

Benchmarks

Model	Size	Offset	Running Time (in seconds)		
			Shelling-Algorithm	Clean-Up-Algorithm	Total
Utha Teapot	2469 Faces 1292 Vertices	+0.6	2.1	Remove Double Triangles: 15 Recalculate Triangles Orientation: 0.5 Detect Self-Intersections: 83 Fix Triangle-Intersections: 5.8	106.4
		+0.2	2.2	Remove Double Triangles: 14 Recalculate Triangles Orientation: 0.5 Detect Self-Intersections: 111.9 Fix Triangle-Intersections: 2.2	130.8
		-0.2	1.1	Remove Double Triangles: 13.8 Recalculate Triangles Orientation: 0.5 Detect Self-Intersections: 138.3 Fix Triangle-Intersections: 5.32	159,02
		-0.6	1.3	~ 186.34	187.64
Stanford Bunny	4968 Faces 2503 Vertices	+0.6	4.4	~ 209,2	213.6
		+0.2	3.7	~ 259,1	262.8
		-0.2	3.5	~ 314,45	317.95
		-0.6	3.4	~ 374,16	377.56
Dragon	100000 Faces 50000 Vertices	+0.6	484.6	~ 3815,4	4300
		+0.2	302.5	~ 4987,7	5290.2
		-0.2	134.9	~ 6245,85	6380.75
		-0.6	137.5	~ 7462,5	7600

Hochrechnungen

Vertices	Offset +0.6 (Dauer in Sek.)	Offset +0.2 (Dauer in Sek.)	Offset -0.2 (Dauer in Sek.)	Offset -0.6 (Dauer in Sek.)
1292	2,1	2,2	1,1	1,3
2503	4,4	3,7	3,5	3,4
5006	17,6	14,8	14	13,6
10012	70,4	59,2	56	54,4
50000	484,6	302,5	134,9	137,5
100000	1938,4	1210	539,6	550
200000	7753,6	4840	2158,4	2200
400000	31014,4	19360	8633,6	8800
800000	124057,6	77440	34534,4	35200
1600000	496230,4	309760	138137,6	140800
3200000	1984921,6	1239040	552550,4	563200
6400000	7939686,4	4956160	2210201,6	2252800
12800000	31758745,6	19824640	8840806,4	9011200
25600000	127034982,4	79298560	35363225,6	36044800
51200000	508139929,6	317194240	141452902,4	144179200