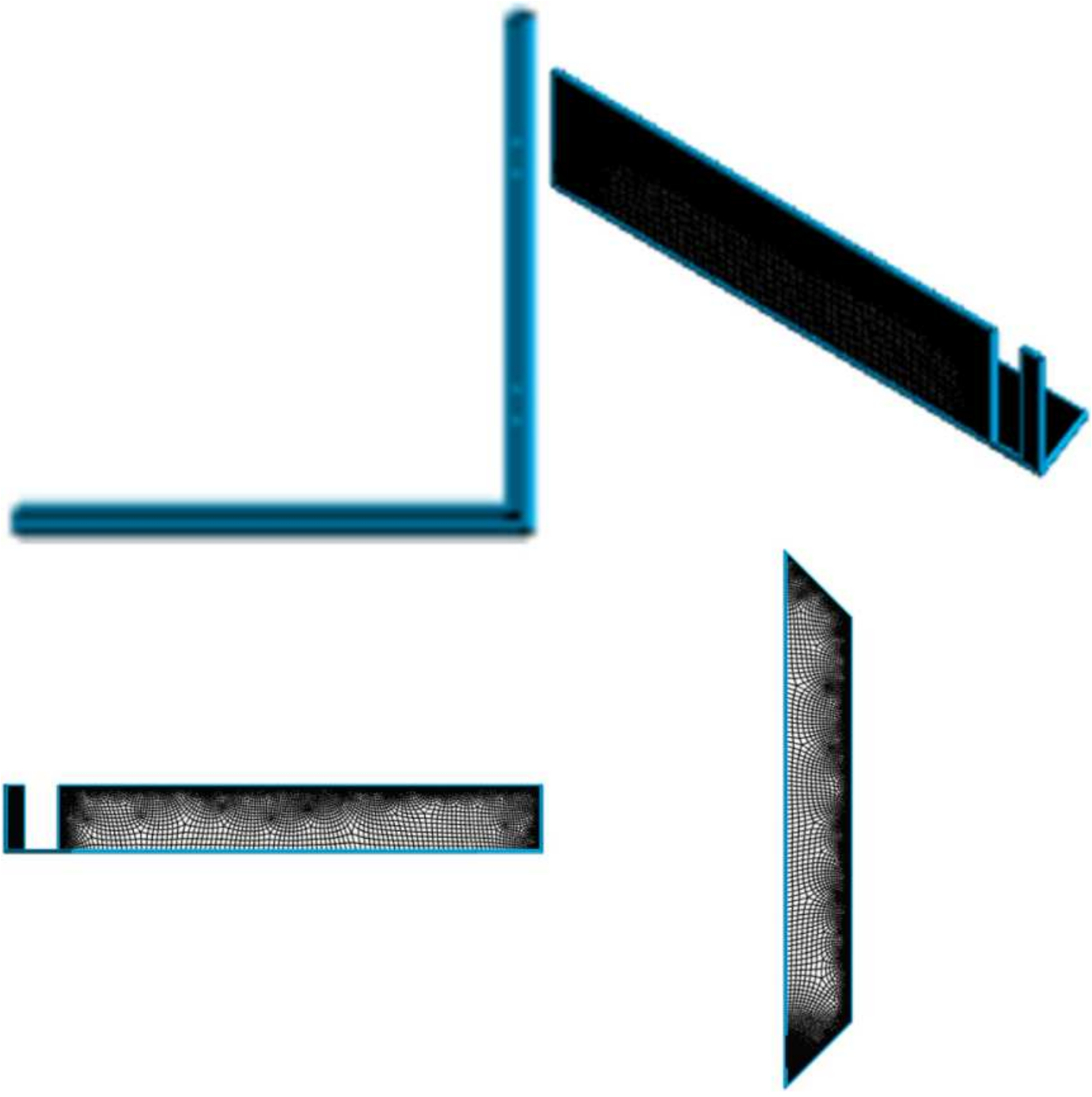


Model: 00009037 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 7 singularities detected
Timings: 3.63922 sec to generate the unstructured mesh, 140.111 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	29974	32808	1661	111
Quasi-structured	30421	33255	735	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.25886	1.358	4.90379	0.391275	0.933544	0.98004
Quasi-structured	0.191804	1.32817	7.69724	0.34268	0.969368	0.98779

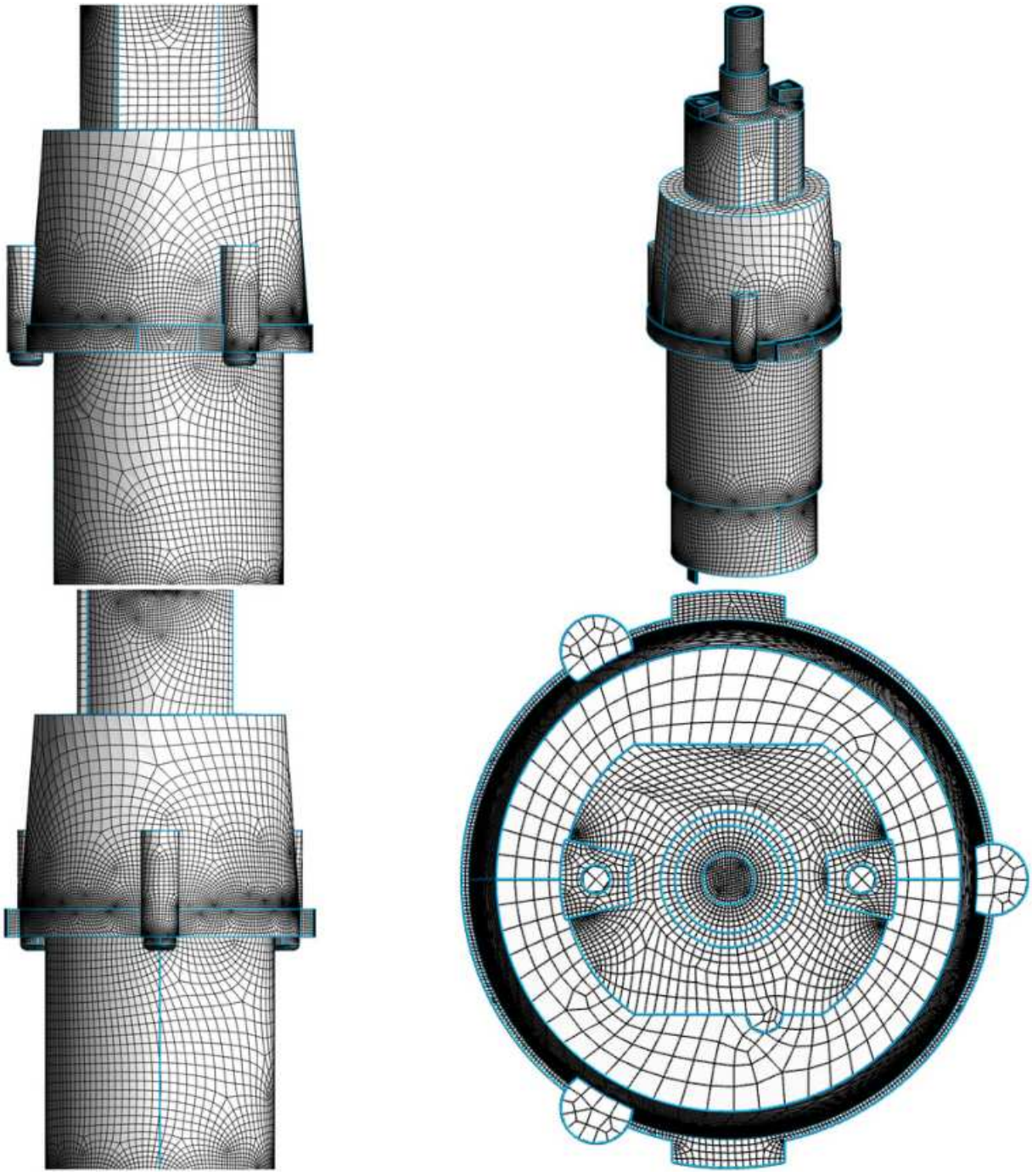


Model: 00009040 (from ABC dataset)
CAD: 123 corners, 187 curves, 80 faces
Cross field: 53 singularities detected
Timings: 9.72031 sec to generate the unstructured mesh, 44.998 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	39054	43270	2073	405
Quasi-structured	38709	42925	558	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0318608	0.596967	3.36213	0.0399688	0.929396	0.977923
Quasi-structured	0.0408431	0.600146	5.45454	0.216686	0.950808	0.976602

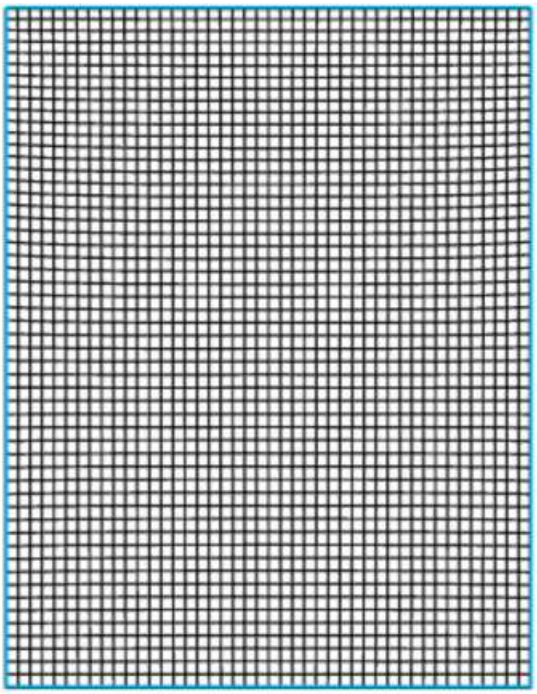


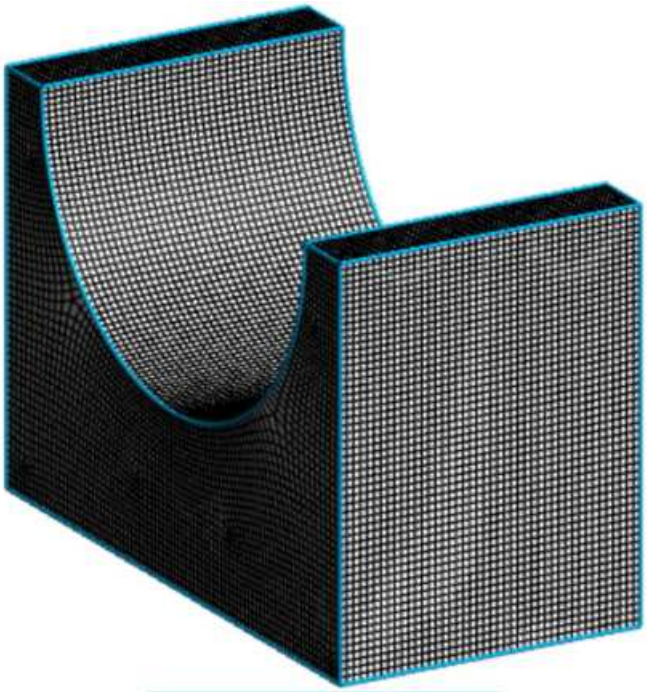
Model: 00009045 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 4 singularities detected
Timings: 15.6515 sec to generate the unstructured mesh, 2.99729 sec to make it quasi-structured
Mesh topology:

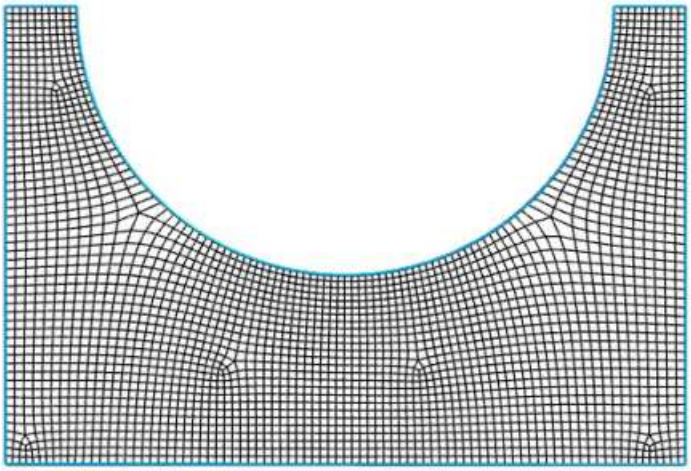
	# quads	# vertices	# irregular	# very irregular
Unstructured	20358	21380	84	0
Quasi-structured	20084	21106	28	0

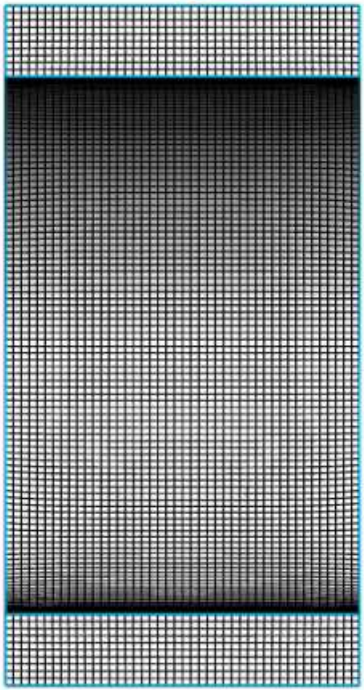
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.220533	0.566491	0.996761	0.609282	0.99199	0.997261
Quasi-structured	0.321431	0.569566	1.89658	0.553111	0.994112	0.997737







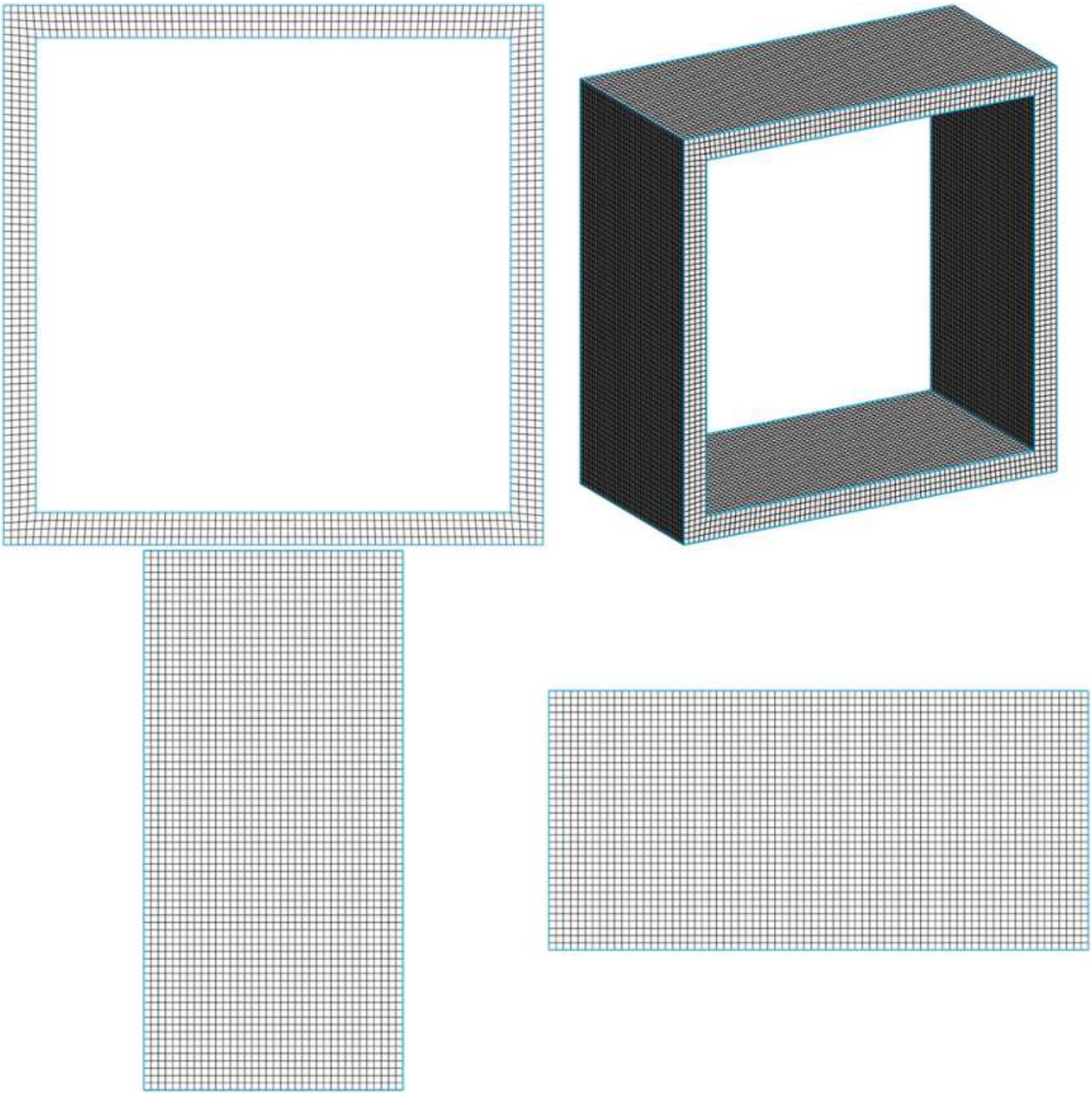


Model: 00009053 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 15.2243 sec to generate the unstructured mesh, 1.68126 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22472	23888	47	0
Quasi-structured	22400	23816	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.201073	0.672297	0.838417	0.281602	0.996676	0.99991
Quasi-structured	0.666667	0.673279	0.799596	0.956722	0.999127	0.99991

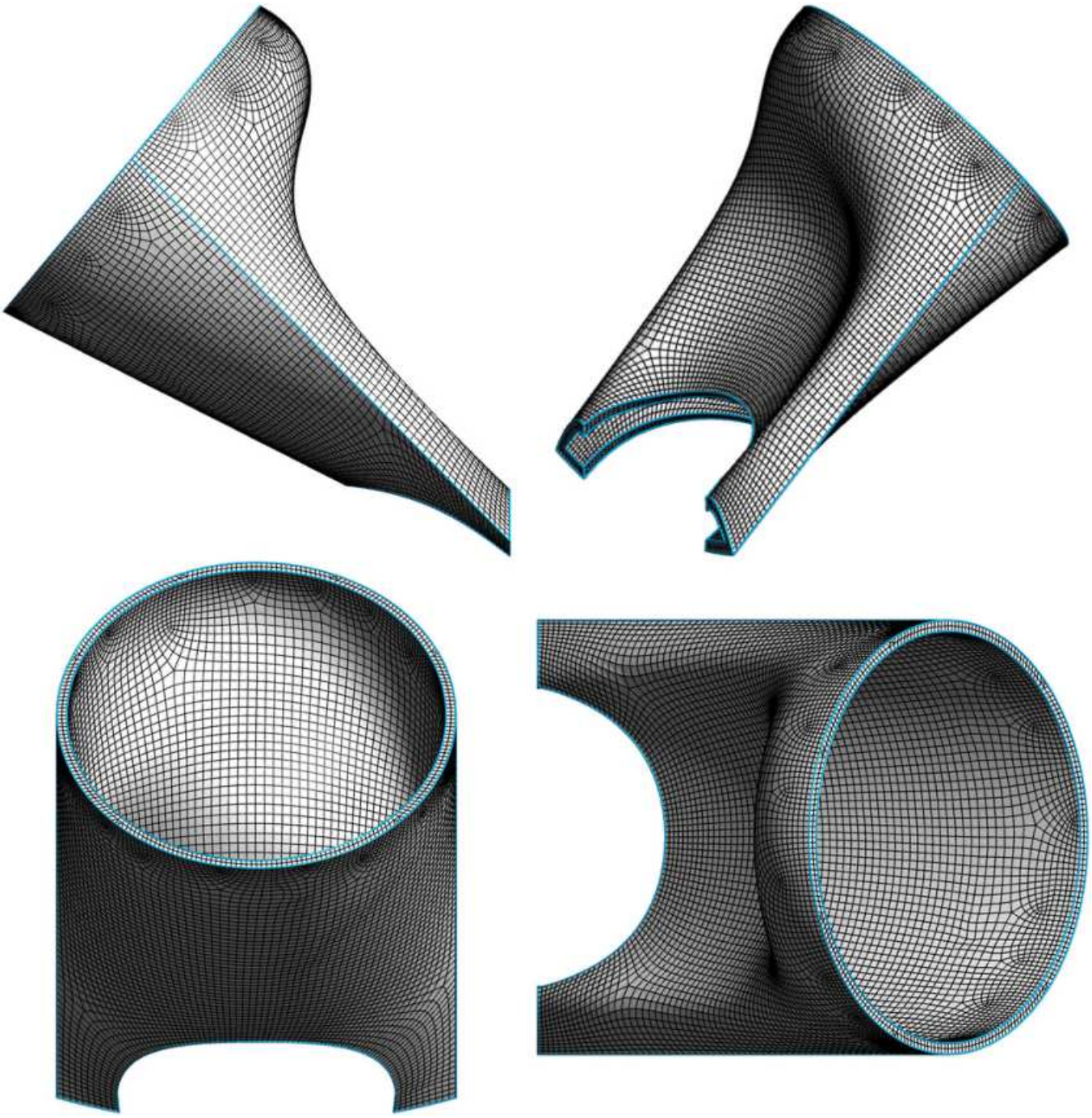


Model: 00009070 (from ABC dataset)
CAD: 18 corners, 26 curves, 9 faces
Cross field: 8 singularities detected
Timings: 28.745 sec to generate the unstructured mesh, 10.44 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18168	19400	502	23
Quasi-structured	18610	19842	112	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.119562	0.713992	1.40617	0.191142	0.956719	0.991122
Quasi-structured	0.194308	0.708044	1.8987	0.646126	0.962827	0.983235

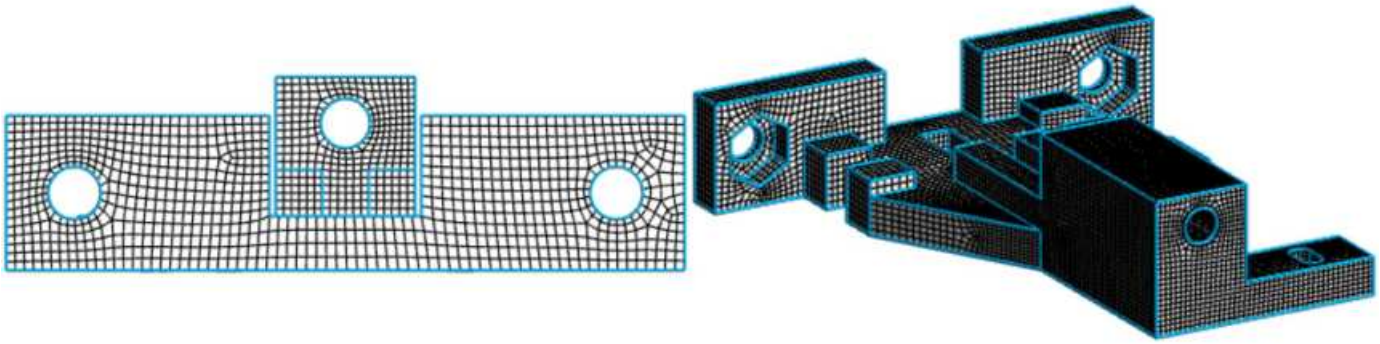


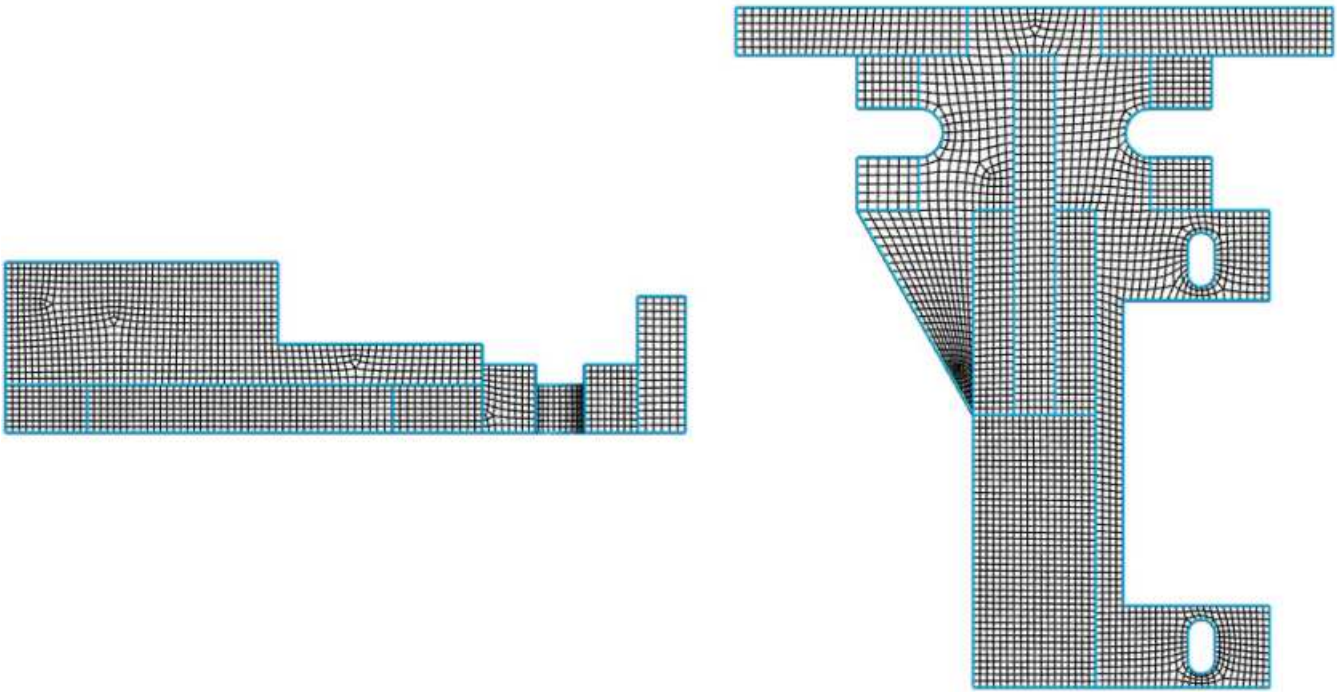
Model: 00009071 (from ABC dataset)
CAD: 141 corners, 213 curves, 76 faces
Cross field: 57 singularities detected
Timings: 9.93164 sec to generate the unstructured mesh, 2.98276 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16520	18997	355	74
Quasi-structured	16924	19401	139	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.136675	0.519565	1.10723	0.230823	0.970624	0.994754
Quasi-structured	0.101686	0.512653	1.21247	0.452473	0.98061	0.995969



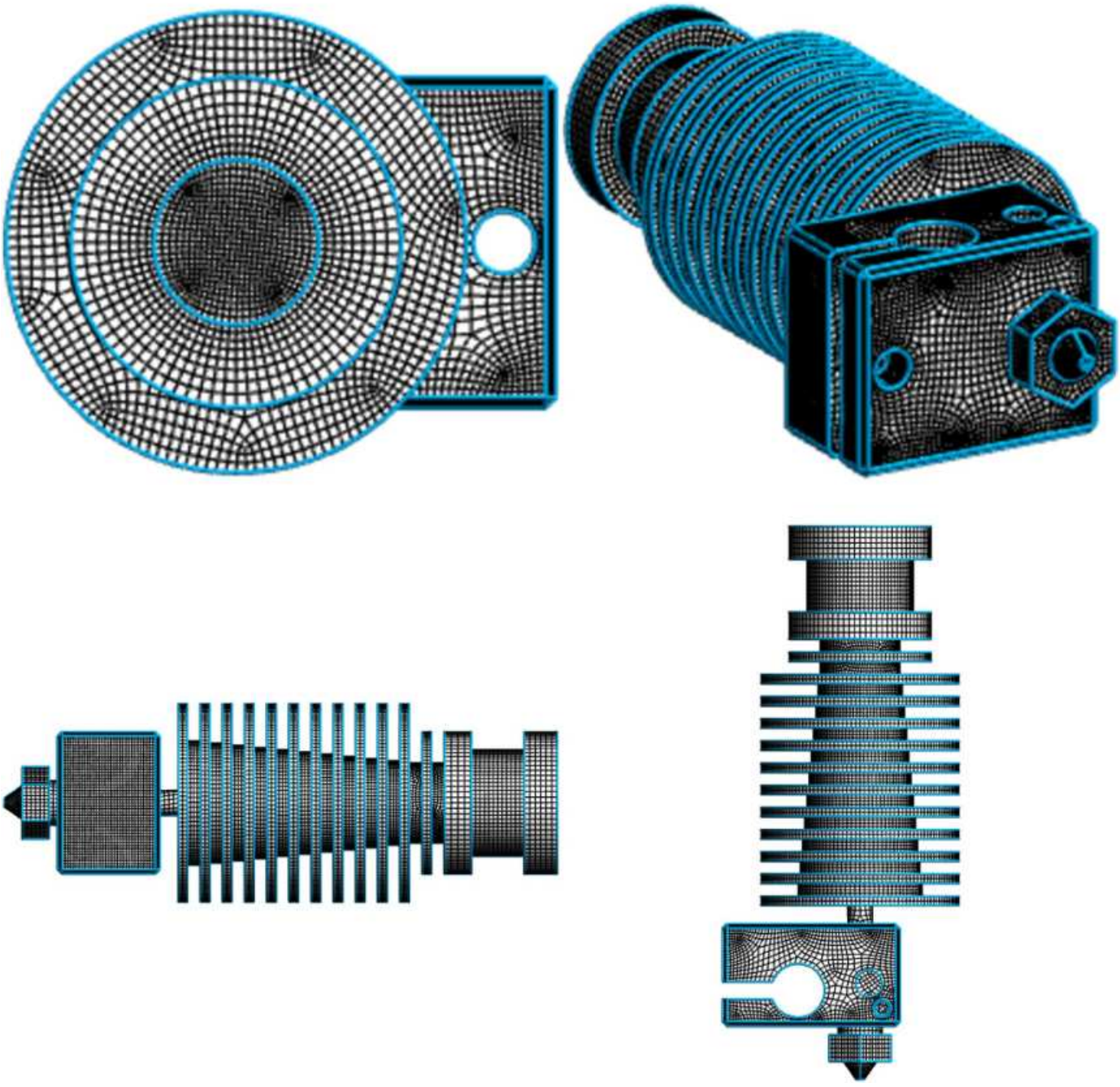


Model: 00009074 (from ABC dataset)
CAD: 122 corners, 195 curves, 111 faces
Cross field: 85 singularities detected
Timings: 25.6325 sec to generate the unstructured mesh, 53.7468 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	49906	57880	2248	344
Quasi-structured	51809	59783	779	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00892476	0.466502	1.19885	0.0500859	0.938095	0.984958
Quasi-structured	0.00892476	0.456688	1.17305	0.0500859	0.963954	0.981524

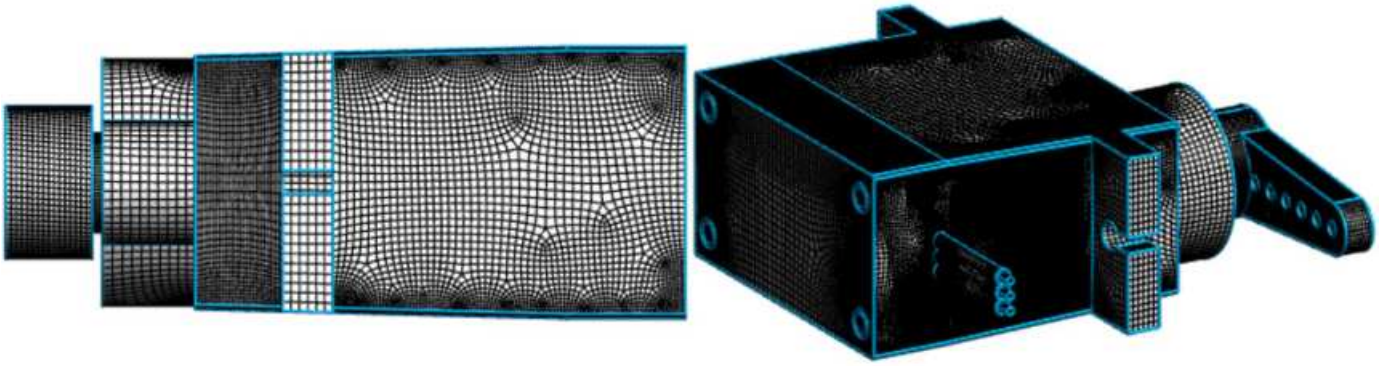


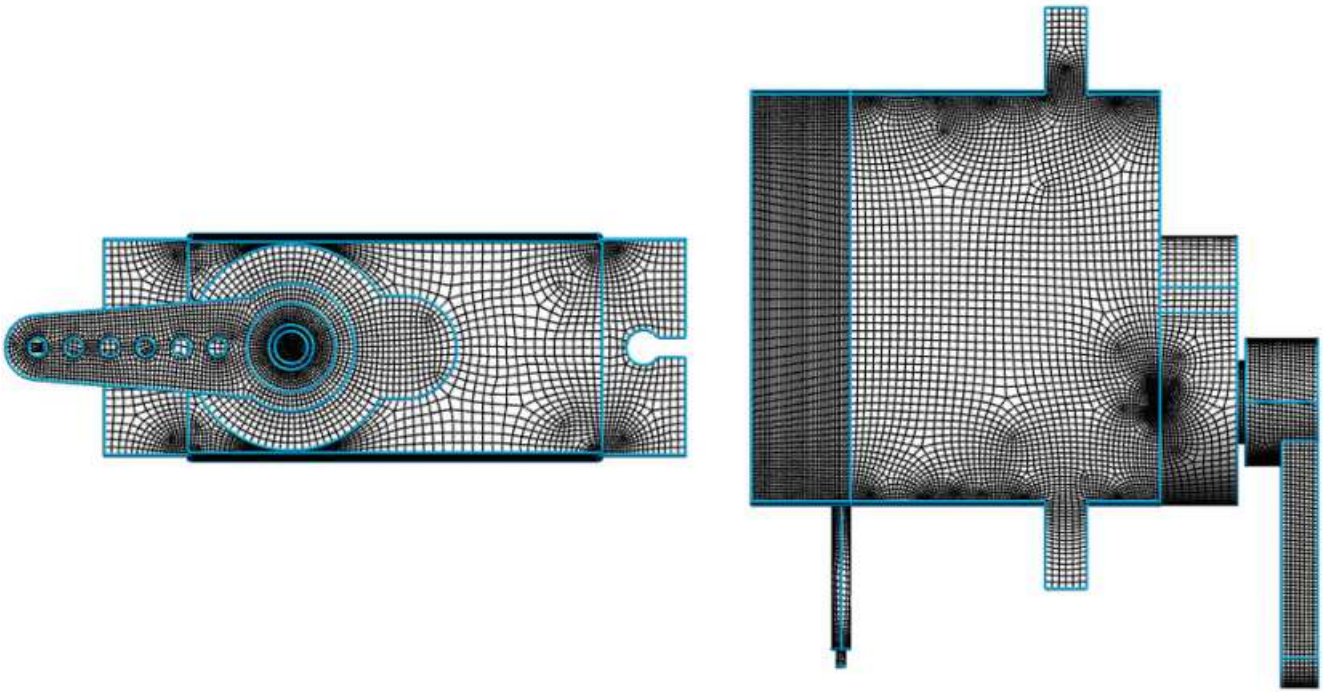
Model: 00009082 (from ABC dataset)
CAD: 155 corners, 229 curves, 98 faces
Cross field: 158 singularities detected
Timings: 15.7506 sec to generate the unstructured mesh, 174.514 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	97050	105862	5158	780
Quasi-structured	97703	106515	1514	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00853803	0.139521	0.729299	0.0632085	0.915269	0.967763
Quasi-structured	0.00712385	0.141021	0.890191	0.0687904	0.93201	0.973747





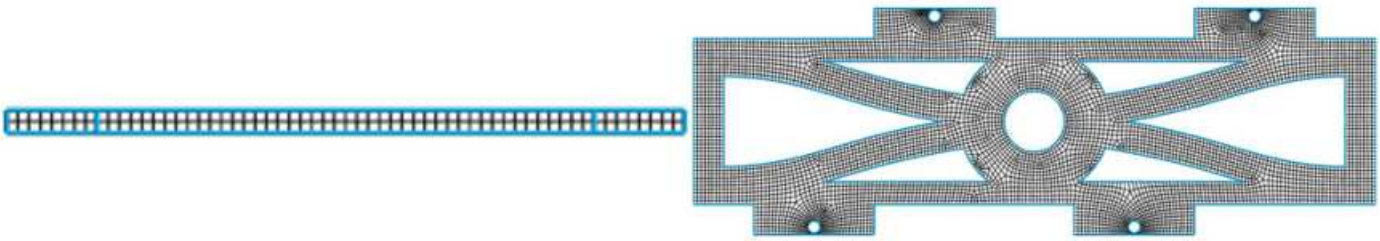
Model: 00009090 (from ABC dataset)
CAD: 86 corners, 129 curves, 45 faces
Cross field: 32 singularities detected
Timings: 10.1745 sec to generate the unstructured mesh, 16.5456 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17368	20378	676	39
Quasi-structured	17294	20304	150	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.183663	1.45434	2.97835	0.35448	0.950989	0.986057
Quasi-structured	0.209764	1.45901	4.10668	0.406315	0.971963	0.992642



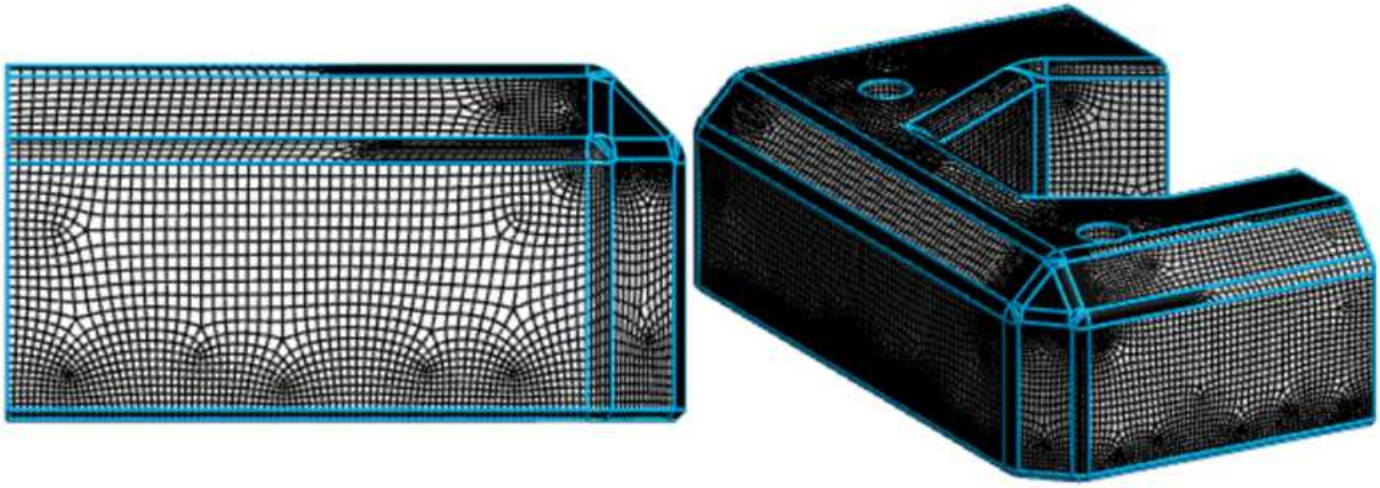


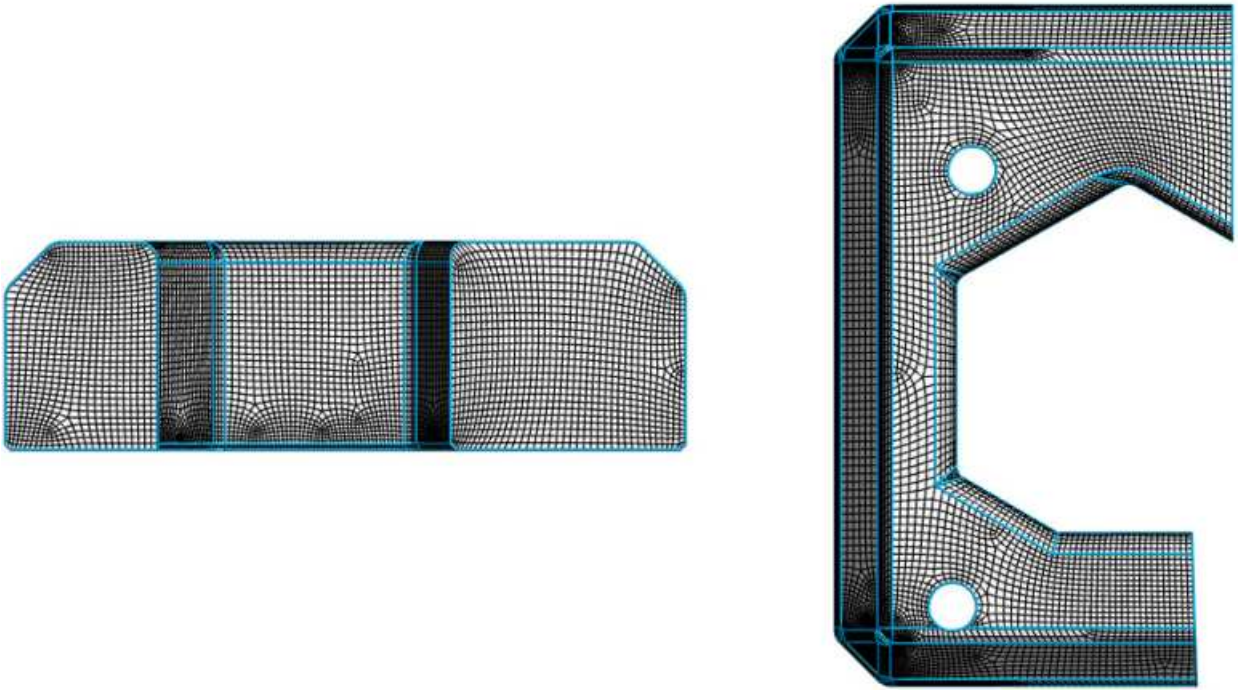
Model: 00009094 (from ABC dataset)
CAD: 106 corners, 205 curves, 85 faces
Cross field: 45 singularities detected
Timings: 18.0168 sec to generate the unstructured mesh, 19.7197 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	30358	34178	1220	113
Quasi-structured	33260	37080	270	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0348221	0.376501	0.936402	0.0924695	0.923574	0.979308
Quasi-structured	0.0331177	0.361601	1.09368	0.0924695	0.927305	0.974915



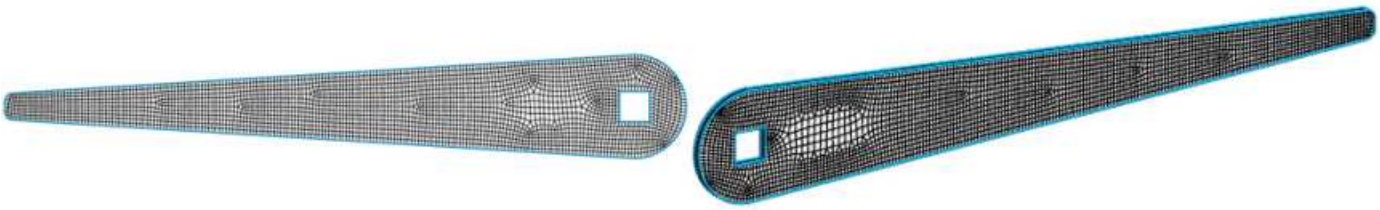


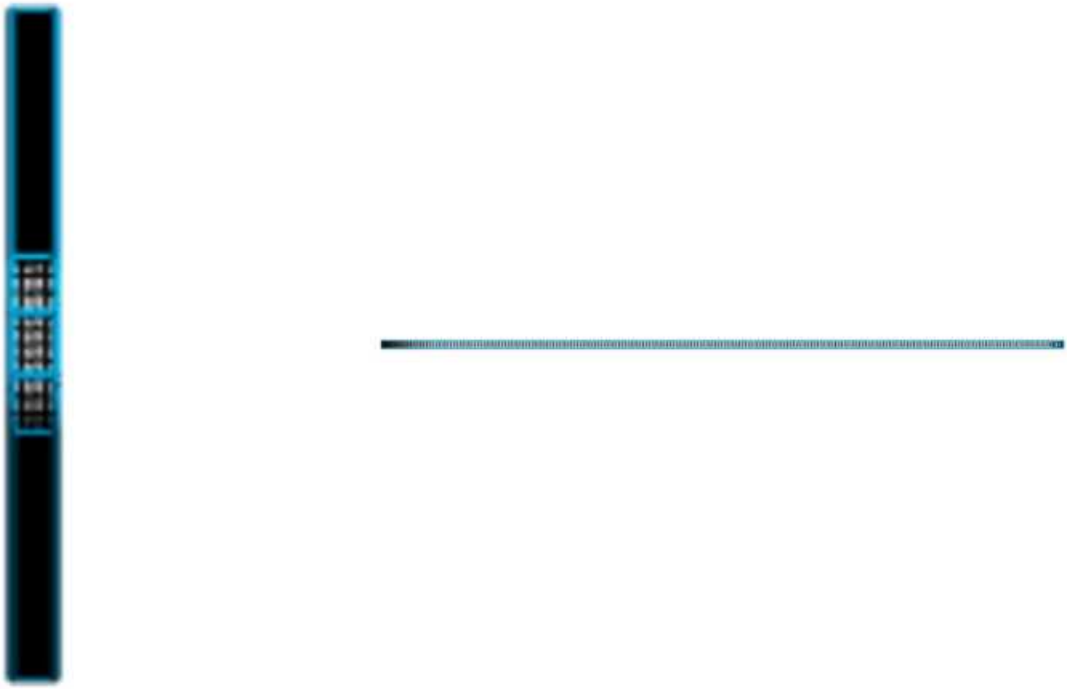
Model: 00009107 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 8 singularities detected
Timings: 2.46296 sec to generate the unstructured mesh, 5.60997 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6840	7806	249	21
Quasi-structured	6962	7928	72	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.138576	0.438938	1.14634	0.368417	0.94801	0.986302
Quasi-structured	0.151433	0.436177	1.07392	0.669582	0.970061	0.976065



