

Faster MIP Solutions via New Node Selection
Rules: Experiment 1 Data

June 15, 2009

The meanings of the table labels are:

Name: The name of a MIP instance.

Time: The total time in seconds required to solve a MIP; -1 if a MIP is not solved due to solver error.

Iters: The total number of simplex iterations required to solve a MIP; -1 if a MIP is not solved due to solver error.

Nodes: The total number of branch and bound tree nodes solved; -1 if a MIP is not solved due to solver error.

Best: The last incumbent solution found; “*not*” if no incumbent solution is found; -1 if a MIP is not solved due to solver error.

Solved: Whether or not a MIP is solved: 0 for not solved, 1 for solved.

Table 1: $BPr_0 - Lf - N$ (GLPK default).

Name	Time	Iters	Nodes	Best	Solved
22433	6.9	5489	62	21477	1
23588	91.89	45434	4509	8090	1
10teams	521.18	711067	6043	924	1
air06	26.01	11651	34	49649	1
bal8x12	1.16	2592	376	471.55	1
bell3b	38.45	41209	25880	11786160.62	1
bienst1	1519.11	3971433	32621	46.75	1
blend2	26.59	49393	18186	7.6	1
bm23	0.09	1244	382	34	1
dano3_3	101.53	44013	65	576.34	1
dano3_4	143.82	63626	110	576.44	1
dano3_5	1341.71	548210	1740	576.92	1
demulti	14.4	11246	552	188182	1
dsbmip	6.78	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1609.15	625773	21928	885.41	1
enigma	84.79	824911	113613	0	1
fiber	222.01	129490	15673	405935.18	1
fixnet4	9.65	11008	672	8936	1
fixnet6	24.67	23955	2880	3983	1
flugpl	0.8	2892	3478	1201500	1
gen	3.37	7375	343	112313.36	1
gr4x6	0.09	693	108	202.35	1
gt2	0.68	2479	413	21166	1
irp	104.8	9940	699	12159.49	1
khb05250	1.86	2889	85	106940226	1
l152lav	163.57	82785	5333	4722	1
lseu	11.12	68869	33066	1120	1
mas284	167.96	231287	51628	91405.72	1
misc01	0.47	3945	559	563.5	1
misc02	0.11	1160	117	1690	1
misc03	15.11	36074	3170	3360	1
misc04	2.64	2742	13	2666.7	1
misc05	1.68	4235	379	2984.5	1

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Table 1 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
misc06	0.9	2082	64	12850.86	1
misc07	1325.8	1058824	93303	2810	1
mod008	51.06	79182	40178	307	1
mod013	0.63	2206	650	280.95	1
neos-506422	1191.82	857665	11373	0	1
neos-584851	82.32	50116	1864	-11	1
neos-709469	11.34	26558	690	493.16	1
neos-777800	386.04	601920	720	-80	1
neos-785899	687.02	629598	12126	101	1
neos-785914	1469.24	1743877	6730	38	1
neos-801834	640.75	102567	1671	50386	1
neos-803219	393.99	291689	62154	210.3	1
neos-803220	899.13	571878	137712	195.4	1
neos-806323	226.32	185383	28346	215	1
neos-807639	1787.73	693185	130331	454.2	1
neos-807705	1419.96	890264	159585	342.4	1
neos-810286	109.65	38471	65	2877	1
nug08	92.52	34503	112	214	1
nw04	66.81	2270	153	16862	1
p0033	0.06	1077	460	3089	1
p0201	3.65	11420	893	7615	1
p0282	33.93	19063	1875	258411	1
p0291	0.12	1048	186	5223.75	1
p0548	2.72	4047	349	8691	1
p2756	17.31	7927	1078	3124	1
pipex	1.05	9936	3007	788.26	1
pp08a	780.36	417930	53975	7350	1
qap10	660.62	319778	143	340	1
qnet1	42.86	53238	1287	16029.69	1
qnet1.o	41.33	55743	1183	16029.69	1
ran10x10a	22.74	49547	19275	1499	1
ran10x10b	4.99	13249	4075	3073	1
ran10x12	6.35	12743	3681	2714	1
ran4x64	3.41	5732	2114	9711	1
ran6x43	1.34	2345	647	6330	1
rentacar	6.55	5964	47	30356760.98	1
rgn	13.29	24944	4714	82.2	1
roy	2.55	6813	2887	3208.96	1
set1al	1.73	663	31	15869.75	1
stein15	1.3	5130	79	9	1
stein27	13.26	20456	3226	18	1
stein45	451.36	349286	58719	30	1
stein9	0.02	296	6	5	1
Test3	1363.64	287872	5578	2673520.21	1
vpml	0.79	1640	53	20	1

Table 2: $BPr_0 - Lf - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.97	5489	62	21477	1
23588	110.64	45434	4509	8090	1
10teams	376.47	711067	6043	924	1
air06	26.43	11651	34	49649	1
bal8x12	1.01	2592	376	471.55	1
bell3b	35.47	41209	25880	11786160.62	1
bienst1	1520.83	3971433	32621	46.75	1
blend2	25.8	49393	18186	7.6	1
bm23	0.09	1244	382	34	1
dano3_3	106.21	44013	65	576.34	1
dano3_4	149.83	63626	110	576.44	1
dano3_5	1401.06	548210	1740	576.92	1
dcmulti	15.52	11246	552	188182	1
dsbmp	7.42	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1347.96	625773	21928	885.41	1
enigma	85.66	824911	113613	0	1
fiber	281.33	129490	15673	405935.18	1
fixnet4	13.9	11008	672	8936	1

