

Graph name	Optimal	#Nodes	Compliment Graph #Edges	Edges Density	Ours MIS Size	Ours Gap	MISB MC Solver	MISB MC Solver Gap
c-fat500-1	14	500	120291	0.964256513	14	1	14	1
c-fat500-2	26	500	115611	0.926741483	26	1	26	1
c-fat200-1	12	200	18366	0.922914573	12	1	12	1
c-fat200-2	24	200	16665	0.837437186	24	1	24	1
c-fat500-5	64	500	101559	0.8141002	64	1	64	1
p_hat300-1	8	300	33917	0.756231884	8	1	8	1
hamming6-4	4	64	1312	0.650793651	4	1	4	1
c-fat500-10	126	500	78123	0.626236473	126	1	126	1
c-fat200-5	58	200	11427	0.574221106	58	1	58	1
p_hat300-2	25	300	22922	0.511081382	25	1	24	0.96
brock200_2	12	200	10024	0.503718593	11	0.916667	11	0.916667
sanr400_0.5	13	400	39816	0.498947368	13	1	13	1
p_hat500-2	36	500	61804	0.495422846	36	1	36	1
johnson8-2-4	4	28	168	0.444444444	4	1	4	1
hamming8-4	16	256	11776	0.360784314	16	1	16	1
keller4	11	171	5100	0.350877193	11	1	11	1
sanr200_0.7	18	200	6032	0.303115578	18	1	16	0.888889
sanr400_0.7	21	400	23931	0.299887218	21	1	19	0.904762
p_hat300-3	36	300	11460	0.255518395	36	1	34	0.944444
brock200_1	21	200	5066	0.254572864	21	1	19	0.904762
brock400_1	27	400	20077	0.251591479	25	0.925926	23	0.851852
brock400_2	29	400	20014	0.250802005	25	0.862069	23	0.793103
p_hat500-3	50	500	30950	0.248096192	50	1	47	0.94
johnson16-2-4	8	120	1680	0.235294118	8	1	8	1
johnson8-4-4	14	70	560	0.231884058	14	1	14	1
sanr200_0.9	42	200	2037	0.102361809	42	1	39	0.928571
gen200_p0.9_44	44	200	1990	0.1	42	0.954545	39	0.886364
gen200_p0.9_55	55	200	1990	0.1	55	1	49	0.890909
hamming6-2	32	64	192	0.095238095	32	1	32	1
MANN_a9	16	45	72	0.072727273	16	1	16	1
hamming8-2	128	256	1024	0.031372549	128	1	128	1