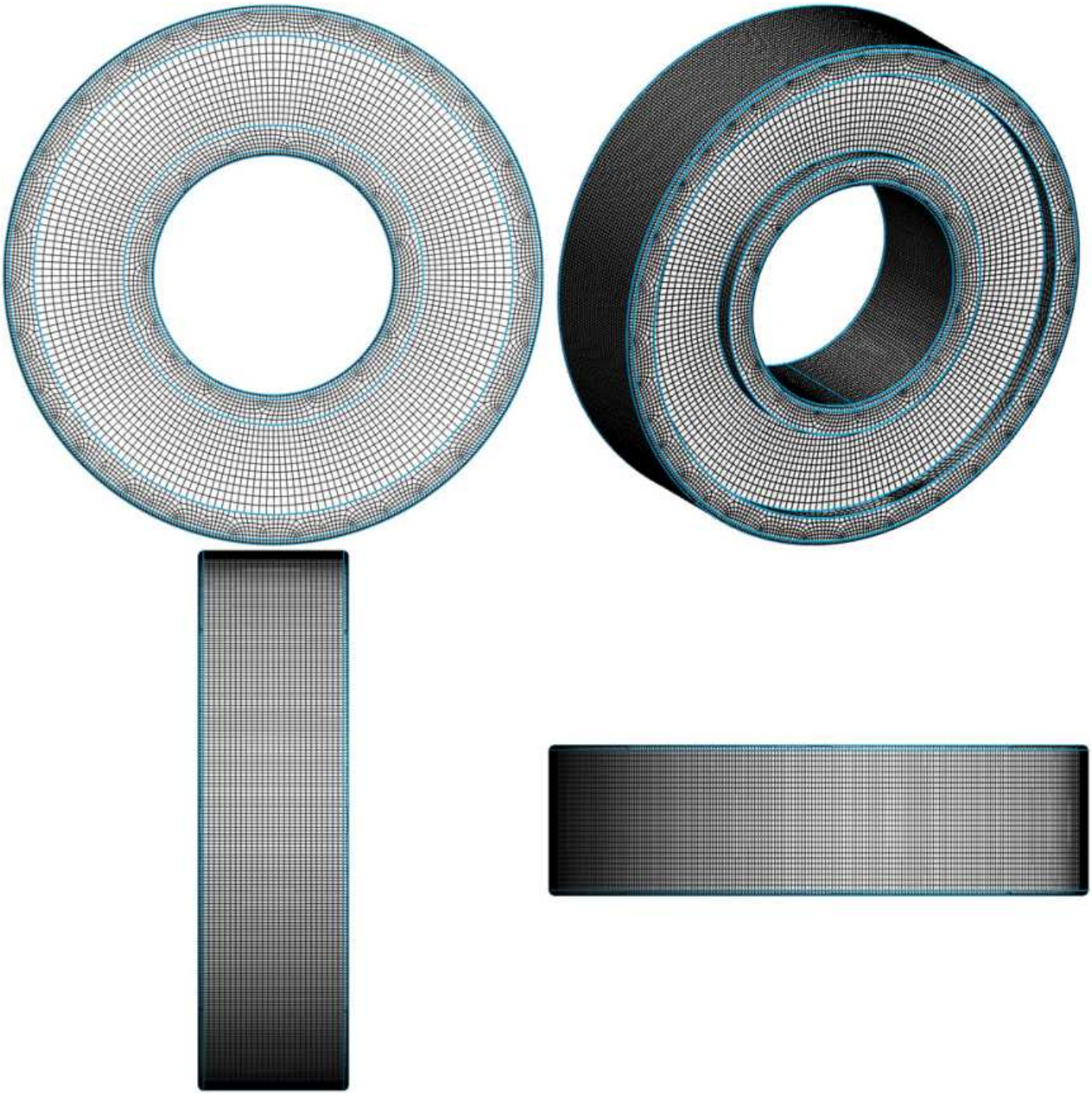


Model: 00009146 (from ABC dataset)
CAD: 16 corners, 26 curves, 16 faces
Cross field: 0 singularities detected
Timings: 14.1857 sec to generate the unstructured mesh, 89.4468 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	35408	39994	1234	137
Quasi-structured	38178	42764	418	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.069452	0.250486	0.468856	0.48245	0.945962	0.971403
Quasi-structured	0.0706752	0.24596	0.656814	0.428497	0.931425	0.935399

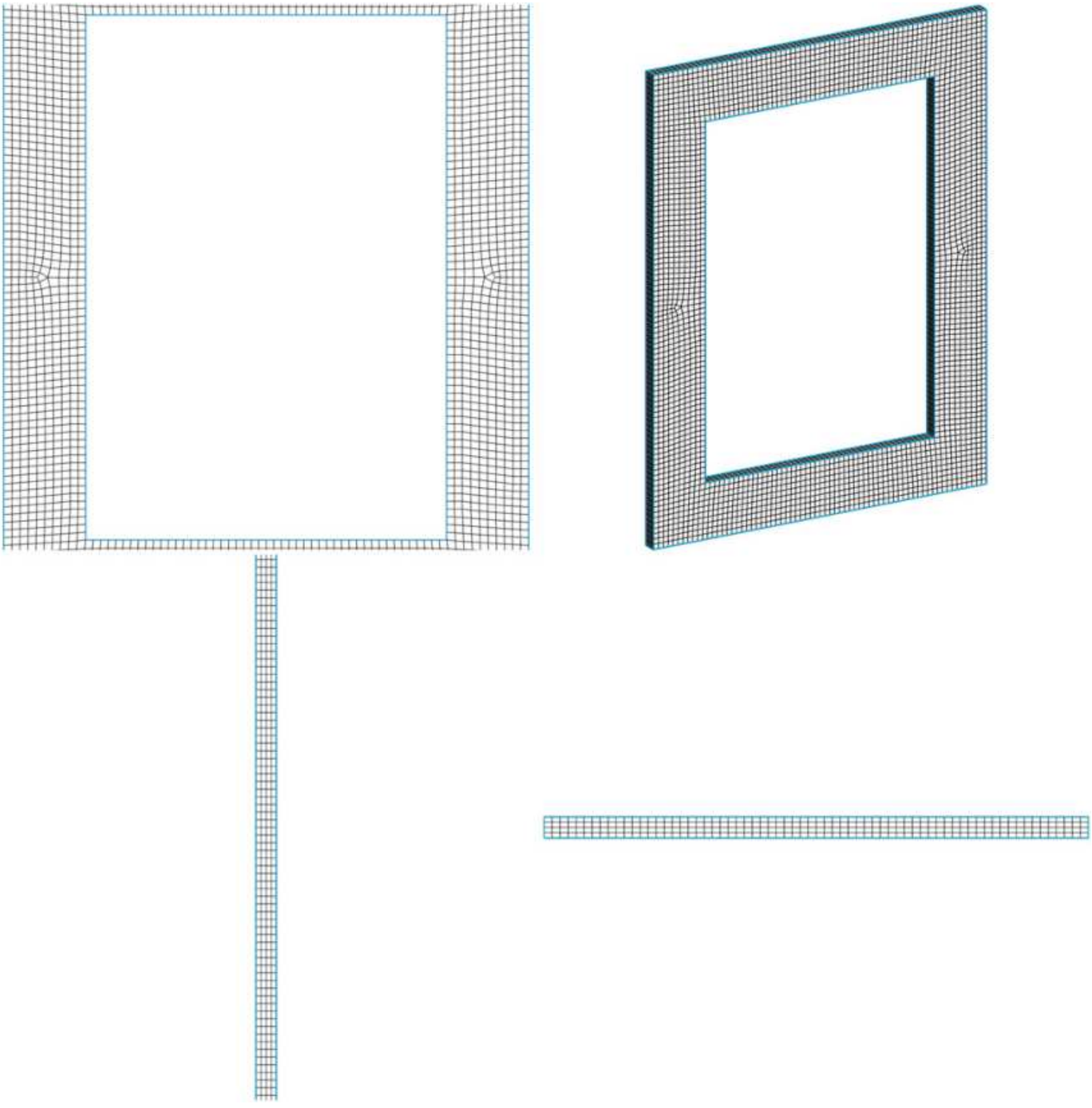


Model: 00009169 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 4.6984 sec to generate the unstructured mesh, 0.602002 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7676	8812	8	0
Quasi-structured	7676	8812	8	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0598001	0.0916004	0.128187	0.709253	0.968672	0.998516
Quasi-structured	0.0597267	0.0914122	0.133589	0.841987	0.974101	0.993023

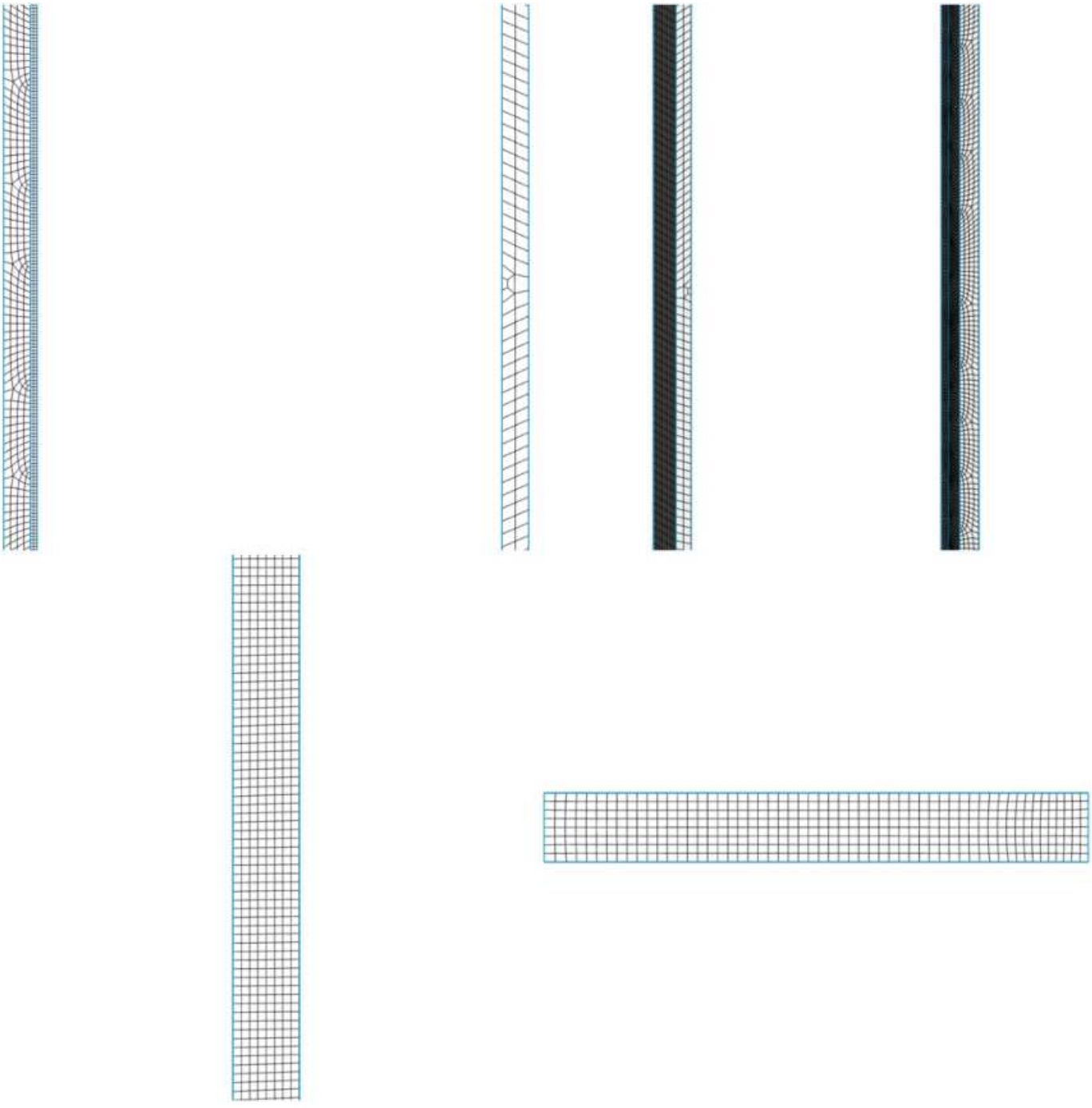


Model: 00009170 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 0 singularities detected
Timings: 3.26557 sec to generate the unstructured mesh, 68.0318 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11912	14422	560	26
Quasi-structured	11786	14296	188	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0220606	0.107883	0.2222	0.429809	0.936661	0.984162
Quasi-structured	0.0185597	0.109362	0.287446	0.564383	0.935486	0.954957

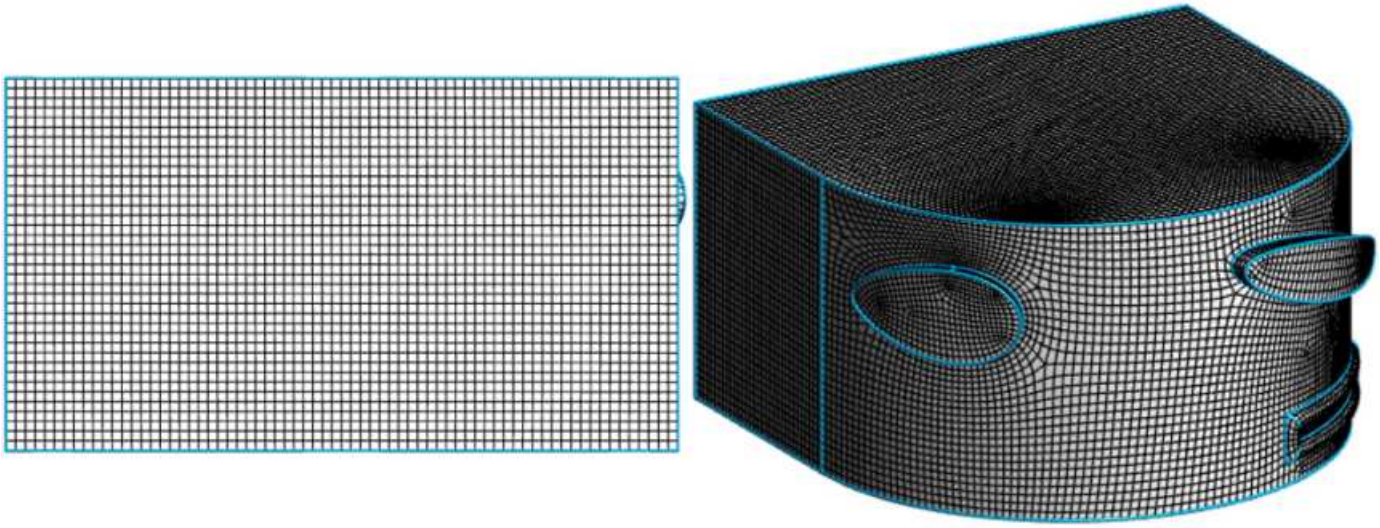


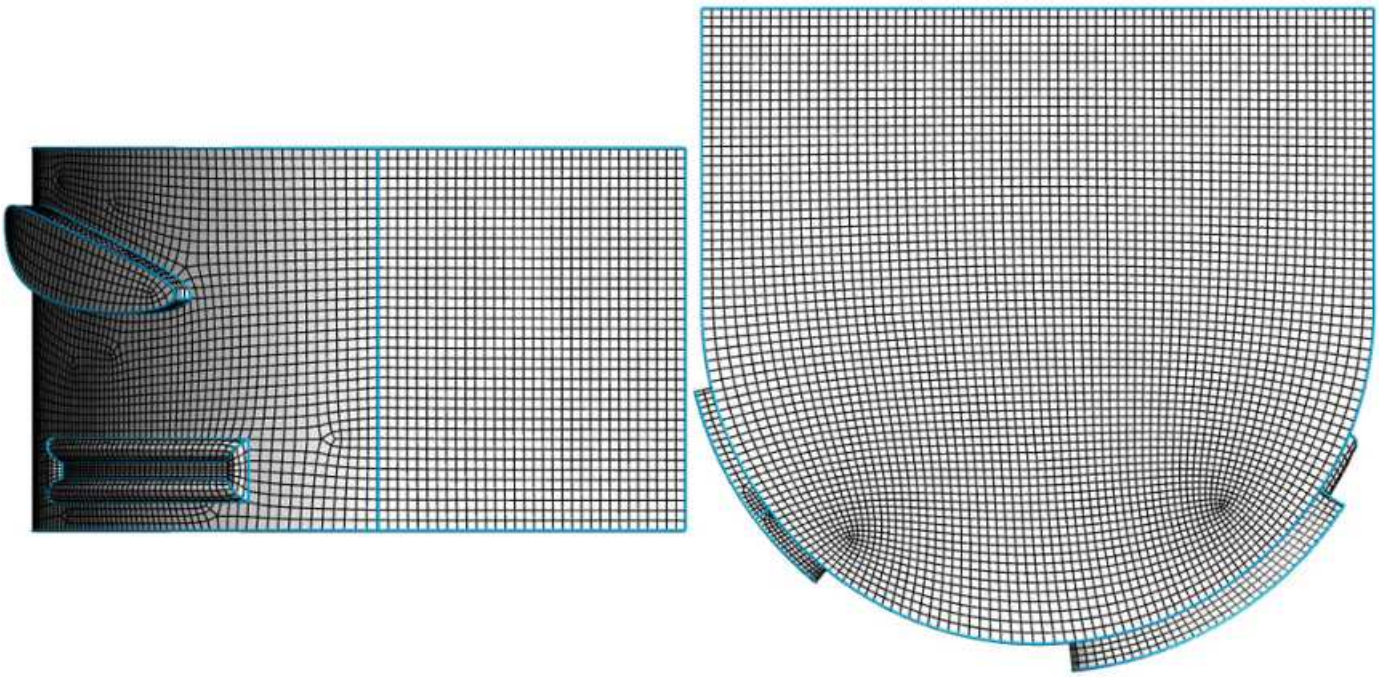
Model: 00009210 (from ABC dataset)
CAD: 21 corners, 31 curves, 15 faces
Cross field: 18 singularities detected
Timings: 12.8312 sec to generate the unstructured mesh, 3.19297 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20520	21674	235	12
Quasi-structured	20198	21352	44	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.180551	1.58647	3.55687	0.37412	0.976109	0.997624
Quasi-structured	0.228019	1.5964	4.84204	0.421314	0.984724	0.998093



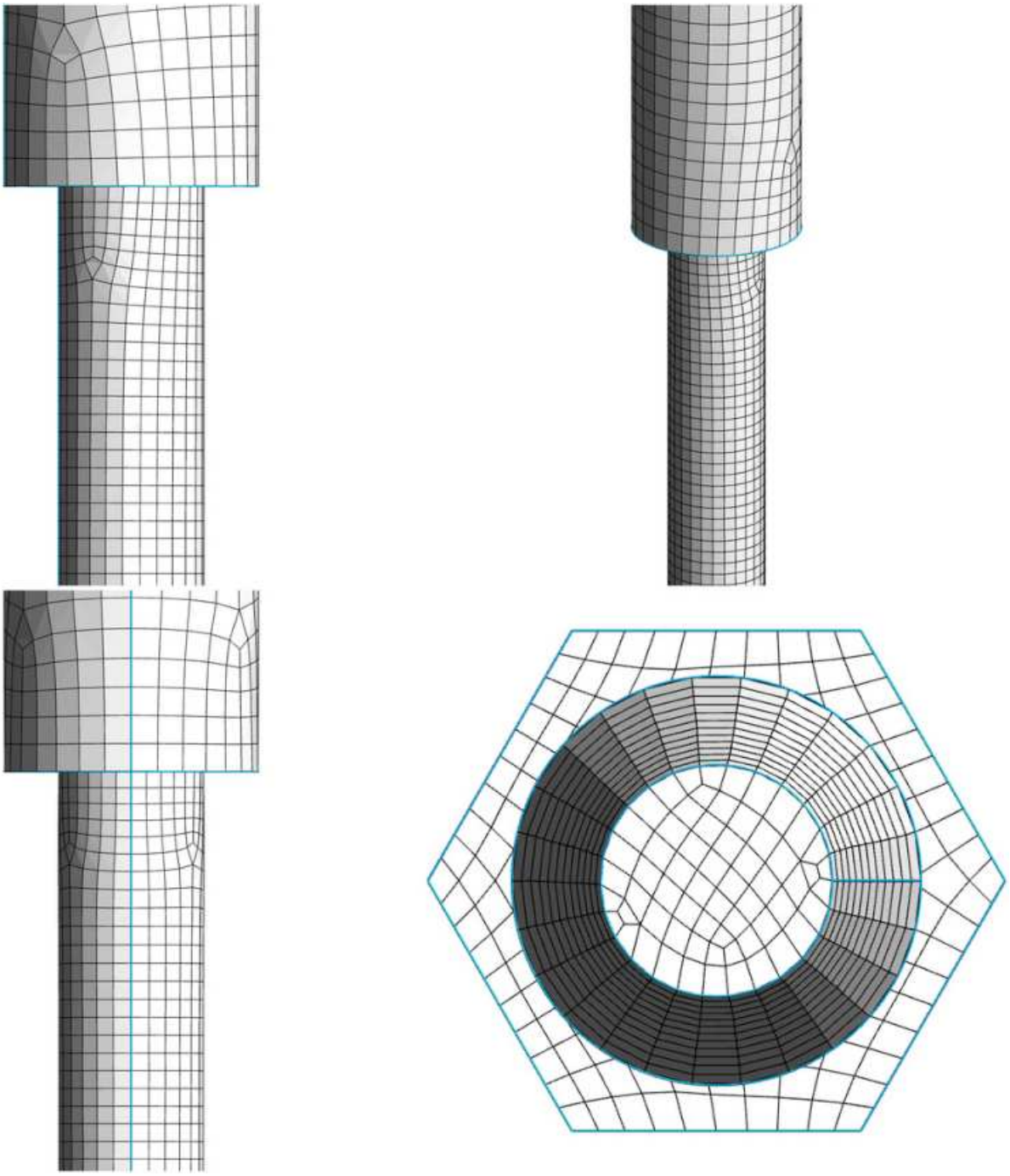


Model: 00009230 (from ABC dataset)
CAD: 19 corners, 29 curves, 15 faces
Cross field: 20 singularities detected
Timings: 2.96779 sec to generate the unstructured mesh, 0.471369 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	4006	4384	51	109
Quasi-structured	4024	4402	34	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.36359	3.59724	6.41169	0.232663	0.976388	0.996116
Quasi-structured	1.36168	3.58245	6.96039	0.683815	0.984384	0.998758

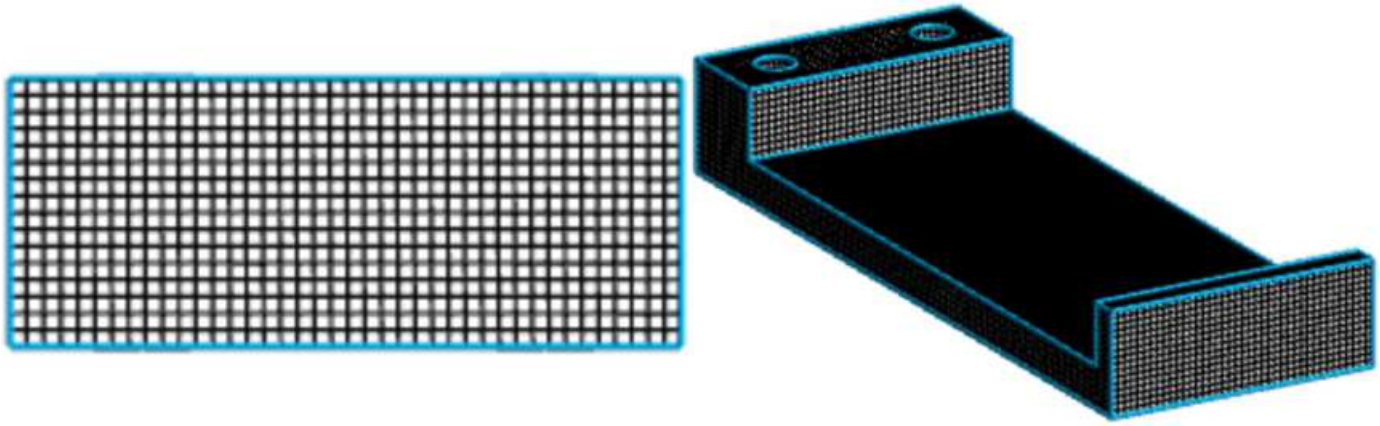


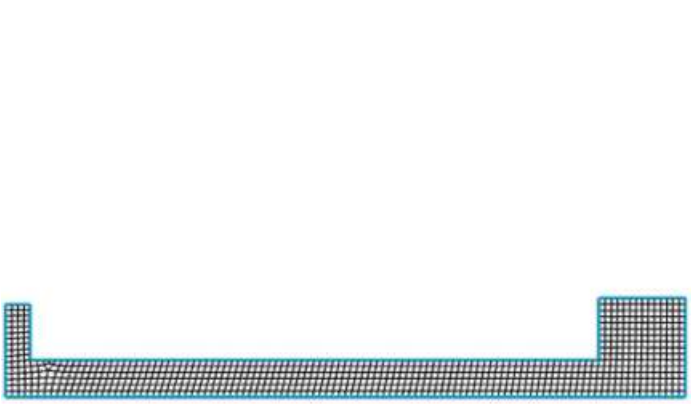
Model: 00009233 (from ABC dataset)
CAD: 22 corners, 32 curves, 12 faces
Cross field: 16 singularities detected
Timings: 8.75193 sec to generate the unstructured mesh, 1.68479 sec to make it quasi-structured
Mesh topology:

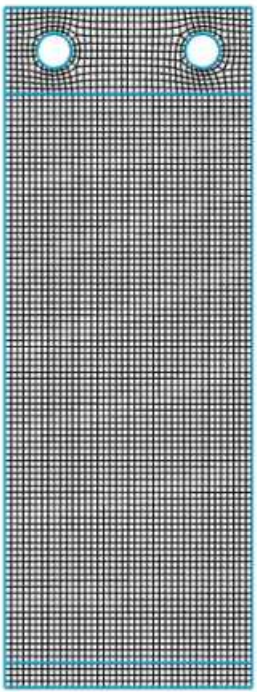
	# quads	# vertices	# irregular	# very irregular
Unstructured	13008	13958	114	43
Quasi-structured	13198	14148	28	0

Mesh geometry:

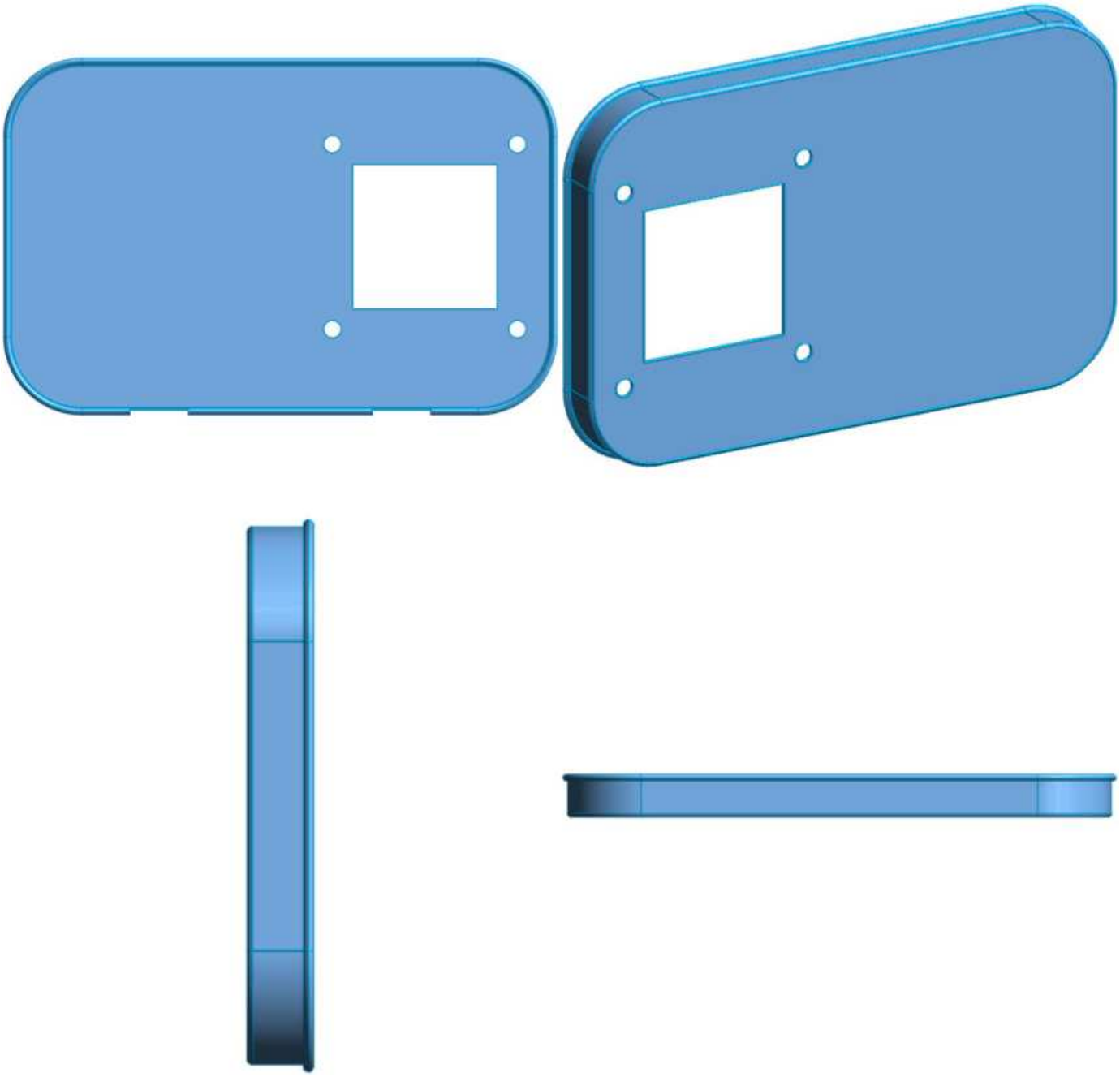
	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.169056	0.498379	0.818946	0.632802	0.989332	0.999733
Quasi-structured	0.240108	0.494518	0.789411	0.614638	0.994734	0.999355







Model: 00009235 (from ABC dataset)
Error: failed to build quadrilateral mesh

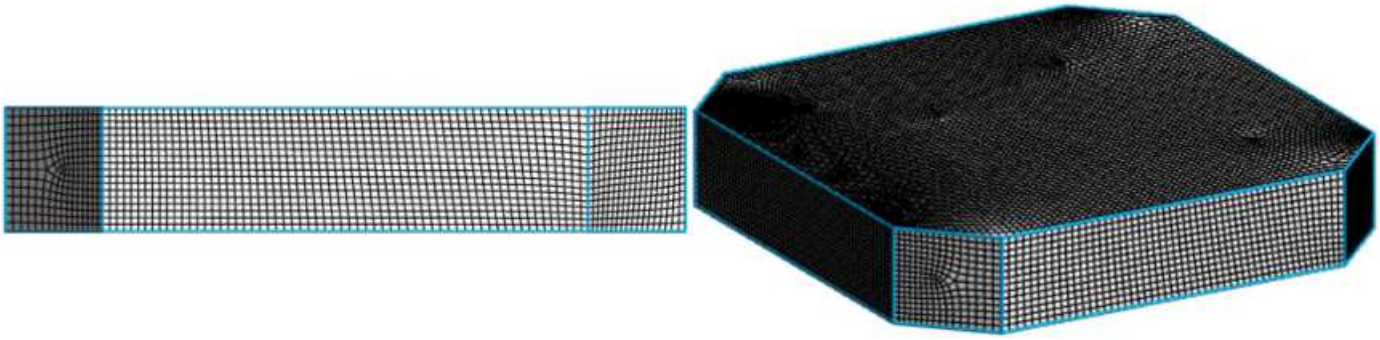


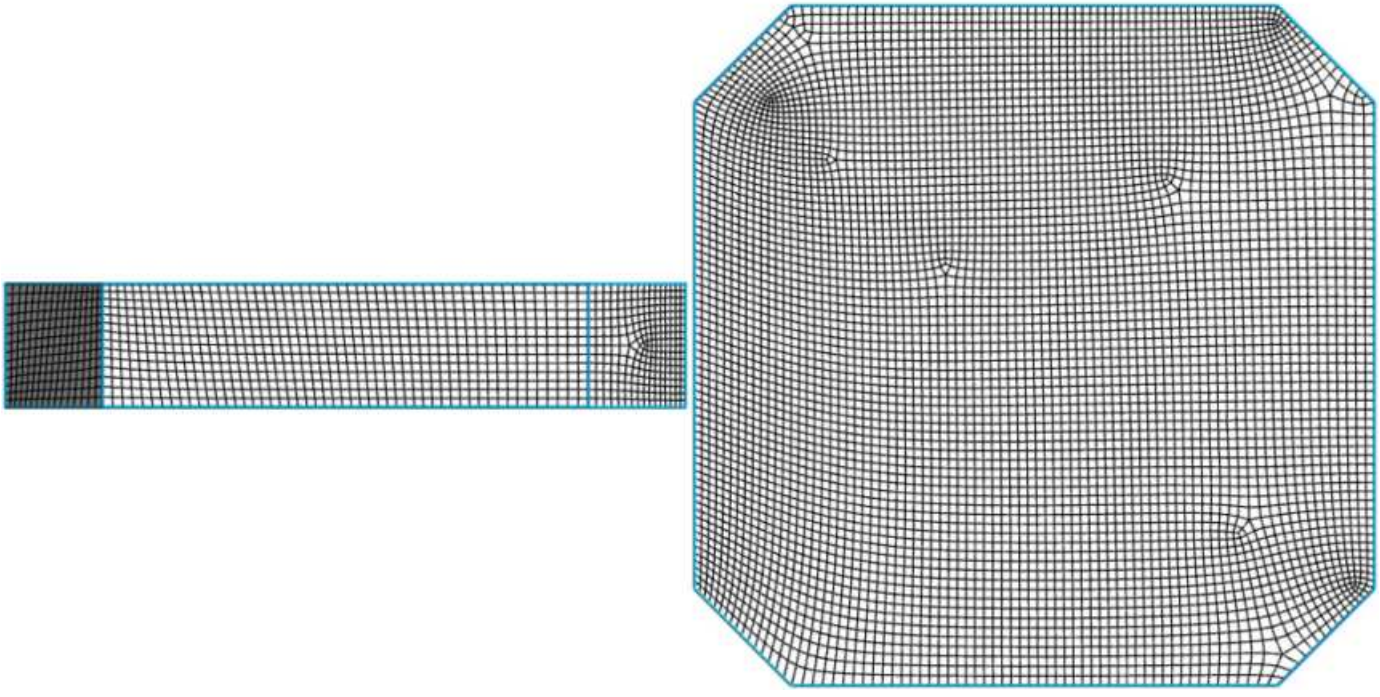
Model: 00009239 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 13.8656 sec to generate the unstructured mesh, 5.38414 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16548	17274	163	4
Quasi-structured	16756	17482	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.146489	0.436591	0.855234	0.500044	0.983608	0.996404
Quasi-structured	0.141315	0.434003	1.14334	0.70157	0.985292	0.991699



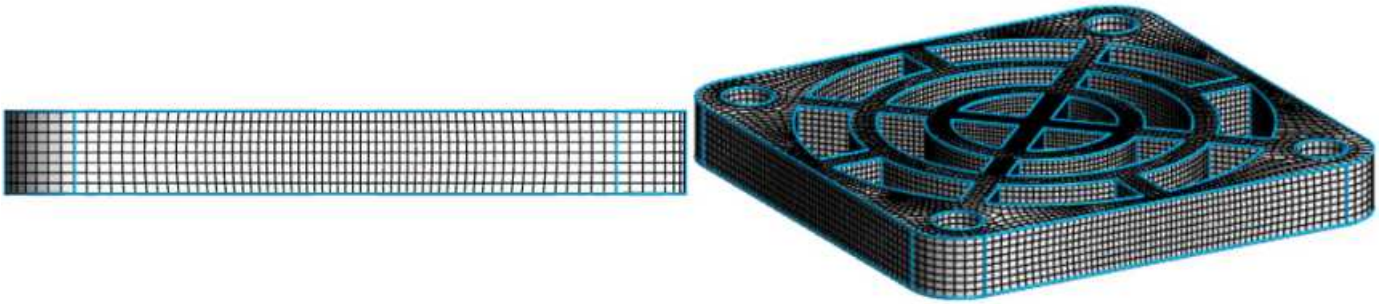


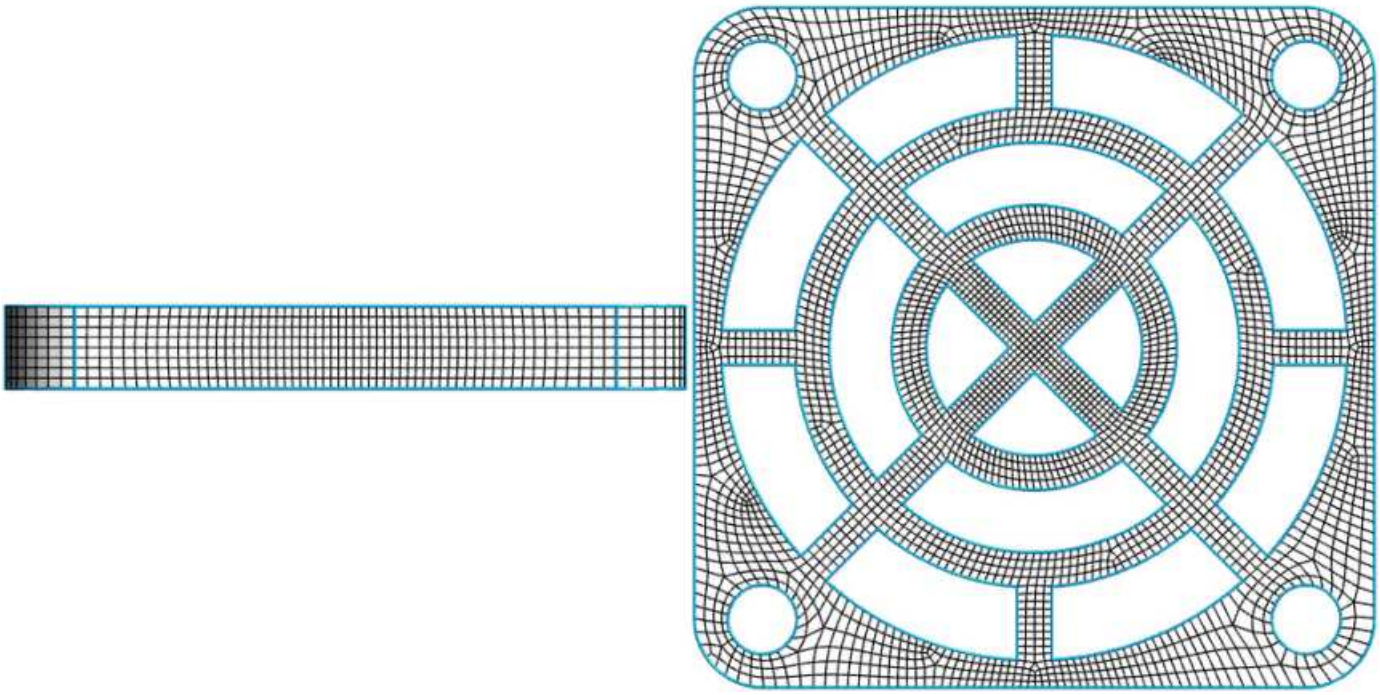
Model: 00009242 (from ABC dataset)
CAD: 144 corners, 216 curves, 74 faces
Cross field: 32 singularities detected
Timings: 11.297 sec to generate the unstructured mesh, 3.0991 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22072	25654	325	44
Quasi-structured	22103	25685	92	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.106728	0.467012	1.10768	0.262028	0.976534	0.994746
Quasi-structured	0.154463	0.466856	1.69437	0.334189	0.976518	0.993931



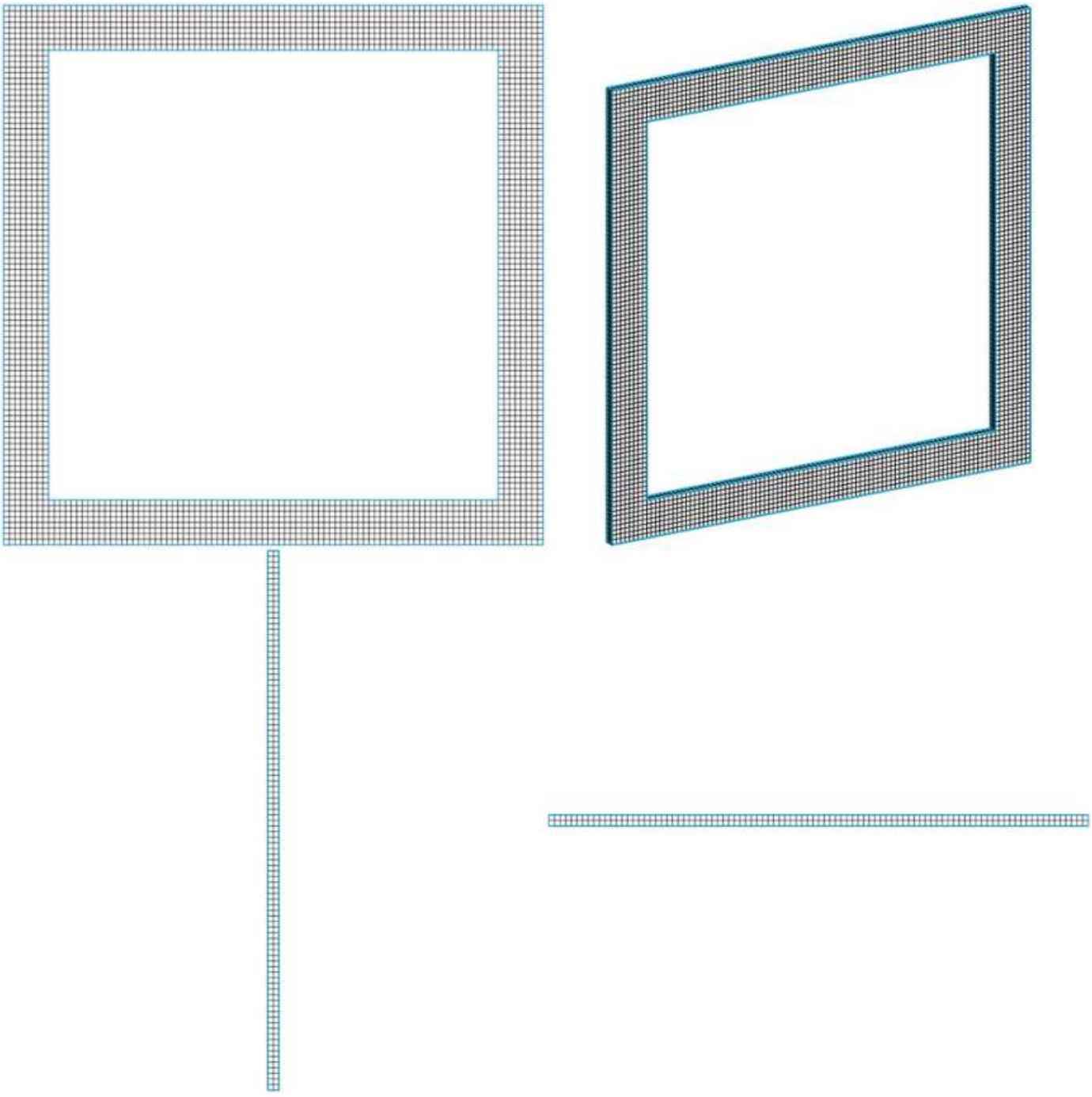


Model: 00009249 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 2.41257 sec to generate the unstructured mesh, 0.350666 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7036	8468	20	2
Quasi-structured	7040	8472	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	3.16296	6.35323	9.09428	0.690301	0.993028	0.999965
Quasi-structured	6.08989	6.35	6.59312	0.998783	0.999997	1

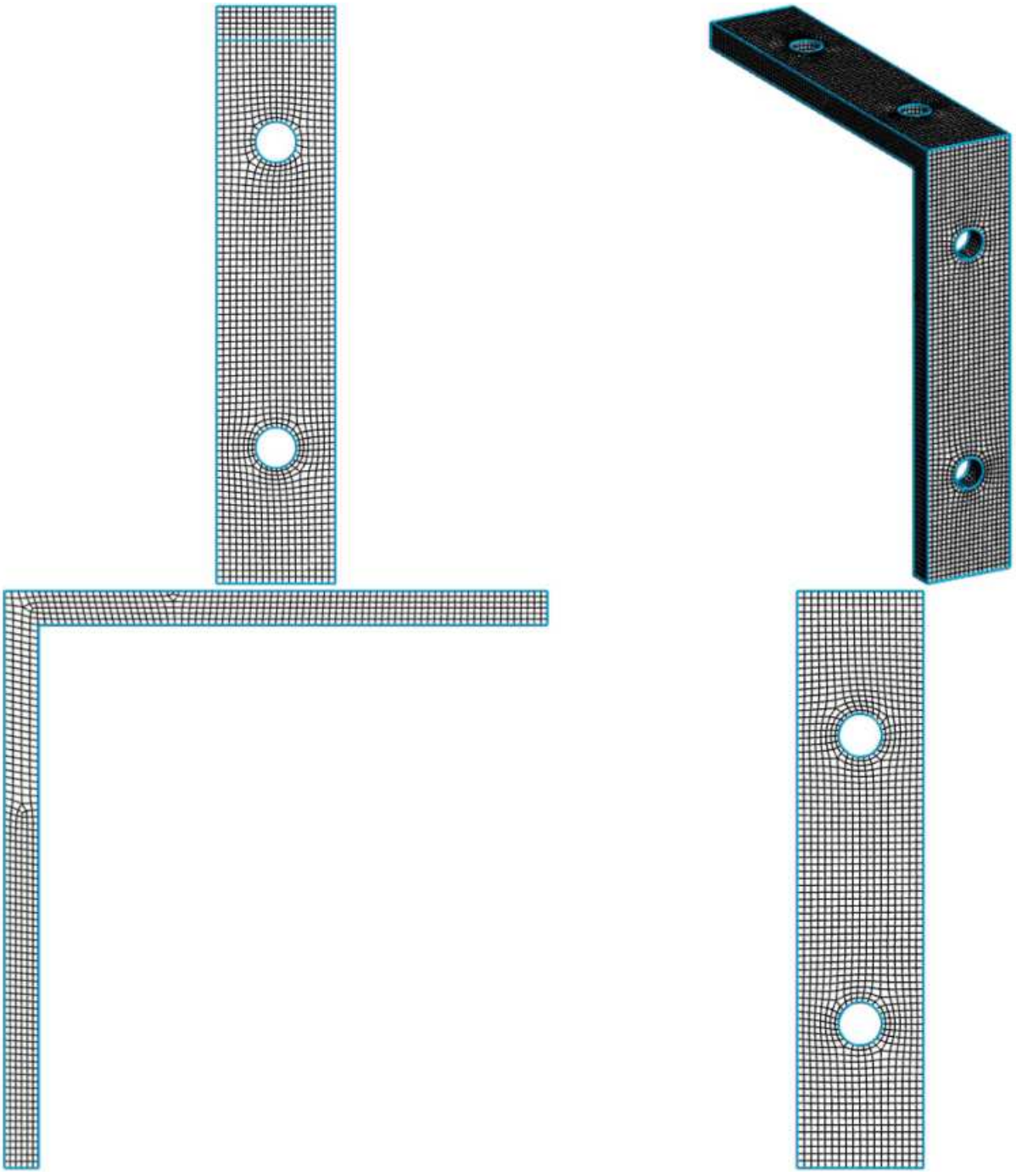


Model: 00009255 (from ABC dataset)
CAD: 22 corners, 32 curves, 12 faces
Cross field: 32 singularities detected
Timings: 3.8656 sec to generate the unstructured mesh, 0.728749 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	8328	9316	162	31
Quasi-structured	8496	9484	44	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.37539	1.21052	1.97866	0.481729	0.966773	0.994525
Quasi-structured	0.55648	1.19552	1.97311	0.70655	0.983119	0.992316