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Table 2 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
fixnet6	28.78	23955	2880	3983	1
flugpl	1.04	3583	4669	1201500	1
gen	3.65	7375	343	112313.36	1
gr4x6	0.09	693	108	202.35	1
gt2	0.7	2479	413	21166	1
irp	114.25	9940	699	12159.49	1
khh05250	2.22	2889	85	106940226	1
l152lav	224.58	82776	5333	4722	1
lseu	11.1	68869	33066	1120	1
mas284	158.1	231287	51628	91405.72	1
misc01	0.45	3945	559	563.5	1
misc02	0.1	1160	117	1690	1
misc03	14.11	36074	3170	3360	1
misc04	2.34	2742	13	2666.7	1
misc05	1.71	4235	379	2984.5	1
misc06	0.9	2082	64	12850.86	1
misc07	1413.54	1058824	93303	2810	1
mod008	54.22	79182	40178	307	1
mod013	0.64	2206	650	280.95	1
neos-506422	1113.39	857665	11373	0	1
neos-584851	70.64	50116	1864	-11	1
neos-709469	11.1	26558	690	493.16	1
neos-777800	379.23	601920	720	-80	1
neos-785899	661.13	629598	12126	101	1
neos-785914	1245.25	1743877	6730	38	1
neos-801834	820.16	102567	1671	50386	1
neos-803219	369.75	291689	62154	210.3	1
neos-803220	804.11	571878	137712	195.4	1
neos-806323	232.09	185383	28346	215	1
neos-807639	1861.2	693185	130331	454.2	1
neos-807705	1165.9	890264	159585	342.4	1
neos-810286	124.91	38471	65	2877	1
nug08	76.5	34503	112	214	1
nw04	70.28	2270	153	16862	1
p0033	0.06	1077	460	3089	1
p0201	3.51	11420	893	7615	1
p0282	27.31	19063	1875	258411	1
p0291	0.12	1048	186	5223.75	1
p0548	2.56	4047	349	8691	1
p2756	18.94	7927	1078	3124	1
pipeX	1.02	9936	3007	788.26	1
pp08a	709.61	417930	53975	7350	1
qap10	527.44	319778	143	340	1
qnet1	33.04	53238	1287	16029.69	1
qnet1_o	32.6	55743	1183	16029.69	1
ran10x10a	20.82	49547	19275	1499	1
ran10x10b	4.86	13249	4075	3073	1
ran10x12	6.28	12743	3681	2714	1
ran4x64	3.65	5732	2114	9711	1
ran6x43	1.49	2345	647	6330	1
rentacar	6.9	5964	47	30356760.98	1
rgn	14.99	24944	4714	82.2	1
roy	2.73	6813	2887	3208.96	1
set1al	1.73	663	31	15869.75	1
stein15	1.34	5130	79	9	1
stein27	13.75	20456	3226	18	1
stein45	473.05	349280	58717	30	1
stein9	0.02	296	6	5	1
Test3	1470.73	287872	5578	2673520.21	1
vpml	0.86	1640	53	20	1

Table 3: $BPr_0 - E - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.3	5435	51	21477	1
23588	96.27	51720	5112	8090	1
10teams	193.16	199665	2261	924	1
air06	22.84	10712	22	49649	1

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Table 3 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
bal8x12	0.65	1542	133	471.55	1
bell3b	1800.44	185746	176649	not	0
bienst1	1450.73	3930675	32394	46.75	1
blend2	1799.16	2420966	214304	not	0
bm23	0.06	1056	307	34	1
dano3_3	186.11	83754	73	576.34	1
dano3_4	295.59	133461	126	576.44	1
dano3_5	1800.15	804966	893	577.88	0
dcmulti	13.52	11141	504	188182	1
dsbmip	7.49	3214	50	-305.2	1
egout	0.1	563	13	568.1	1
eilD76	1014.16	634297	21286	885.41	1
enigma	29.49	285708	37243	0	1
fiber	217.37	120079	13913	405935.18	1
fixnet4	19.49	15069	1281	8936	1
fixnet6	26.81	24453	2744	3983	1
flugpl	0.77	2697	3223	1201500	1
gen	3.55	7637	311	112313.36	1
gr4x6	0.08	597	67	202.35	1
gt2	0.4	1447	94	21166	1
irp	66.7	7581	384	12159.49	1
khh05250	2.13	2985	75	106940226	1
l152lav	181.97	81111	4925	4722	1
lseu	10.22	65349	30913	1120	1
mas284	150.81	230653	51452	91405.72	1
misc01	0.46	3960	557	563.5	1
misc02	0.1	1151	117	1690	1
misc03	12.75	34182	2993	3360	1
misc04	2.28	2950	18	2666.7	1
misc05	1.81	4849	435	2984.5	1
misc06	0.89	2176	60	12850.86	1
misc07	1190.58	1054694	93030	2810	1
mod008	98.78	142783	81217	307	1
mod013	0.56	1962	555	280.95	1
neos-506422	1200.68	1017691	10203	0	1
neos-584851	72.18	50600	1874	-11	1
neos-709469	9.26	18847	501	493.16	1
neos-777800	526.48	515762	763	-80	1
neos-785899	938.26	919804	14461	101	1
neos-785914	34.99	20059	92	38	1
neos-801834	879.21	88071	1445	50386	1
neos-803219	390.7	282105	60247	210.3	1
neos-803220	851.16	549842	132230	195.4	1
neos-806323	246.97	177716	26591	215	1
neos-807639	1800.07	637958	118360	454.2	0
neos-807705	1383.11	925022	163215	342.4	1
neos-810286	652.3	160992	417	2877	1
nug08	92.36	35056	113	214	1
nw04	62.11	1884	105	16862	1
p0033	0.12	1742	850	3089	1
p0201	3.8	11787	897	7615	1
p0282	28.68	19338	1754	258411	1
p0291	0.16	1421	256	5223.75	1
p0548	3.84	5454	623	8691	1
p2756	71.3	29739	4390	3124	1
pipex	1.29	11795	3623	788.26	1
pp08a	756.86	419225	53913	7350	1
qap10	583.79	299533	145	340	1
qnet1	36.63	45609	1402	16029.69	1
qnet1.o	33.58	49612	907	16029.69	1
ran10x10a	24.1	56061	20372	1499	1
ran10x10b	5.55	15353	4354	3073	1
ran10x12	5.38	11177	3041	2714	1
ran4x64	1.02	2361	590	9711	1
ran6x43	4.21	6866	2400	6330	1
rentacar	7.74	7965	79	30356760.98	1
rgn	12.29	24816	4697	82.2	1
roy	5.63	13926	6152	3208.96	1
set1al	1.8	778	94	15869.75	1
stein15	1.28	5125	78	9	1
stein27	13.05	20469	3229	18	1
stein45	445.88	356693	59587	30	1
stein9	0.02	293	4	5	1
Test3	1193.21	298164	5000	2673520.21	1
vpml	0.79	1508	47	20	1

