

Small Graphs

Graph ID	Vertices	Edges	Density (%)	Prim Cost	Kruskal Cost	Prim Time (ms)	Kruskal Time (ms)	Prim Ops	Kruskal Ops	Time Ratio	Ops Ratio
1	10	26	57	217	217	0.000	0.000	123	184	0.000	0.668
2	20	118	62	182	182	0.000	0.000	433	707	0.000	0.612
3	30	136	31	304	304	0.000	0.000	522	876	0.000	0.596
4	40	484	62	244	244	0.000	0.000	1,605	3284	0.000	0.489
5	50	415	33	365	365	0.000	0.000	1,457	3327	0.000	0.501

Medium Graphs

Graph ID	Vertices	Edges	Density (%)	Prim Cost	Kruskal Cost	Prim Time (ms)	Kruskal Time (ms)	Prim Ops	Kruskal Ops	Time Ratio	Ops Ratio
1	50	512	41	274	274	0.000	0.000	1,78	3,684	0.000	0.483
2	75	1,079	38	288	288	0.000	0.000	3,56	8,148	0.000	0.437
3	100	2,469	49	297	297	0.002	0.003	7,869	20,265	0.667	0.388
4	125	1,975	25	614	614	0.001	0.000	6,679	16,565	0.000	0.403
5	150	5,238	46	342	342	0.003	0.002	16,466	46,411	1.500	0.355
6	175	4,186	27	494	494	0.002	0.001	13,491	36,788	2.000	0.367
7	200	7,548	37	390	390	0.006	0.002	23,644	69,347	3.000	0.341
8	225	5,581	22	712	712	0.004	0.002	18,084	50,926	2.000	0.355
9	250	15,054	48	384	384	0.009	0.006	46,448	147,799	1.500	0.314
10	300	10,244	22	676	676	0.006	0.004	32,467	98,282	1.500	0.330

Large Graphs

Graph ID	Vertices	Edges	Density (%)	Prim Cost	Kruskal Cost	Prim Time (ms)	Kruskal Time (ms)	Prim Ops	Kruskal Ops	Time Ratio	Ops Ratio
1	300	14,885	33	548	548	0.021	0.003	46,186	146,164	7.000	0.316
2	400	17,971	22	793	793	0.007	0.003	56,103	180,689	2.333	0.310
3	500	45,999	36	628	628	0.020	0.008	140,816	500,508	2.500	0.281
4	600	60,768	33	699	699	0.022	0.011	185,881	677,092	2.000	0.275
5	700	92,974	38	759	759	0.029	0.015	282,899	1,072,678	1.933	0.264
6	800	90,549	28	898	898	0.026	0.014	276,624	1,044,667	1.857	0.265
7	900	85,71	21	1,086	1,086	0.029	0.014	262,598	984,717	2.071	0.267
8	1000	138,981	27	1,095	1,095	0.047	0.021	423,783	1,662,272	2.238	0.255
9	350	11,282	18	798	798	0.002	0.001	35,922	109,625	2.000	0.328
10	450	17,936	17	848	848	0.007	0.002	56,311	180,599	3.500	0.312

Extra Large Graphs

Graph ID	Vertices	Edges	Density (%)	Prim Cost	Kruskal Cost	Prim Time (ms)	Kruskal Time (ms)	Prim Ops	Kruskal Ops	Time Ratio	Ops Ratio
1	1000	122,633	24	1084	1084	0.032	0.020	374,343	1,450,076	1.600	0.258
2	1500	138,4	12	1805	1805	0.073	0.020	424,095	1,659,321	3.650	0.256
3	2000	372,019	18	2044	2044	0.149	0.111	1,130,078	4,808,083	1.342	0.235
4	2500	815,612	26	2500	2500	0.280	0.132	2,463,652	11,142,658	2.121	0.221
5	3000	1,104,568	24	2999	2999	0.363	0.160	3,332,981	15,411,614	2.269	0.216