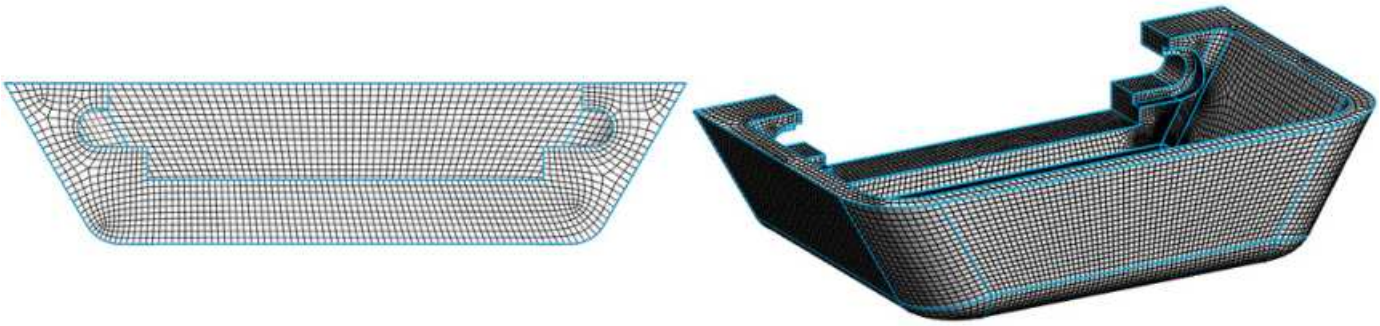


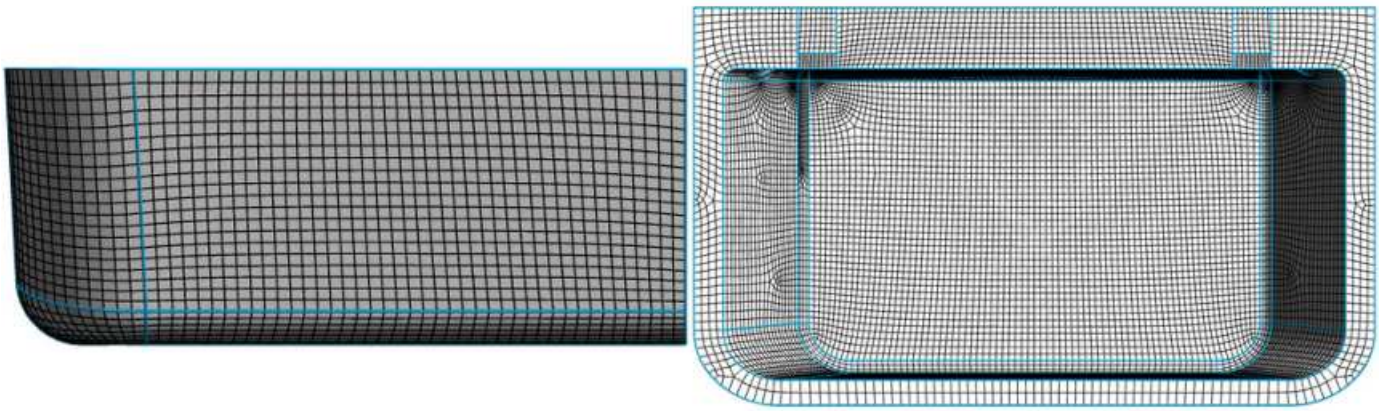
Model: 00009273 (from ABC dataset)
CAD: 86 corners, 135 curves, 51 faces
Cross field: 21 singularities detected
Timings: 16.1839 sec to generate the unstructured mesh, 20.4352 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24538	27065	551	16
Quasi-structured	24966	27493	176	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0174727	0.747518	2.01249	0.103253	0.907542	0.981175
Quasi-structured	0.0192537	0.736399	1.94121	0.172508	0.915423	0.982073



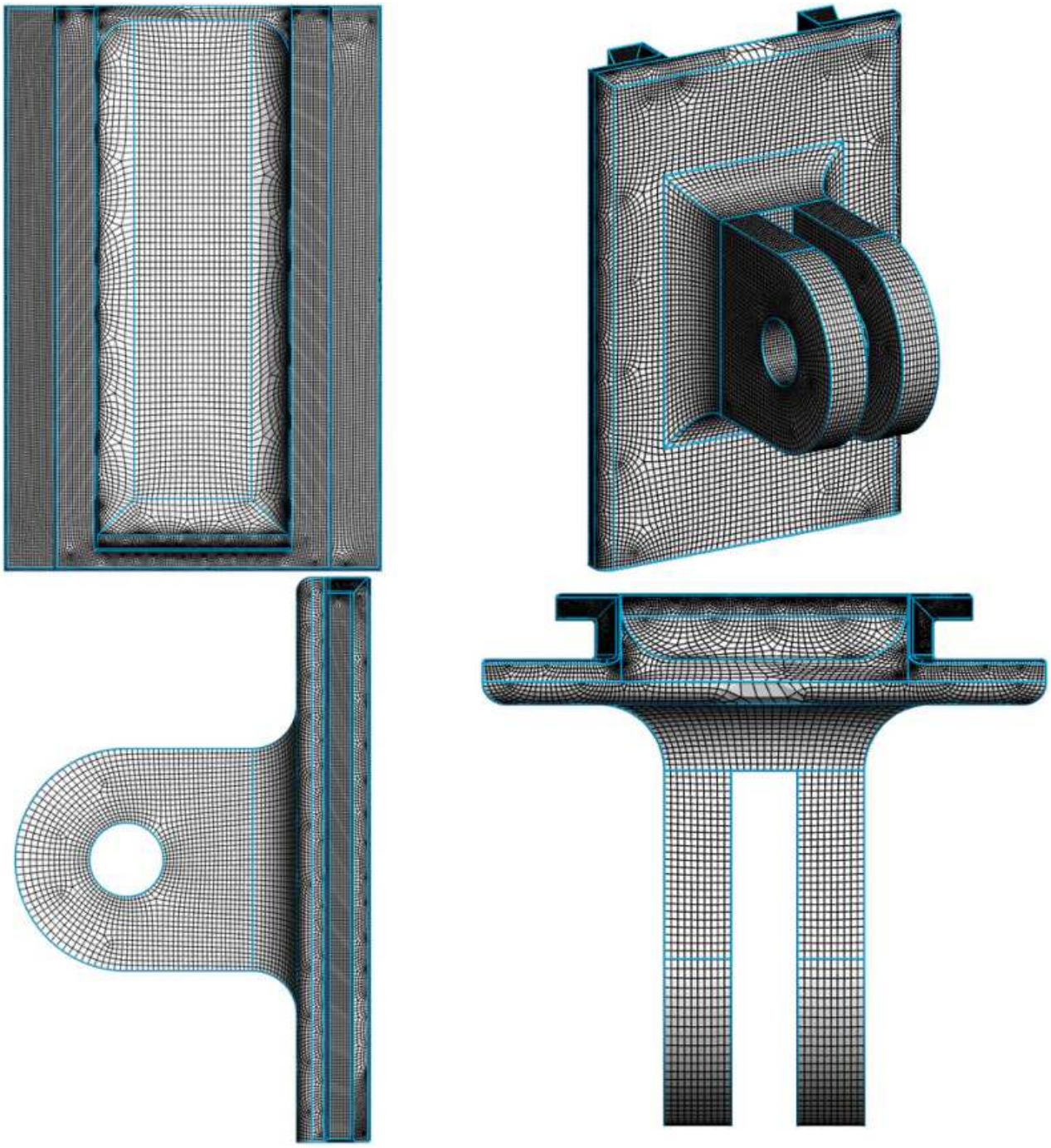


Model: 00009278 (from ABC dataset)
CAD: 131 corners, 217 curves, 89 faces
Cross field: 53 singularities detected
Timings: 18.1555 sec to generate the unstructured mesh, 88.6901 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	76830	87940	3402	201
Quasi-structured	85940	97050	862	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00487958	0.201915	0.864343	-0.3381	0.929332	0.976003
Quasi-structured	0.00819216	0.19107	0.980384	0.0122555	0.943277	0.972507

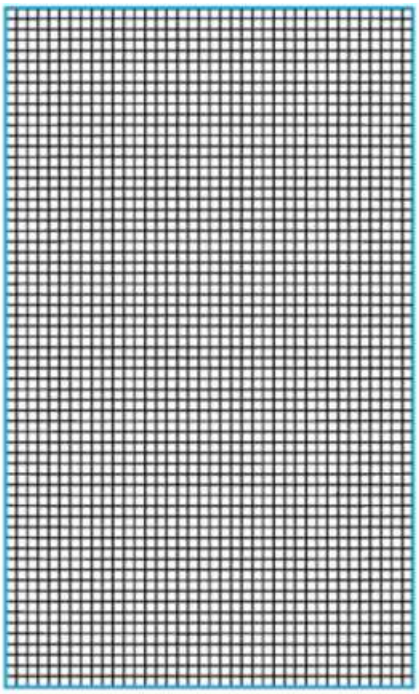


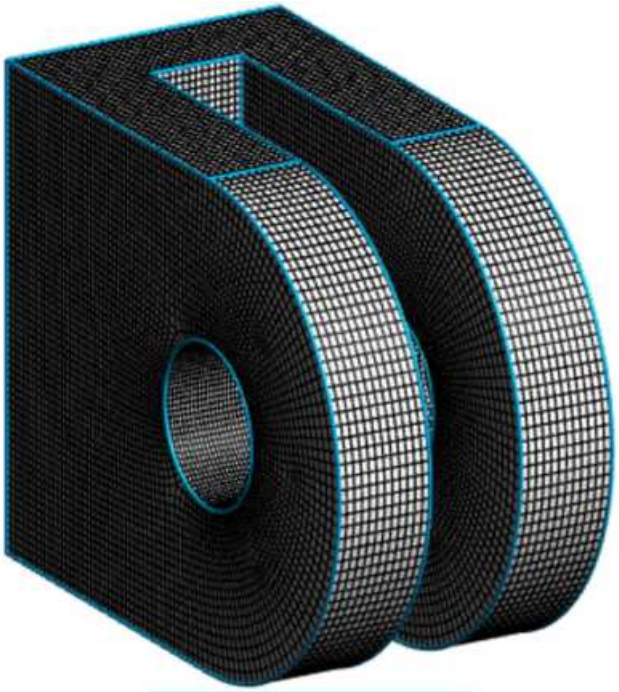
Model: 00009279 (from ABC dataset)
CAD: 21 corners, 31 curves, 12 faces
Cross field: 8 singularities detected
Timings: 21.1381 sec to generate the unstructured mesh, 4.01363 sec to make it quasi-structured
Mesh topology:

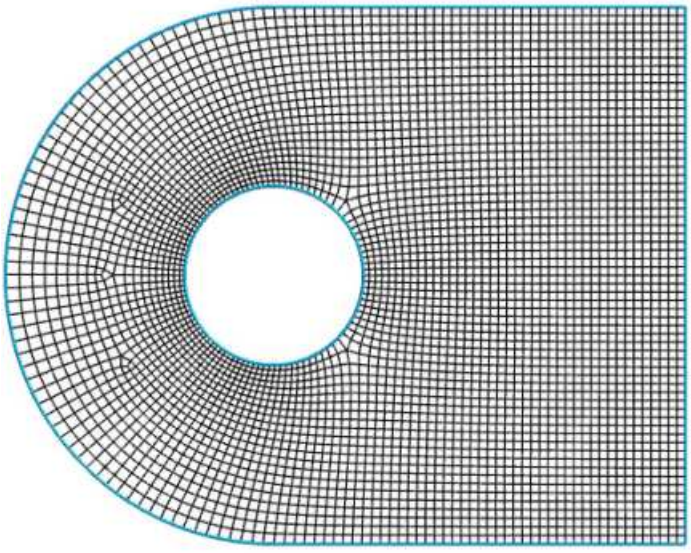
	# quads	# vertices	# irregular	# very irregular
Unstructured	26552	27950	156	44
Quasi-structured	26788	28186	26	0

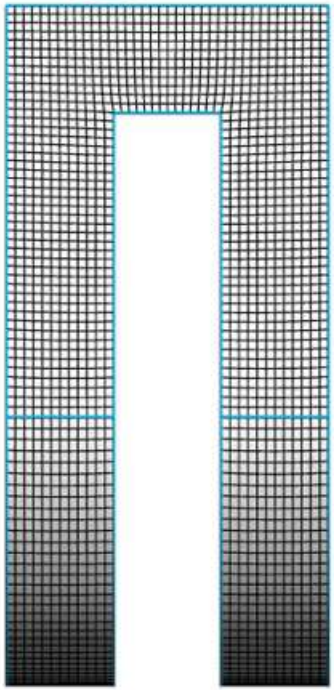
Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0512238	0.229321	0.425001	0.534019	0.984751	0.996615
Quasi-structured	0.127352	0.228013	0.470843	0.662139	0.991419	0.998264







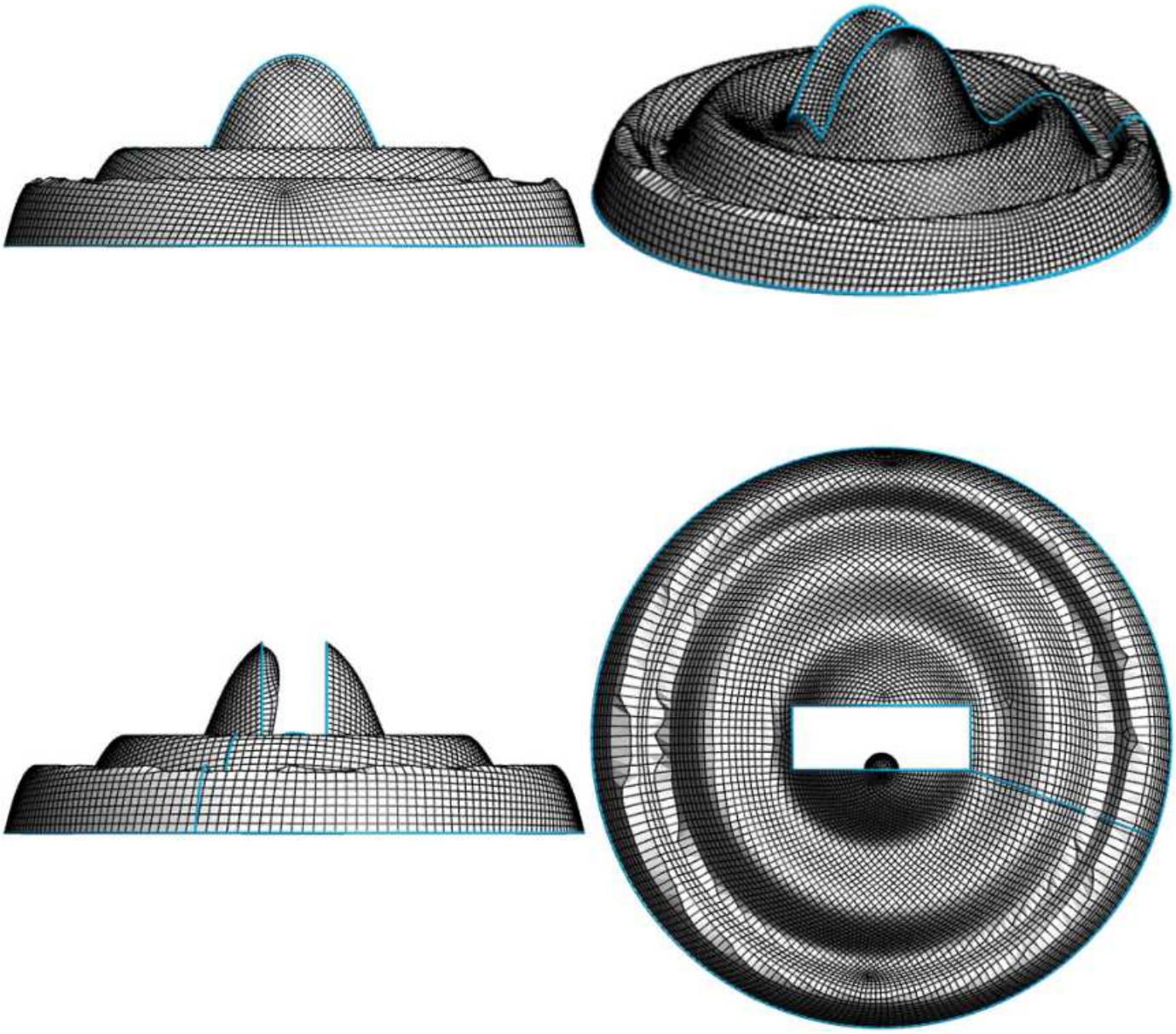


Model: 00009289 (from ABC dataset)
CAD: 12 corners, 20 curves, 7 faces
Cross field: 14 singularities detected
Timings: 25.9243 sec to generate the unstructured mesh, 4.38676 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	14212	14754	276	38
Quasi-structured	14338	14880	39	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0271125	0.781501	1.59687	0.0171957	0.968496	0.989033
Quasi-structured	0.0271125	0.772534	2.51799	0.0171957	0.978405	0.990682

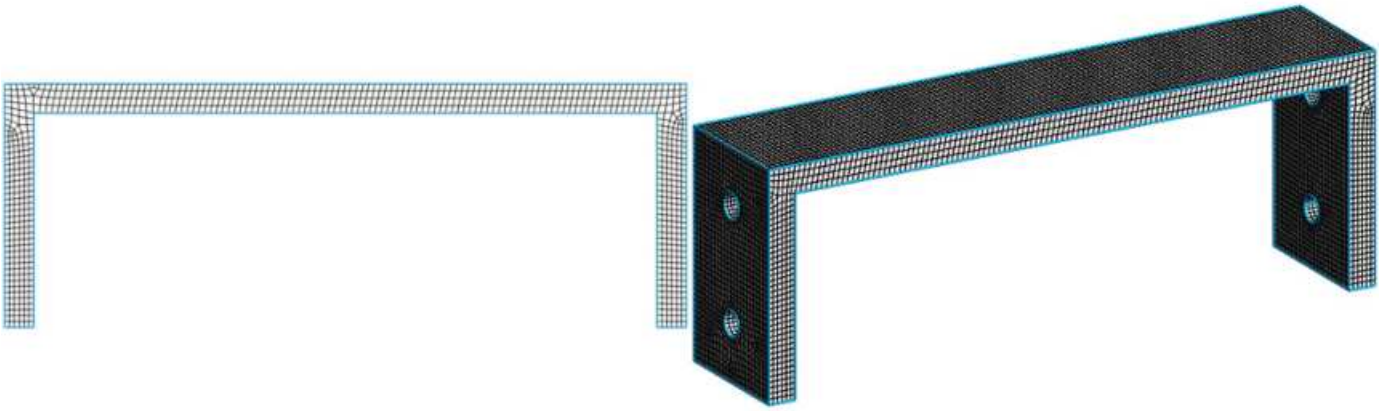


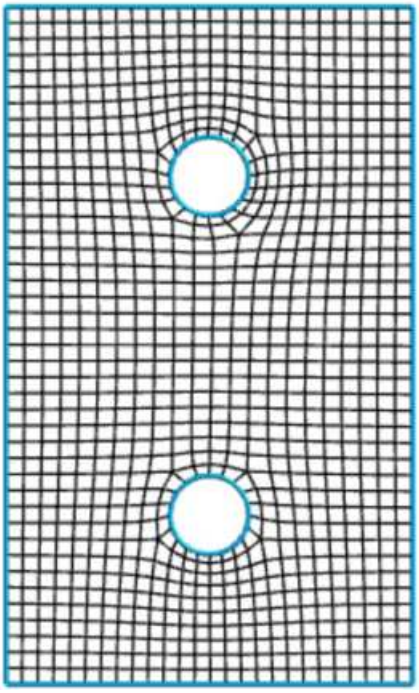
Model: 00009307 (from ABC dataset)
CAD: 28 corners, 40 curves, 14 faces
Cross field: 32 singularities detected
Timings: 5.32741 sec to generate the unstructured mesh, 0.872098 sec to make it quasi-structured
Mesh topology:

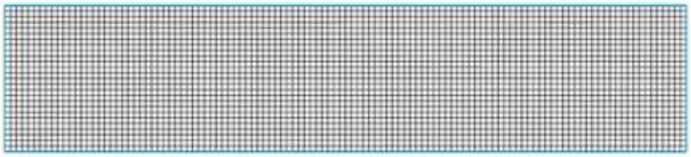
	# quads	# vertices	# irregular	# very irregular
Unstructured	12152	13306	188	31
Quasi-structured	12294	13448	54	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.184046	0.592651	0.960396	0.553089	0.975896	0.998931
Quasi-structured	0.276173	0.588146	0.981444	0.707073	0.986907	0.99881





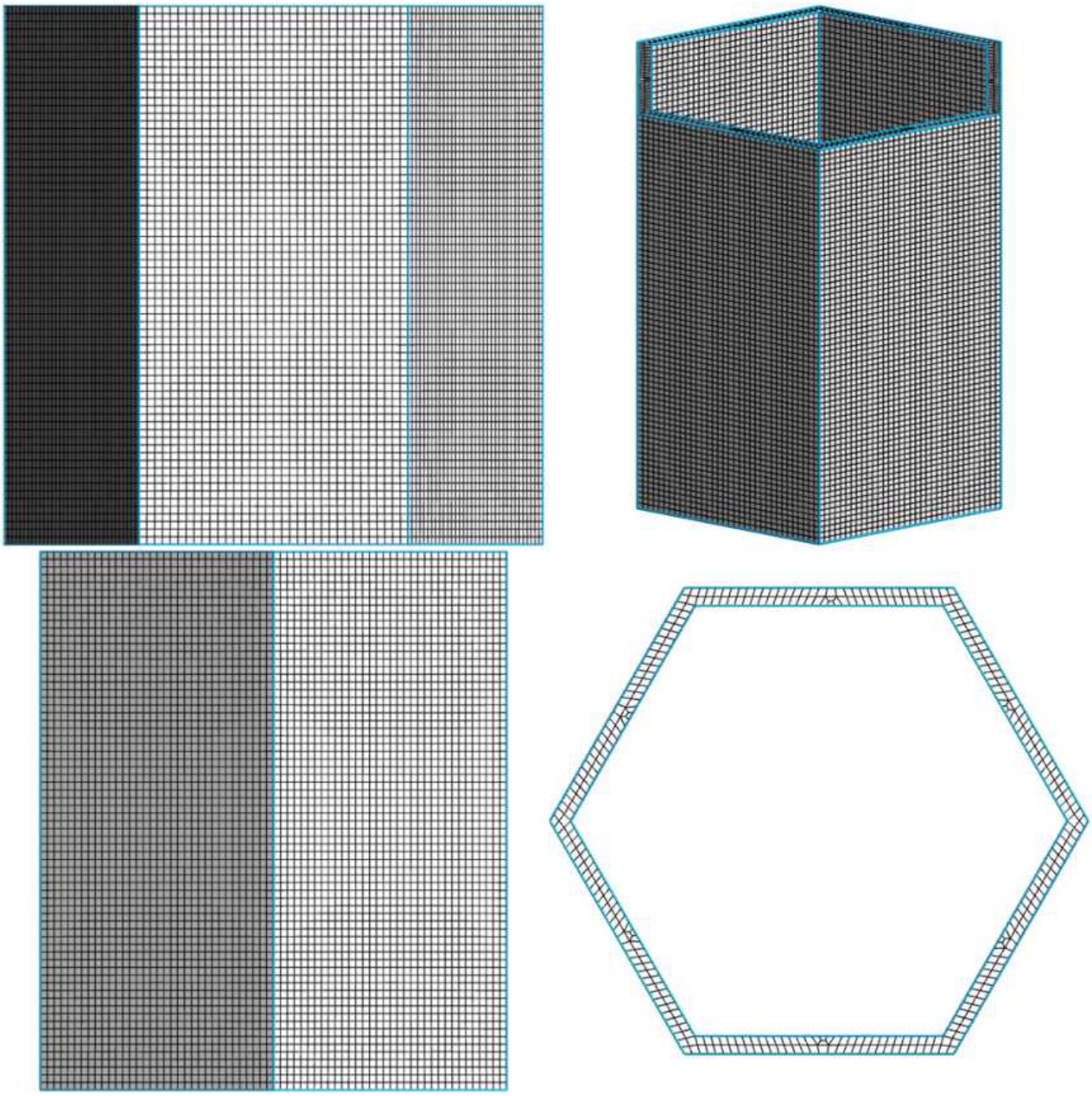


Model: 00009308 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 11.0077 sec to generate the unstructured mesh, 1.3016 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27756	29376	24	0
Quasi-structured	27756	29376	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.539609	0.880231	1.09432	0.724924	0.996874	0.999271
Quasi-structured	0.520457	0.880202	1.23545	0.660713	0.996799	0.999093

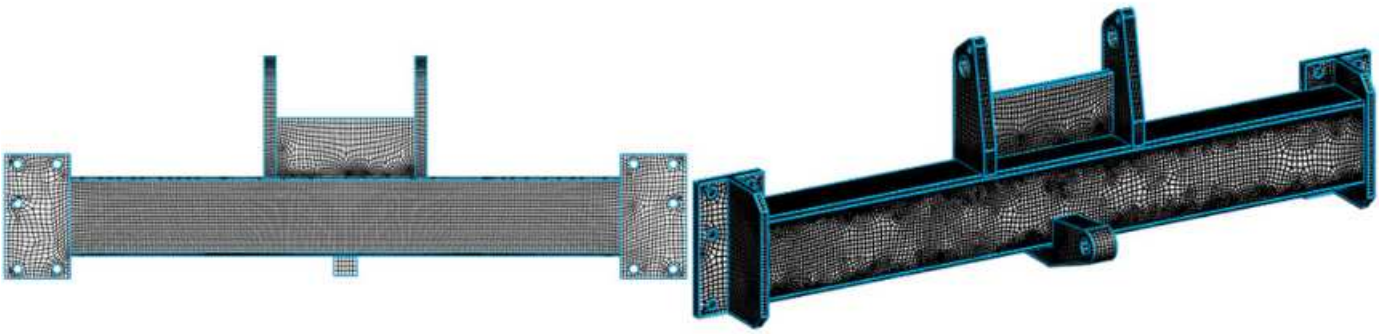


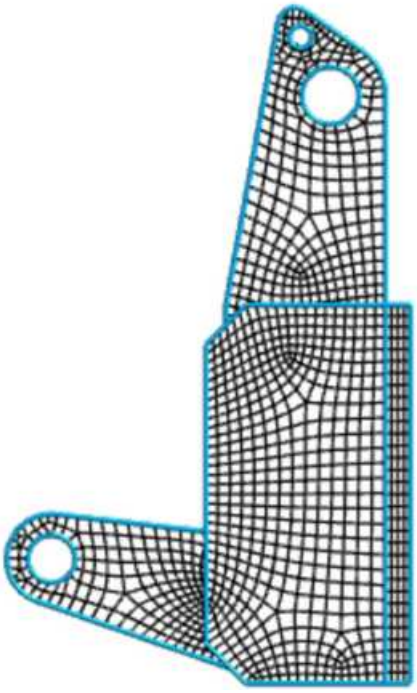
Model: 00009328 (from ABC dataset)
CAD: 170 corners, 262 curves, 96 faces
Cross field: 125 singularities detected
Timings: 17.2477 sec to generate the unstructured mesh, 623.259 sec to make it quasi-structured
Mesh topology:

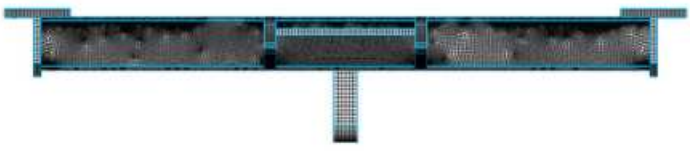
	# quads	# vertices	# irregular	# very irregular
Unstructured	175794	189591	7044	1306
Quasi-structured	178303	192100	5152	53

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.147717	5.40018	31.4277	0.019615	0.765607	0.82379
Quasi-structured	0.0987578	5.30078	38.2462	0.0516997	0.789429	0.842561





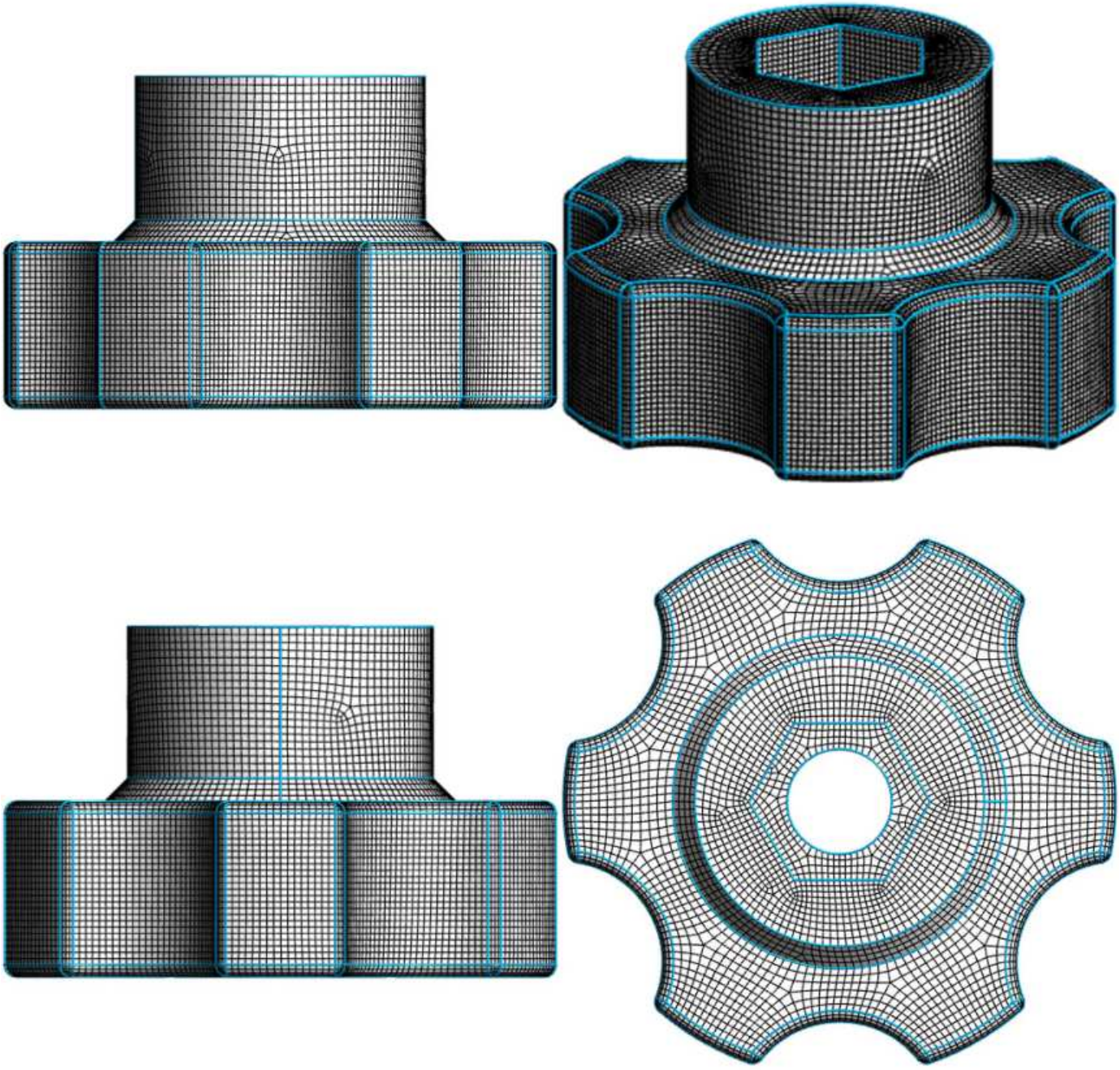


Model: 00009360 (from ABC dataset)
CAD: 89 corners, 194 curves, 85 faces
Cross field: 60 singularities detected
Timings: 16.3865 sec to generate the unstructured mesh, 3.14979 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21292	24080	328	59
Quasi-structured	21046	23834	94	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.185888	0.595799	1.22532	0.410741	0.965847	0.994797
Quasi-structured	0.224941	0.596729	2.22513	0.616016	0.97439	0.996241

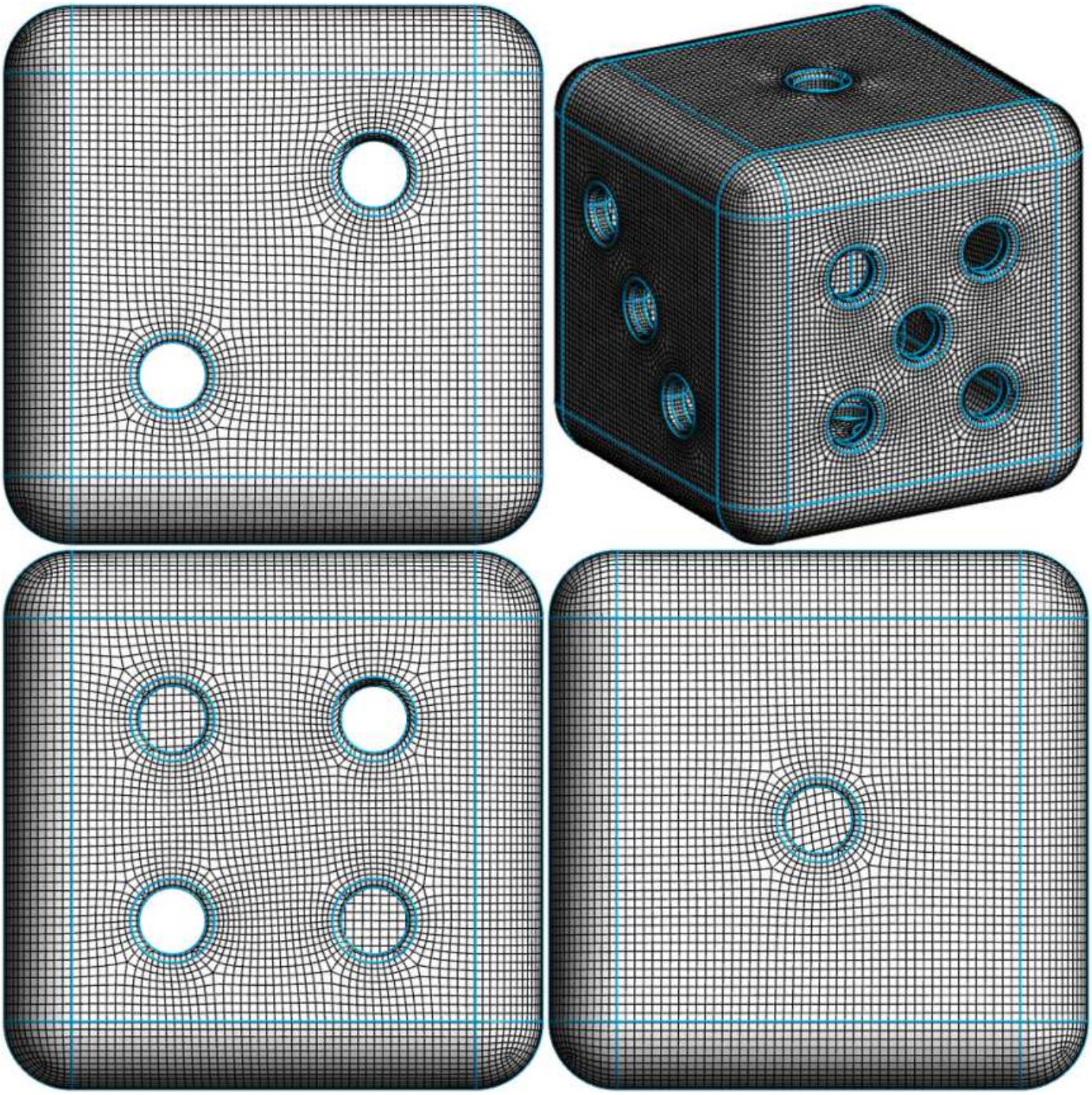


Model: 00009361 (from ABC dataset)
CAD: 132 corners, 259 curves, 115 faces
Cross field: 184 singularities detected
Timings: 33.4713 sec to generate the unstructured mesh, 6.66962 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	44728	50956	1529	208
Quasi-structured	45863	52091	686	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.124778	0.459789	0.942875	0.112737	0.96269	0.988555
Quasi-structured	0.0672396	0.453444	0.955885	0.219197	0.969376	0.993281



Model: 00009367 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 6.54583 sec to generate the unstructured mesh, 3624.86 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	126894	138454	7693	569
Quasi-structured	127976	139536	7404	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.167652	1.43195	7.06456	0.0309003	0.913034	0.983495
Quasi-structured	0.250897	1.42136	7.0963	0.0315485	0.955371	0.994502



Model: 00009368 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 6.9518 sec to generate the unstructured mesh, 3107.79 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	140366	152318	7137	863
Quasi-structured	141942	153894	6728	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.177755	1.56006	9.92011	0.0359634	0.914377	0.984424
Quasi-structured	0.239023	1.52812	10.828	0.0368086	0.959302	0.995105

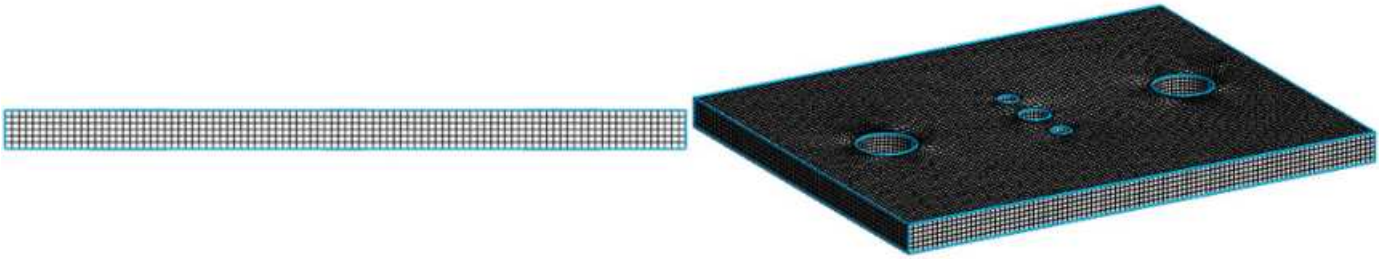


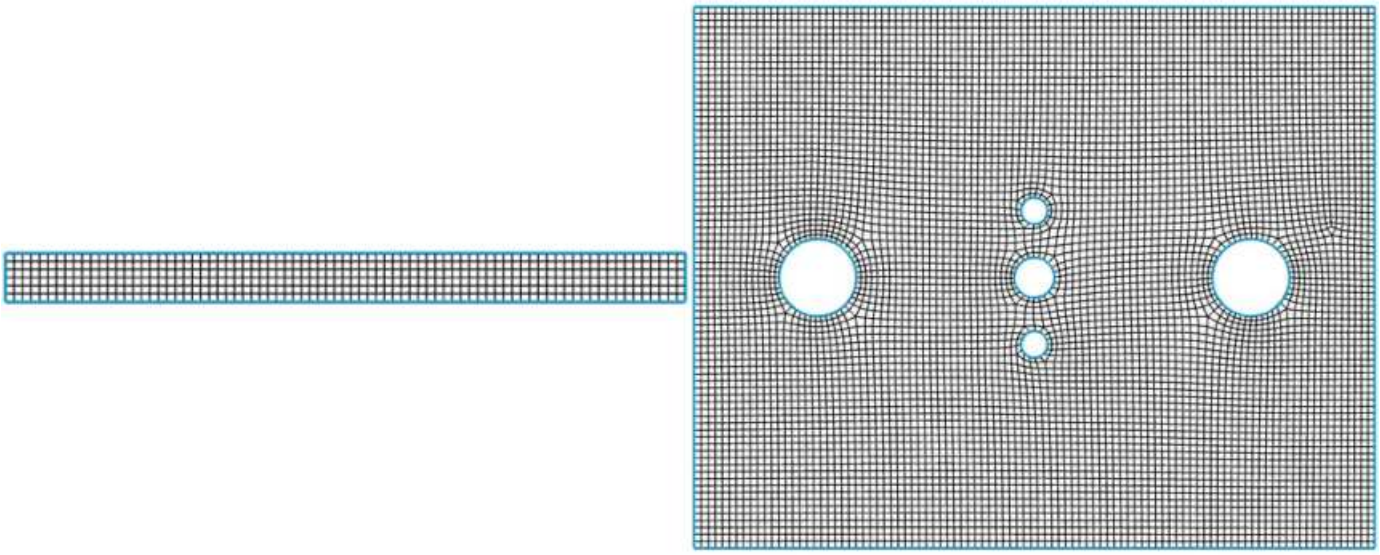
Model: 00009378 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 40 singularities detected
Timings: 10.983 sec to generate the unstructured mesh, 1.92242 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17698	18716	214	37
Quasi-structured	18008	19026	48	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.111058	0.565191	0.924515	0.482143	0.980177	0.998001
Quasi-structured	0.257573	0.559109	0.941045	0.625601	0.99465	0.999021



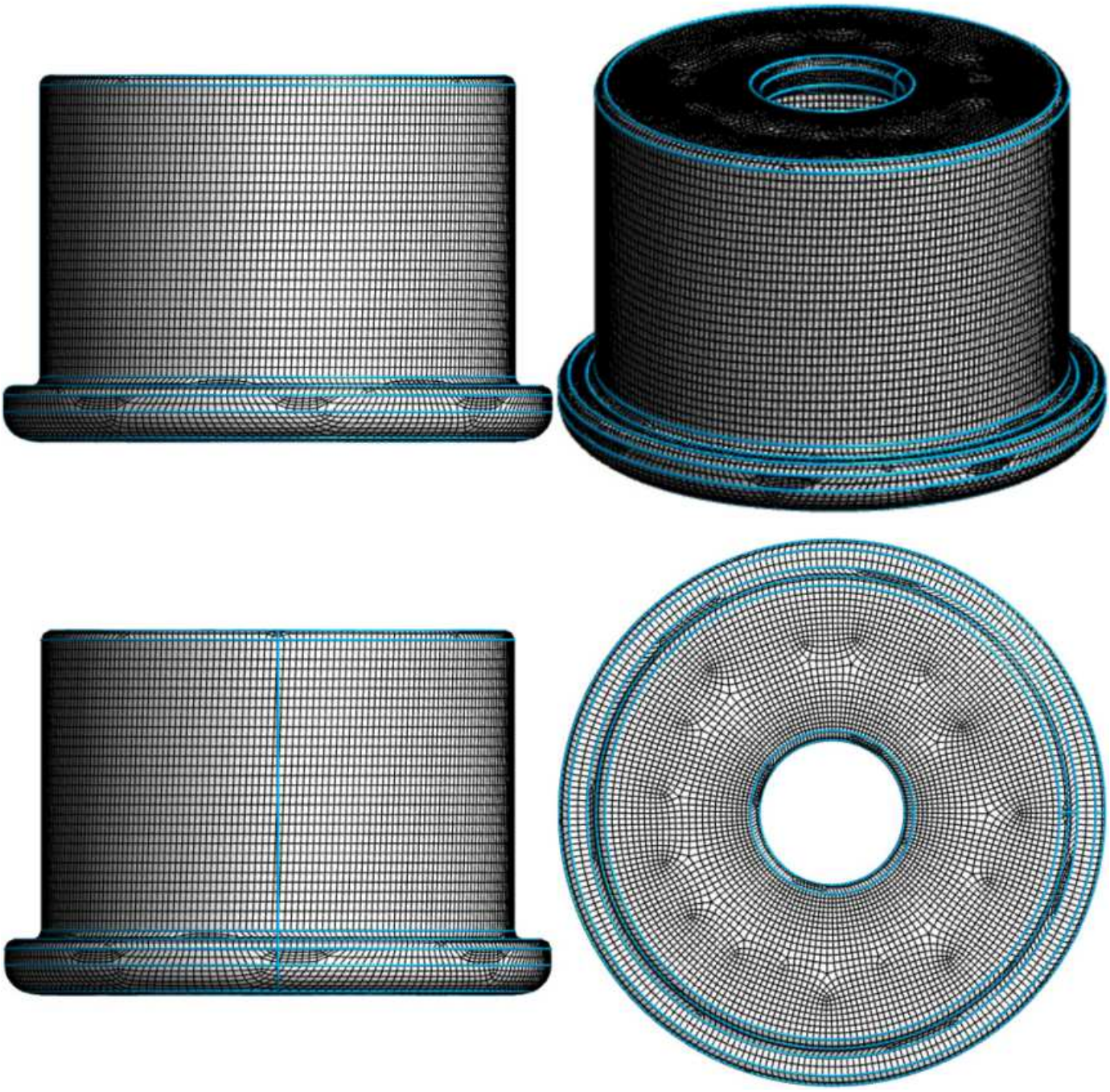


Model: 00009404 (from ABC dataset)
CAD: 19 corners, 31 curves, 16 faces
Cross field: 2 singularities detected
Timings: 18.2986 sec to generate the unstructured mesh, 21.4637 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25844	28942	591	121
Quasi-structured	27950	31048	246	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0942983	1.22717	3.30277	0.110726	0.938251	0.976981
Quasi-structured	0.227793	1.19806	2.66069	0.324931	0.941482	0.968294

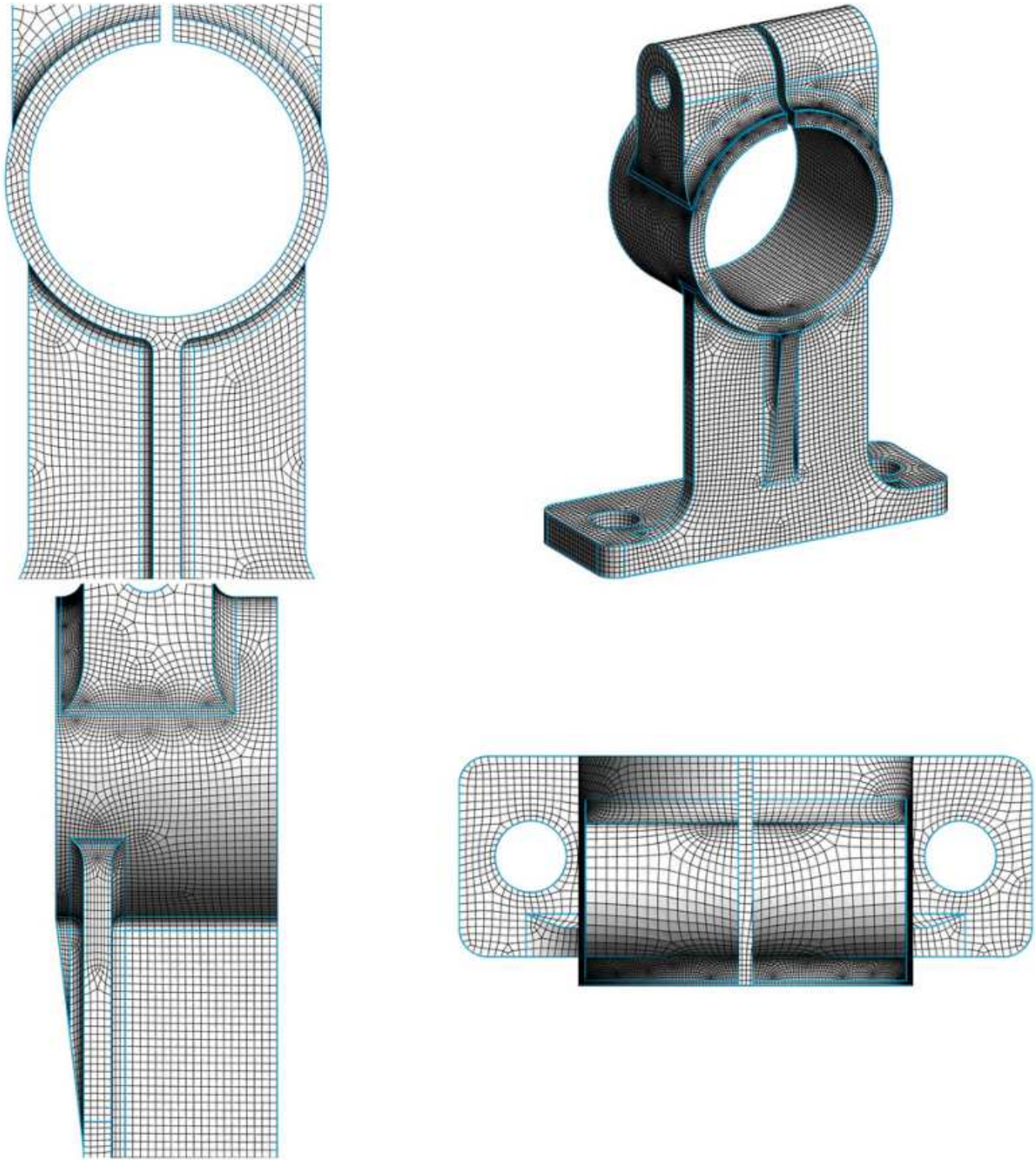


Model: 00009410 (from ABC dataset)
CAD: 122 corners, 193 curves, 71 faces
Cross field: 74 singularities detected
Timings: 18.5382 sec to generate the unstructured mesh, 84.6514 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	26612	30247	1226	127
Quasi-structured	28337	31972	356	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0045136	1.36475	4.25604	0.00934692	0.932695	0.982336
Quasi-structured	0.00394662	1.3247	4.18653	0.00934692	0.949009	0.986308