Table 4: $BPr_0 - E - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.36	5435	51	21477	1
23588	94.85	51720	5112	8090	1
10teams	183.86	199665	2261	924	1
air06	22.79	10712	22	49649	1
bal8x12	0.64	1542	133	471.55	1
bell3b	41.72	46822	29909	11786160.62	1
bienst1	1455.15	3930675	32394	46.75	1
blend2	48.38	158296	32799	7.6	1
bm23	0.07	1084	315	34	1
dano3_3	190.87	83754	73	576.34	1
dano3_4	303.37	133461	126	576.44	1
dano3_5	1801.82	804920	892	577.88	0
dcmulti	13.36	11141	504	188182	1
dsbmip	7.38	3214	50	-305.2	1
egout	0.11	563	13	568.1	1
eilD76	1012.34	634297	21286	885.41	1
enigma	29.53	285708	37243	0	1
fiber	204.59	120079	13913	405935.18	1
fixnet4	18.2	15069	1281	8936	1
fixnet6	24.83	24453	2744	3983	1
flugpl	0.76	2789	3303	1201500	1
gen	3.44	7637	311	112313.36	1
gr4x6	0.08	597	67	202.35	1
gt2	0.56	1983	236	21166	1
irp	63.65	7581	384	12159.49	1
khh05250	2.2	3274	108	106940226	1
l152lav	161.38	81111	4925	4722	1
lseu	10.01	65995	31278	1120	1
mas284	140.08	230653	51452	91405.72	1
misc01	0.46	3960	557	563.5	1
misc02	0.1	1151	117	1690	1
misc03	12.76	34182	2993	3360	1
misc04	2.36	2950	18	2666.7	1
misc05	1.83	4849	435	2984.5	1
misc06	0.9	2176	60	12850.86	1
misc07	1249.98	1054694	93030	2810	1
mod008	129.25	205191	106443	307	1
mod013	0.56	1962	555	280.95	1
neos-506422	1191.72	1017691	10203	0	1
neos-584851	70.79	50600	1874	-11	1
neos-709469	9.1	18847	501	493.16	1
neos-777800	511.39	515762	763	-80	1
neos-785899	1031.62	919804	14461	101	1
neos-785914	38.72	20059	92	38	1
neos-801834	850.96	88071	1445	50386	1
neos-803219	385.6	282105	60247	210.3	1
neos-803220	852.1	547514	131625	195.4	1
neos-806323	240.8	177716	26591	215	1
neos-807639	1800.18	614451	114019	454.2	0
neos-807705	1310.78	965025	170308	342.4	1
neos-810286	633.46	160992	417	2877	1
nug08	80.46	35056	113	214	1
nw04	60.56	1884	105	16862	1
p0033	0.11	1718	836	3089	1
p0201	3.73	11787	897	7615	1
p0282	27.57	19338	1754	258411	1
p0291	0.18	1425	306	5223.75	1
p0548	3.76	5454	623	8691	1
p2756	69.23	29739	4390	3124	1
pipex	1.21	10350	3658	788.26	1
pp08a	762.03	419225	53913	7350	1
qap10	577.76	299533	145	340	1
qnet1	35.52	45609	1402	16029.69	1
qnet1.o	32.77	49612	907	16029.69	1
ran10x10a	23.59	55551	20081	1499	1
ran10x10b	5.52	15353	4354	3073	1
ran10x12	5.31	11177	3041	2714	1
ran4x64	1.03	2361	590	9711	1

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Table 4 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
ran6x43	1.52	2621	740	6330	1
rentacar	7.76	7965	79	30356760.98	1
rgn	12.6	24816	4697	82.2	1
roy	3.38	8855	3799	3208.96	1
set1al	1.79	731	74	15869.75	1
stein15	1.29	5128	80	9	1
stein27	12.87	20469	3229	18	1
stein45	456.16	356693	59587	30	1
stein9	0.02	293	4	5	1
Test3	1196.09	298164	5000	2673520.21	1
vpml	0.77	1508	47	20	1

Table 5: $BPr_0 - BPrA_0 - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.97	5693	71	21477	1
23588	99.47	45063	4426	8090	1
10teams	273.66	435572	3574	924	1
air06	31.16	11651	34	49649	1
bal8x12	0.86	2085	232	471.55	1
bell3b	34.78	40882	25754	11786160.62	1
bienst1	1436.82	3957013	32478	46.75	1
blend2	12.9	26011	9938	7.6	1
bm23	0.08	1250	370	34	1
dano3_3	96.39	44283	65	576.34	1
dano3_4	135.14	63420	108	576.44	1
dano3_5	1271.03	547118	1731	576.92	1
dcmulti	12.68	11214	532	188182	1
dsbmip	6.06	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	900.33	624768	21853	885.41	1
enigma	82.82	824911	113613	0	1
fiber	195.1	127572	15348	405935.18	1
fixnet4	11.61	10954	655	8936	1
fixnet6	24.67	23973	2847	3983	1
flugpl	0.79	2931	3517	1201500	1
gen	3.46	7201	323	112313.36	1
gr4x6	0.09	654	84	202.35	1
gt2	0.61	2247	330	21166	1
irp	101.89	9940	699	12159.49	1
khh05250	1.87	2804	72	106940226	1
1152lav	174.48	88765	5661	4722	1
lseu	10.7	68865	33065	1120	1
mas284	139.19	231071	51543	91405.72	1
misc01	0.45	3945	559	563.5	1
misc02	0.1	1160	117	1690	1
misc03	15.25	36073	3169	3360	1
misc04	2.72	2742	13	2666.7	1
misc05	1.83	4235	379	2984.5	1
misc06	0.97	2089	64	12850.86	1
misc07	1739.42	1058817	93302	2810	1
mod008	35.04	54094	21503	307	1
mod013	0.58	2006	559	280.95	1
neos-506422	1192.6	821013	10482	0	1
neos-584851	80.07	50116	1864	-11	1
neos-709469	11.83	26558	690	493.16	1
neos-777800	467.73	601920	720	-80	1
neos-785899	809.11	613581	11934	101	1
neos-785914	1573.87	1743877	6730	38	1
neos-801834	661	102567	1671	50386	1
neos-803219	353.33	291693	61836	210.3	1
neos-803220	829.62	571557	136116	195.4	1
neos-806323	224.78	184658	28180	215	1
neos-807639	1777.24	692359	130103	454.2	1
neos-807705	1243.18	899450	159790	342.4	1
neos-810286	109.25	38471	65	2877	1
nug08	65.7	34503	112	214	1
nw04	69.51	2359	158	16862	1