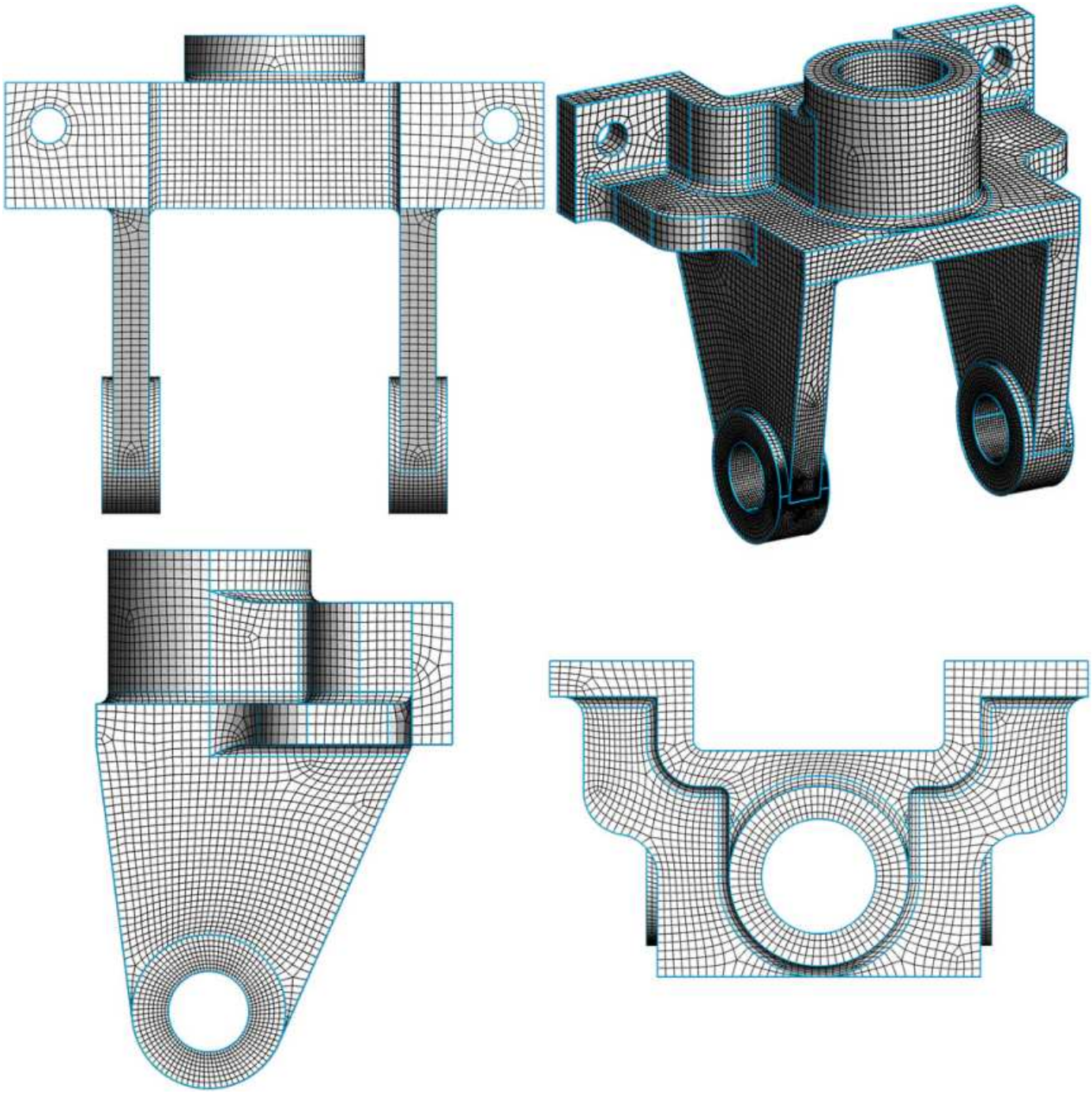


Model: 00009414 (from ABC dataset)
CAD: 119 corners, 192 curves, 73 faces
Cross field: 75 singularities detected
Timings: 9.5061 sec to generate the unstructured mesh, 24.1127 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23398	26611	868	153
Quasi-structured	23981	27194	294	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00507594	1.47956	4.32891	4.63833e-05	0.945399	0.986245
Quasi-structured	0.00311031	1.47501	4.82149	0.00550565	0.953902	0.989282

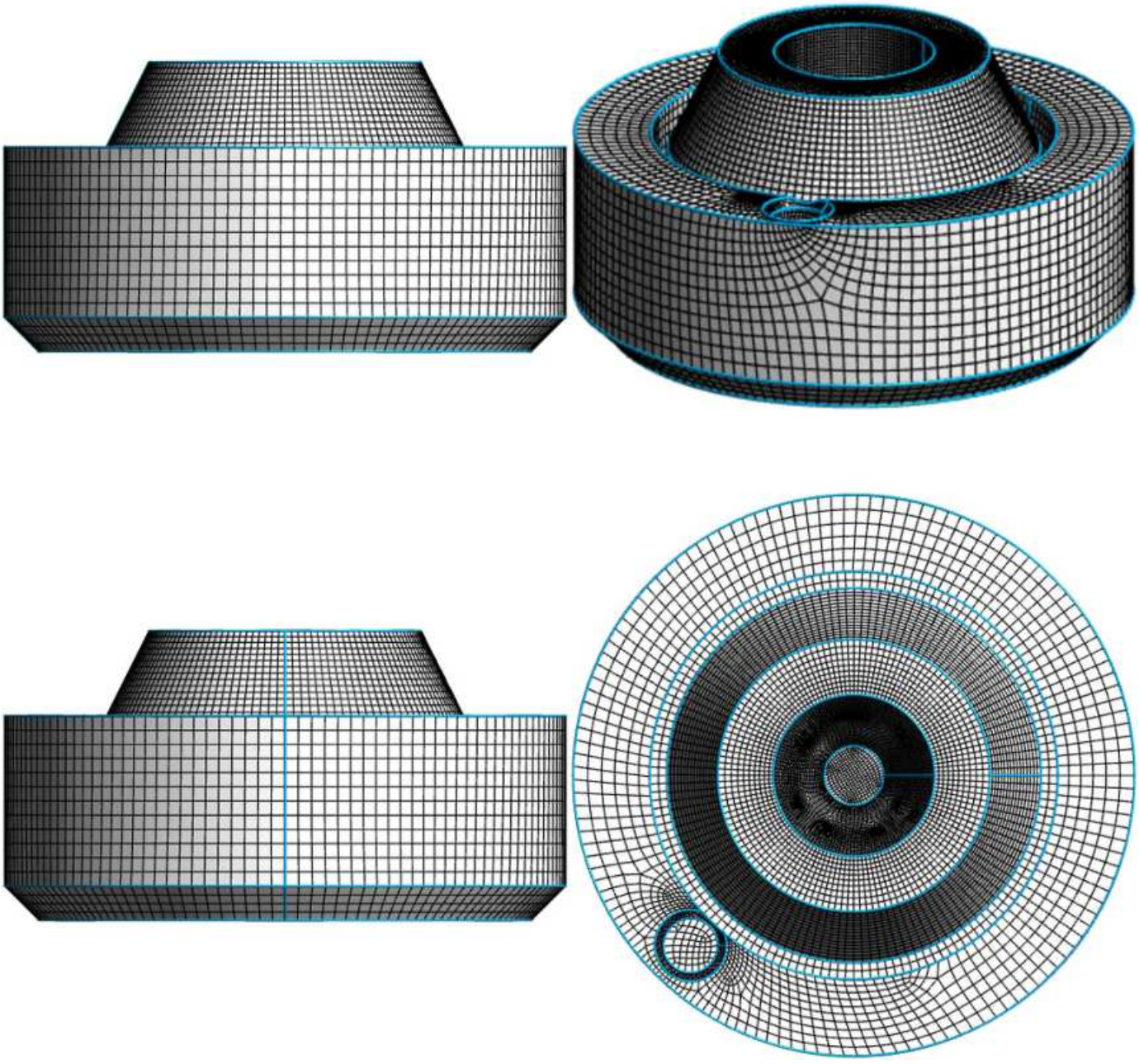


Model: 00009463 (from ABC dataset)
CAD: 16 corners, 26 curves, 15 faces
Cross field: 15 singularities detected
Timings: 15.3396 sec to generate the unstructured mesh, 4.32406 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23114	24665	300	158
Quasi-structured	22843	24394	76	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0694277	0.395583	1.179	0.264484	0.980201	0.997473
Quasi-structured	0.0628744	0.398649	1.37458	0.293928	0.982077	0.997489

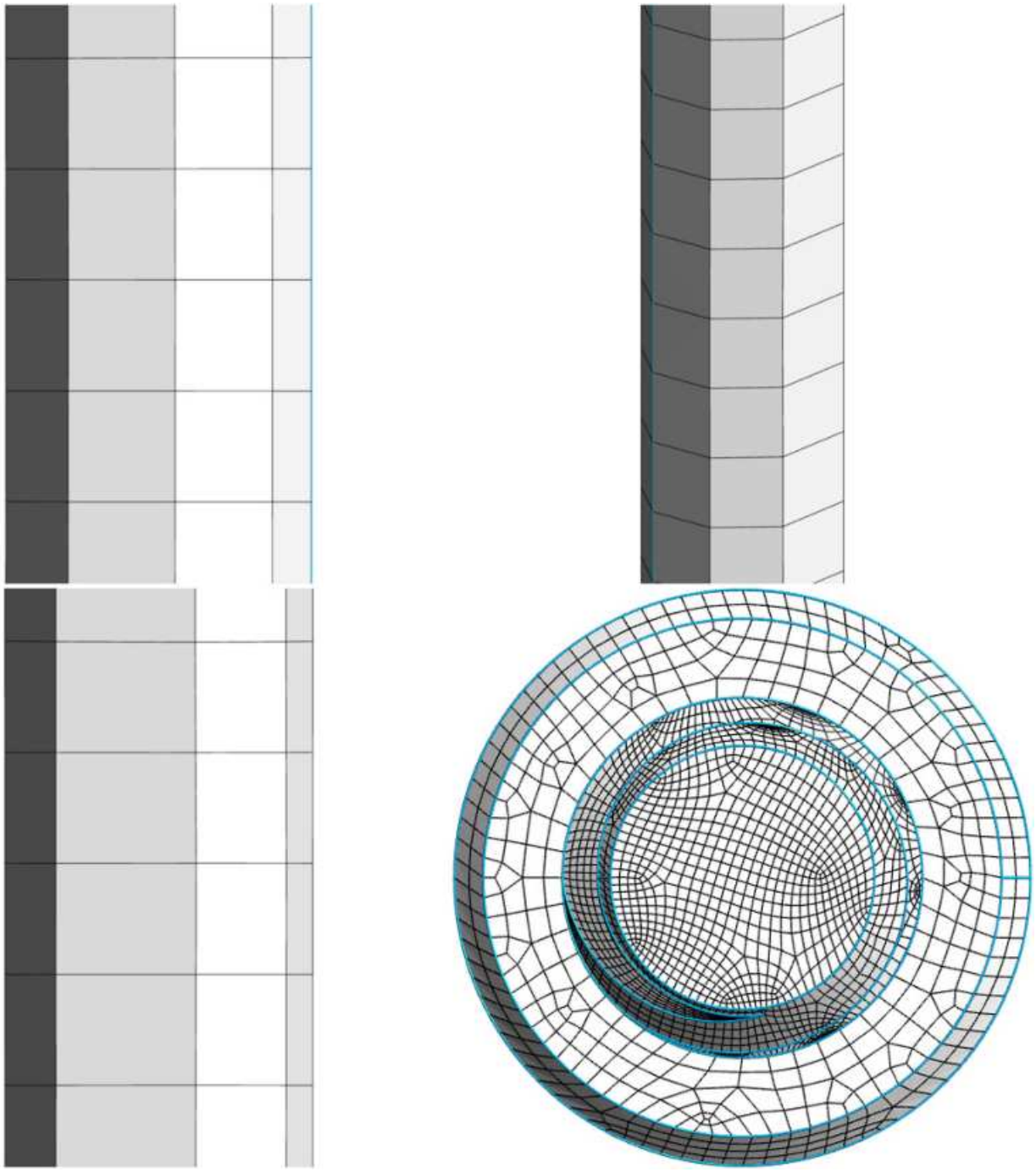


Model: 00009480 (from ABC dataset)
CAD: 31 corners, 47 curves, 19 faces
Cross field: 14 singularities detected
Timings: 19.0798 sec to generate the unstructured mesh, 250.95 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19328	23777	1923	352
Quasi-structured	19516	23965	1029	15

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00469692	0.539095	5.96167	-0.117895	0.751318	0.837981
Quasi-structured	0.00794684	0.534227	6.72721	-0.117895	0.752913	0.85594

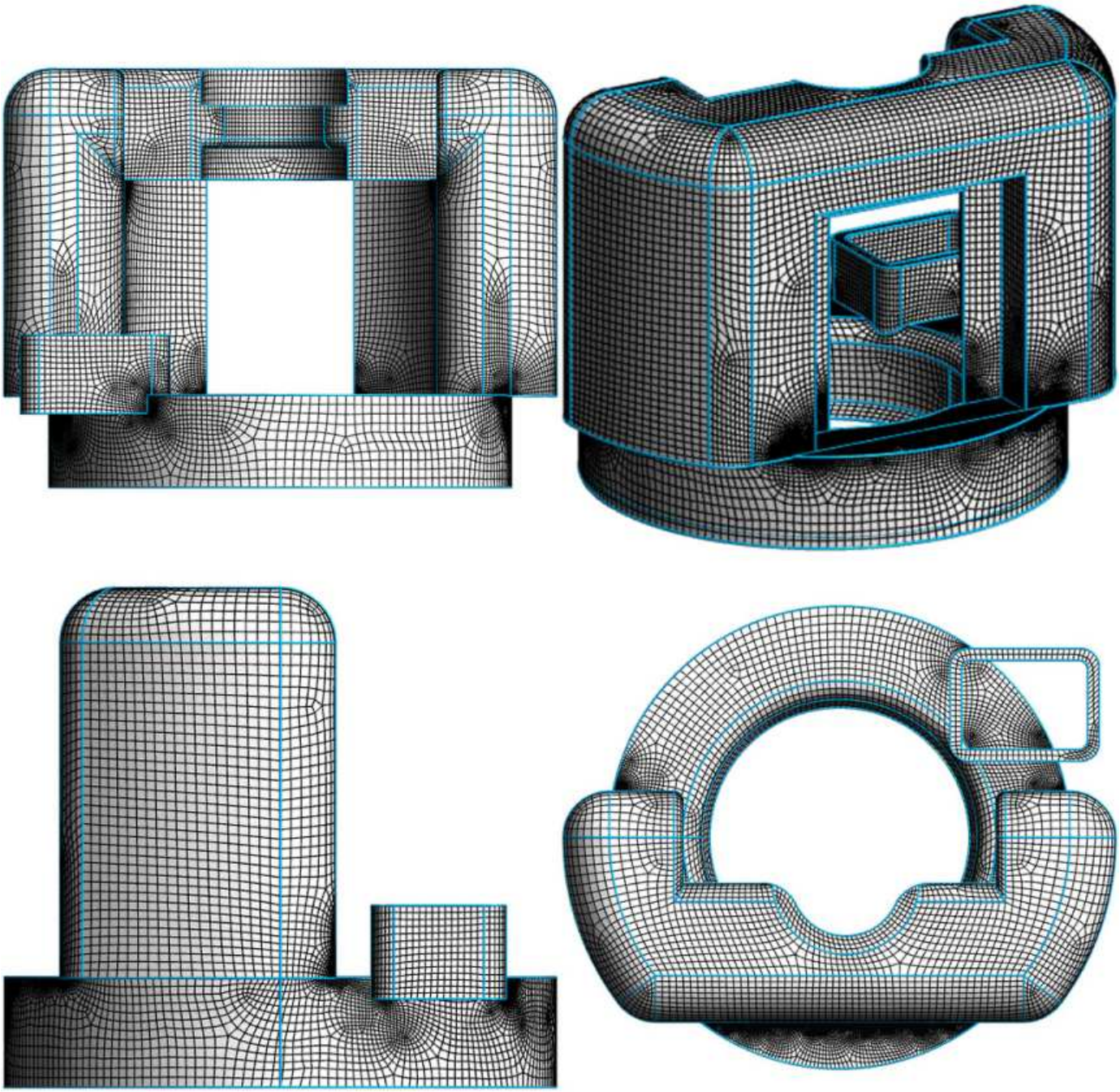


Model: 00009498 (from ABC dataset)
CAD: 184 corners, 298 curves, 108 faces
Cross field: 38 singularities detected
Timings: 29.0879 sec to generate the unstructured mesh, 296.719 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	65492	74023	3973	324
Quasi-structured	67266	75797	1076	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00260274	0.428869	1.95853	5.1527e-06	0.916312	0.969221
Quasi-structured	0.00259872	0.425072	2.86101	0.0124174	0.940897	0.973712

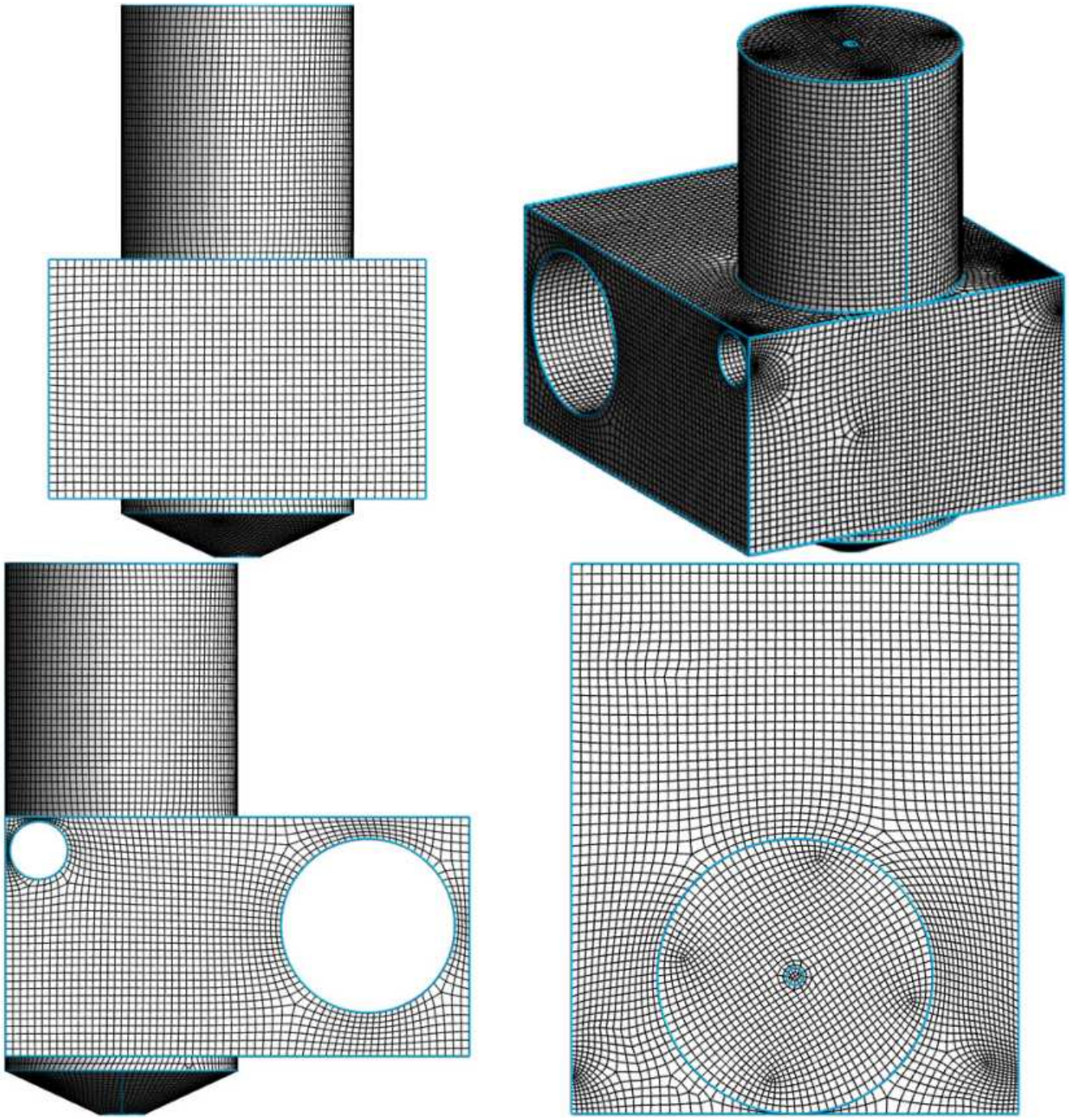


Model: 00009502 (from ABC dataset)
CAD: 25 corners, 38 curves, 17 faces
Cross field: 49 singularities detected
Timings: 20.5879 sec to generate the unstructured mesh, 9.69825 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	25300	26696	522	269
Quasi-structured	25530	26926	120	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.012205	0.231869	0.471877	0.0545054	0.970483	0.991825
Quasi-structured	0.00713969	0.231014	0.73878	0.0545054	0.980493	0.99766

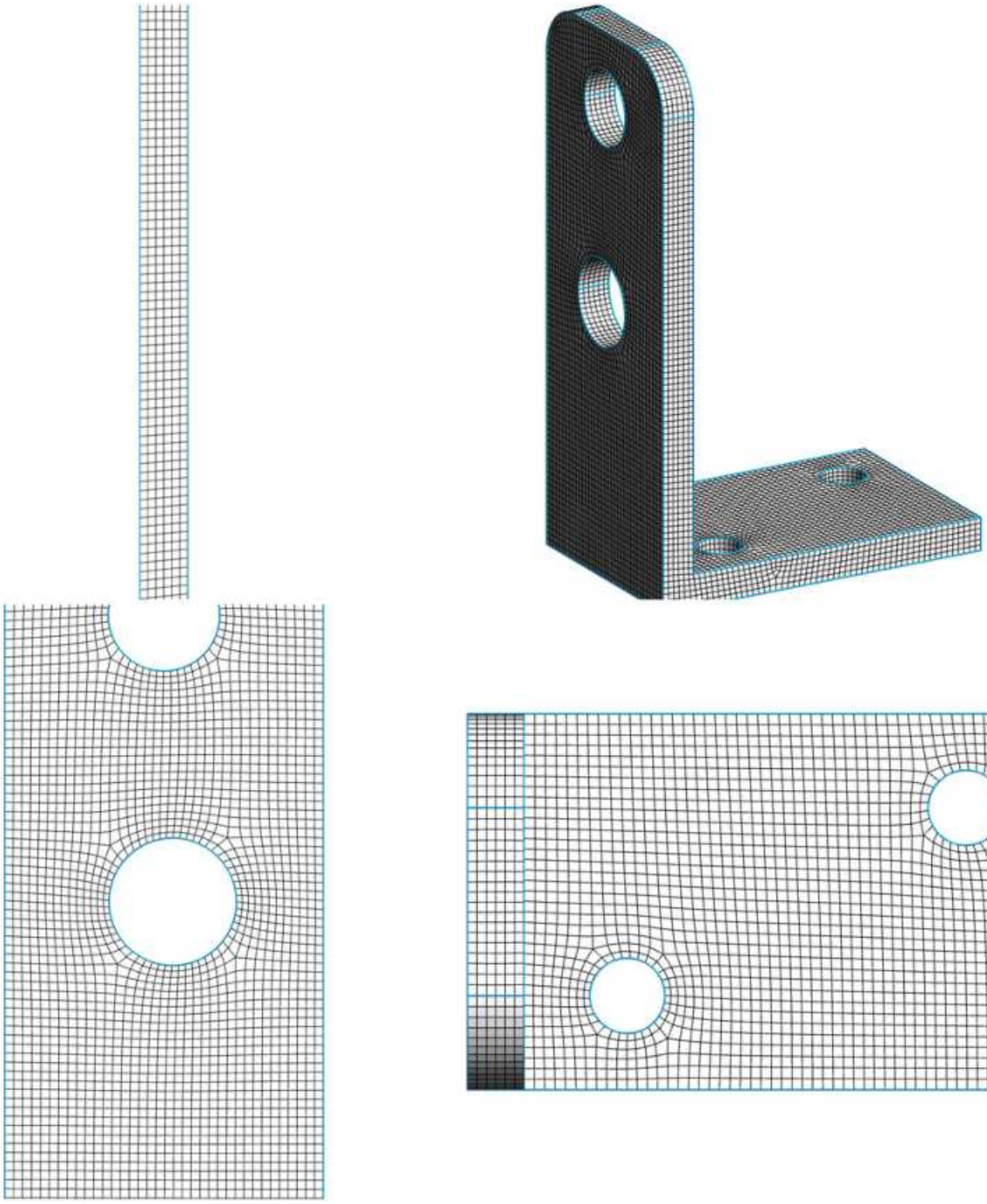


Model: 00009535 (from ABC dataset)
CAD: 26 corners, 38 curves, 14 faces
Cross field: 36 singularities detected
Timings: 6.57563 sec to generate the unstructured mesh, 0.923772 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	12374	13498	172	37
Quasi-structured	12474	13598	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.170656	0.546001	1.17588	0.562445	0.974632	0.995727
Quasi-structured	0.23216	0.543076	0.962989	0.708516	0.990545	0.995796

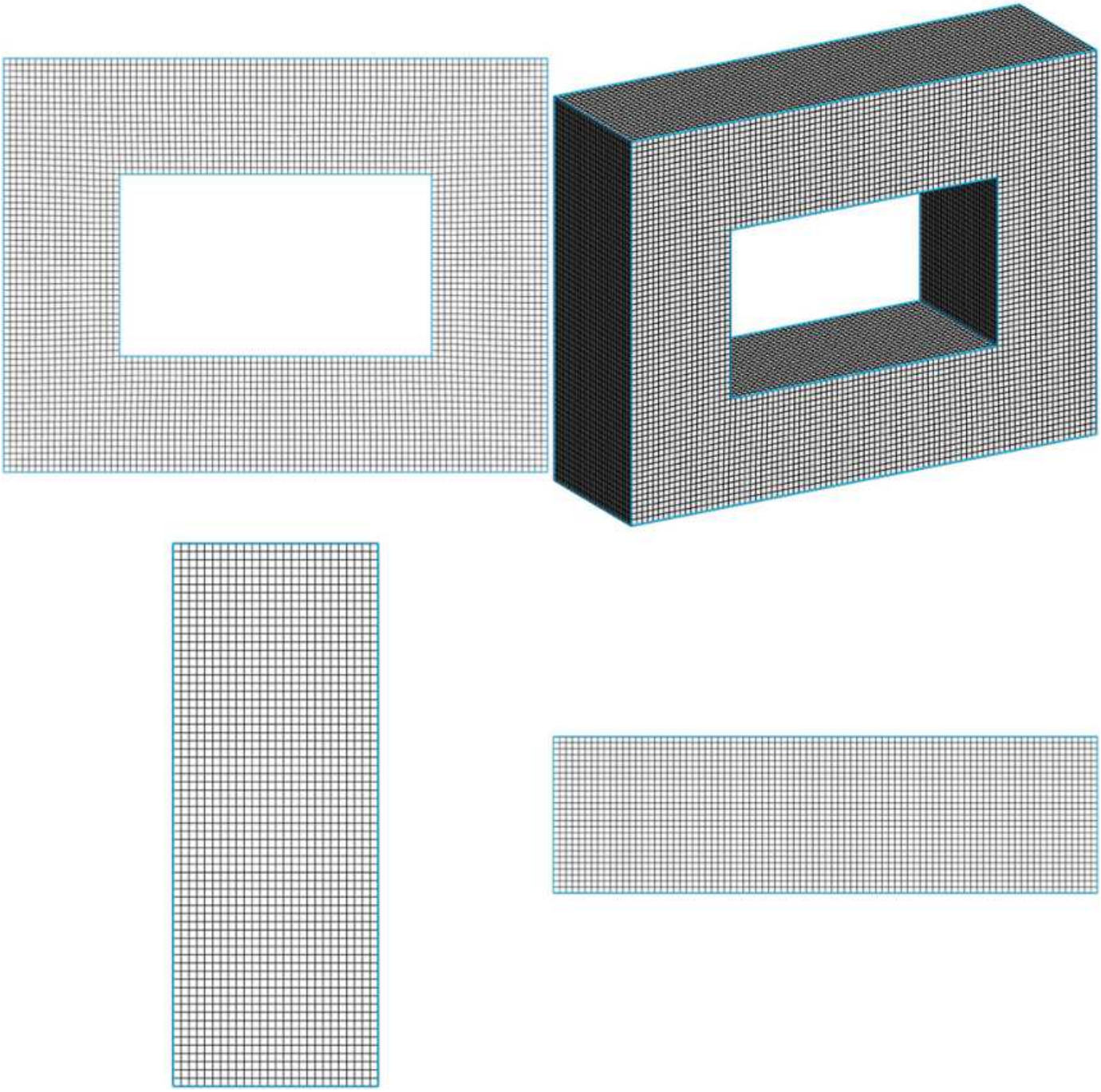


Model: 00009547 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 8.04335 sec to generate the unstructured mesh, 0.720623 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20416	21560	0	0
Quasi-structured	20416	21560	0	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.227908	0.239082	0.272135	0.974479	0.998897	0.999218
Quasi-structured	0.227934	0.239061	0.260401	0.99114	0.999183	0.999167

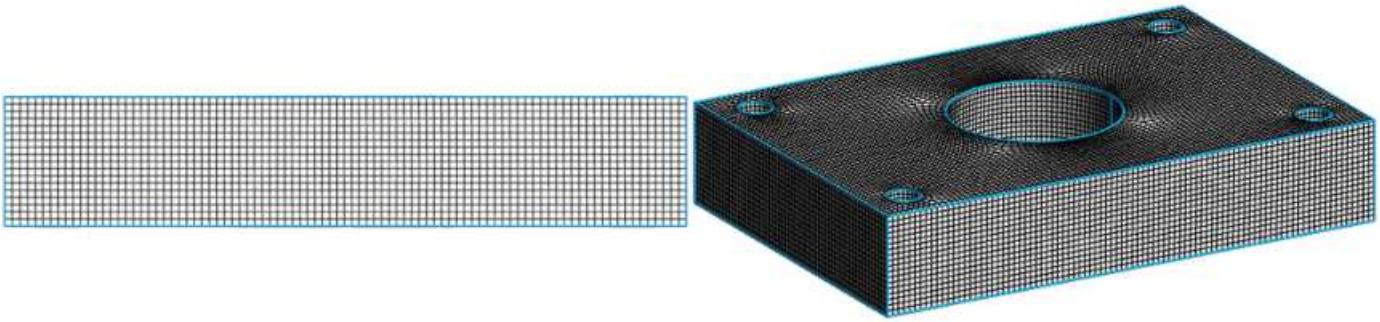


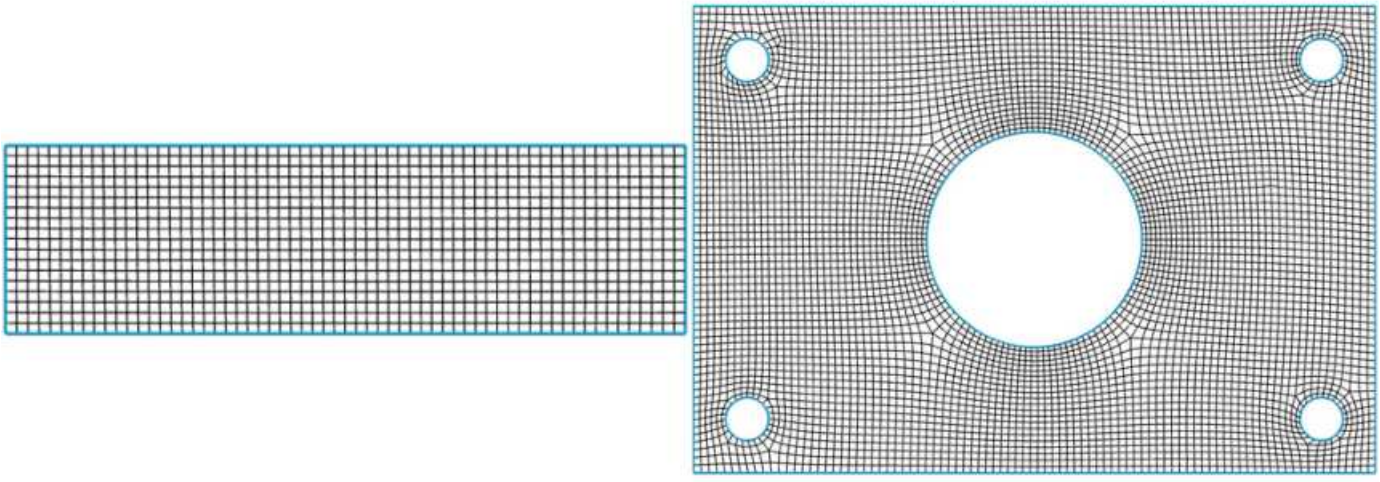
Model: 00009549 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 40 singularities detected
Timings: 10.2963 sec to generate the unstructured mesh, 2.46288 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20046	21134	316	123
Quasi-structured	20295	21383	46	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.227589	0.985053	1.76539	0.356607	0.978746	0.997758
Quasi-structured	0.487936	0.976616	2.06819	0.566389	0.99081	0.997795



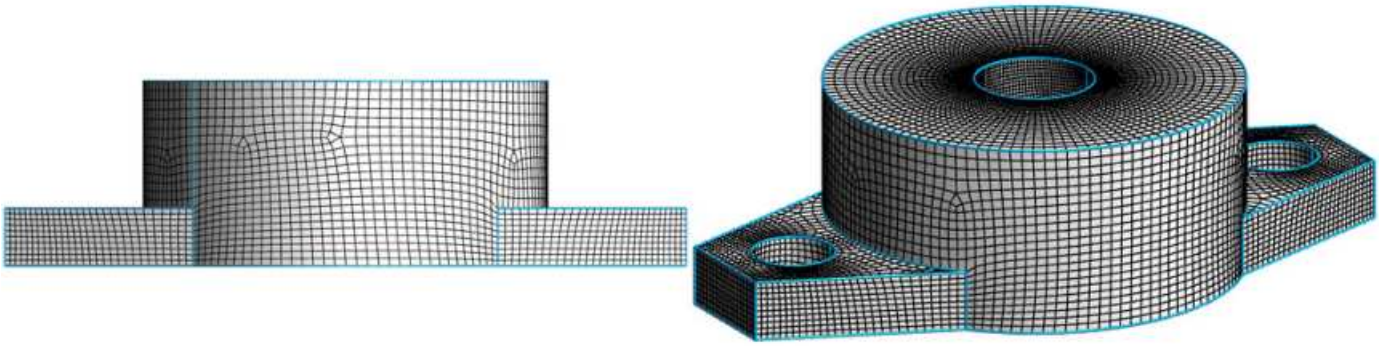


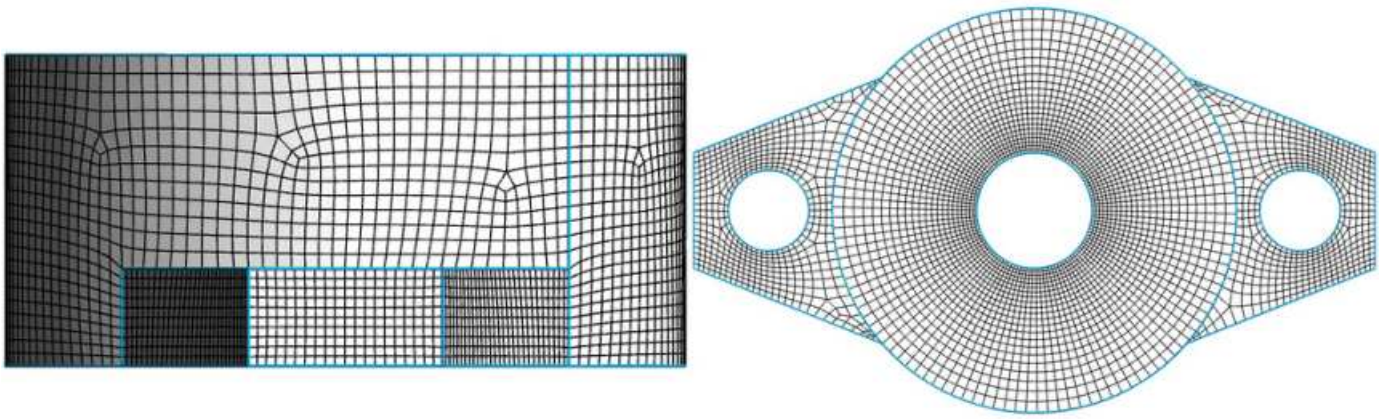
Model: 00009560 (from ABC dataset)
CAD: 23 corners, 35 curves, 14 faces
Cross field: 28 singularities detected
Timings: 7.44844 sec to generate the unstructured mesh, 3.40288 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	13970	14968	258	79
Quasi-structured	14577	15575	80	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.132068	0.575815	1.48437	0.402423	0.965445	0.985396
Quasi-structured	0.138285	0.564419	1.59035	0.411401	0.977191	0.991546



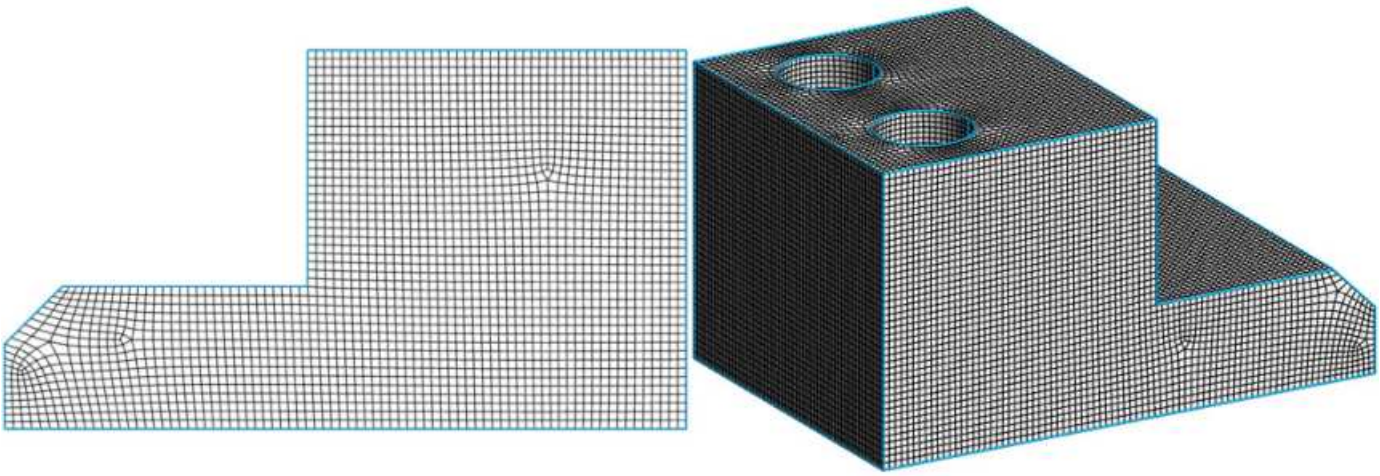


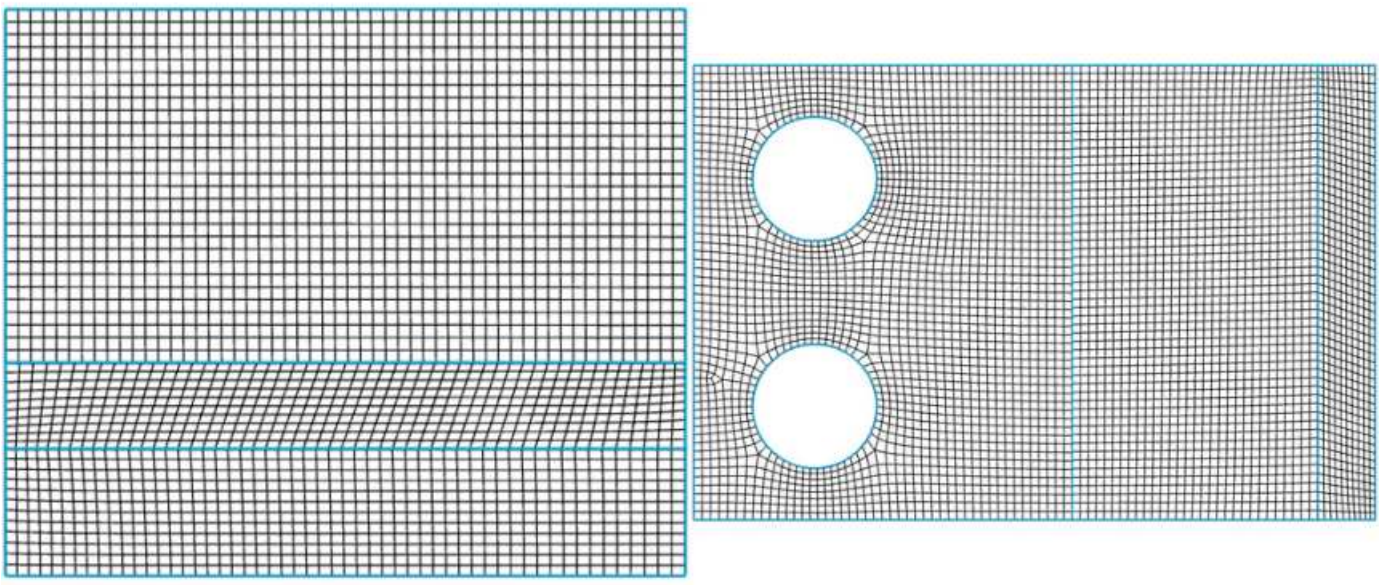
Model: 00009579 (from ABC dataset)
CAD: 18 corners, 27 curves, 11 faces
Cross field: 17 singularities detected
Timings: 18.4519 sec to generate the unstructured mesh, 2.98074 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23648	24749	192	109
Quasi-structured	23996	25097	29	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.239759	0.681438	1.20603	0.496803	0.987367	0.999111
Quasi-structured	0.340199	0.675772	1.55276	0.605025	0.994418	0.999041



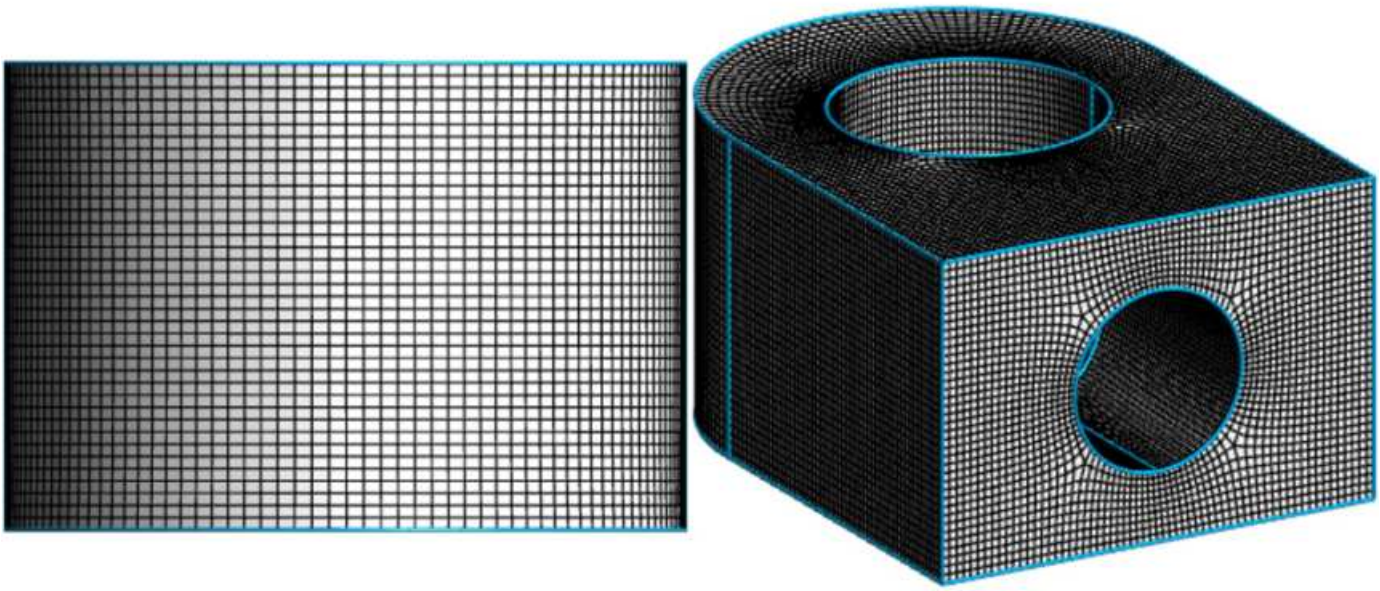


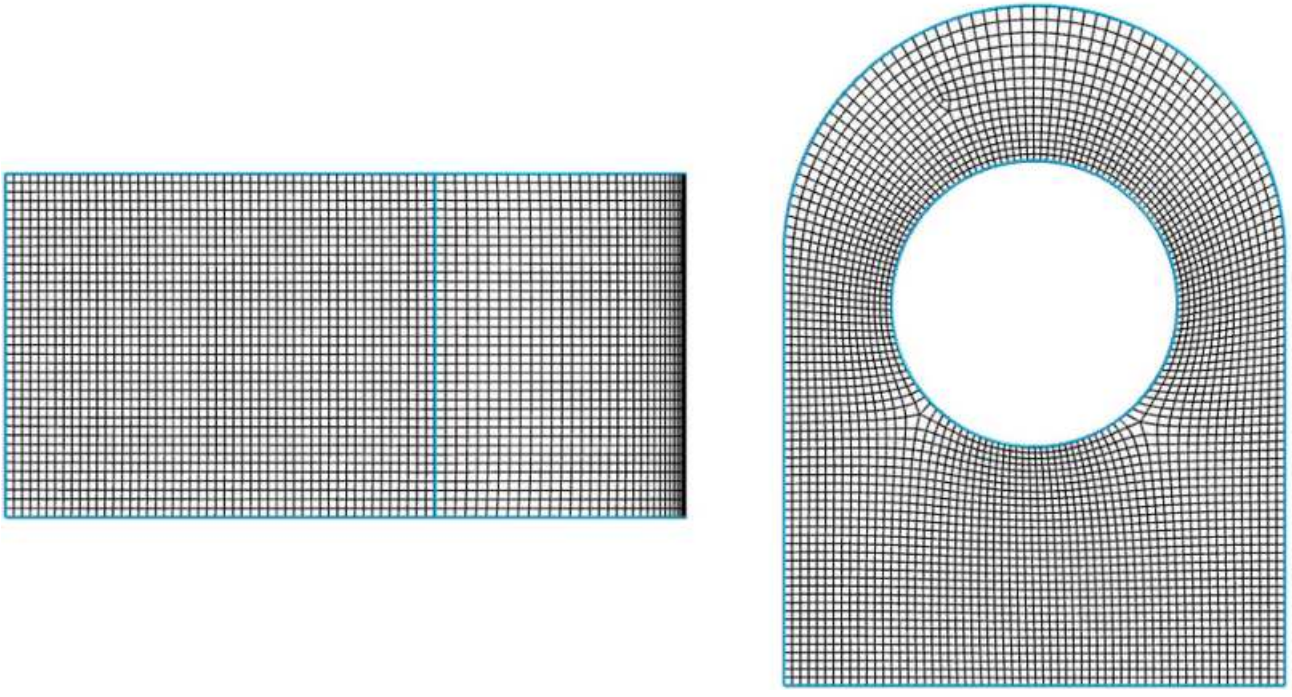
Model: 00009581 (from ABC dataset)
CAD: 12 corners, 18 curves, 8 faces
Cross field: 12 singularities detected
Timings: 20.2468 sec to generate the unstructured mesh, 3.90415 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24854	25918	210	86
Quasi-structured	24474	25538	18	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0838414	0.356486	0.702462	0.456758	0.982267	0.996544
Quasi-structured	0.174123	0.359942	0.790337	0.644284	0.985481	0.995383