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Table 5 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0033	0.06	1077	460	3089	1
p0201	3.53	11592	902	7615	1
p0282	21.32	17979	1463	258411	1
p0291	0.13	1295	173	5223.75	1
p0548	2.53	4005	336	8691	1
p2756	11.81	4589	482	3124	1
pipex	0.62	5932	1711	788.26	1
pp08a	660.02	418266	53963	7350	1
qap10	485.37	319778	143	340	1
qnet1	23.88	36876	784	16029.69	1
qnet1_o	28.23	51784	1056	16029.69	1
ran10x10a	18.13	42735	17054	1499	1
ran10x10b	3.77	10566	3242	3073	1
ran10x12	5.72	12742	3376	2714	1
ran4x64	2.4	4888	1555	9711	1
ran6x43	1.26	2337	642	6330	1
rentacar	5.06	5964	47	30356760.98	1
rgn	10.92	24944	4714	82.2	1
roy	3.46	9752	3870	3208.96	1
set1al	1.66	663	31	15869.75	1
stein15	1.24	5130	79	9	1
stein27	11.84	20456	3226	18	1
stein45	386.05	349231	58704	30	1
stein9	0.01	296	6	5	1
Test3	1020.78	290240	5581	2673520.21	1
vpml	0.78	1640	53	20	1

Table 6: $BPr_0 - BPrA_0 - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.8	5693	71	21477	1
23588	86.79	45063	4426	8090	1
10teams	244.74	435572	3574	924	1
air06	29.19	11651	34	49649	1
bal8x12	0.82	2085	232	471.55	1
bell3b	33.79	40882	25754	11786160.62	1
bienst1	1461.84	3957013	32478	46.75	1
blend2	12.94	26011	9938	7.6	1
bm23	0.08	1250	370	34	1
dano3_3	101.47	44283	65	576.34	1
dano3_4	140.9	63420	108	576.44	1
dano3_5	1280.9	547118	1731	576.92	1
dcmulti	13.54	11214	532	188182	1
dsbmip	6.36	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	984.4	624768	21853	885.41	1
enigma	84.88	824911	113613	0	1
fiber	219.15	127572	15348	405935.18	1
fixnet4	12.41	10954	655	8936	1
fixnet6	25.37	23973	2847	3983	1
flugpl	0.8	2892	3478	1201500	1
gen	3.5	7201	323	112313.36	1
gr4x6	0.08	654	84	202.35	1
gt2	0.62	2247	330	21166	1
irp	105.76	9940	699	12159.49	1
khh05250	1.95	2804	72	106940226	1
1152lav	196.29	88765	5661	4722	1
lseu	11.01	68865	33065	1120	1
mas284	152.23	231071	51543	91405.72	1
misc01	0.45	3945	559	563.5	1
misc02	0.1	1160	117	1690	1
misc03	13.53	36073	3169	3360	1
misc04	2.25	2742	13	2666.7	1
misc05	1.67	4235	379	2984.5	1
misc06	0.9	2089	64	12850.86	1
misc07	1199.74	1058817	93302	2810	1
mod008	30.05	54094	21503	307	1
mod013	0.57	2006	559	280.95	1

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Table 6 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-506422	1054.53	821013	10482	0	1
neos-584851	71.39	50116	1864	-11	1
neos-709469	11.06	26558	690	493.16	1
neos-777800	413.46	601920	720	-80	1
neos-785899	787.23	613581	11934	101	1
neos-785914	1349.16	1743877	6730	38	1
neos-801834	1057.91	102567	1671	50386	1
neos-803219	398.46	291693	61836	210.3	1
neos-803220	879.87	571557	136116	195.4	1
neos-806323	248.86	184658	28180	215	1
neos-807639	1800.25	618694	115095	454.2	0
neos-807705	1313.17	899450	159790	342.4	1
neos-810286	158.87	38471	65	2877	1
nug08	93.08	34503	112	214	1
nw04	85.02	2359	158	16862	1
p0033	0.06	1077	460	3089	1
p0201	3.68	11592	902	7615	1
p0282	26.52	17979	1463	258411	1
p0291	0.13	1295	173	5223.75	1
p0548	2.67	4005	336	8691	1
p2756	15.33	4589	482	3124	1
pipeX	0.64	5932	1711	788.26	1
pp08a	759.83	418266	53963	7350	1
qap10	619.61	319778	143	340	1
qnet1	29.54	36876	784	16029.69	1
qnet1_o	35.13	51784	1056	16029.69	1
ran10x10a	20.16	42735	17054	1499	1
ran10x10b	4	10566	3242	3073	1
ran10x12	6.03	12742	3376	2714	1
ran4x64	2.51	4888	1555	9711	1
ran6x43	1.3	2337	642	6330	1
rentacar	5.82	5964	47	30356760.98	1
rgn	12.21	24944	4714	82.2	1
roy	3.65	9752	3870	3208.96	1
set1al	1.7	663	31	15869.75	1
stein15	1.26	5130	79	9	1
stein27	12.62	20456	3226	18	1
stein45	438.28	349231	58704	30	1
stein9	0.01	296	6	5	1
Test3	1260.44	290240	5581	2673520.21	1
vpml	0.82	1640	53	20	1

Table 7: $BPr_0 - DExA - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.45	5489	62	21477	1
23588	83.81	44130	4348	8090	1
10teams	337.56	508603	4068	924	1
air06	28.77	11651	34	49649	1
bal8x12	1.04	2626	366	471.55	1
bell3b	34.26	40708	25658	11786160.62	1
bienst1	1462.12	3974636	32485	46.75	1
blend2	7.6	13234	6447	7.6	1
bm23	0.08	1244	382	34	1
dano3_3	192.8	84036	62	576.34	1
dano3_4	142.42	63719	108	576.44	1
dano3_5	1438.74	620536	1680	576.92	1
dcmulti	13.94	11330	547	188182	1
dsbmpi	6.52	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	992.95	625773	21928	885.41	1
enigma	76.2	537882	69089	0	1
fiber	232.05	129451	15653	405935.18	1
fixnet4	12.08	10977	664	8936	1
fixnet6	25.69	23695	2830	3983	1
flugpl	0.8	2907	3413	1201500	1
gen	3.59	7346	339	112313.36	1
gr4x6	0.1	693	108	202.35	1

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Table 7 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
gt2	0.64	2408	385	21166	1
irp	77.5	8083	508	12159.49	1
khb05250	2.08	2889	85	106940226	1
l152lav	182.96	78874	5113	4722	1
lseu	10.43	67306	32348	1120	1
mas284	143.72	231277	51608	91405.72	1
misc01	0.45	3945	559	563.5	1
misc02	0.1	1160	117	1690	1
misc03	12.4	33137	2960	3360	1
misc04	2.26	2742	13	2666.7	1
misc05	1.58	4235	379	2984.5	1
misc06	0.84	2082	64	12850.86	1
misc07	1157.32	1055291	93114	2810	1
mod008	49.18	77352	38047	307	1
mod013	0.61	2153	631	280.95	1
neos-506422	374.38	307958	3159	0	1
neos-584851	70.01	50116	1864	-11	1
neos-709469	25.63	57911	2068	493.16	1
neos-777800	1801.28	1094104	2217	not	0
neos-785899	657.35	606349	11818	101	1
neos-785914	1800	1623168	6153	not	0
neos-801834	881.9	94235	1455	50386	1
neos-803219	388.49	290275	61955	210.3	1
neos-803220	826.22	571870	137690	195.4	1
neos-806323	249.58	186113	28344	215	1
neos-807639	1800.04	611876	113834	454.2	0
neos-807705	1298.51	892135	159717	342.4	1
neos-810286	151.27	38471	65	2877	1
nug08	83.95	34503	112	214	1
nw04	77.47	2270	153	16862	1
p0033	0.07	1077	460	3089	1
p0201	3.62	11397	889	7615	1
p0282	30.61	18970	1817	258411	1
p0291	0.12	1048	186	5223.75	1
p0548	2.65	4045	347	8691	1
p2756	15.74	4761	623	3124	1
pipeX	1.03	9855	2982	788.26	1
pp08a	693	417730	53935	7350	1
qap10	519.54	319778	143	340	1
qnet1	29.11	38449	925	16029.69	1
qnet1_o	32.9	49780	1019	16029.69	1
ran10x10a	21.4	47604	18603	1499	1
ran10x10b	4.7	12573	3796	3073	1
ran10x12	6.59	13784	3896	2714	1
ran4x64	3.15	5553	2021	9711	1
ran6x43	1.4	2559	697	6330	1
rentacar	5.7	5964	47	30356760.98	1
rgn	11.94	24944	4714	82.2	1
roy	2.52	6771	2866	3208.96	1
set1al	1.7	663	31	15869.75	1
stein15	1.26	5130	79	9	1
stein27	12.54	20456	3226	18	1
stein45	440	349280	58717	30	1
stein9	0.01	296	6	5	1
Test3	1169.77	288126	5551	2673520.21	1
vpml	0.82	1640	53	20	1

Table 8: $BPr_0 - DExA - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.41	5489	62	21477	1
23588	87.92	44130	4348	8090	1
10teams	310.55	508603	4068	924	1
air06	29.06	11651	34	49649	1
bal8x12	1.01	2626	366	471.55	1
bell3b	33.41	40708	25658	11786160.62	1
bienst1	1483.42	3974636	32485	46.75	1
blend2	7.44	13234	6447	7.6	1

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Table 8 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
bm23	0.08	1244	382	34	1
dano3_3	193.12	84036	62	576.34	1
dano3_4	141.55	63719	108	576.44	1
dano3_5	1437.55	620536	1680	576.92	1
dcmulti	14.07	11330	547	188182	1
dsbmip	6.76	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1104.19	625773	21928	885.41	1
enigma	101.71	996482	138207	0	1
fiber	228.09	129451	15653	405935.18	1
fixnet4	11.8	10977	664	8936	1
fixnet6	24.48	23695	2830	3983	1
flugpl	0.8	2907	3413	1201500	1
gen	3.54	7346	339	112313.36	1
gr4x6	0.1	693	108	202.35	1
gt2	0.64	2408	385	21166	1
irp	76.68	8083	508	12159.49	1
khh05250	2	2889	85	106940226	1
l152lav	171.11	78874	5113	4722	1
lseu	10.55	67306	32348	1120	1
mas284	146.75	231277	51608	91405.72	1
misc01	0.45	3945	559	563.5	1
misc02	0.1	1160	117	1690	1
misc03	12.92	33137	2960	3360	1
misc04	2.26	2742	13	2666.7	1
misc05	1.66	4235	379	2984.5	1
misc06	0.88	2082	64	12850.86	1
misc07	1218.82	1055291	93114	2810	1
mod008	143.36	218760	102839	307	1
mod013	0.63	2153	631	280.95	1
neos-506422	392.62	307958	3159	0	1
neos-584851	71.9	50116	1864	-11	1
neos-709469	26.68	57911	2068	493.16	1
neos-777800	1801	1104831	2247	not	0
neos-785899	753.52	606349	11818	101	1
neos-785914	1800.5	1586376	6025	not	0
neos-801834	889.54	94235	1455	50386	1
neos-803219	408.72	290275	61955	210.3	1
neos-803220	893.9	571870	137690	195.4	1
neos-806323	254.79	186113	28344	215	1
neos-807639	1800.21	634250	118045	454.2	0
neos-807705	1248.4	892135	159717	342.4	1
neos-810286	148.77	38471	65	2877	1
nug08	94.74	34503	112	214	1
nw04	77.32	2270	153	16862	1
p0033	0.07	1077	460	3089	1
p0201	3.6	11397	889	7615	1
p0282	30.71	18970	1817	258411	1
p0291	0.12	1048	186	5223.75	1
p0548	2.65	4045	347	8691	1
p2756	16.67	4761	623	3124	1
pipex	1.02	9855	2982	788.26	1
pp08a	761.74	417730	53935	7350	1
qap10	604.86	319778	143	340	1
qnet1	28.27	38449	925	16029.69	1
qnet1_o	33.76	49780	1019	16029.69	1
ran10x10a	21.78	47604	18603	1499	1
ran10x10b	4.68	12573	3796	3073	1
ran10x12	6.36	13784	3896	2714	1
ran4x64	3.16	5553	2021	9711	1
ran6x43	1.44	2559	697	6330	1
rentacar	6.02	5964	47	30356760.98	1
rgn	12.36	24944	4714	82.2	1
roy	2.51	6771	2866	3208.96	1
set1al	1.7	663	31	15869.75	1
stein15	1.26	5130	79	9	1
stein27	12.6	20456	3226	18	1
stein45	438.84	349280	58717	30	1
stein9	0.02	296	6	5	1
Test3	1156.03	288126	5551	2673520.21	1
vpm1	0.86	1640	53	20	1