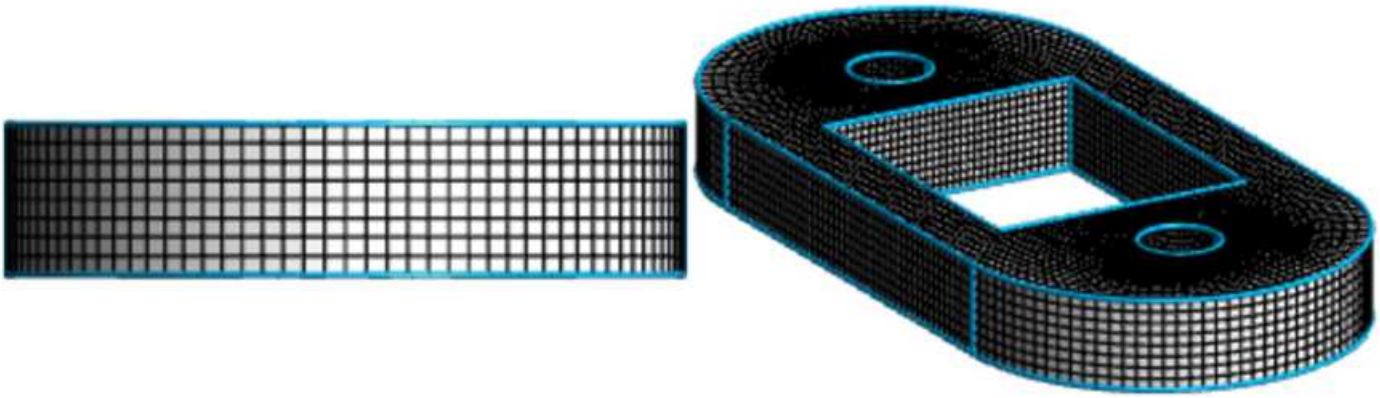


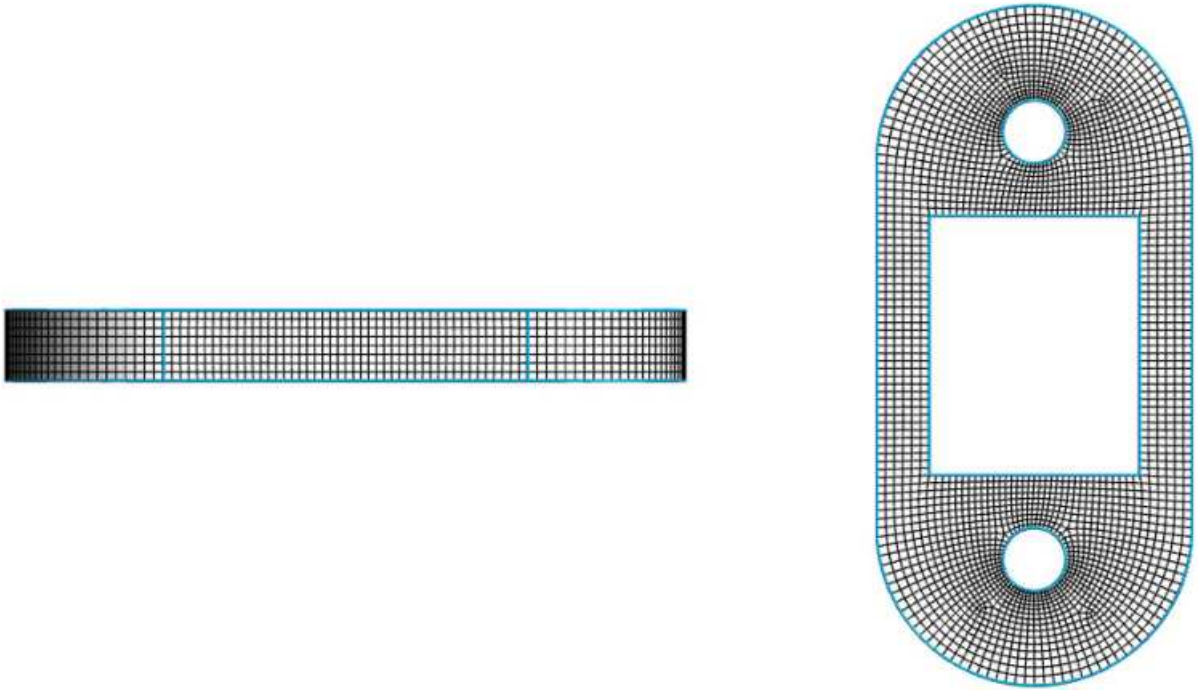
Model: 00009612 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 8 singularities detected
Timings: 7.23681 sec to generate the unstructured mesh, 1.07095 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	10378	11326	96	40
Quasi-structured	10430	11378	24	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0602481	0.235576	0.391981	0.575848	0.981932	0.992403
Quasi-structured	0.110292	0.234941	0.399938	0.736617	0.992562	0.994576



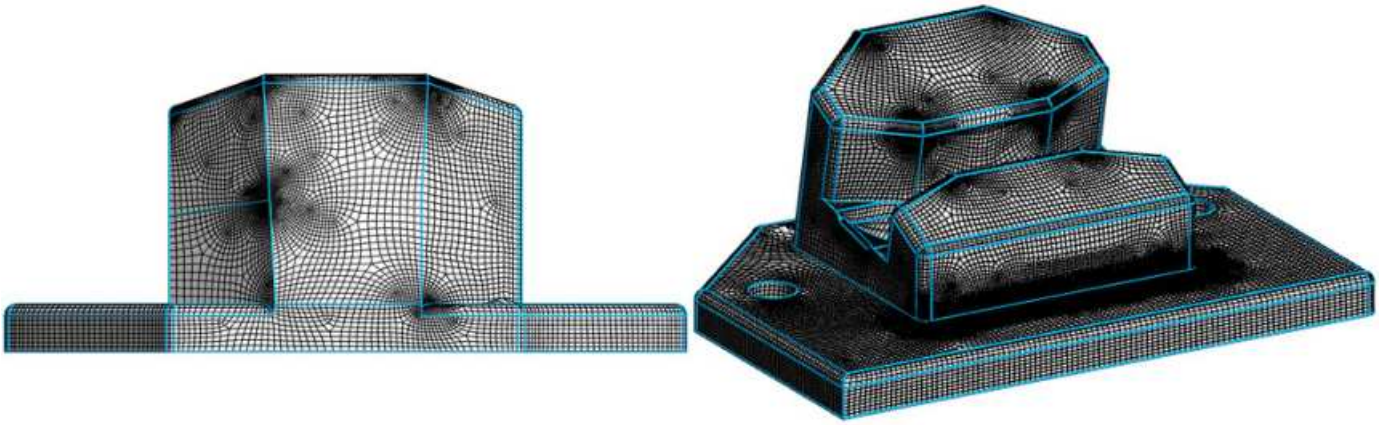


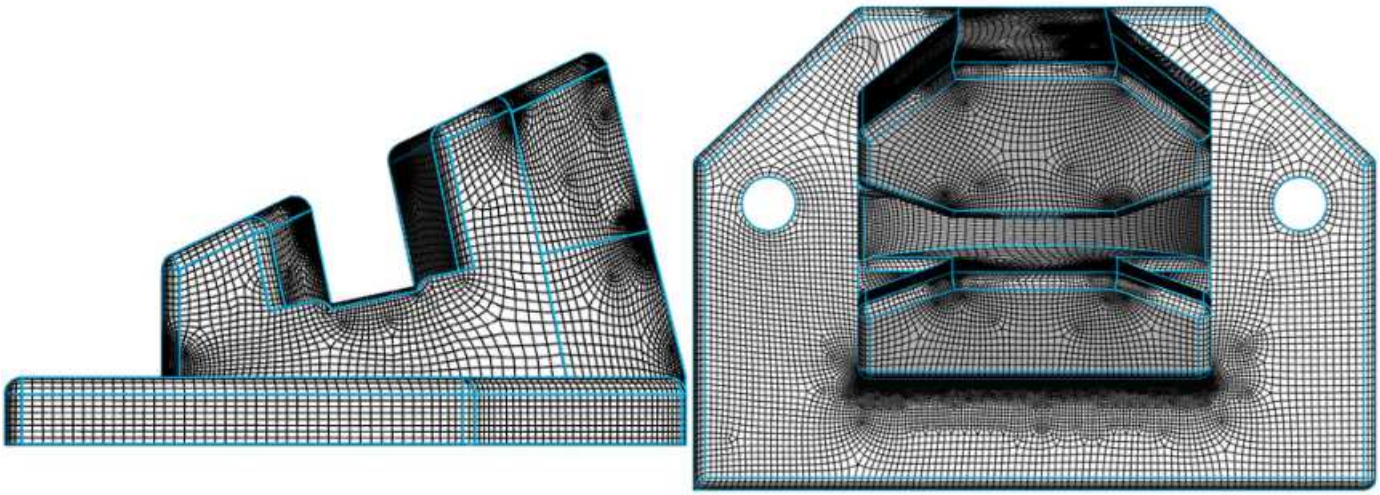
Model: 00009615 (from ABC dataset)
CAD: 128 corners, 216 curves, 85 faces
Cross field: 70 singularities detected
Timings: 21.4346 sec to generate the unstructured mesh, 347.728 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	72488	79409	4033	155
Quasi-structured	72515	79436	2206	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00236889	0.226693	1.08547	0.00153114	0.903491	0.966476
Quasi-structured	0.00131977	0.227894	2.42373	0.00153114	0.929548	0.984788



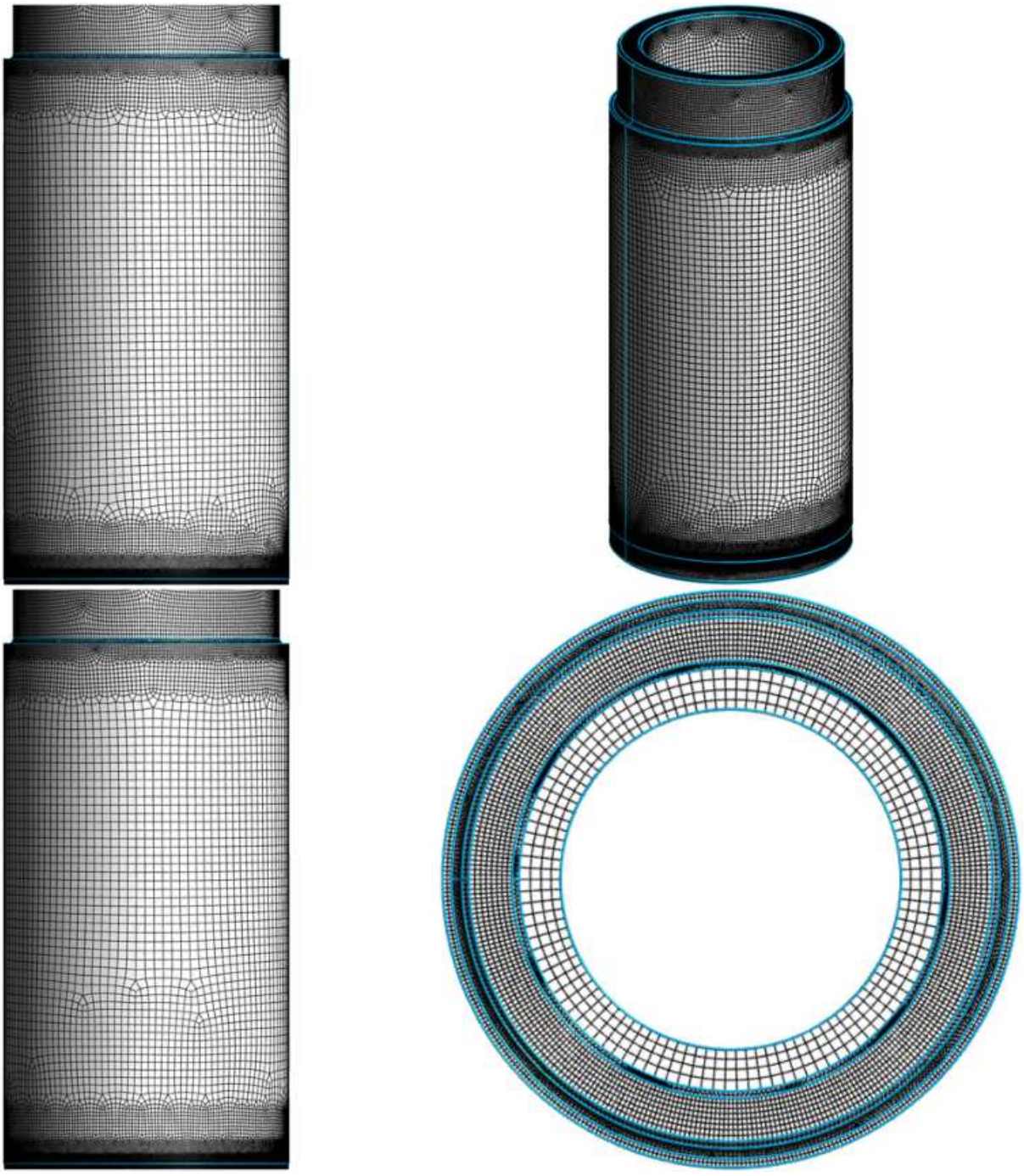


Model: 00009623 (from ABC dataset)
CAD: 15 corners, 25 curves, 15 faces
Cross field: 1 singularities detected
Timings: 26.0899 sec to generate the unstructured mesh, 1645.52 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	106144	114274	4383	715
Quasi-structured	107437	115567	3498	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0240313	0.323074	2.67579	0.116275	0.930711	0.986763
Quasi-structured	0.0276825	0.319135	1.60095	0.177319	0.96889	0.993197

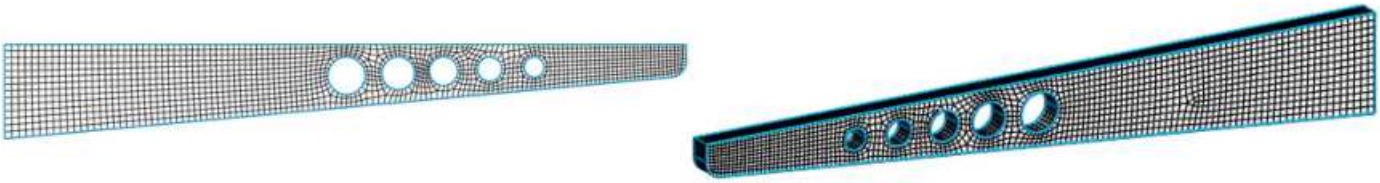


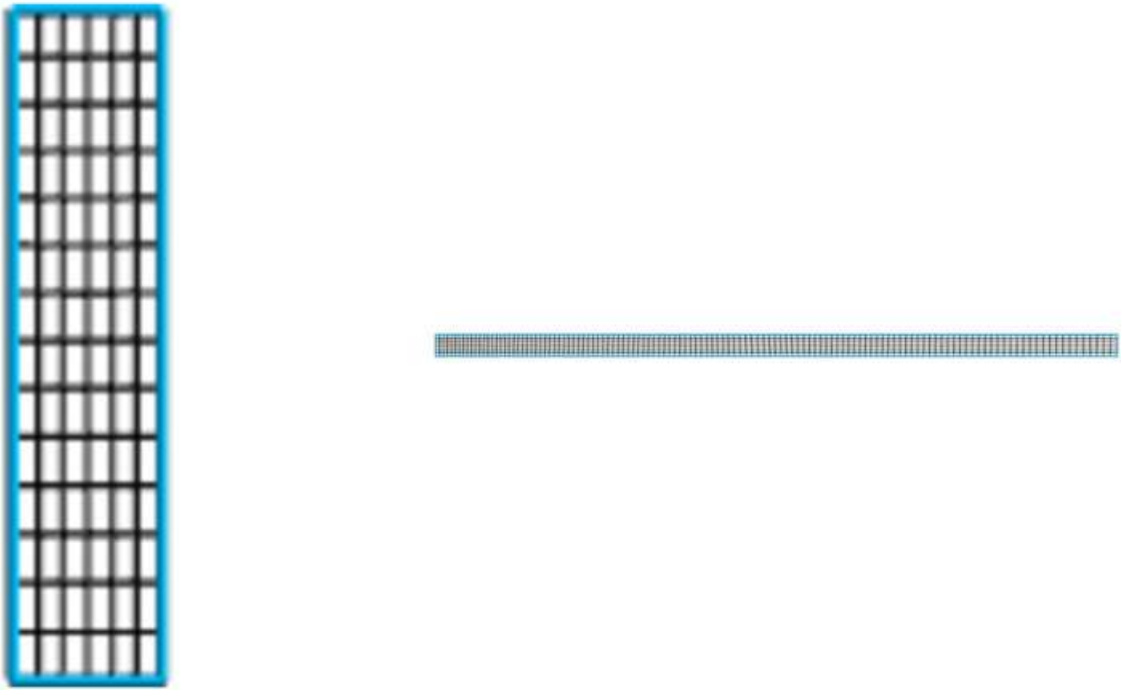
Model: 00009636 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 42 singularities detected
Timings: 3.37528 sec to generate the unstructured mesh, 1.4322 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	4998	5807	147	41
Quasi-structured	5212	6021	50	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.793139	2.94769	5.57621	0.277176	0.928878	0.959031
Quasi-structured	1.01086	2.88213	5.82391	0.489176	0.945892	0.980598



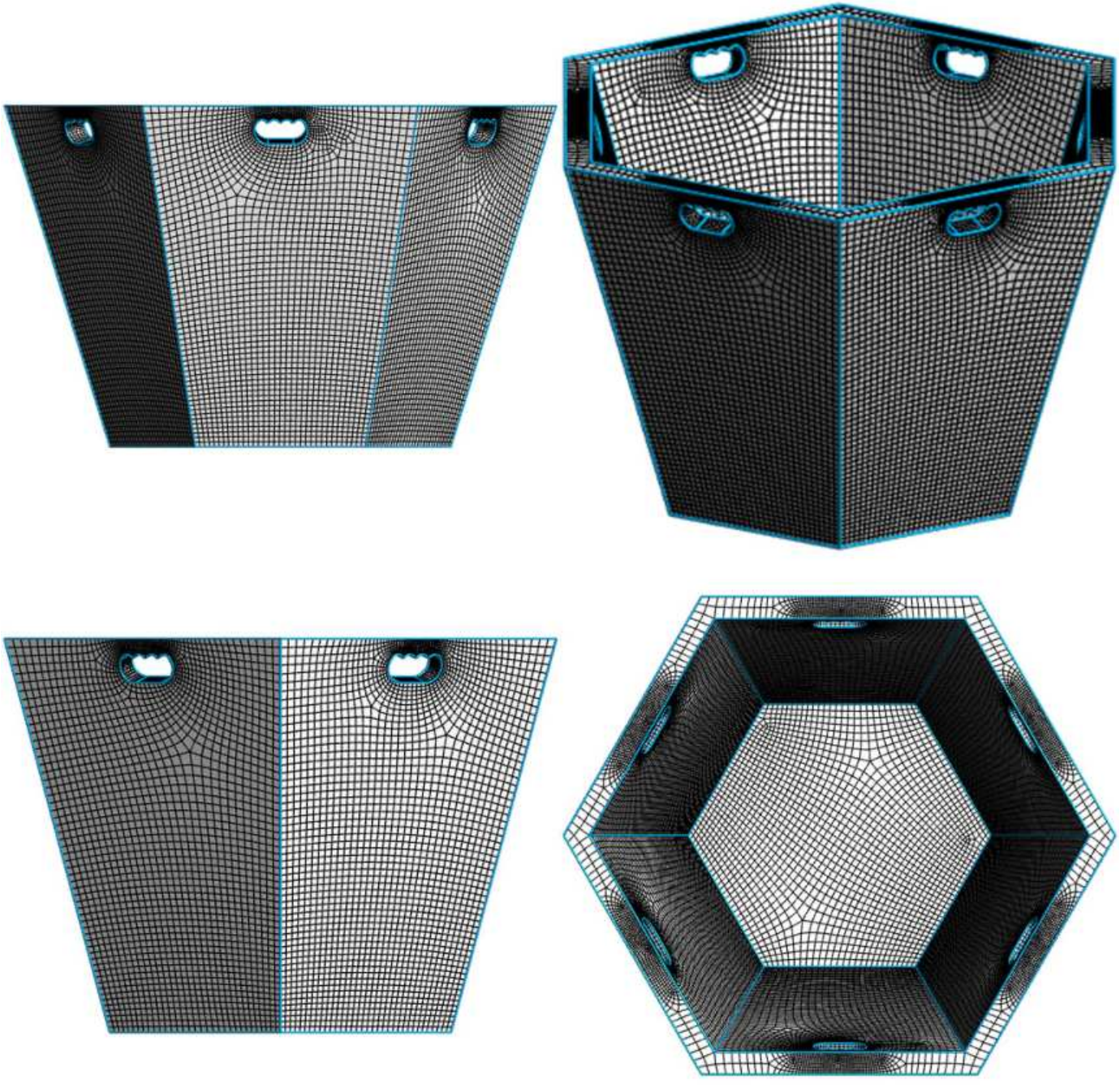


Model: 00009638 (from ABC dataset)
CAD: 144 corners, 216 curves, 75 faces
Cross field: 126 singularities detected
Timings: 16.7694 sec to generate the unstructured mesh, 7.60743 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	44546	48692	1561	73
Quasi-structured	44014	48160	374	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.520501	15.4693	40.558	0.140121	0.950589	0.989939
Quasi-structured	1.08297	15.1906	59.1931	0.410326	0.969442	0.986534

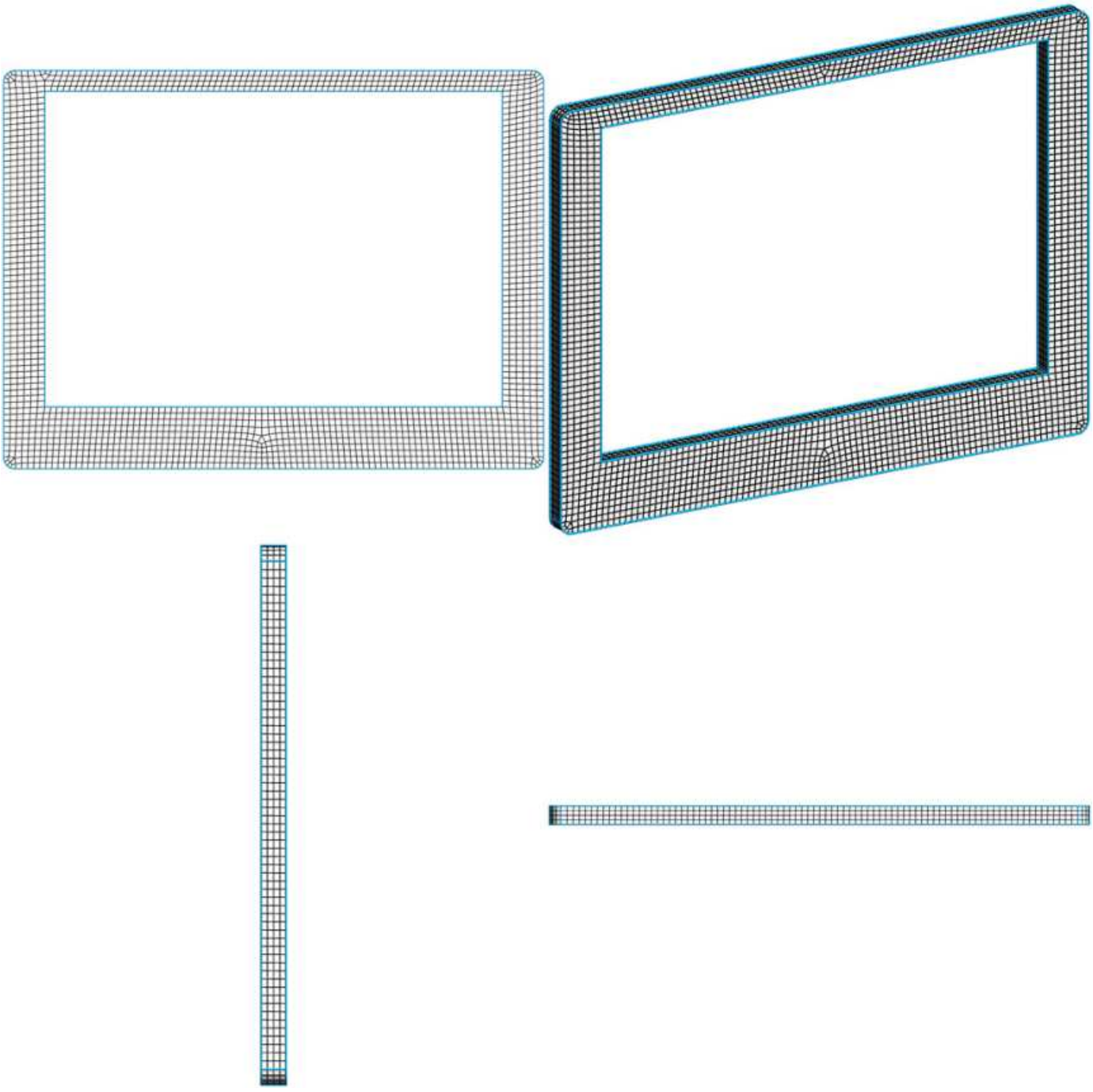


Model: 00009642 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 8 singularities detected
Timings: 4.17375 sec to generate the unstructured mesh, 0.792802 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	6034	7234	36	0
Quasi-structured	6056	7256	28	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	1.22435	2.55282	4.07773	0.382667	0.964665	0.964689
Quasi-structured	1.19936	2.53843	3.91048	0.73543	0.975173	0.971062

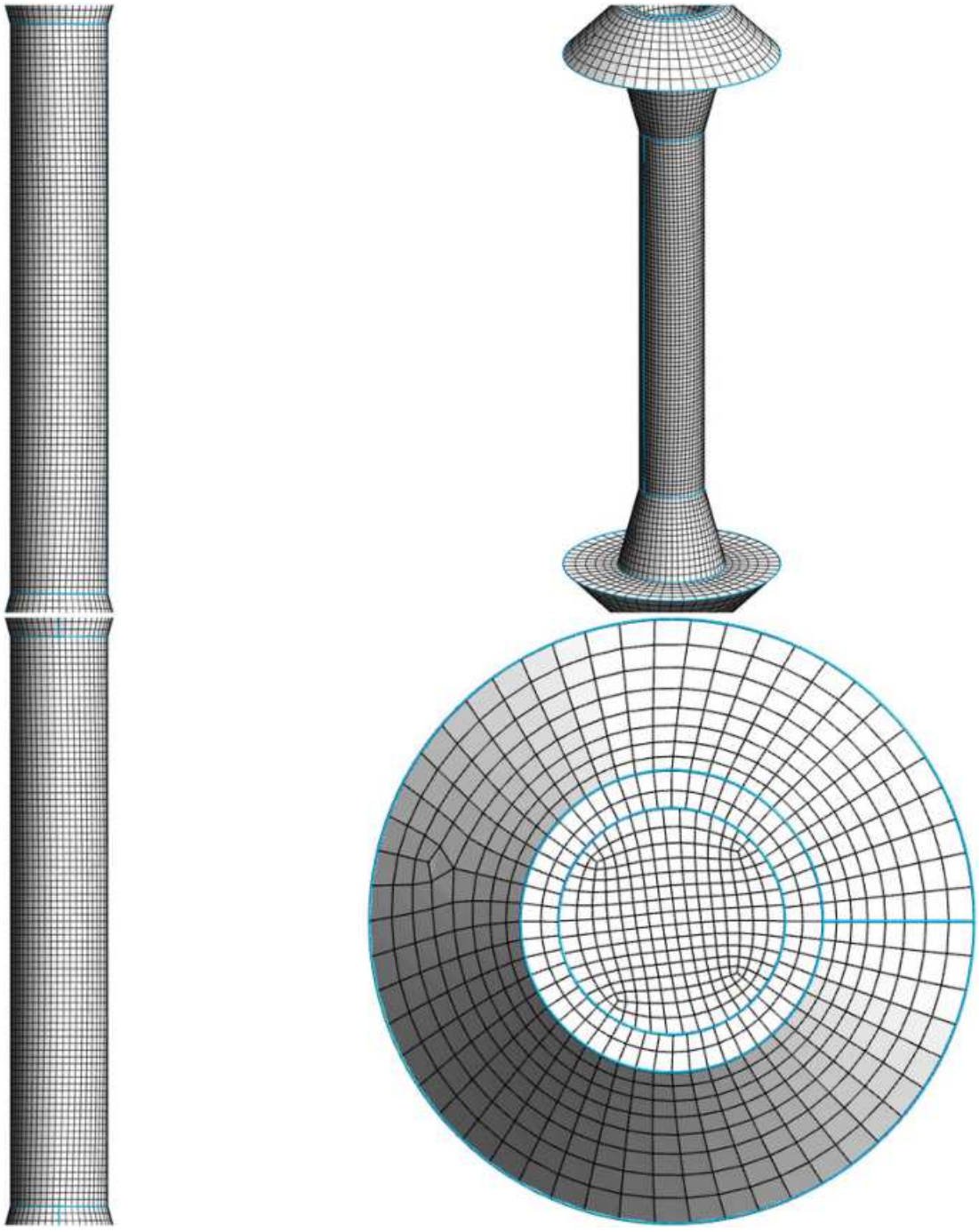


Model: 00009677 (from ABC dataset)
CAD: 14 corners, 21 curves, 13 faces
Cross field: 8 singularities detected
Timings: 5.73883 sec to generate the unstructured mesh, 4.79212 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7850	8464	76	139
Quasi-structured	8006	8620	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.294024	1.06083	2.53989	0.565578	0.976371	0.994661
Quasi-structured	0.440348	1.0462	2.39659	0.781007	0.989753	0.996948

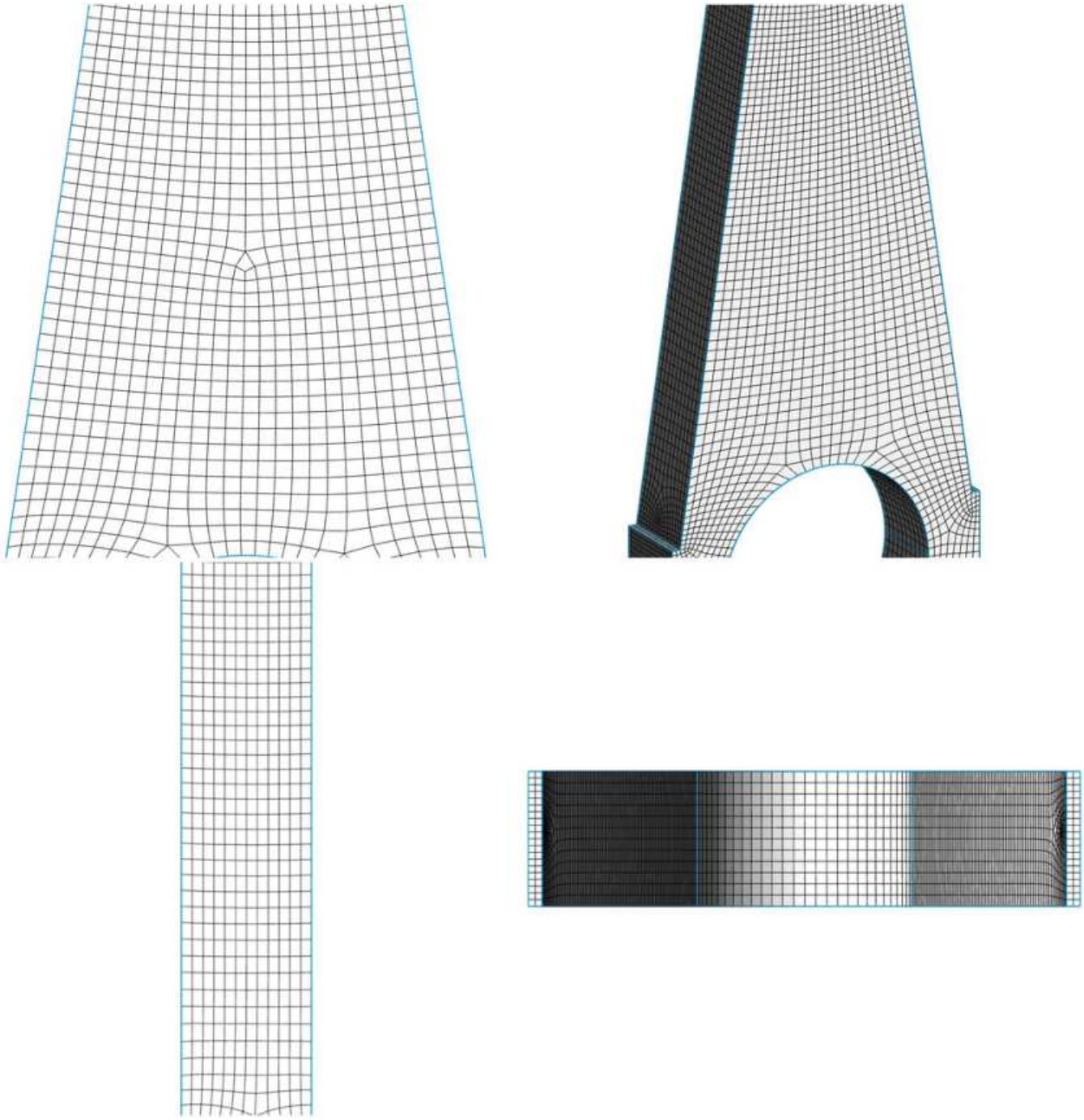


Model: 00009682 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 8 singularities detected
Timings: 6.51735 sec to generate the unstructured mesh, 5.45557 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9988	10996	200	29
Quasi-structured	10400	11408	38	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.211704	1.0027	2.16751	0.439767	0.948821	0.99209
Quasi-structured	0.293474	0.986402	2.93342	0.609975	0.956296	0.993392

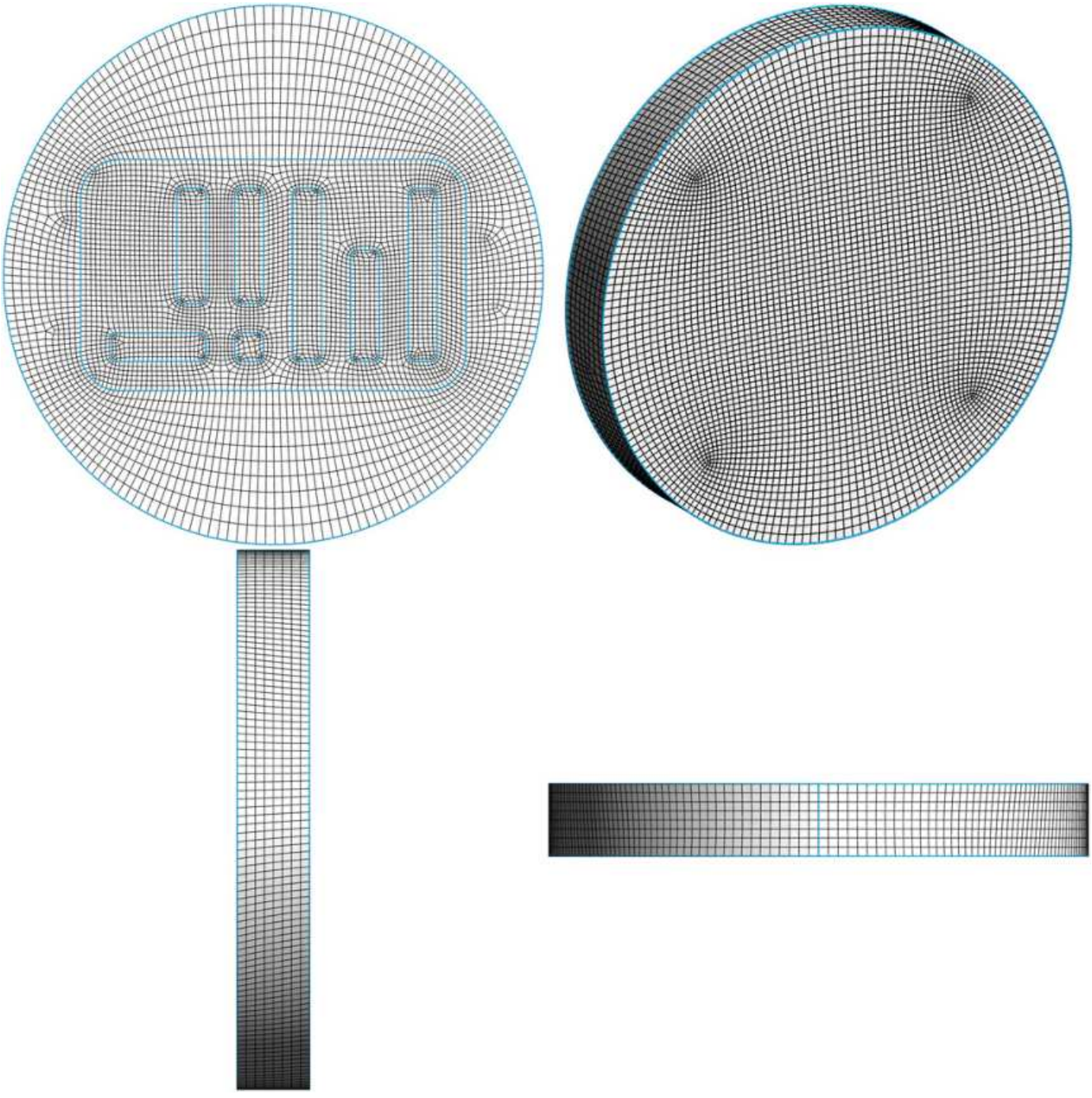


Model: 00009684 (from ABC dataset)
CAD: 130 corners, 195 curves, 75 faces
Cross field: 64 singularities detected
Timings: 15.3864 sec to generate the unstructured mesh, 3.37841 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20058	22562	272	11
Quasi-structured	19171	21675	138	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.136061	0.471116	1.04238	0.382675	0.971811	0.991357
Quasi-structured	0.112627	0.476946	1.52706	0.552617	0.968758	0.989784

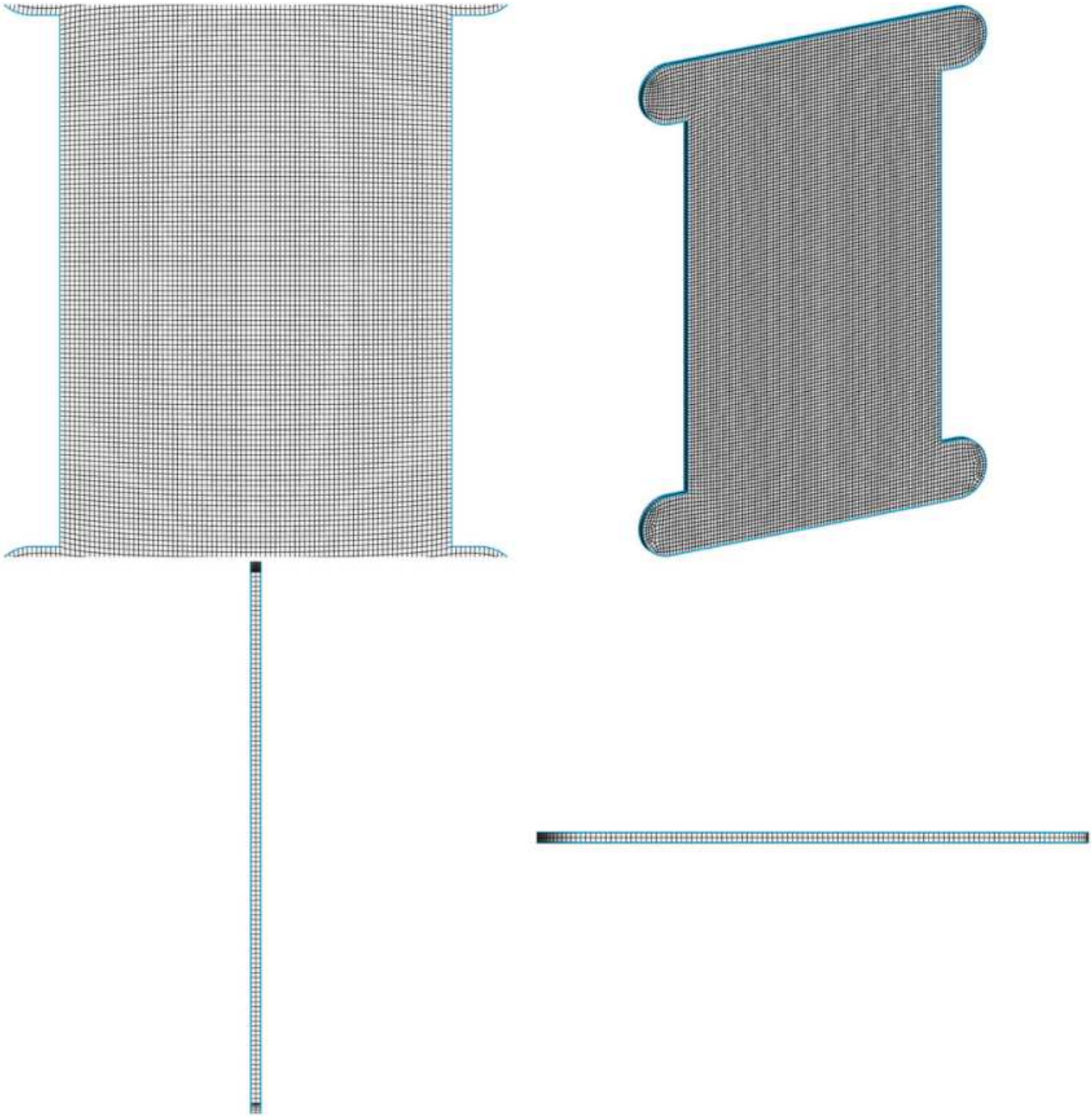


Model: 00009685 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 16 singularities detected
Timings: 8.24849 sec to generate the unstructured mesh, 1.77298 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18226	19344	364	32
Quasi-structured	24802	25920	36	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.186945	0.53458	0.914645	0.543265	0.922401	0.898392
Quasi-structured	0.18685	0.452101	0.692127	0.727496	0.995148	0.999218

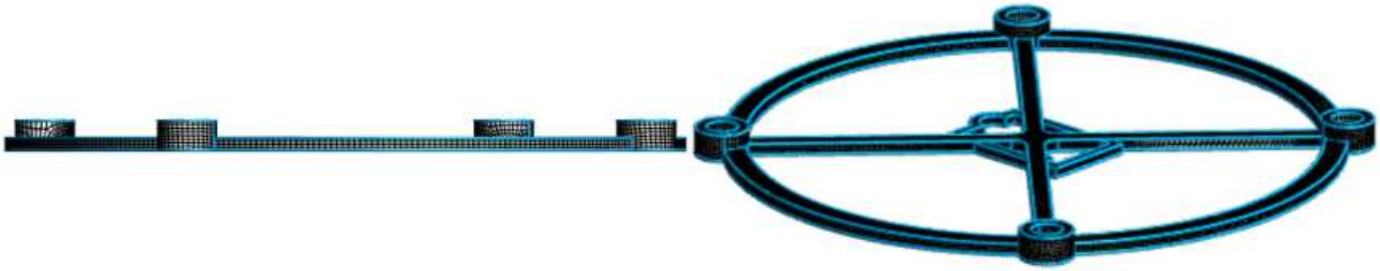


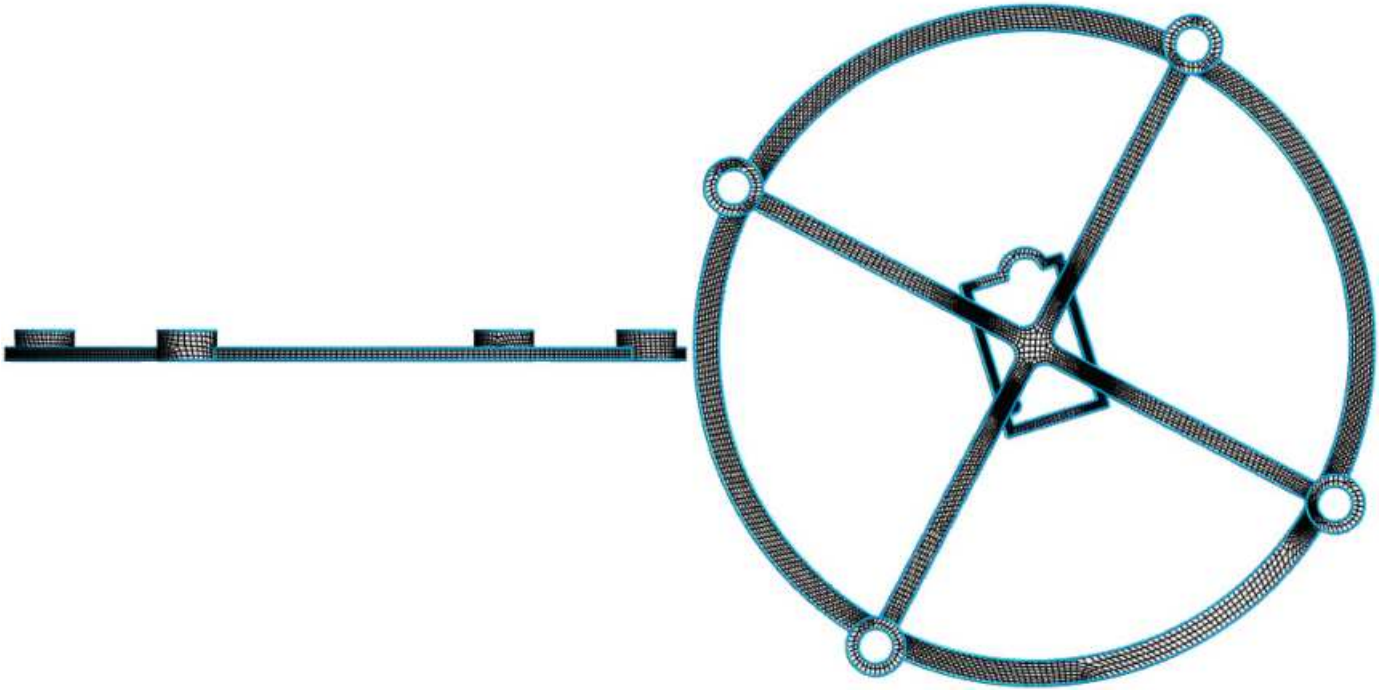
Model: 00009689 (from ABC dataset)
CAD: 146 corners, 220 curves, 68 faces
Cross field: 42 singularities detected
Timings: 6.93593 sec to generate the unstructured mesh, 85.45 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21160	25595	1046	118
Quasi-structured	22765	27200	351	3