Table 9: $BPr_0 - PCA - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.07	5971	59	21477	1
23588	121.81	63463	4291	8090	1
10teams	404.88	703725	5963	924	1
air06	29.9	11651	34	49649	1
bal8x12	1.06	2573	369	471.55	1
bell3b	58.97	66745	40832	11786160.62	1
bienst1	1527.06	4090030	32385	46.75	1
blend2	6.18	12756	4925	7.6	1
bm23	0.08	1236	361	34	1
dano3_3	185.59	81849	45	576.34	1
dano3_4	254.63	115440	75	576.44	1
dano3_5	1805.67	764416	625	not	0
dcmulti	13.98	11338	550	188182	1
dsbmip	7.54	3667	76	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1001.47	625729	21924	885.41	1
enigma	145.67	844792	91307	0	1
fiber	224.02	129422	15667	405935.18	1
fixnet4	10.92	10596	601	8936	1
fixnet6	21.01	21321	2211	3983	1
flugpl	0.77	2805	3153	1201500	1
gen	3.54	7375	343	112313.36	1
gr4x6	0.1	693	108	202.35	1
gt2	0.98	5394	382	21166	1
irp	104.3	9940	699	12159.49	1
khh05250	1.96	2889	85	106940226	1
l152lav	174.03	82776	5333	4722	1
lseu	11.4	67842	31401	1120	1
mas284	346.05	409852	66107	91405.72	1
misc01	0.47	4189	575	563.5	1
misc02	0.1	1179	113	1690	1
misc03	13.08	35412	2935	3360	1
misc04	2.52	3240	13	2666.7	1
misc05	1.72	4484	381	2984.5	1
misc06	0.76	2036	27	12850.86	1
misc07	1294.6	1061987	93293	2810	1
mod008	51.86	79182	40178	307	1
mod013	0.64	2189	642	280.95	1
neos-506422	259.78	202788	1668	0	1
neos-584851	74.45	53371	1865	-11	1
neos-709469	10.99	26397	684	493.16	1
neos-777800	419.51	601920	720	-80	1
neos-785899	785.15	629598	12126	101	1
neos-785914	1312.86	1743877	6730	38	1
neos-801834	1058.18	101438	1658	50386	1
neos-803219	389.55	289717	61925	210.3	1
neos-803220	1169.58	587184	136306	195.4	1
neos-806323	248.94	185798	28376	215	1
neos-807639	1800.1	625121	116350	454.2	0
neos-807705	1453	891901	159813	342.4	1
neos-810286	150.69	38471	65	2877	1
nug08	81.69	34503	112	214	1
nw04	77.21	2270	153	16862	1
p0033	0.06	1139	445	3089	1
p0201	3.58	11420	893	7615	1
p0282	23.24	18100	1356	258411	1
p0291	0.12	1048	186	5223.75	1
p0548	2.63	4047	349	8691	1
p2756	22	7660	1096	3124	1
pipex	1.01	9655	2956	788.26	1
pp08a	742.43	417930	53975	7350	1
qap10	598.11	319778	143	340	1
qnet1	32.42	49421	816	16029.69	1
qnet1_o	38.09	69113	856	16029.69	1
ran10x10a	21.16	47456	18709	1499	1
ran10x10b	5.13	13826	4208	3073	1
ran10x12	5.92	12691	3671	2714	1
ran4x64	2.82	5081	1852	9711	1
ran6x43	1.25	2346	612	6330	1
rentacar	6.38	7120	41	30356760.98	1
rgn	12.64	25598	4807	82.2	1
roy	2.92	8324	2829	3208.96	1

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Table 9 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.72	656	25	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.71	20456	3226	18	1
stein45	432.71	349280	58717	30	1
stein9	0.01	296	6	5	1
Test3	1800.05	533568	5021	not	0
vpml	0.9	1745	73	20	1

Table 10: $BP_{r_0} - PCA - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.21	5971	59	21477	1
23588	128.08	63463	4291	8090	1
10teams	429.73	703725	5963	924	1
air06	30.6	11651	34	49649	1
bal8x12	1.07	2573	369	471.55	1
bell3b	61.2	67597	41392	11786160.62	1
bienst1	1547.9	4090030	32385	46.75	1
blend2	6.32	12756	4925	7.6	1
bm23	0.08	1236	361	34	1
dano3_3	194.04	81849	45	576.34	1
dano3_4	267.35	115440	75	576.44	1
dano3_5	1801.17	766600	627	not	0
dcmulti	14.52	11338	550	188182	1
dsbmip	8.46	3667	76	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1154.13	625729	21924	885.41	1
enigma	17.01	166348	18604	0	1
fiber	222.31	129422	15667	405935.18	1
fixnet4	10.9	10596	601	8936	1
fixnet6	20.41	21321	2211	3983	1
flugpl	0.8	3081	3387	1201500	1
gen	3.51	7375	343	112313.36	1
gr4x6	0.1	693	108	202.35	1
gt2	0.95	5394	382	21166	1
irp	102.14	9940	699	12159.49	1
khh05250	1.94	2889	85	106940226	1
l152lav	173.14	82776	5333	4722	1
lseu	10.97	68645	31783	1120	1
mas284	184.15	267963	56458	91405.72	1
misc01	0.47	4189	575	563.5	1
misc02	0.1	1179	113	1690	1
misc03	12.7	35412	2935	3360	1
misc04	2.45	3240	13	2666.7	1
misc05	1.7	4484	381	2984.5	1
misc06	0.75	2036	27	12850.86	1
misc07	1289.83	1061987	93293	2810	1
mod008	50.33	79182	40178	307	1
mod013	0.62	2189	642	280.95	1
neos-506422	258.8	202788	1668	0	1
neos-584851	73.98	53371	1865	-11	1
neos-709469	10.74	26397	684	493.16	1
neos-777800	410.31	601920	720	-80	1
neos-785899	775.66	629598	12126	101	1
neos-785914	1373.91	1743877	6730	38	1
neos-801834	1051.33	101438	1658	50386	1
neos-803219	397.04	289717	61925	210.3	1
neos-803220	883.97	574231	136656	195.4	1
neos-806323	248.12	185798	28376	215	1
neos-807639	1799.26	636108	118360	454.2	0
neos-807705	1189.65	891901	159813	342.4	1
neos-810286	156.16	38471	65	2877	1
nug08	91.44	34503	112	214	1
nw04	79.77	2270	153	16862	1
p0033	0.07	1139	445	3089	1
p0201	3.52	11420	893	7615	1
p0282	23.52	18100	1356	258411	1
p0291	0.12	1048	186	5223.75	1