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0188413	0.685995	2.00013	0.204216	0.866744	0.916499
Quasi-structured	0.034918	0.685923	2.43967	0.31122	0.846212	0.861012



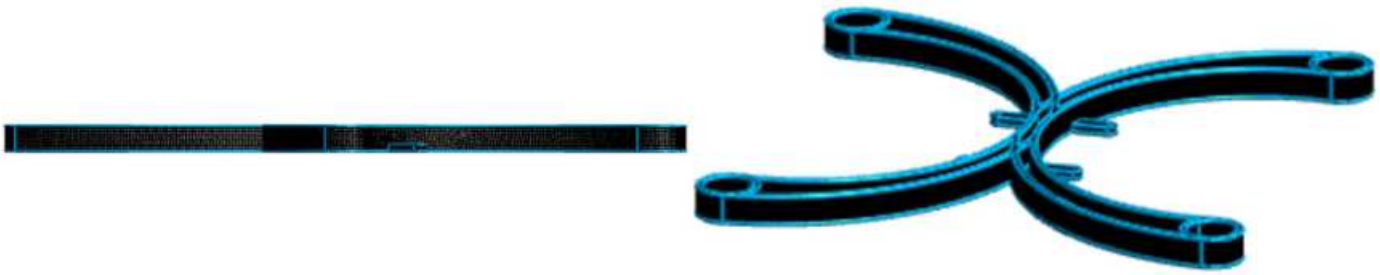


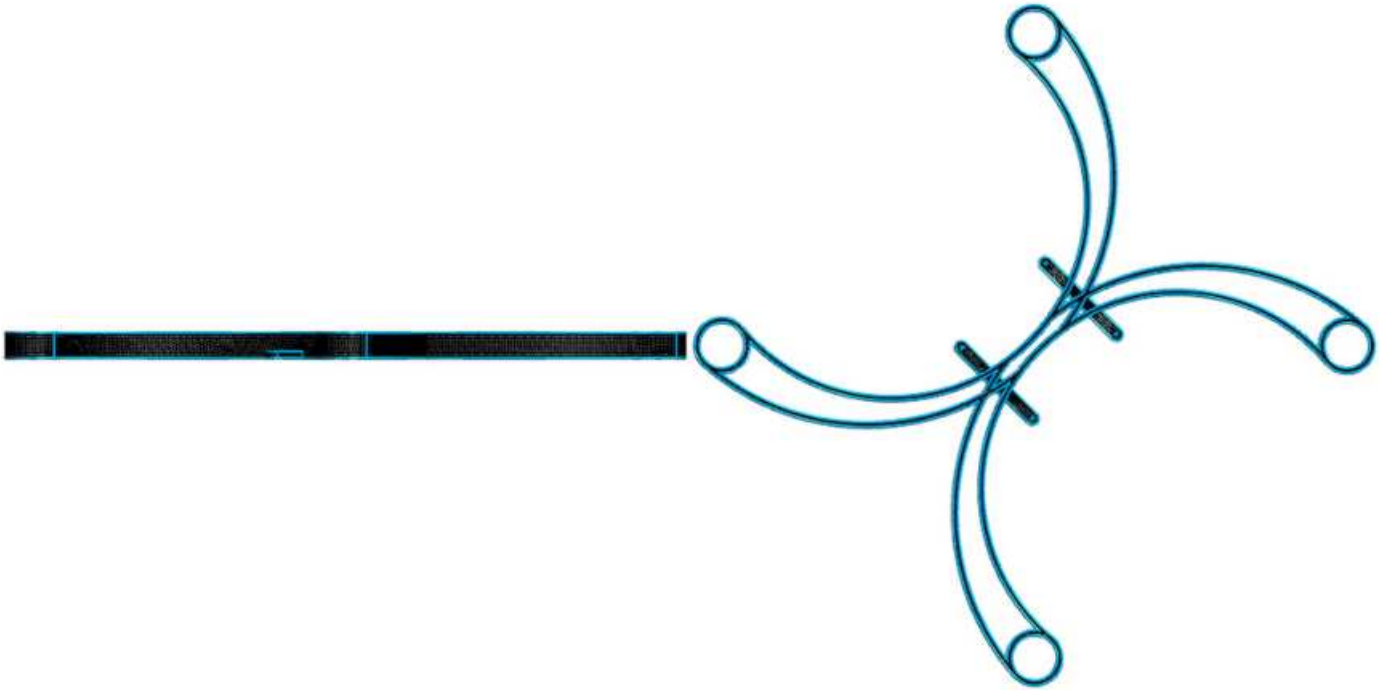
Model: 00009692 (from ABC dataset)
CAD: 156 corners, 234 curves, 75 faces
Cross field: 18 singularities detected
Timings: 7.85151 sec to generate the unstructured mesh, 61.0526 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	38370	45176	895	91
Quasi-structured	39634	46440	395	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0316037	0.351853	0.732421	0.146314	0.959214	0.986033
Quasi-structured	0.0244833	0.345556	0.681636	0.230994	0.966782	0.991262



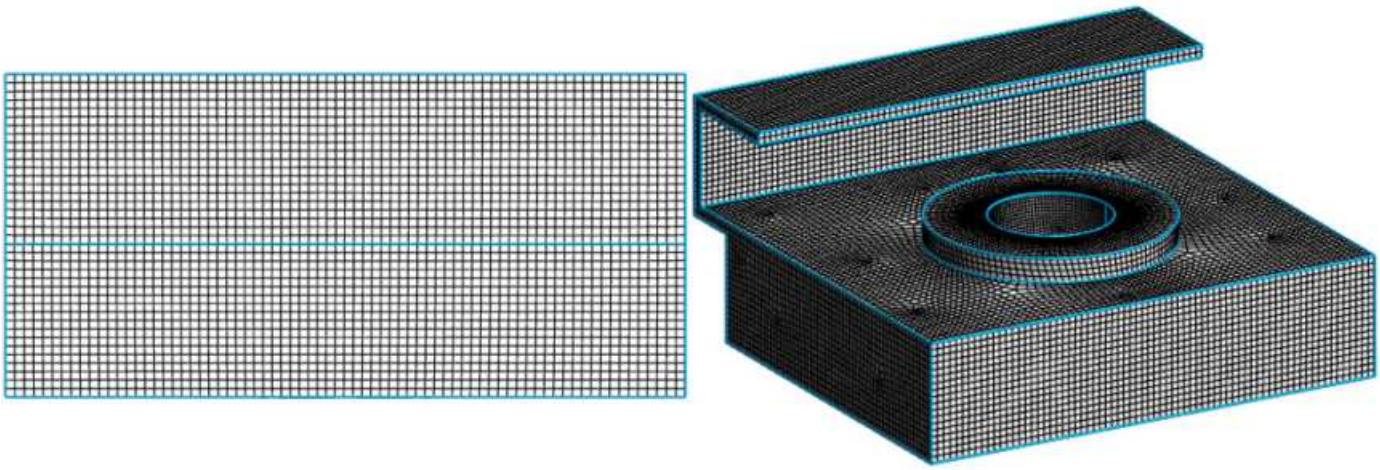


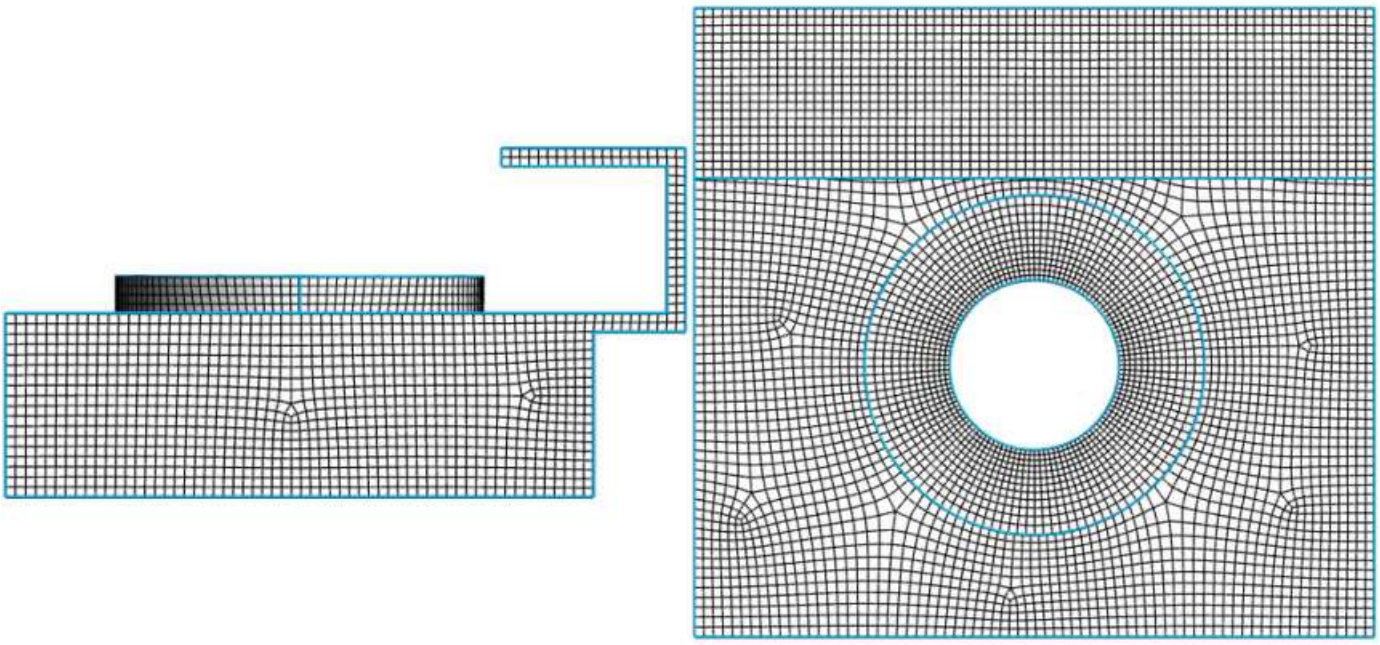
Model: 00009700 (from ABC dataset)
CAD: 24 corners, 36 curves, 15 faces
Cross field: 8 singularities detected
Timings: 16.9427 sec to generate the unstructured mesh, 5.25891 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	24520	26192	158	39
Quasi-structured	24380	26052	62	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0772587	0.395374	0.805452	0.470754	0.989078	0.996599
Quasi-structured	0.12464	0.395756	0.967814	0.76565	0.995661	0.997228



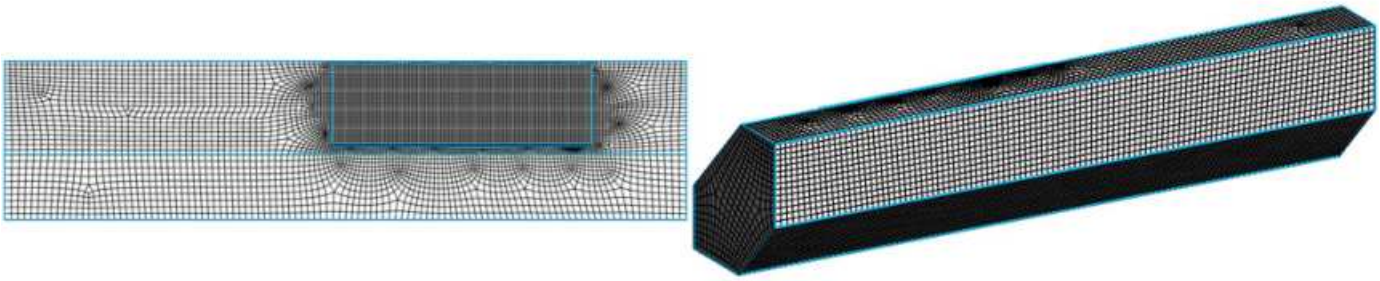


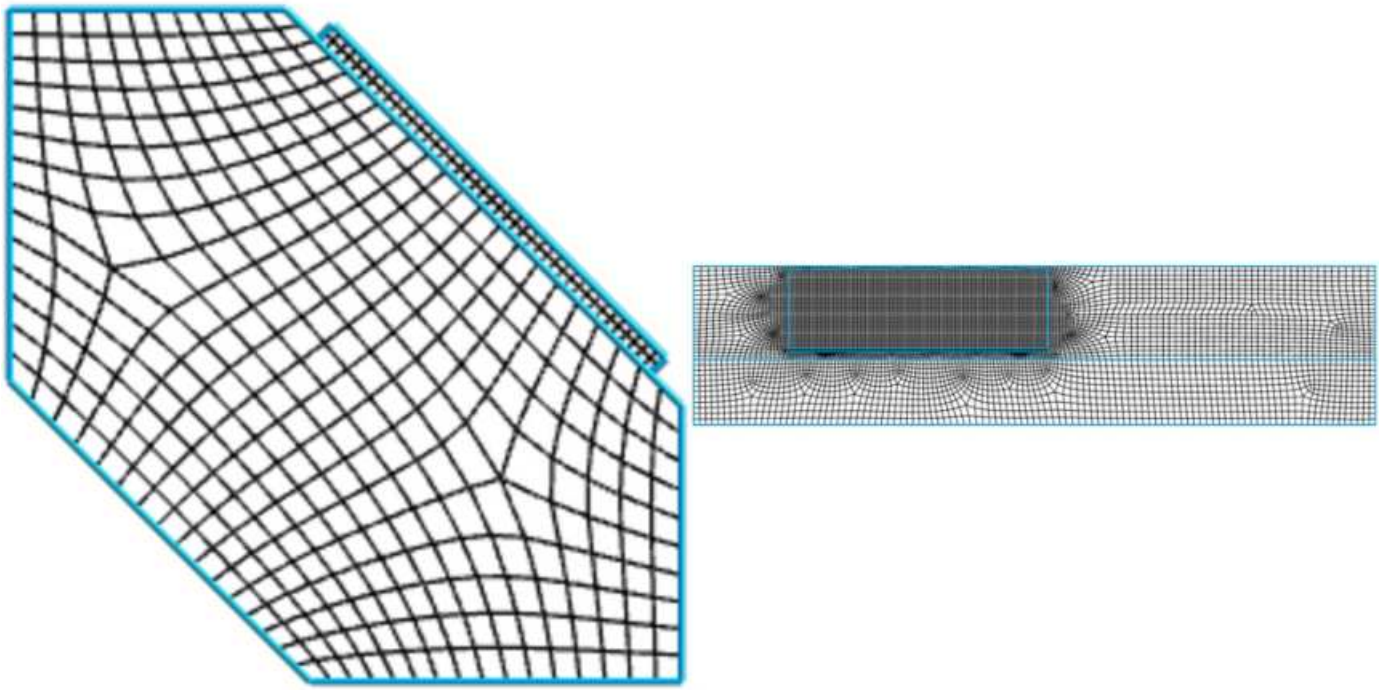
Model: 00009702 (from ABC dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 4 singularities detected
Timings: 6.15659 sec to generate the unstructured mesh, 8.10812 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	16166	17650	254	4
Quasi-structured	16047	17531	82	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.369569	1.42227	2.82344	0.482357	0.98159	0.99743
Quasi-structured	0.190884	1.42269	5.10857	0.36646	0.980668	0.996993





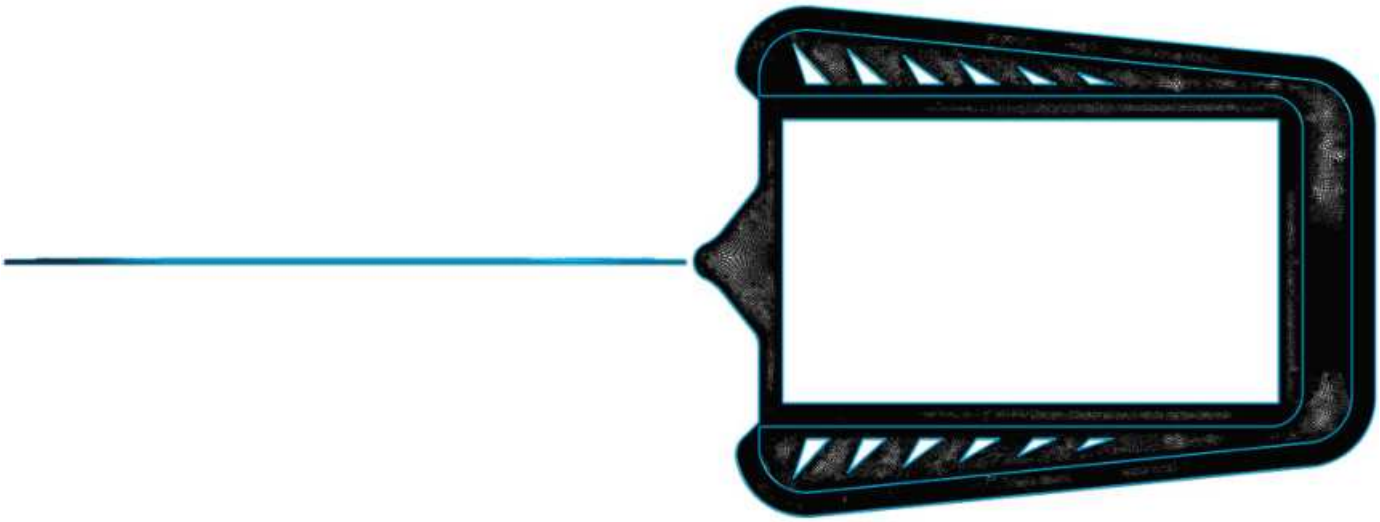
Model: 00009720 (from ABC dataset)
CAD: 148 corners, 222 curves, 77 faces
Cross field: 28 singularities detected
Timings: 38.466 sec to generate the unstructured mesh, 386.306 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	195288	214348	10825	1090
Quasi-structured	206519	225579	8293	23

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0257625	0.240889	1.38261	0.0316085	0.920334	0.973309
Quasi-structured	0.00925447	0.233406	1.90533	0.0318663	0.948537	0.982867



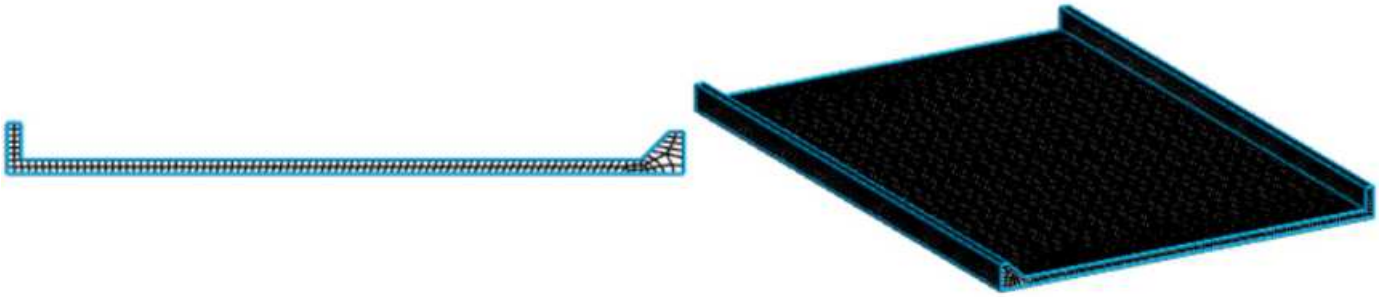


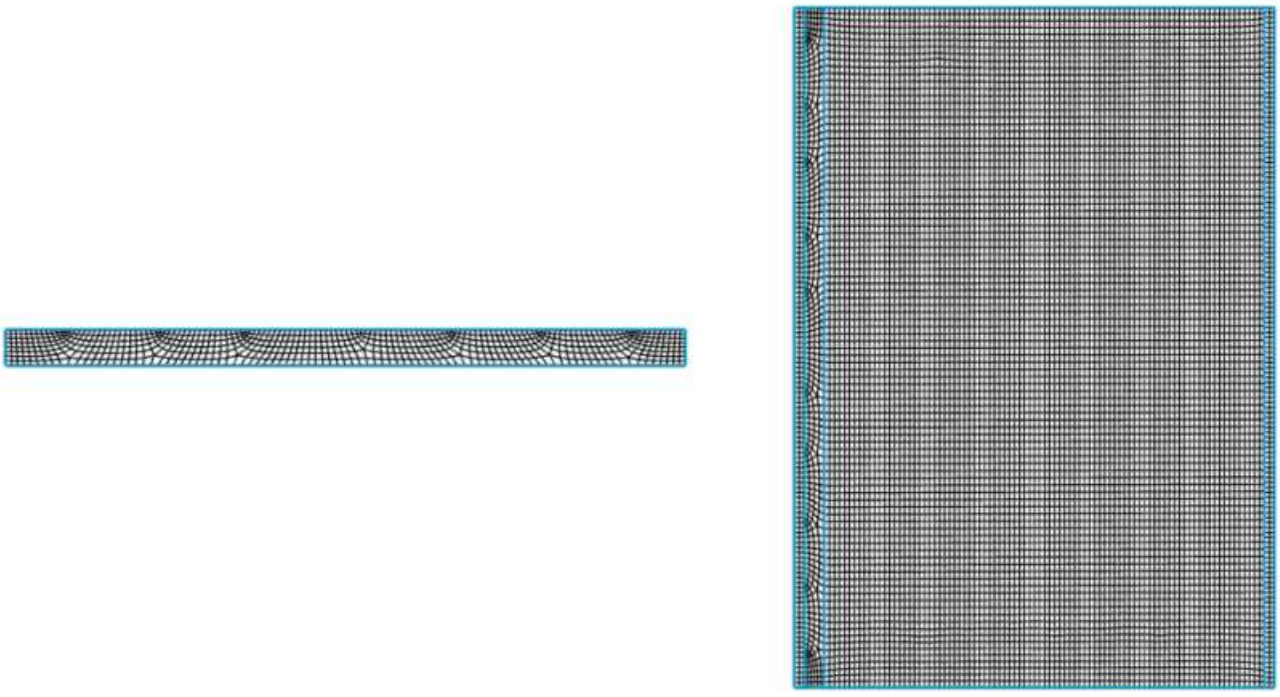
Model: 00009722 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 0 singularities detected
Timings: 5.59736 sec to generate the unstructured mesh, 11.627 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20716	22074	196	3
Quasi-structured	20689	22047	80	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.571707	1.9135	2.84606	0.448408	0.935548	0.935535
Quasi-structured	0.66597	1.91766	3.99588	0.565973	0.933513	0.935948





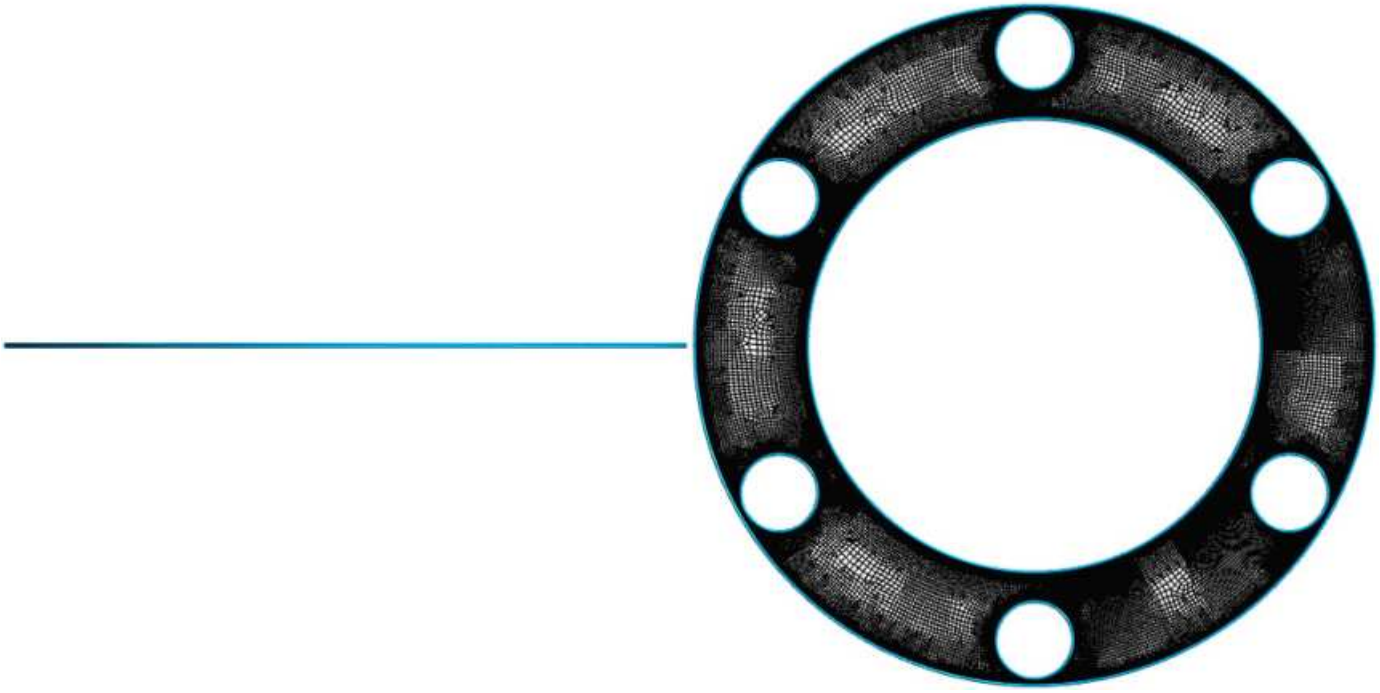
Model: 00009728 (from ABC dataset)
CAD: 21 corners, 29 curves, 10 faces
Cross field: 48 singularities detected
Timings: 9.28632 sec to generate the unstructured mesh, 249.813 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	99172	107996	4837	392
Quasi-structured	101112	109936	3038	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0198103	0.0766013	0.335942	0.423331	0.940995	0.983366
Quasi-structured	0.0130779	0.0774674	0.404951	0.130973	0.934102	0.97814





Model: 00009730 (from ABC dataset)
CAD: 83 corners, 135 curves, 58 faces
Cross field: 40 singularities detected
Timings: 19.7492 sec to generate the unstructured mesh, 41.985 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32534	36614	1224	193
Quasi-structured	32941	37021	471	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00938196	0.375126	0.94729	0.0477829	0.948468	0.992582
Quasi-structured	0.0460134	0.372676	1.40267	0.304629	0.945379	0.982768

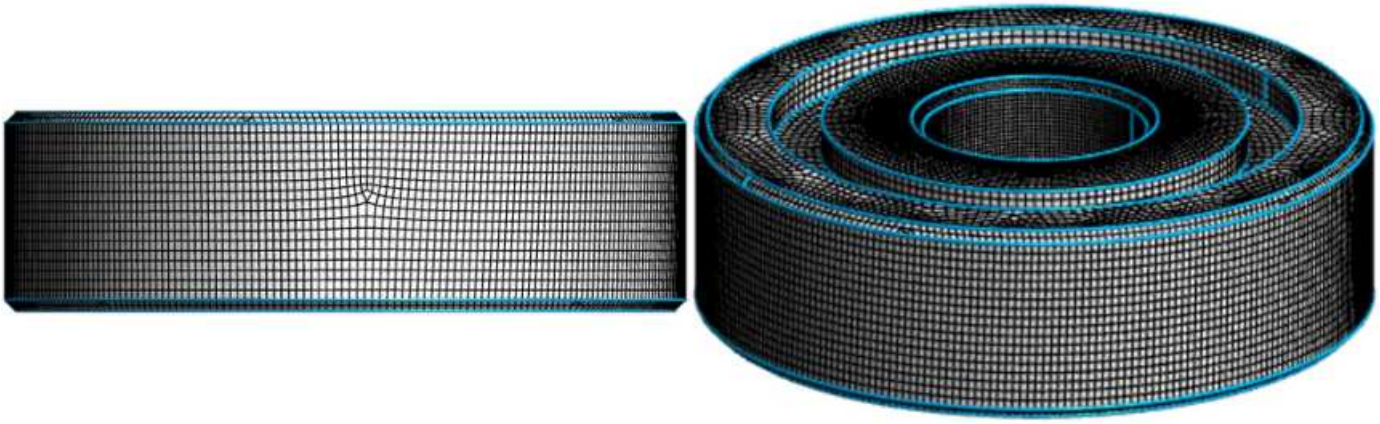


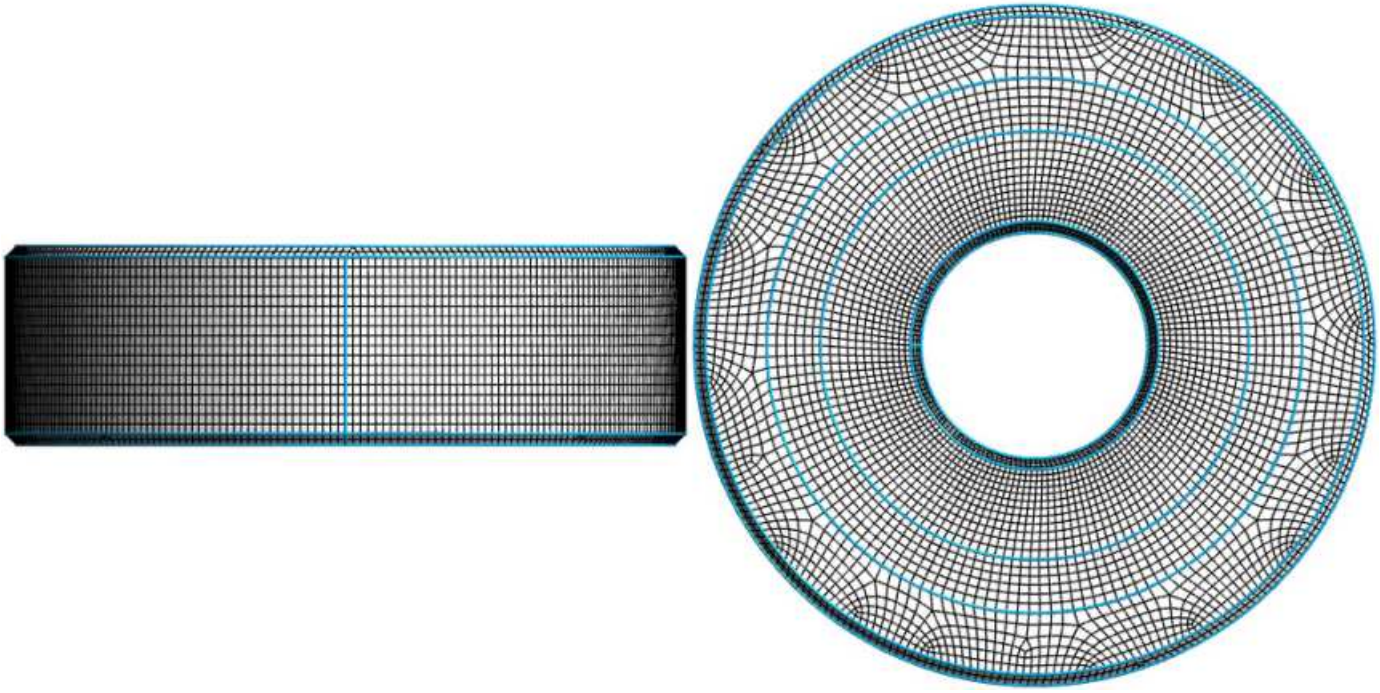
Model: 00009749 (from ABC dataset)
CAD: 18 corners, 28 curves, 16 faces
Cross field: 0 singularities detected
Timings: 14.3717 sec to generate the unstructured mesh, 17.3466 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23052	25968	539	104
Quasi-structured	23408	26324	116	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0529899	0.209789	0.551858	0.521551	0.963636	0.995724
Quasi-structured	0.0550277	0.209484	0.514114	0.634786	0.976748	0.989264



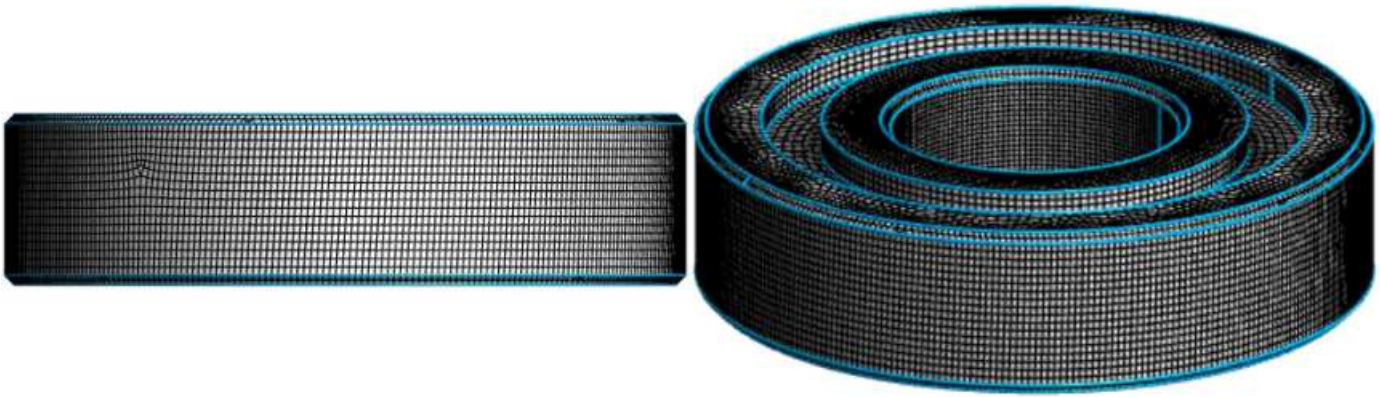


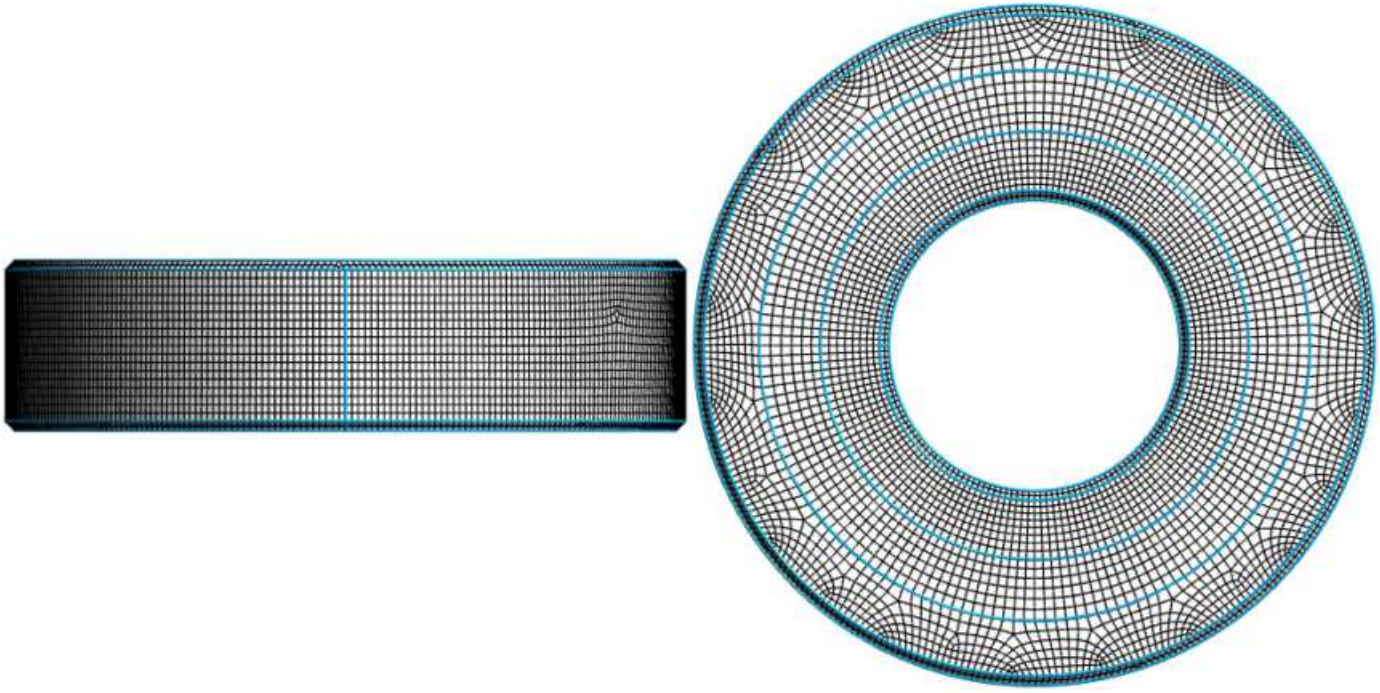
Model: 00009750 (from ABC dataset)
CAD: 18 corners, 28 curves, 16 faces
Cross field: 0 singularities detected
Timings: 9.35277 sec to generate the unstructured mesh, 14.8461 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	22328	25602	614	104
Quasi-structured	22738	26012	132	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0747914	0.242179	0.523727	0.39221	0.960725	0.991384
Quasi-structured	0.0795761	0.241158	0.530494	0.637447	0.974731	0.990386





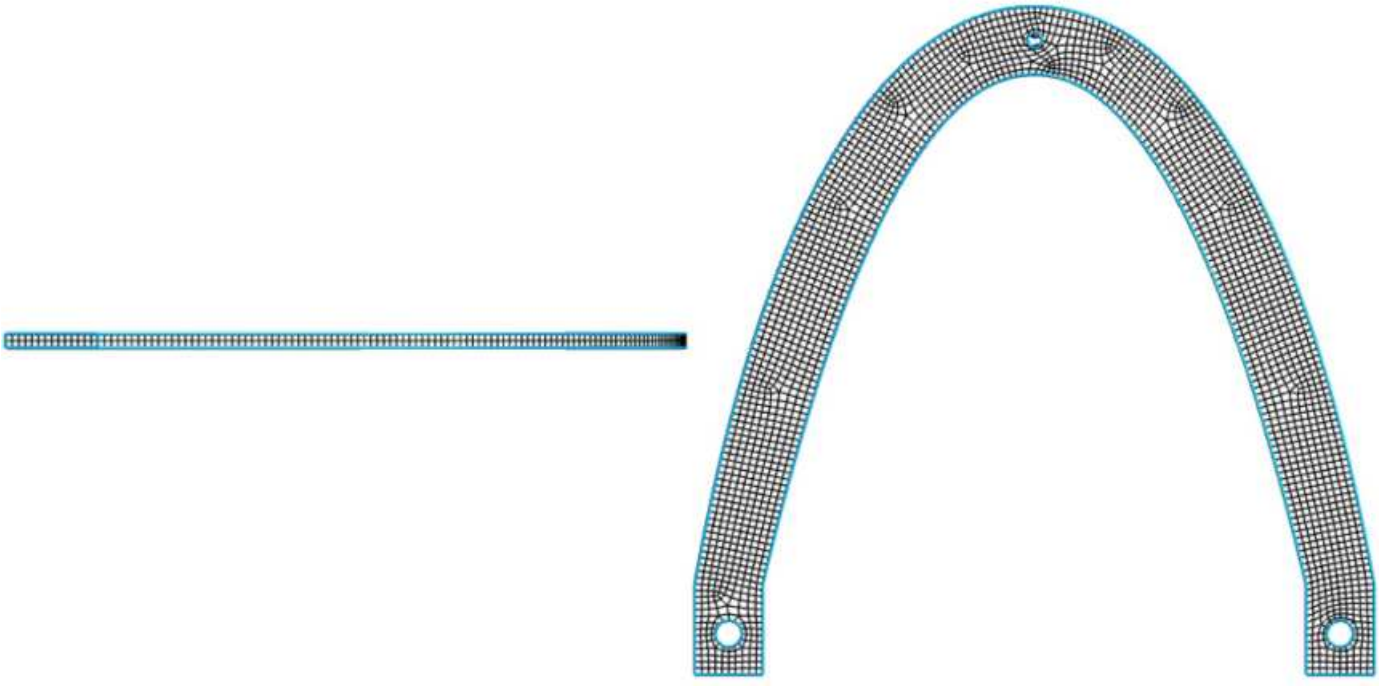
Model: 00009753 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 24 singularities detected
Timings: 4.96281 sec to generate the unstructured mesh, 4.78418 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5930	6974	135	16
Quasi-structured	5910	6954	72	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.220972	1.45637	2.24786	0.0827163	0.948961	0.989485
Quasi-structured	0.540646	1.45534	2.53581	0.164476	0.95918	0.994575



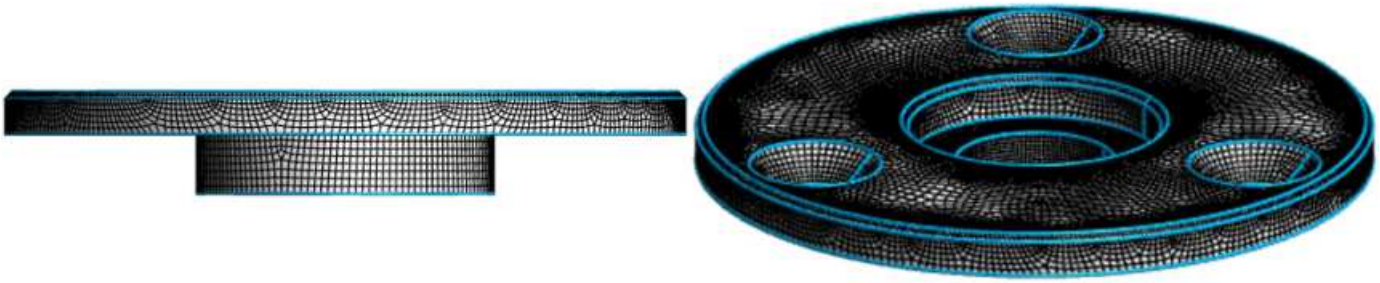


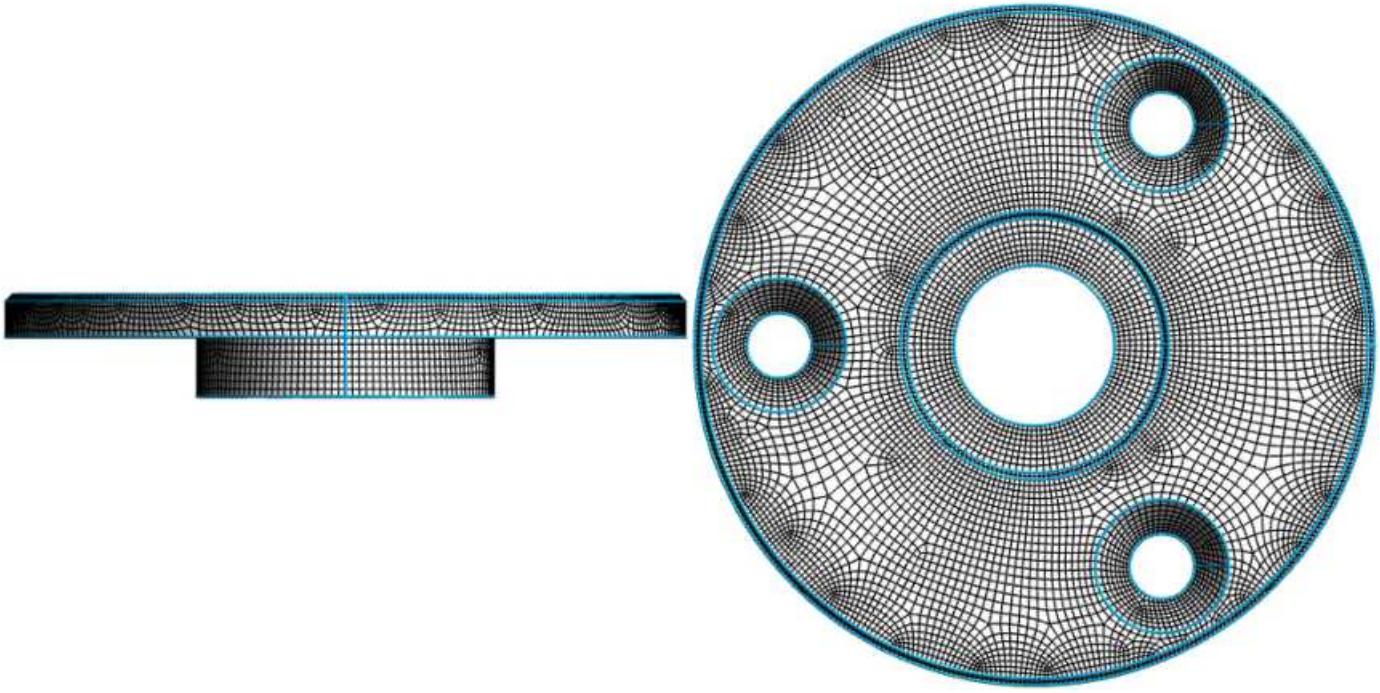
Model: 00009760 (from ABC dataset)
CAD: 21 corners, 33 curves, 16 faces
Cross field: 24 singularities detected
Timings: 8.56617 sec to generate the unstructured mesh, 32.826 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	21100	23692	808	109
Quasi-structured	20751	23343	292	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.151513	0.467747	1.24687	0.454281	0.954648	0.989899
Quasi-structured	0.132938	0.473709	1.45211	0.385062	0.966115	0.983992



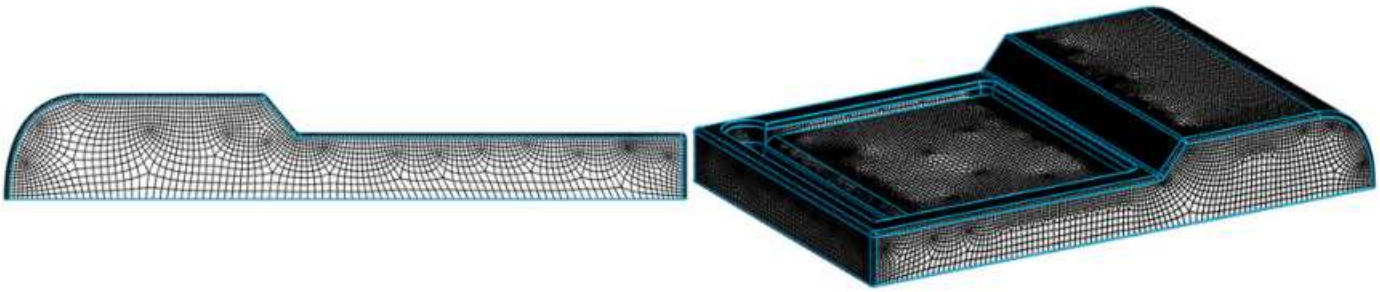


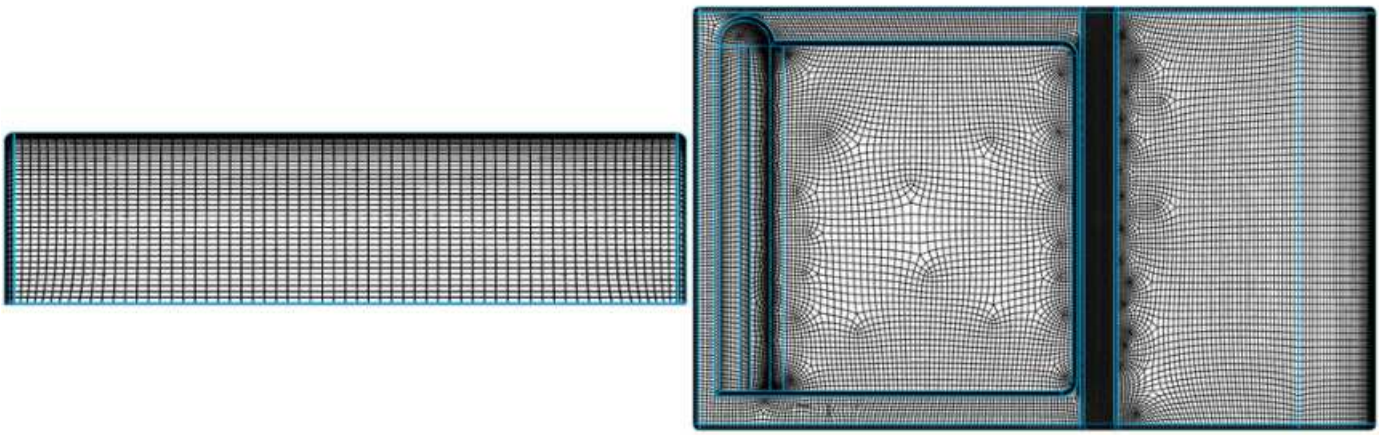
Model: 00009793 (from ABC dataset)
CAD: 63 corners, 114 curves, 49 faces
Cross field: 30 singularities detected
Timings: 15.5241 sec to generate the unstructured mesh, 73.1343 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	41624	46552	1502	88
Quasi-structured	43328	48256	529	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00346731	1.48311	4.12441	0.0261734	0.874987	0.947382
Quasi-structured	0.00345343	1.45498	5.90623	0.0261734	0.884263	0.941964



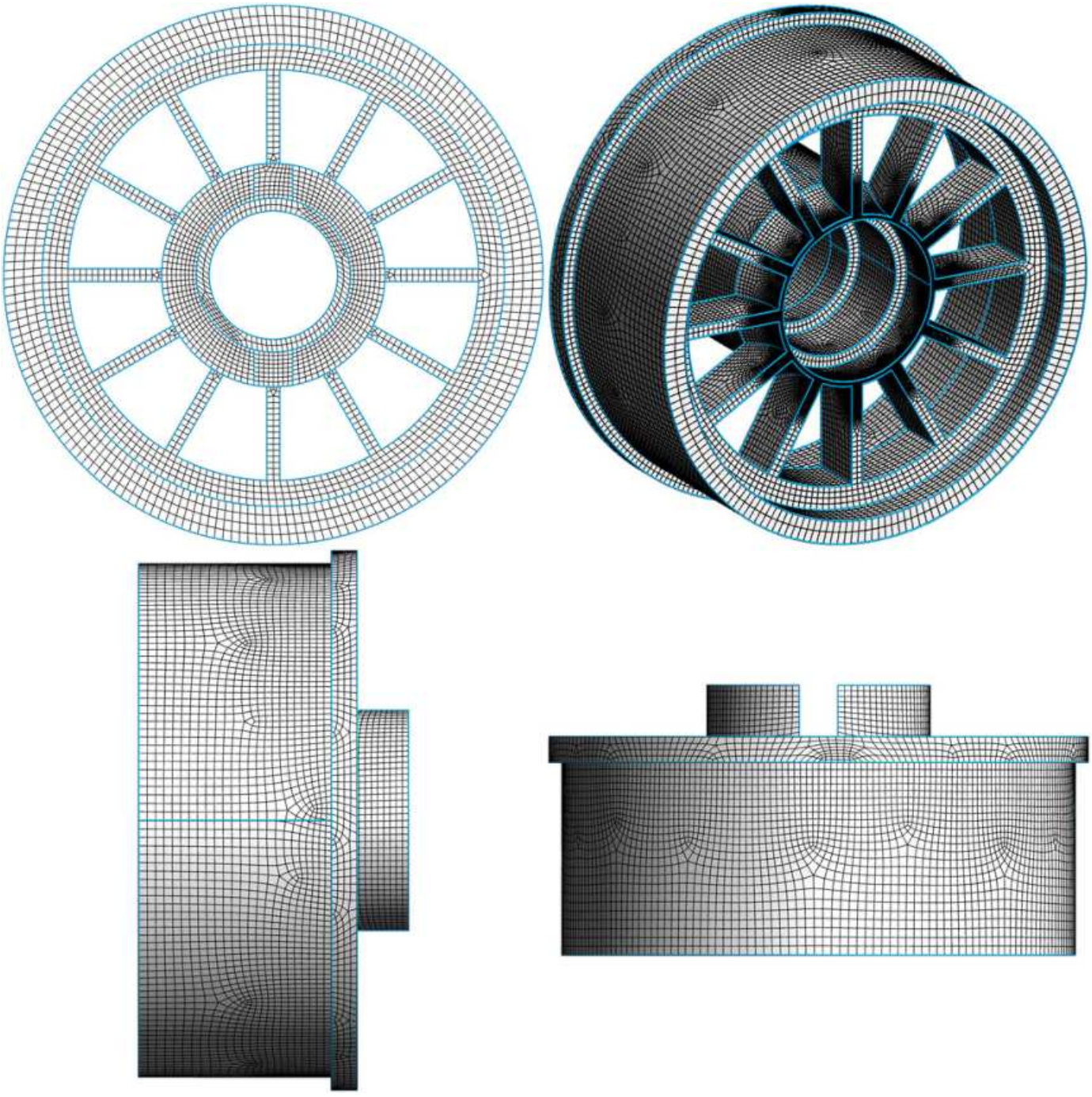


Model: 00009808 (from ABC dataset)
CAD: 153 corners, 242 curves, 85 faces
Cross field: 0 singularities detected
Timings: 33.0052 sec to generate the unstructured mesh, 278.22 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	67030	75382	3359	342
Quasi-structured	69177	77529	1308	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00576837	0.138595	0.505199	0.108321	0.923609	0.974934
Quasi-structured	0.00388042	0.133796	0.530825	0.307281	0.951835	0.984268



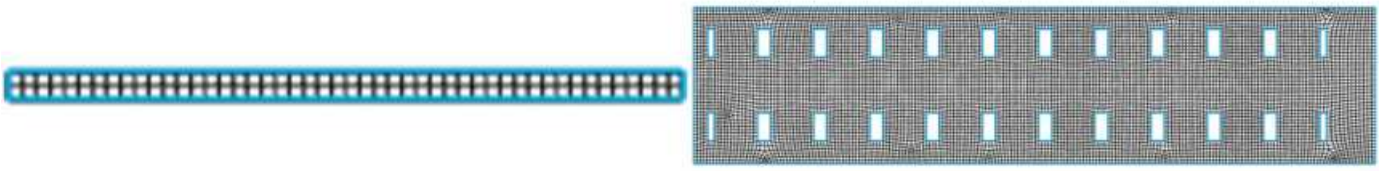
Model: 00009820 (from ABC dataset)
CAD: 200 corners, 300 curves, 102 faces
Cross field: 0 singularities detected
Timings: 11.1223 sec to generate the unstructured mesh, 5.14761 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	17874	20472	470	63
Quasi-structured	18762	21360	52	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.746205	3.14569	5.79852	0.240775	0.958012	0.98382
Quasi-structured	1.45856	3.06817	5.54817	0.740391	0.987409	0.993787



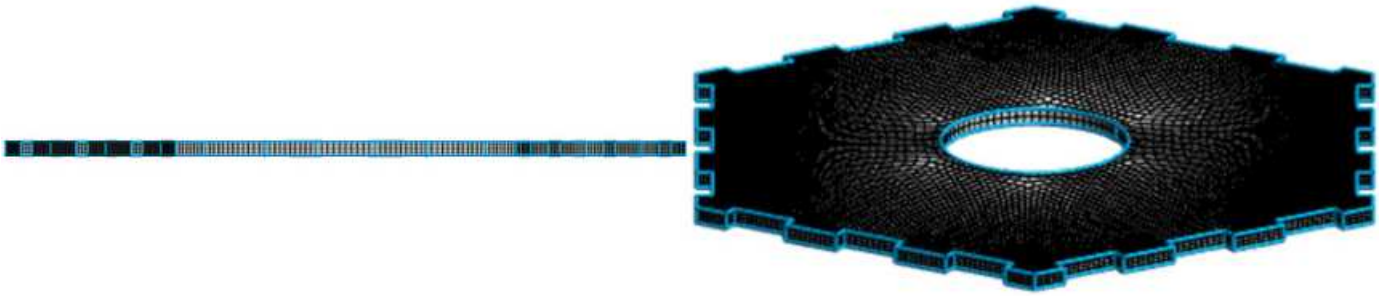


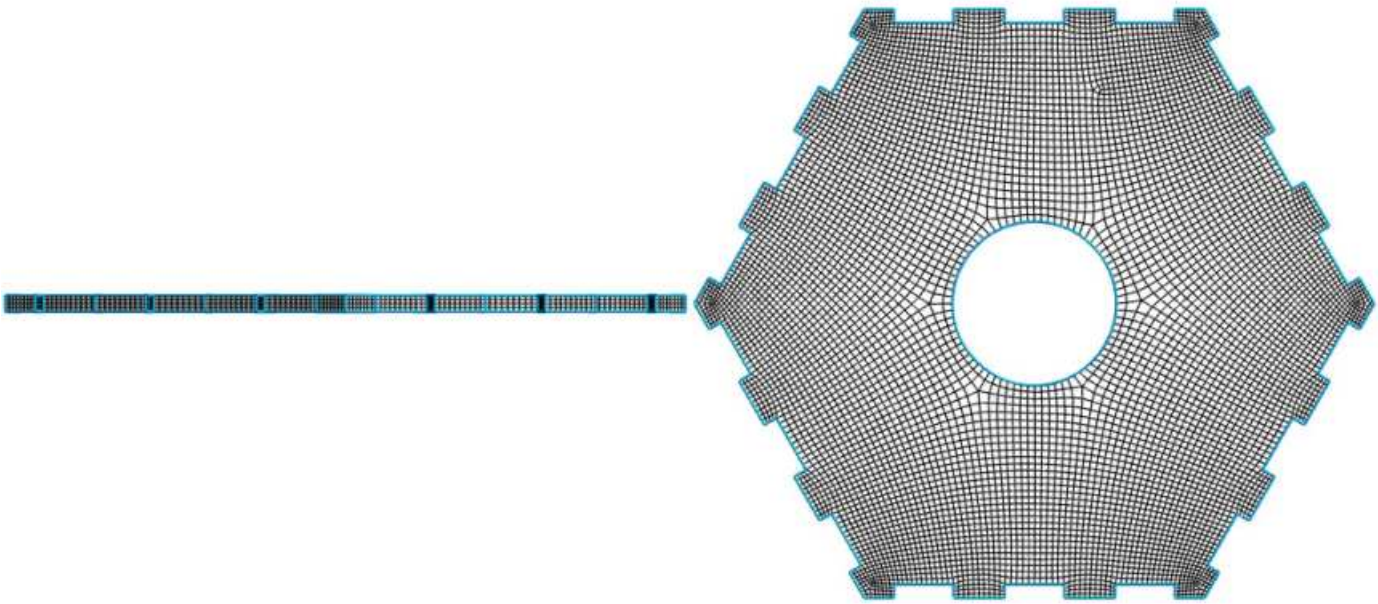
Model: 00009825 (from ABC dataset)
CAD: 158 corners, 237 curves, 81 faces
Cross field: 12 singularities detected
Timings: 15.036 sec to generate the unstructured mesh, 4.51044 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15390	17060	278	28
Quasi-structured	16706	18376	40	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.689358	2.54644	6.41189	0.509337	0.960938	0.989055
Quasi-structured	0.987125	2.4446	7.30961	0.650395	0.983973	0.995229



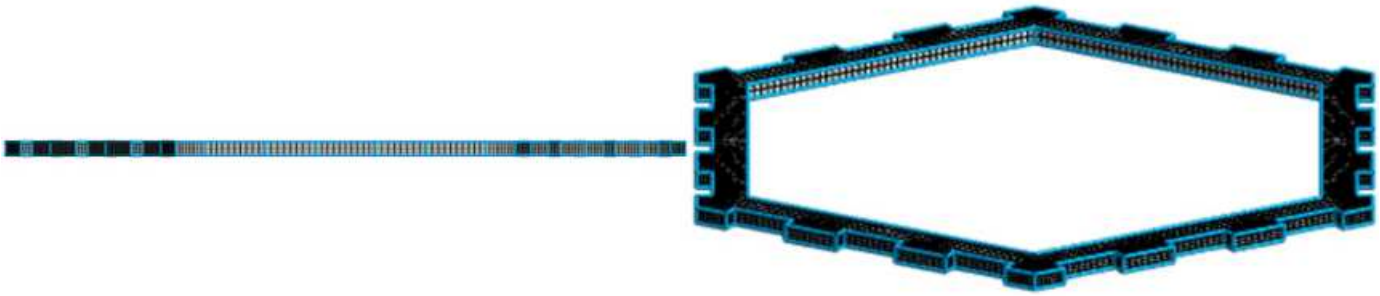


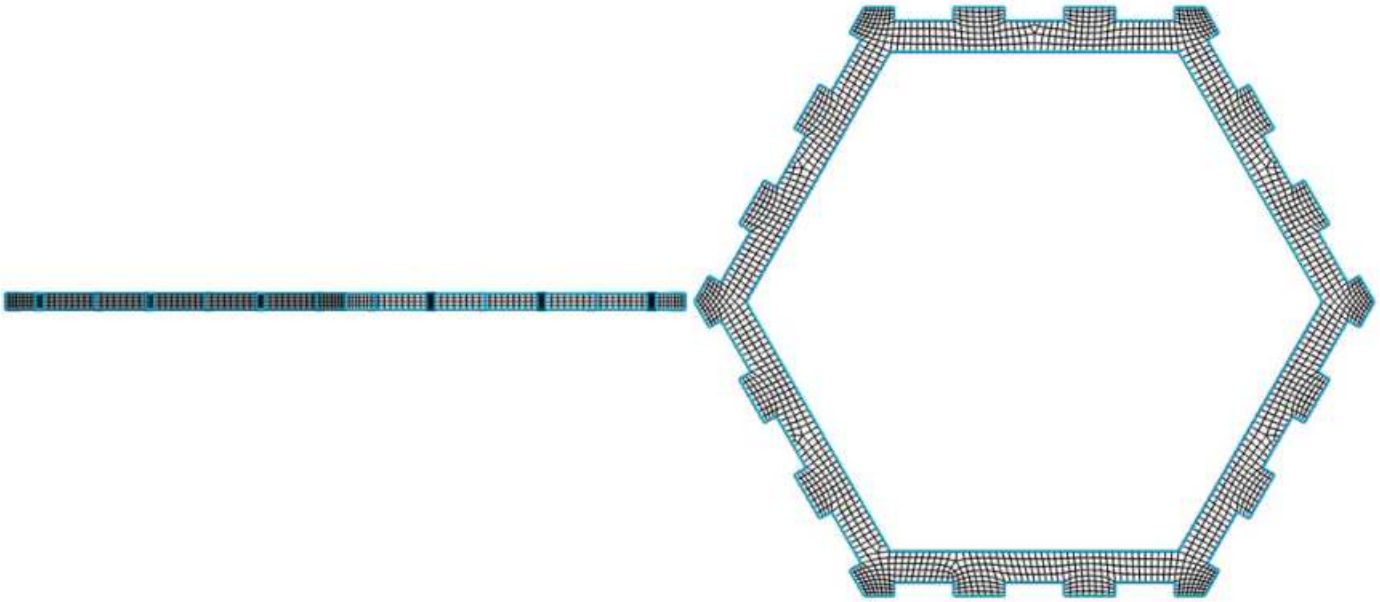
Model: 00009831 (from ABC dataset)
CAD: 168 corners, 252 curves, 86 faces
Cross field: 0 singularities detected
Timings: 2.84986 sec to generate the unstructured mesh, 1.00744 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	5934	7902	201	15
Quasi-structured	6323	8291	30	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.838122	2.42429	4.27489	0.468644	0.922446	0.962442
Quasi-structured	1.42792	2.35343	5.39899	0.556817	0.94199	0.968367



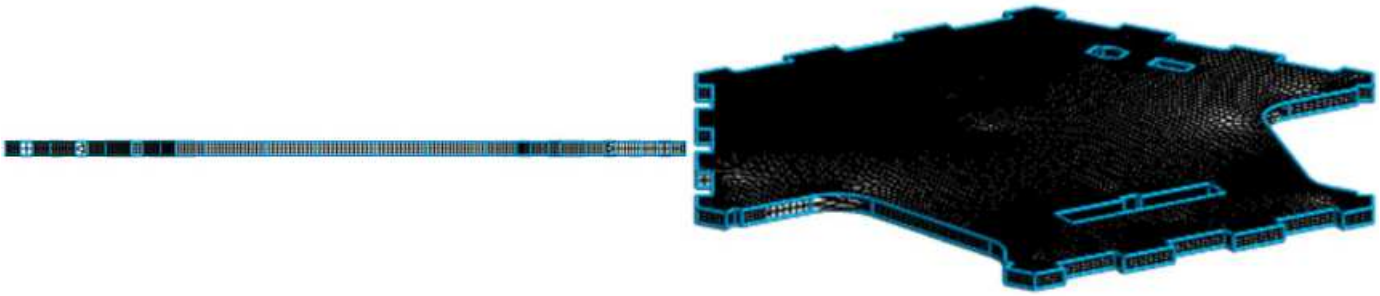


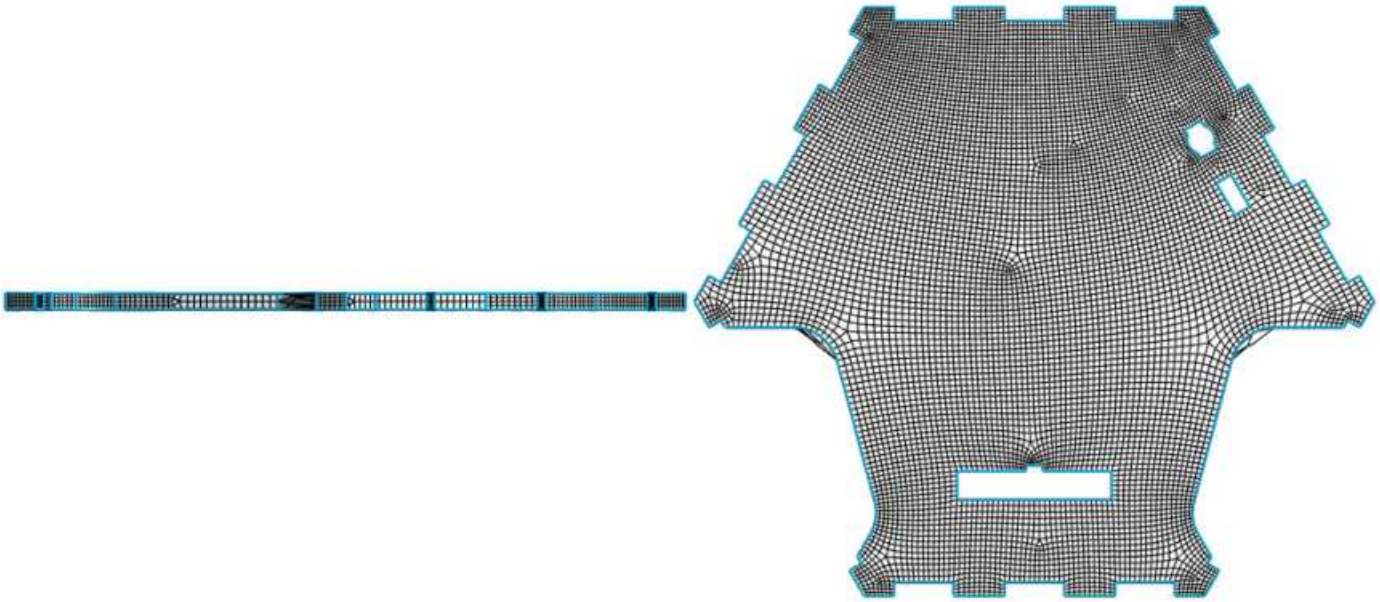
Model: 00009832 (from ABC dataset)
CAD: 188 corners, 282 curves, 96 faces
Cross field: 12 singularities detected
Timings: 20.9248 sec to generate the unstructured mesh, 5.83121 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20432	22322	394	8
Quasi-structured	20436	22326	124	2

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.48754	2.16832	11.698	0.102988	0.954861	0.989005
Quasi-structured	0.48754	2.15715	11.698	0.102988	0.977969	0.995431



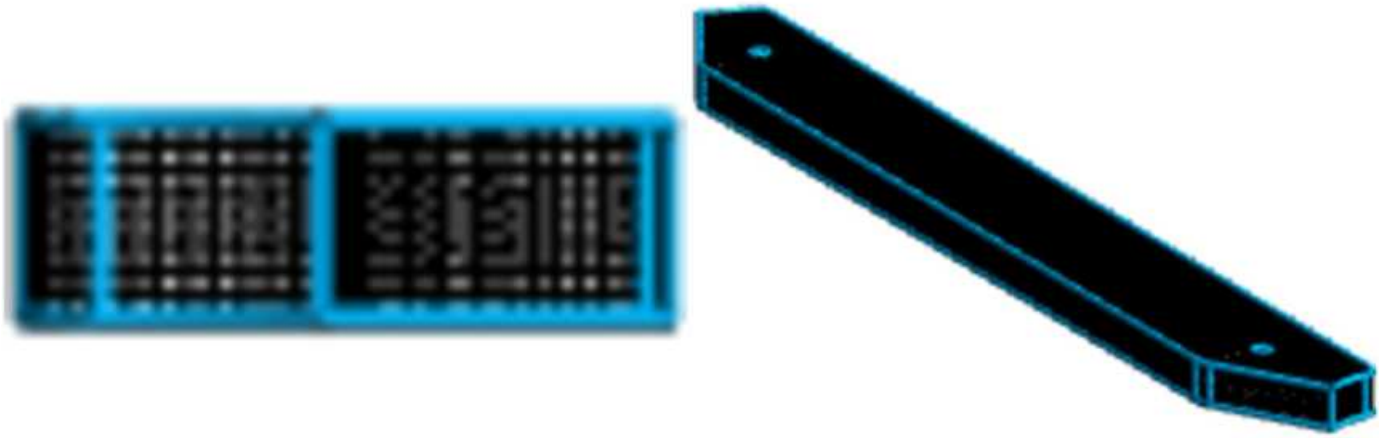


Model: 00009833 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 20 singularities detected
Timings: 2.6563 sec to generate the unstructured mesh, 0.968629 sec to make it quasi-structured
Mesh topology:

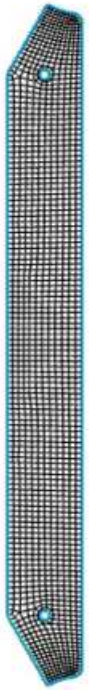
	# quads	# vertices	# irregular	# very irregular
Unstructured	6012	6716	80	13
Quasi-structured	5855	6559	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.365129	1.18011	2.28461	0.352874	0.932765	0.982731
Quasi-structured	0.468177	1.18984	2.09024	0.482395	0.936725	0.982793





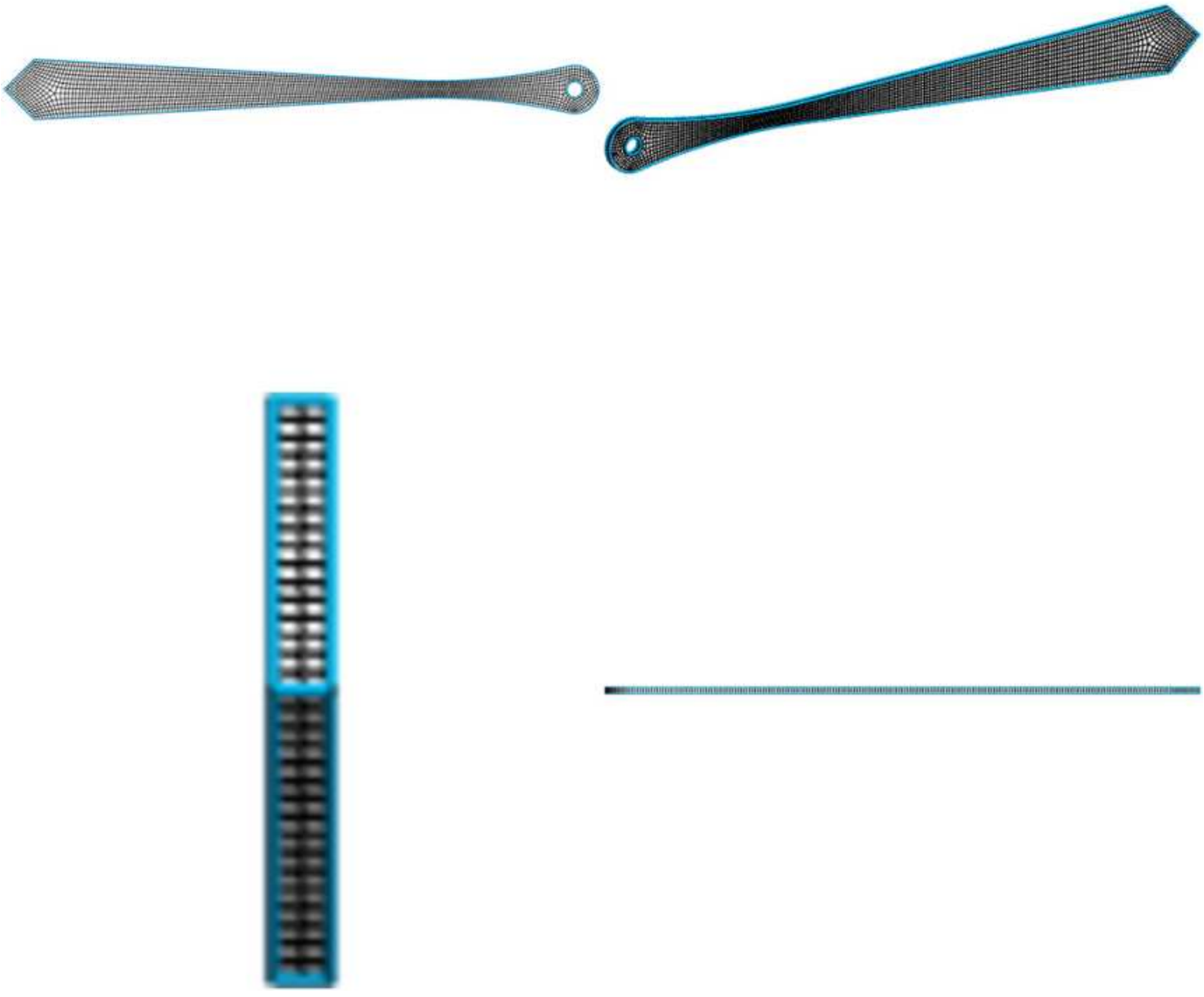


Model: 00009841 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 6 singularities detected
Timings: 1.80203 sec to generate the unstructured mesh, 1.18545 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	4924	5833	137	8
Quasi-structured	5717	6626	20	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.236462	0.669136	1.38351	0.481622	0.962722	0.99073
Quasi-structured	0.266426	0.620103	1.39684	0.660276	0.939701	0.960422

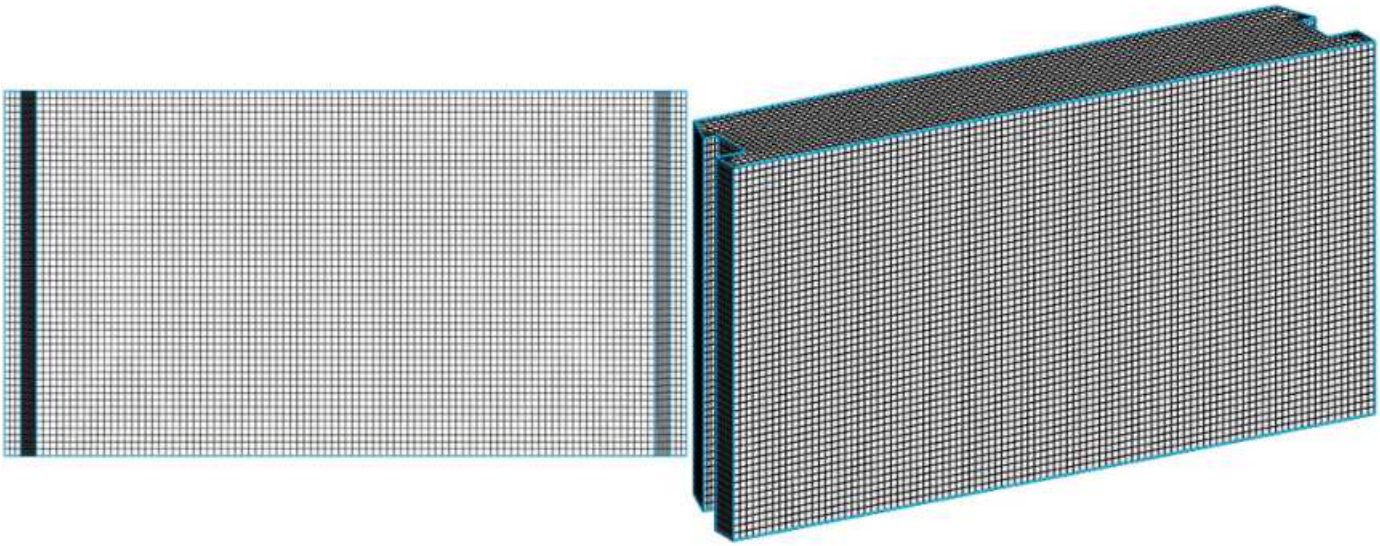


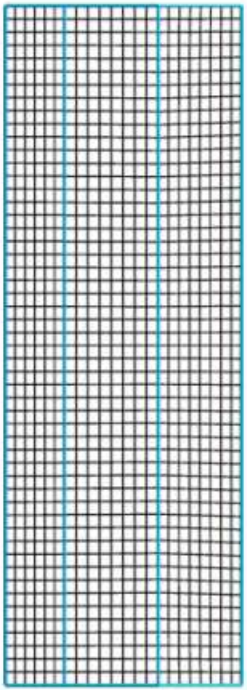
Model: 00009843 (from ABC dataset)
CAD: 24 corners, 36 curves, 14 faces
Cross field: 0 singularities detected
Timings: 10.2857 sec to generate the unstructured mesh, 2.51449 sec to make it quasi-structured
Mesh topology:

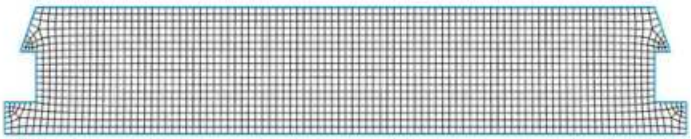
	# quads	# vertices	# irregular	# very irregular
Unstructured	16492	17634	36	2
Quasi-structured	16500	17642	16	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0865654	0.214982	0.316061	0.552007	0.990158	0.999883
Quasi-structured	0.0853204	0.214856	0.317712	0.831869	0.991213	0.999812





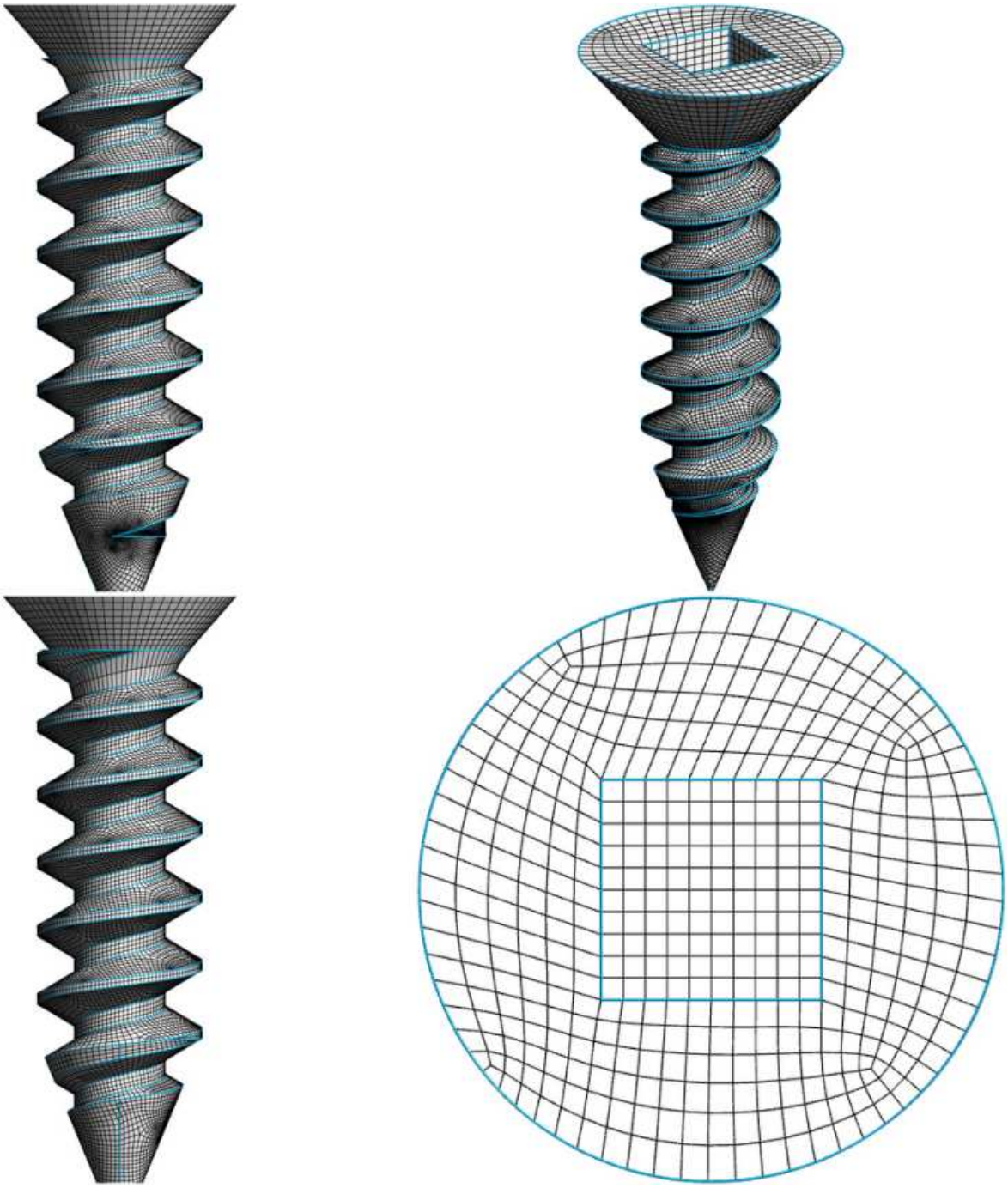


Model: 00009858 (from ABC dataset)
CAD: 77 corners, 90 curves, 16 faces
Cross field: 24 singularities detected
Timings: 43.7145 sec to generate the unstructured mesh, 140.6 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	18392	21525	1075	65
Quasi-structured	19131	22264	266	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00475016	0.178263	0.768784	0.0854523	0.9263	0.982106
Quasi-structured	0.0032445	0.173918	0.830701	0.0661347	0.918752	0.957643

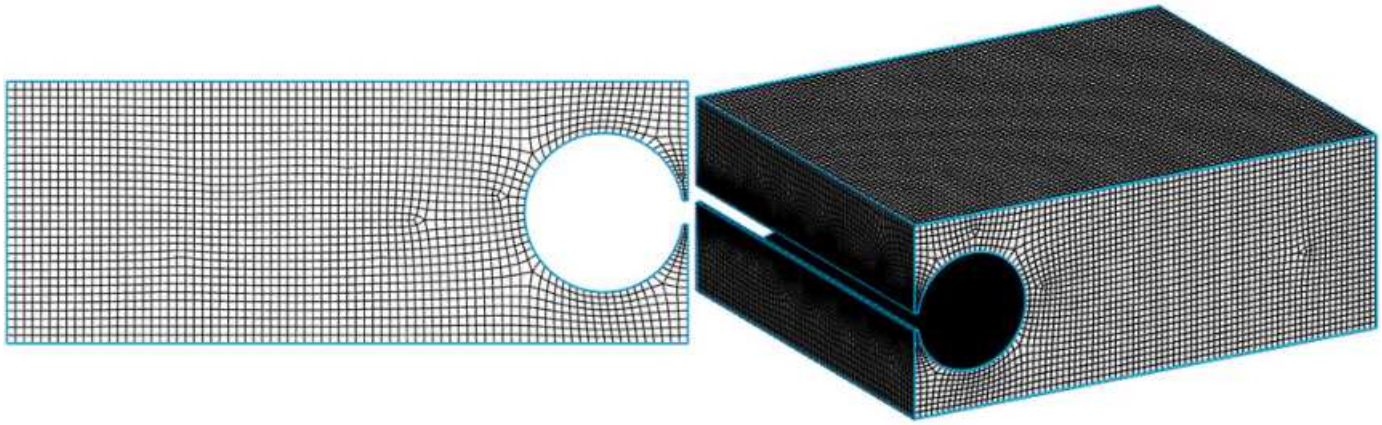


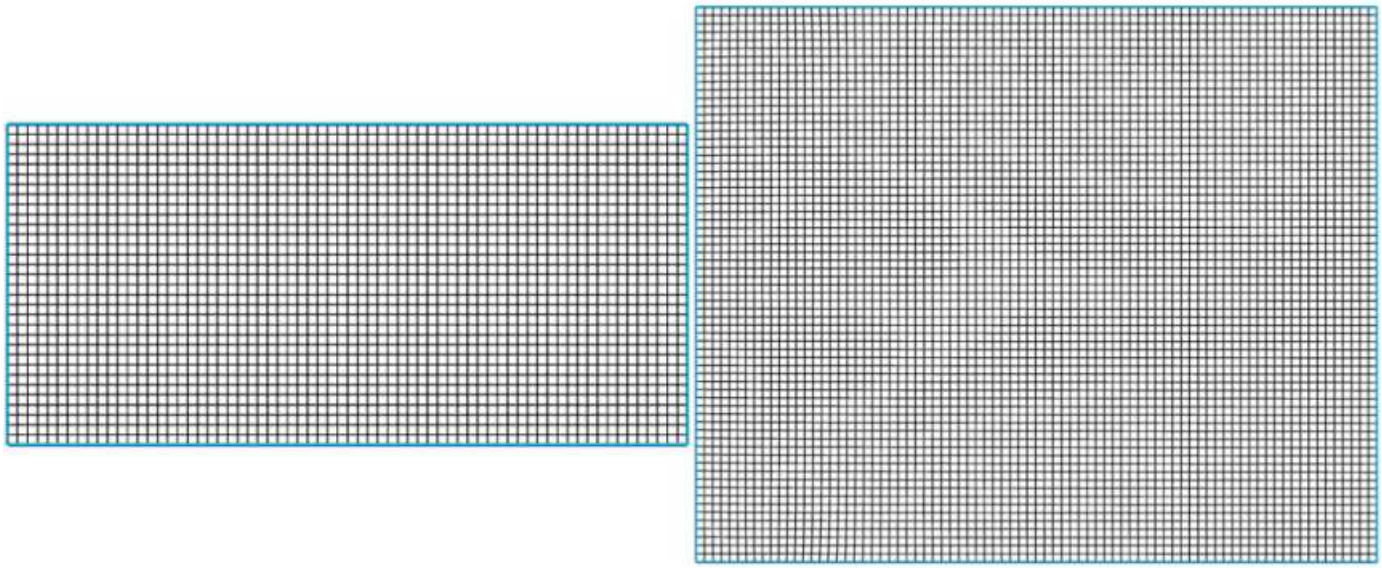
Model: 00009865 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 8 singularities detected
Timings: 12.6914 sec to generate the unstructured mesh, 7.36611 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	40614	42408	350	23
Quasi-structured	40754	42548	84	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.119299	0.578906	1.49205	0.50087	0.867603	0.987505
Quasi-structured	0.113659	0.576178	1.64522	0.561858	0.875413	0.992422



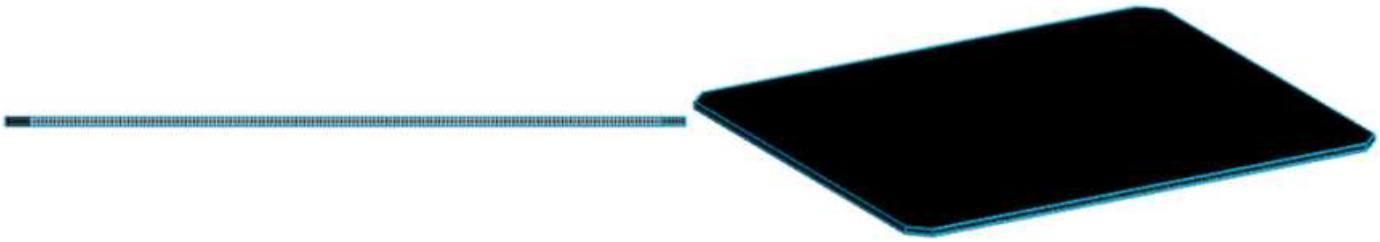


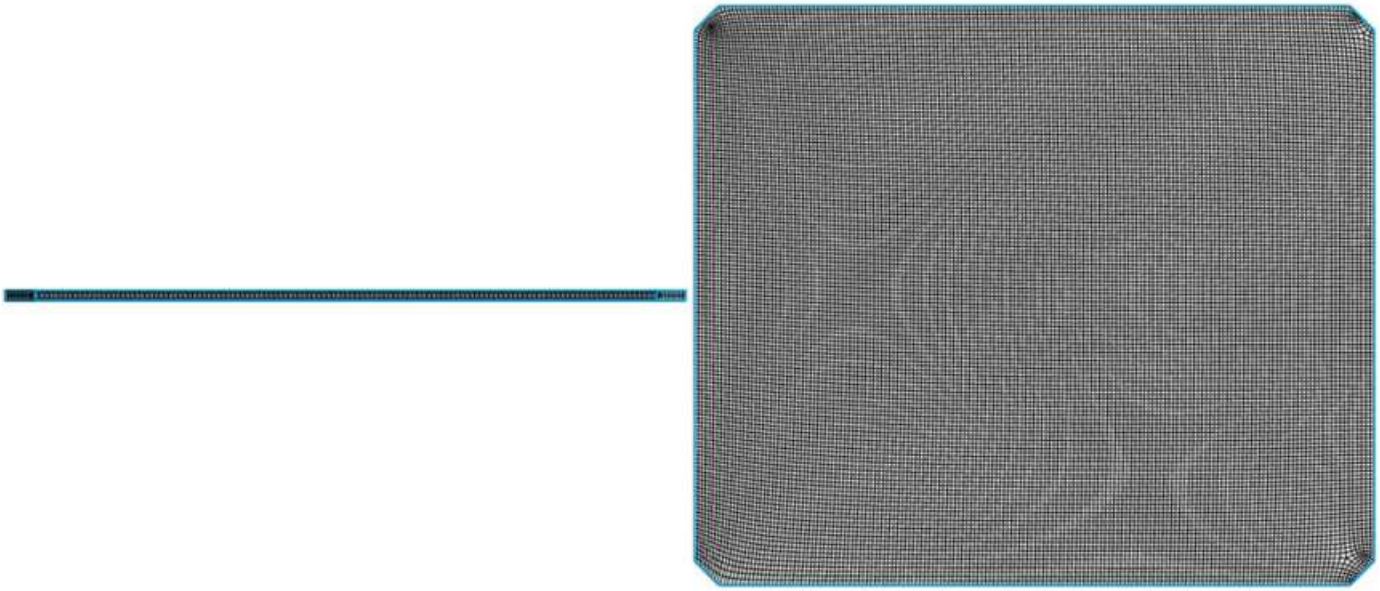
Model: 00009877 (from ABC dataset)
CAD: 16 corners, 24 curves, 10 faces
Cross field: 5 singularities detected
Timings: 11.3382 sec to generate the unstructured mesh, 14.131 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19244	20490	529	73
Quasi-structured	47848	49094	12	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.819453	3.76824	7.45627	0.502354	0.953799	0.998351
Quasi-structured	0.808335	2.48206	5.81914	0.579887	0.993857	0.998917



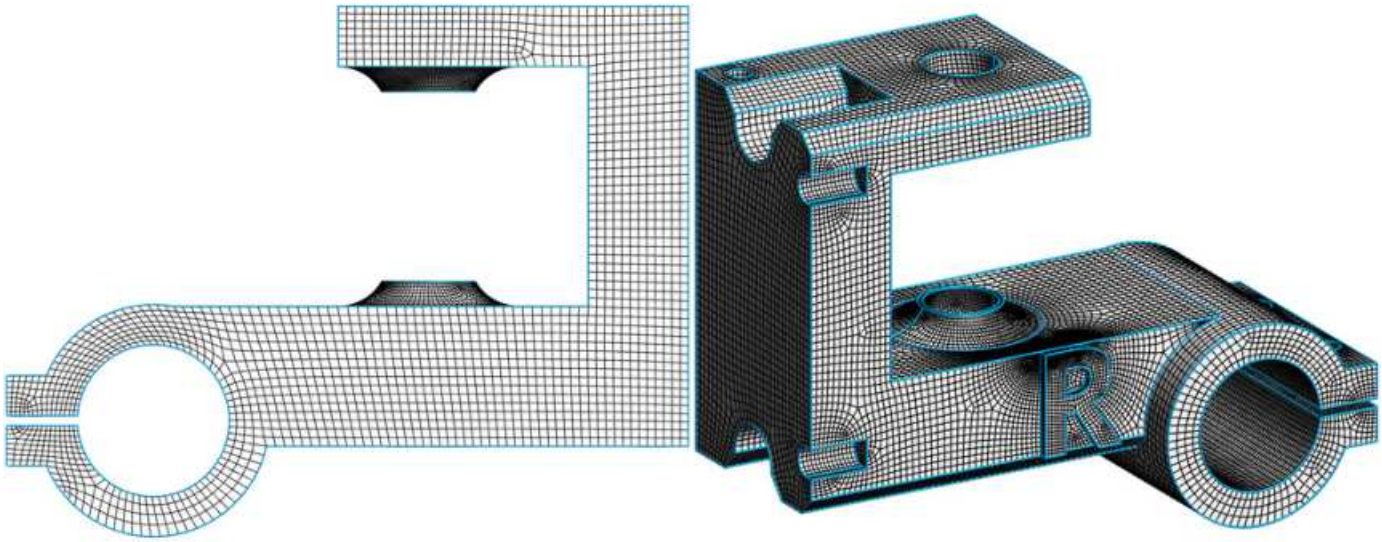


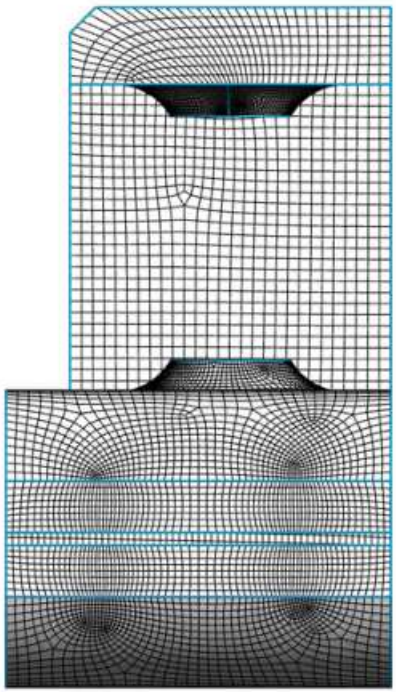
Model: 00009888 (from ABC dataset)
CAD: 135 corners, 203 curves, 72 faces
Cross field: 93 singularities detected
Timings: 20.333 sec to generate the unstructured mesh, 32.0647 sec to make it quasi-structured
Mesh topology:

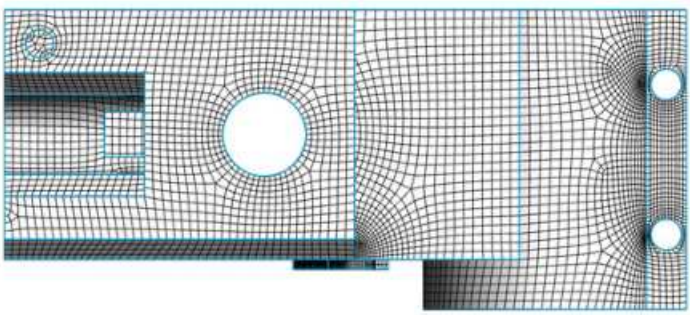
	# quads	# vertices	# irregular	# very irregular
Unstructured	36254	40306	1603	245
Quasi-structured	36782	40834	400	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0233638	0.546603	1.69462	0.0392878	0.938217	0.970961
Quasi-structured	0.0221317	0.542539	2.39393	0.0516178	0.960099	0.980637





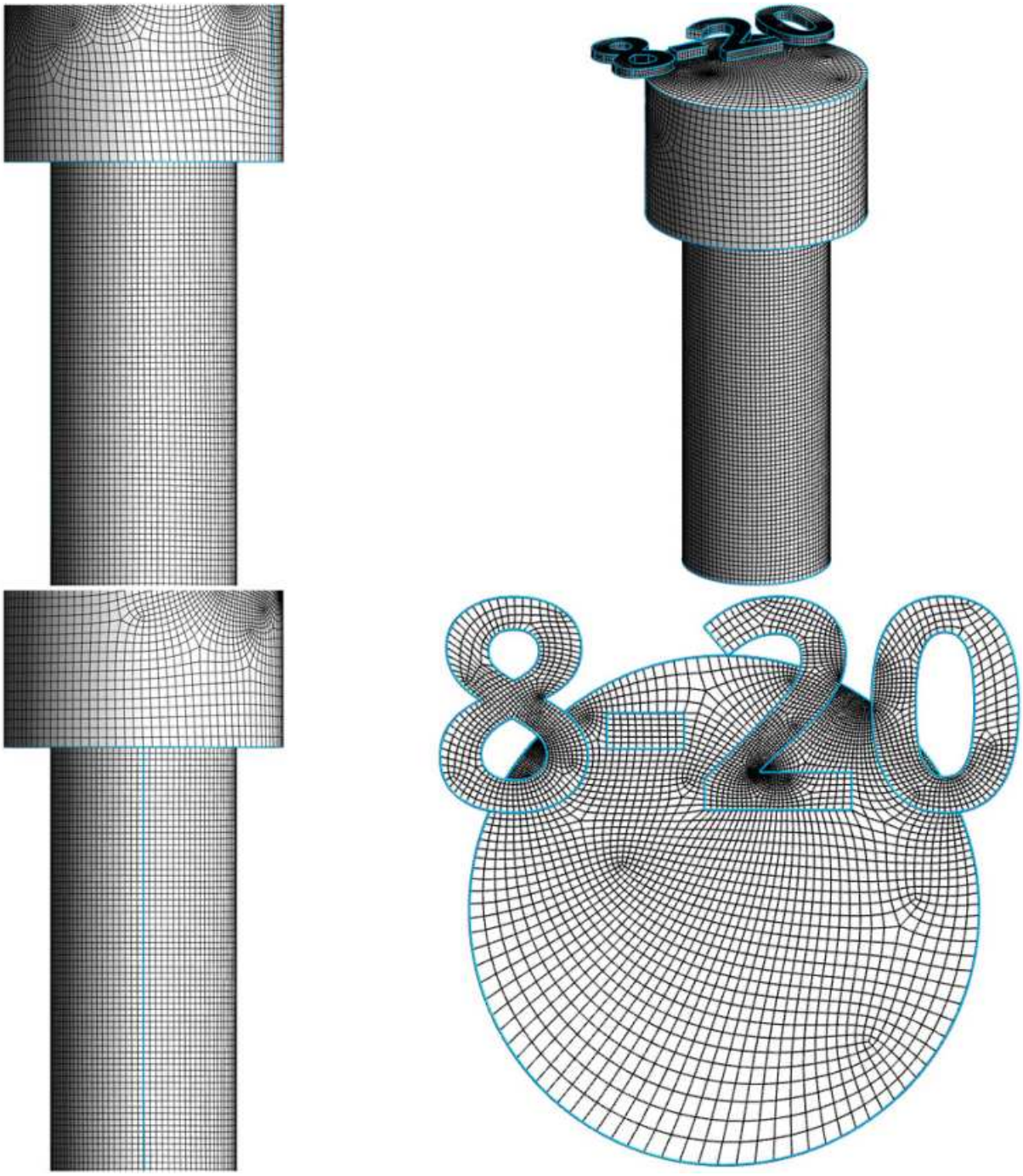


Model: 00009894 (from ABC dataset)
CAD: 164 corners, 251 curves, 89 faces
Cross field: 14 singularities detected
Timings: 15.5342 sec to generate the unstructured mesh, 50.7307 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	23552	25837	990	145
Quasi-structured	23722	26007	214	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00103718	0.190445	0.613655	0.0819764	0.946894	0.986542
Quasi-structured	0.00103718	0.190211	0.638678	0.123092	0.968777	0.990216

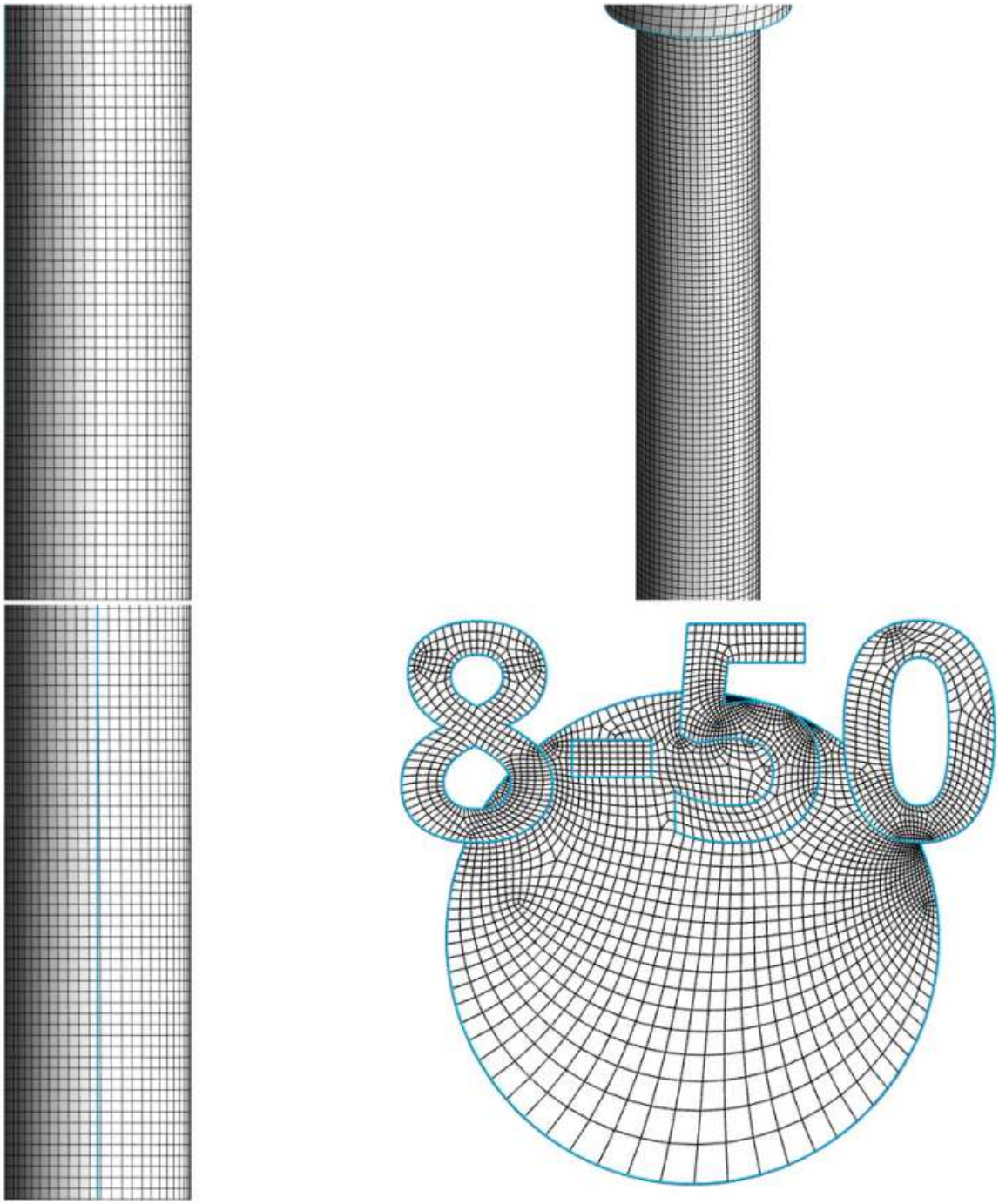


Model: 00009895 (from ABC dataset)
CAD: 156 corners, 239 curves, 86 faces
Cross field: 20 singularities detected
Timings: 9.44866 sec to generate the unstructured mesh, 23.8281 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	15444	17261	718	149
Quasi-structured	15397	17214	188	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00597895	0.300162	0.960033	0.0841372	0.941215	0.982463
Quasi-structured	0.00533101	0.30064	1.19023	0.0909339	0.958658	0.985977

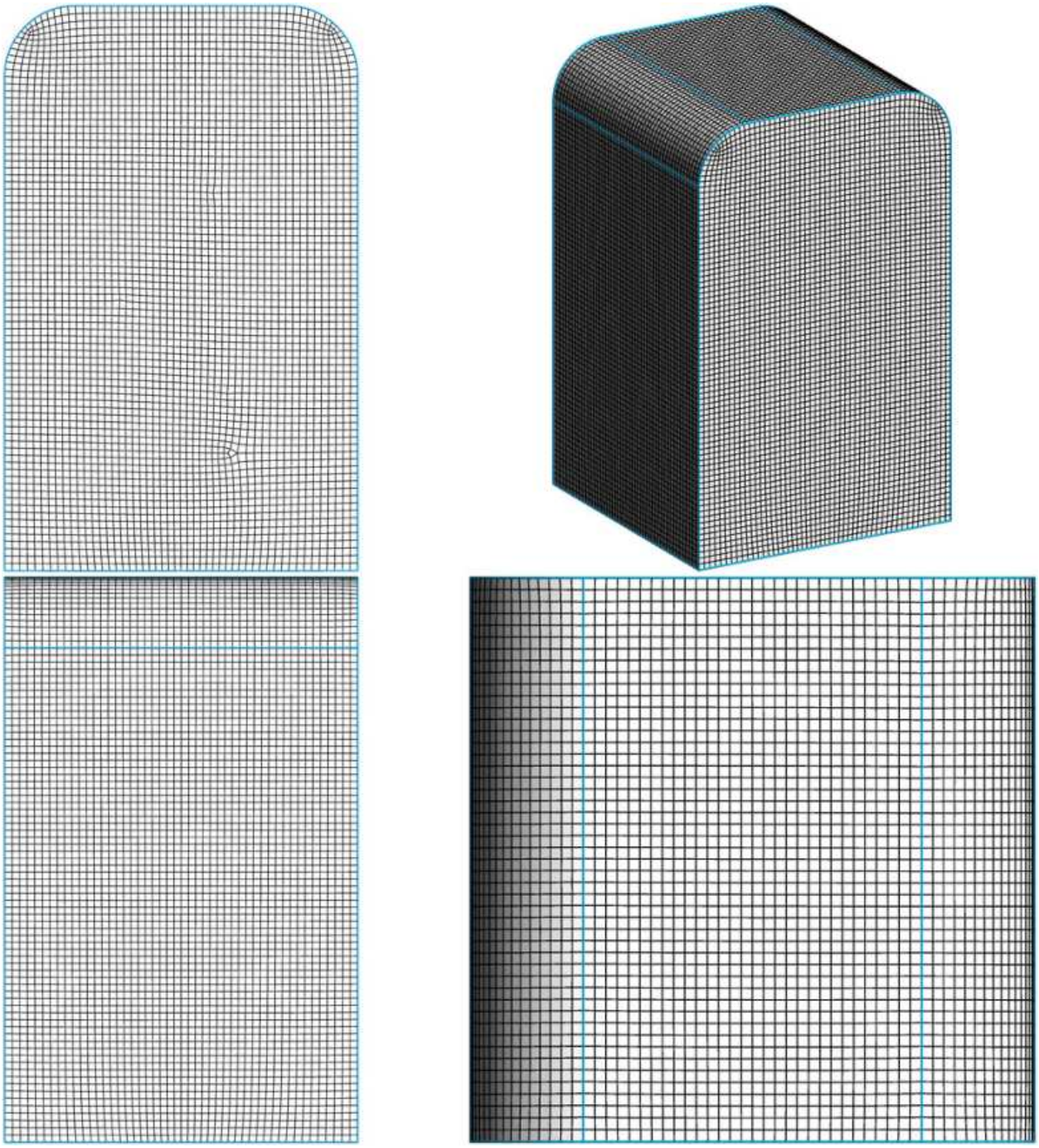


Model: 00009896 (from ABC dataset)
CAD: 14 corners, 21 curves, 10 faces
Cross field: 12 singularities detected
Timings: 20.2289 sec to generate the unstructured mesh, 2.81571 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	27300	28376	172	46
Quasi-structured	27068	28144	14	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0251228	0.0963709	0.171556	0.553039	0.989443	0.998078
Quasi-structured	0.0284169	0.0966574	0.231046	0.72761	0.994506	0.998683

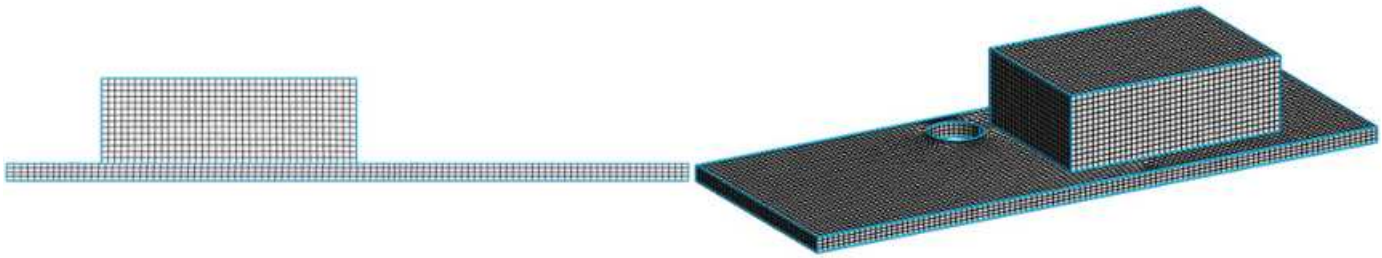


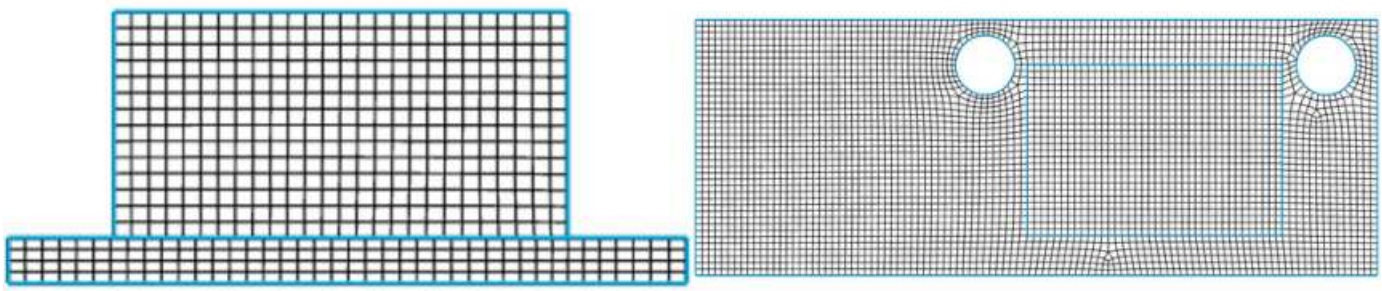
Model: 00009897 (from ABC dataset)
CAD: 20 corners, 30 curves, 13 faces
Cross field: 16 singularities detected
Timings: 7.89939 sec to generate the unstructured mesh, 1.18861 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	11002	12048	95	6
Quasi-structured	11012	12058	26	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.116779	0.374929	0.614251	0.337217	0.978233	0.998052
Quasi-structured	0.173383	0.374419	0.758565	0.618026	0.98342	0.997417



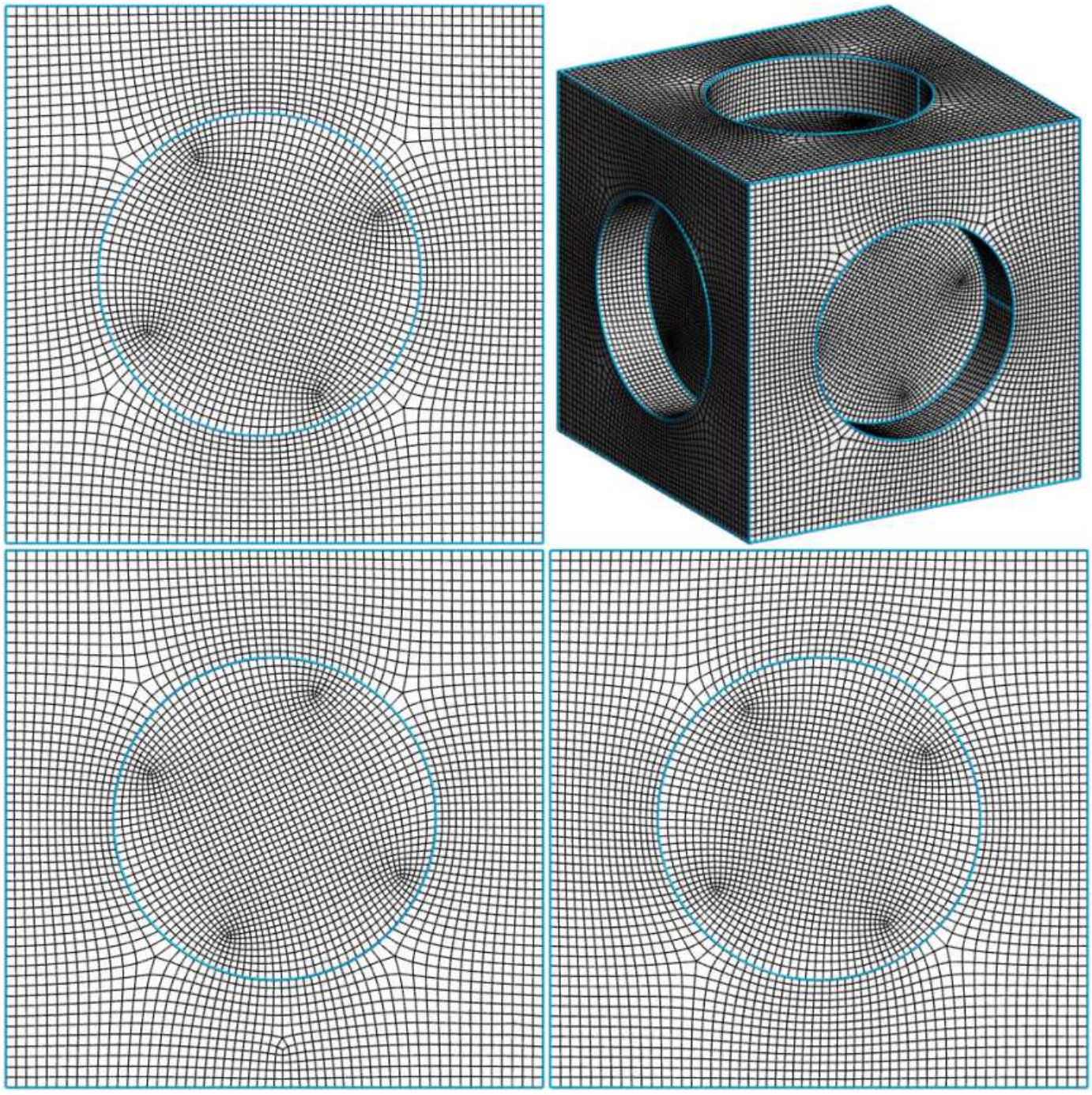


Model: 00009924 (from ABC dataset)
CAD: 20 corners, 30 curves, 18 faces
Cross field: 48 singularities detected
Timings: 27.412 sec to generate the unstructured mesh, 3.68079 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	31824	33990	500	77
Quasi-structured	32034	34200	50	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0827193	0.307799	0.688279	0.499639	0.977956	0.993956
Quasi-structured	0.100237	0.305902	0.822432	0.689205	0.991414	0.995716

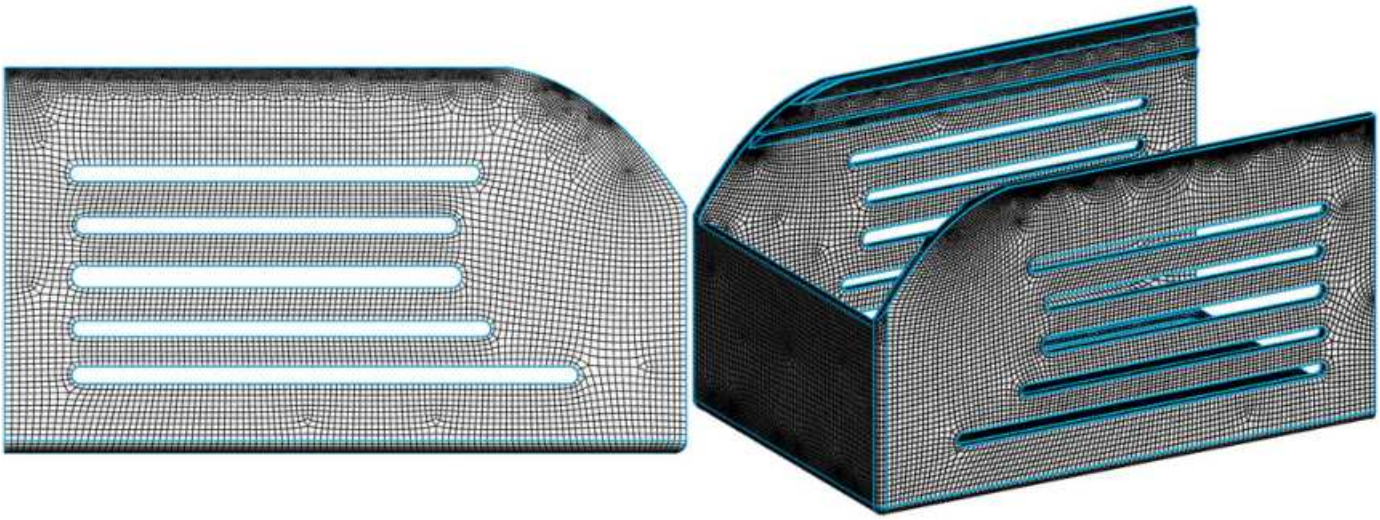


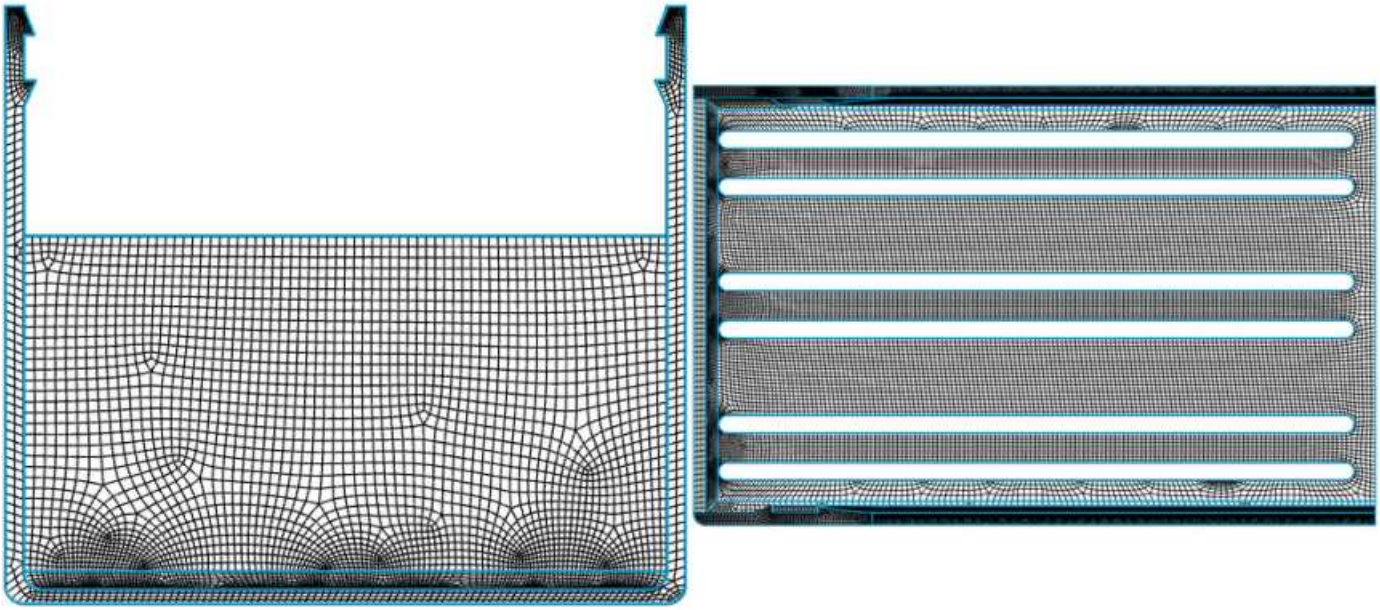
Model: 00009949 (from ABC dataset)
CAD: 189 corners, 288 curves, 100 faces
Cross field: 145 singularities detected
Timings: 45.6534 sec to generate the unstructured mesh, 482.628 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	108222	123838	5202	179
Quasi-structured	116279	131895	2414	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00116099	0.570889	1.96939	2.43105e-05	0.930342	0.972903
Quasi-structured	0.00459335	0.558811	2.87976	2.43105e-05	0.94028	0.981349



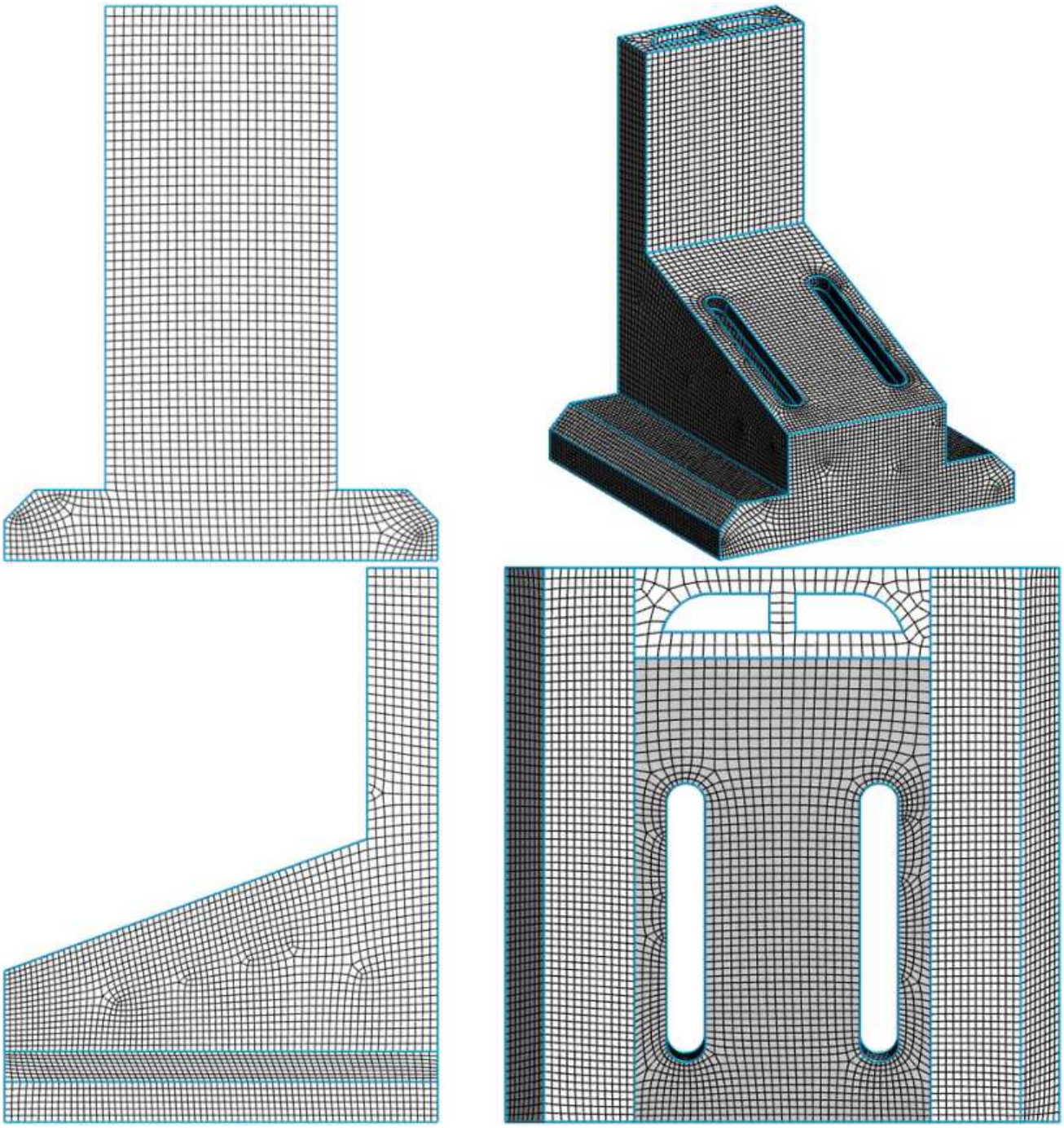


Model: 00009955 (from ABC dataset)
CAD: 152 corners, 235 curves, 87 faces
Cross field: 74 singularities detected
Timings: 13.1216 sec to generate the unstructured mesh, 17.1338 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	32498	36897	1019	54
Quasi-structured	33362	37761	311	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0264197	0.62385	1.4538	0.000273915	0.957892	0.990671
Quasi-structured	0.00773982	0.612055	2.78395	0.03997	0.970044	0.990407

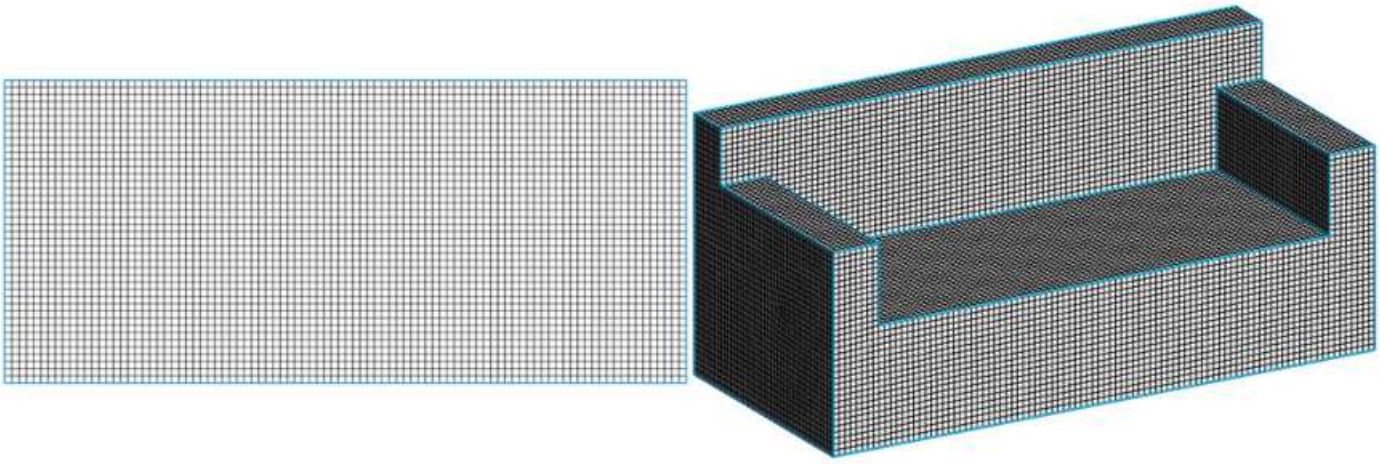


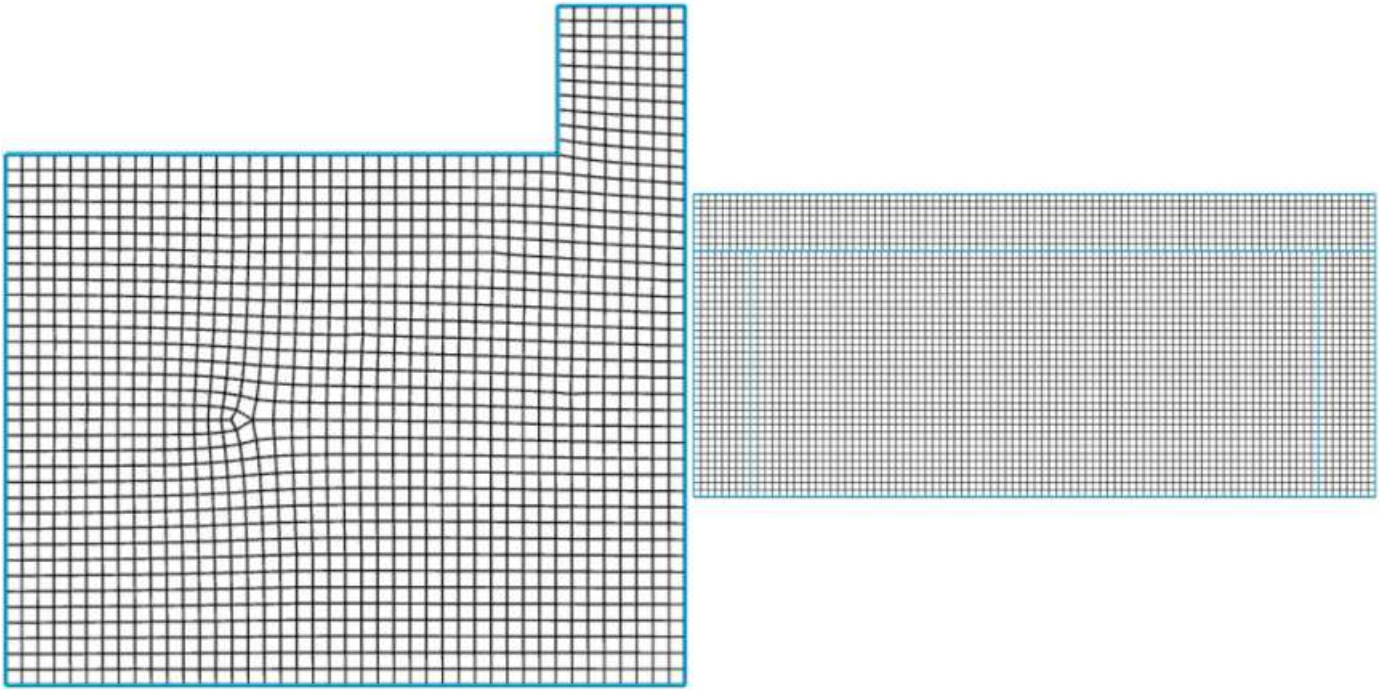
Model: 00009958 (from ABC dataset)
CAD: 20 corners, 30 curves, 12 faces
Cross field: 0 singularities detected
Timings: 8.83881 sec to generate the unstructured mesh, 1.48345 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	19694	20802	12	0
Quasi-structured	19846	20954	4	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	8.05684	19.3455	27.475	0.687652	0.998205	0.999983
Quasi-structured	11.947	19.2684	24.974	0.8408	0.999278	0.999983



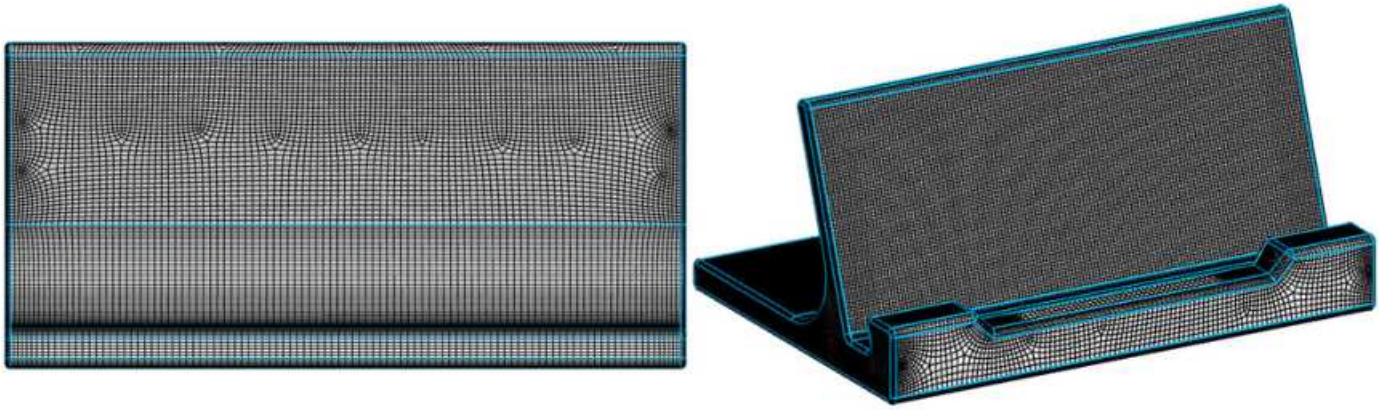


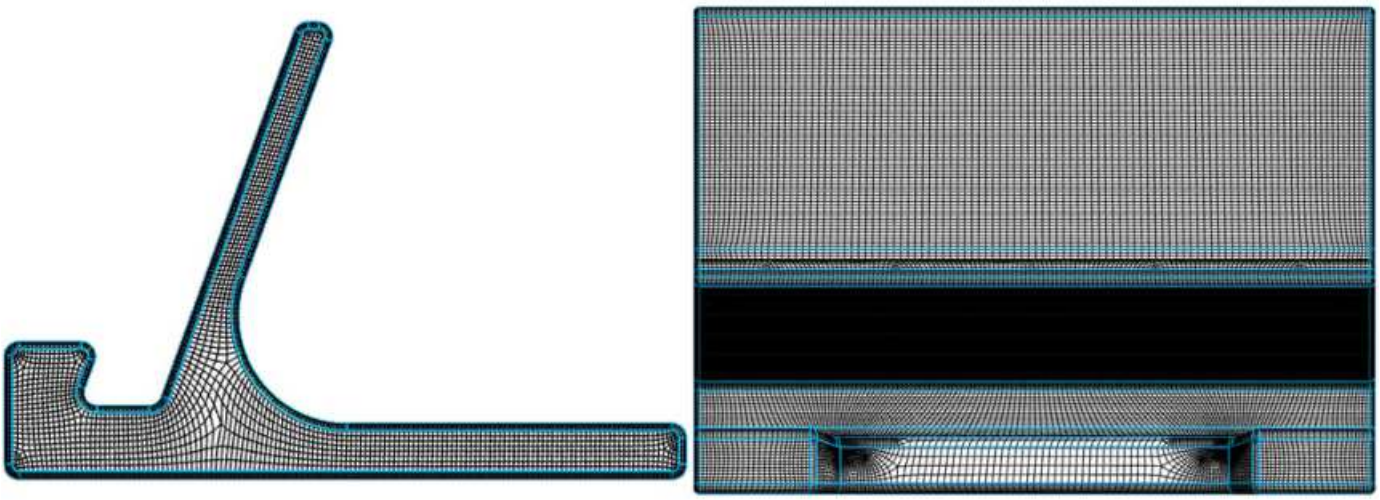
Model: 00009963 (from ABC dataset)
CAD: 106 corners, 191 curves, 83 faces
Cross field: 23 singularities detected
Timings: 20.8557 sec to generate the unstructured mesh, 17.8588 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	63506	68599	697	34
Quasi-structured	65444	70537	190	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.00164274	0.884328	2.47024	0.00381895	0.867721	0.862809
Quasi-structured	0.0215317	0.875875	3.68126	0.194305	0.870287	0.885716



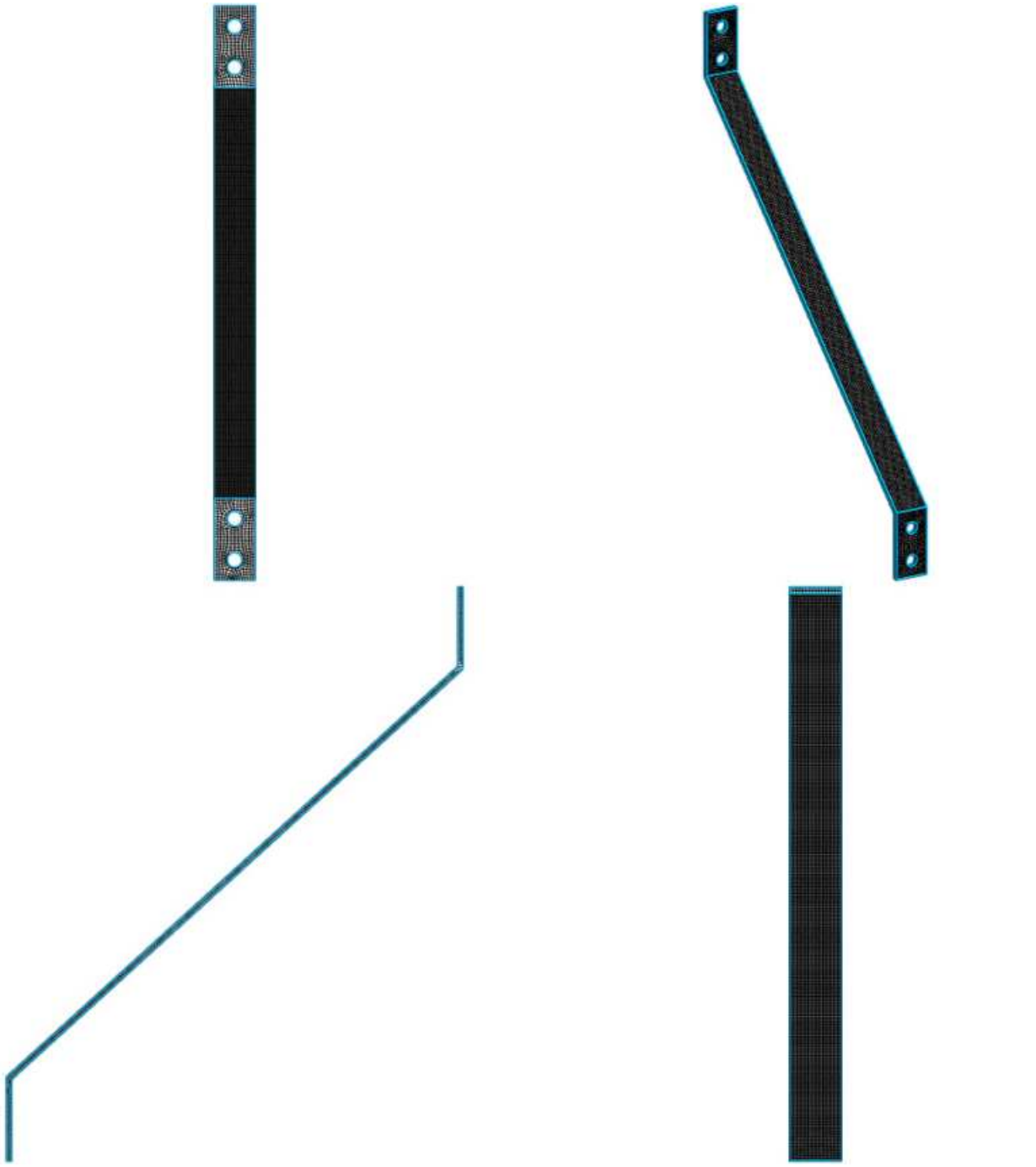


Model: 00009966 (from ABC dataset)
CAD: 28 corners, 40 curves, 14 faces
Cross field: 32 singularities detected
Timings: 2.23802 sec to generate the unstructured mesh, 1.09425 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	9714	11216	176	20
Quasi-structured	9843	11345	74	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.274247	0.846267	1.51448	0.407924	0.962786	0.973308
Quasi-structured	0.30188	0.840106	1.6446	0.478946	0.97215	0.990856

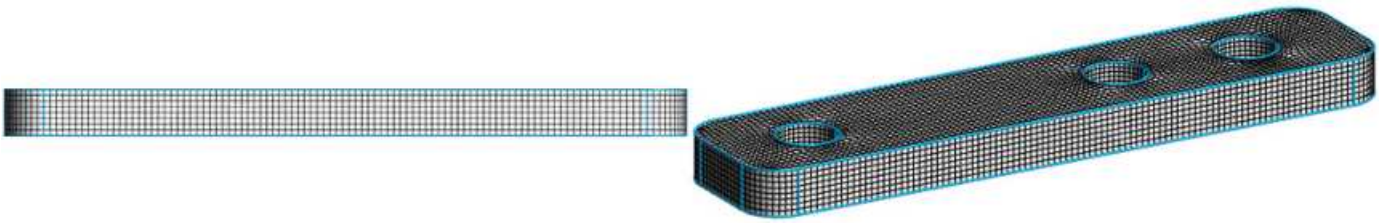


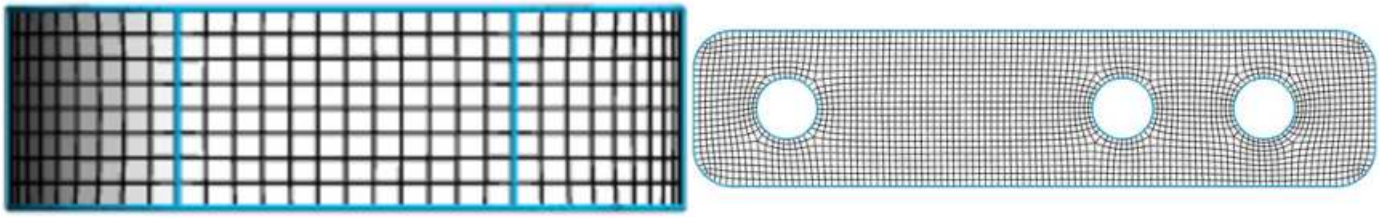
Model: 00009993 (from ABC dataset)
CAD: 22 corners, 33 curves, 13 faces
Cross field: 32 singularities detected
Timings: 5.64734 sec to generate the unstructured mesh, 0.839392 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	7820	8624	144	31
Quasi-structured	8064	8868	32	0

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.129312	0.398369	0.777606	0.153897	0.974594	0.993827
Quasi-structured	0.187339	0.391434	0.692189	0.728762	0.990005	0.995323





Model: 00009999 (from ABC dataset)
CAD: 14 corners, 22 curves, 13 faces
Cross field: 61 singularities detected
Timings: 15.6371 sec to generate the unstructured mesh, 2.55464 sec to make it quasi-structured
Mesh topology:

	# quads	# vertices	# irregular	# very irregular
Unstructured	20416	21676	308	143
Quasi-structured	20507	21767	44	1

Mesh geometry:

	edge min	edge average	edge max	SICN min	SICN average	SICN median
Unstructured	0.0383944	0.439363	1.14533	0.0286858	0.974122	0.994726
Quasi-structured	0.0213157	0.436943	0.869805	0.221365	0.990135	0.996088