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Table 10 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	2.61	4047	349	8691	1
p2756	21.6	7660	1096	3124	1
pipex	1.01	9655	2956	788.26	1
pp08a	775.1	417930	53975	7350	1
qap10	613.84	319778	143	340	1
qnet1	33.13	49421	816	16029.69	1
qnet1_o	41.75	69113	856	16029.69	1
ran10x10a	21.72	47456	18709	1499	1
ran10x10b	5.18	13826	4208	3073	1
ran10x12	6.23	12691	3671	2714	1
ran4x64	2.88	5081	1852	9711	1
ran6x43	1.29	2346	612	6330	1
rentacar	6.96	7120	41	30356760.98	1
rgn	12.34	25598	4807	82.2	1
roy	3.14	8381	3450	3208.96	1
set1al	1.73	656	25	15869.75	1
stein15	1.29	5130	79	9	1
stein27	13.04	20456	3226	18	1
stein45	437.08	349280	58717	30	1
stein9	0.02	296	6	5	1
Test3	1800.46	542100	5205	not	0
vpml	0.9	1745	73	20	1

Table 11: $BPr_0 - BPr_{A_1} - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.41	5529	52	21477	1
23588	86.25	44585	4274	8090	1
10teams	218.77	353685	2515	924	1
air06	29.44	11651	34	49649	1
bal8x12	0.68	1691	131	471.55	1
bell3b	70.88	67859	30675	11786160.62	1
bienst1	1489.03	3966193	32568	46.75	1
blend2	6.11	15872	3851	7.6	1
bm23	0.08	1230	378	34	1
dano3_3	194.07	83341	53	576.34	1
dano3_4	259.18	113768	75	576.44	1
dano3_5	1307.47	553949	1735	576.92	1
dcmulti	13.28	12715	389	188182	1
dsbmip	7.06	2790	37	-305.2	1
egout	0.1	576	13	568.1	1
eilD76	1211.21	625745	21925	885.41	1
enigma	149.19	844792	91307	0	1
fiber	367.62	210429	24103	405935.18	1
fixnet4	14.98	18914	599	8936	1
fixnet6	28.02	36516	2197	3983	1
flugpl	0.8	2884	3454	1201500	1
gen	3.43	8070	265	112313.36	1
gr4x6	0.08	603	57	202.35	1
gt2	0.66	2479	413	21166	1
irp	96.39	9579	635	12159.49	1
khb05250	1.88	2889	55	106940226	1
l152lav	181.06	82514	5284	4722	1
lseu	10.78	64406	30768	1120	1
mas284	156.95	236647	52595	91405.72	1
misc01	0.47	3960	563	563.5	1
misc02	0.1	1160	117	1690	1
misc03	12.87	35468	2963	3360	1
misc04	2.21	2742	13	2666.7	1
misc05	1.69	4484	381	2984.5	1
misc06	0.88	2100	60	12850.86	1
misc07	1711.05	1060794	93199	2810	1
mod008	19.99	43835	15964	307	1
mod013	0.52	1845	509	280.95	1
neos-506422	1276.4	907277	10088	0	1
neos-584851	70.07	50116	1864	-11	1
neos-709469	347.08	750959	34854	493.16	1
neos-777800	1800.08	1055169	2217	not	0

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Table 11 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	1065.47	619492	11891	101	1
neos-785914	1800.07	1549914	5855	not	0
neos-801834	968.87	94126	1496	50386	1
neos-803219	386.83	289612	61869	210.3	1
neos-803220	971.49	564343	132509	195.4	1
neos-806323	234.74	168954	25806	215	1
neos-807639	1799.32	624630	115710	454.2	0
neos-807705	1532.39	938027	159839	342.4	1
neos-810286	153.76	38471	65	2877	1
nug08	88.76	34617	112	214	1
nw04	46.18	1450	85	16862	1
p0033	0.06	1140	446	3089	1
p0201	4.19	13473	988	7615	1
p0282	39.9	28260	2013	258411	1
p0291	0.13	1484	161	5223.75	1
p0548	2.71	4042	346	8691	1
p2756	14.34	4832	457	3124	1
pipeX	0.39	3966	891	788.26	1
pp08a	1021.1	662557	53361	7350	1
qap10	653.75	312665	141	340	1
qnet1	29	38286	640	16029.69	1
qnet1.o	41.64	68931	844	16029.69	1
ran10x10a	14.72	33141	9343	1499	1
ran10x10b	3.7	9669	2863	3073	1
ran10x12	3.43	6752	1911	2714	1
ran4x64	0.78	1831	397	9711	1
ran6x43	1.23	2236	565	6330	1
rentacar	5.12	4885	40	30356760.98	1
rgn	12.61	25000	4717	82.2	1
roy	2.89	7939	2829	3208.96	1
set1al	1.74	663	31	15869.75	1
stein15	1.3	5130	79	9	1
stein27	12.89	20456	3226	18	1
stein45	438.34	349280	58717	30	1
stein9	0.02	296	6	5	1
Test3	1199.81	286971	5457	2673520.21	1
vpml	0.83	1640	53	20	1

Table 12: $BPr_0 - BPr_{A_1} - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.56	5529	52	21477	1
23588	94.1	44585	4274	8090	1
10teams	230.57	353685	2515	924	1
air06	30.39	11651	34	49649	1
bal8x12	0.7	1691	131	471.55	1
bell3b	47.33	48824	27691	11786160.62	1
bienst1	1474.49	3966193	32568	46.75	1
blend2	15.66	29171	11203	7.6	1
bm23	0.08	1230	378	34	1
dano3_3	198.12	83341	53	576.34	1
dano3_4	260.99	113768	75	576.44	1
dano3_5	1355.18	553949	1735	576.92	1
dcmulti	13.45	12715	389	188182	1
dsbmip	6.86	2790	37	-305.2	1
egout	0.1	576	13	568.1	1
eilD76	1273.75	625745	21925	885.41	1
enigma	228.24	2236559	316218	0	1
fiber	341.35	210429	24103	405935.18	1
fixnet4	14.93	18914	599	8936	1
fixnet6	28.07	36516	2197	3983	1
flugpl	0.8	2884	3454	1201500	1
gen	3.4	8070	265	112313.36	1
gr4x6	0.08	603	57	202.35	1
gt2	0.66	2479	413	21166	1
irp	94.94	9579	635	12159.49	1
khb05250	1.78	2889	55	106940226	1
l152lav	175.65	82514	5284	4722	1

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Table 12 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	10.49	64406	30768	1120	1
mas284	155.06	236647	52595	91405.72	1
misc01	0.47	3960	563	563.5	1
misc02	0.1	1160	117	1690	1
misc03	12.45	35468	2963	3360	1
misc04	2.22	2742	13	2666.7	1
misc05	1.67	4484	381	2984.5	1
misc06	0.86	2100	60	12850.86	1
misc07	1284.95	1060794	93199	2810	1
mod008	20.2	43835	15964	307	1
mod013	0.52	1845	509	280.95	1
neos-506422	1105.56	907277	10088	0	1
neos-584851	70.1	50116	1864	-11	1
neos-709469	346.3	750959	34854	493.16	1
neos-777800	1799.94	1054620	2216	not	0
neos-785899	717.52	619492	11891	101	1
neos-785914	1800.36	1727663	6531	not	0
neos-801834	969.2	94126	1496	50386	1
neos-803219	396.07	289612	61869	210.3	1
neos-803220	798.53	566847	133376	195.4	1
neos-806323	238.66	168954	25806	215	1
neos-807639	1799.3	623313	115486	454.2	0
neos-807705	1332.02	978263	168236	342.4	1
neos-810286	157.03	38471	65	2877	1
nug08	88.57	34617	112	214	1
nw04	46.51	1450	85	16862	1
p0033	0.07	1140	446	3089	1
p0201	4.26	13473	988	7615	1
p0282	40.75	28260	2013	258411	1
p0291	0.13	1484	161	5223.75	1
p0548	2.73	4042	346	8691	1
p2756	14.63	4832	457	3124	1
pipex	0.4	3966	891	788.26	1
pp08a	1052.32	636891	58222	7350	1
qap10	641.86	312665	141	340	1
qnet1	29.25	38286	640	16029.69	1
qnet1.o	41.88	68931	844	16029.69	1
ran10x10a	17.06	36879	13228	1499	1
ran10x10b	3.76	9669	2863	3073	1
ran10x12	3.43	6752	1911	2714	1
ran4x64	0.78	1831	397	9711	1
ran6x43	1.27	2236	565	6330	1
rentacar	5.24	4885	40	30356760.98	1
rgn	12.91	25000	4717	82.2	1
roy	2.9	7939	2829	3208.96	1
set1al	1.73	663	31	15869.75	1
stein15	1.3	5130	79	9	1
stein27	12.95	20456	3226	18	1
stein45	440.23	349280	58717	30	1
stein9	0.01	296	6	5	1
Test3	1257.29	286971	5457	2673520.21	1
vpm1	0.82	1640	53	20	1

Table 13: $BeE - Lf - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.41	6013	79	21477	1
23588	127.9	54019	5580	8090	1
10teams	867.87	1168912	13086	924	1
air06	38.12	12430	53	49649	1
bal8x12	1.74	3751	769	471.55	1
bell3b	39.33	34137	21454	11786160.62	1
bienst1	1520.68	4004596	32901	46.75	1
blend2	14.66	25668	9988	7.6	1
bm23	0.08	1223	357	34	1
dano3_3	111.22	45616	68	576.34	1
dano3_4	198.08	82404	154	576.44	1
dano3_5	1564.78	610295	1862	576.92	1

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Table 13 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	15.27	11056	551	188182	1
dsbmip	8.07	2965	45	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1524.56	724867	24469	885.41	1
enigma	201.9	787410	110443	0	1
fiber	300.38	138837	16676	405935.18	1
fixnet4	13.96	11034	679	8936	1
fixnet6	24.31	21182	2395	3983	1
flugpl	0.98	3190	3464	1201500	1
gen	3.28	6532	290	112313.36	1
gr4x6	0.1	723	130	202.35	1
gt2	3.06	7506	2165	21166	1
irp	1800	1803736	196192	12159.49	0
khb05250	2.45	3095	108	106940226	1
l152lav	322.13	116164	8320	4722	1
lseu	55.24	79424	37335	1120	1
mas284	246.18	231103	51631	91405.72	1
misc01	0.46	3976	569	563.5	1
misc02	0.1	1148	115	1690	1
misc03	13.28	34649	3103	3360	1
misc04	2.15	2760	13	2666.7	1
misc05	1.64	4235	379	2984.5	1
misc06	0.75	1994	37	12850.86	1
misc07	1504.53	1055922	93134	2810	1
mod008	28.88	48930	23328	307	1
mod013	0.54	1921	548	280.95	1
neos-506422	81.93	52778	675	0	1
neos-584851	80.34	50116	1864	-11	1
neos-709469	9.69	23988	571	493.16	1
neos-777800	391.59	515631	591	-80	1
neos-785899	797.12	535023	11196	101	1
neos-785914	1800	7927404	36980	38	0
neos-801834	1450.83	126151	2293	50386	1
neos-803219	510.76	291141	61810	210.3	1
neos-803220	1458.72	565104	137045	195.4	1
neos-806323	273.25	177690	26778	215	1
neos-807639	1800	694097	130738	454.2	0
neos-807705	1800	923747	164019	342.4	0
neos-810286	166.82	38471	65	2877	1
nug08	98.15	35229	114	214	1
nw04	104.48	2797	200	16862	1
p0033	0.06	1100	462	3089	1
p0201	3.69	11512	924	7615	1
p0282	33.72	18590	1960	258411	1
p0291	0.13	1097	209	5223.75	1
p0548	2.7	4004	340	8691	1
p2756	49.97	16375	2708	3124	1
pipex	2.13	17028	6376	788.26	1
pp08a	925.97	420311	54405	7350	1
qap10	575.8	316317	145	340	1
qnet1	25.61	31831	919	16029.69	1
qnet1_o	29.39	44573	1048	16029.69	1
ran10x10a	27.08	46442	17811	1499	1
ran10x10b	4.61	12251	3771	3073	1
ran10x12	9.51	17997	5190	2714	1
ran4x64	2.07	3494	1348	9711	1
ran6x43	1.34	2329	642	6330	1
rentacar	8.96	10326	65	30356760.98	1
rgn	12.63	24827	4702	82.2	1
roy	2.84	7260	3062	3208.96	1
set1al	1.7	663	31	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.9	20456	3226	18	1
stein45	417.65	336791	56303	30	1
stein9	0.02	296	6	5	1
Test3	1800	330645	8673	2673520.21	0
vpml	1.11	2136	142	20	1

Table 14: $BeE - Lf - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.05	6013	79	21477	1
23588	106.31	54019	5580	8090	1
10teams	710.26	1168912	13086	924	1
air06	31.55	12430	53	49649	1
bal8x12	1.62	3751	769	471.55	1
bell3b	31.8	34137	21454	11786160.62	1
bienst1	1510.5	4004596	32901	46.75	1
blend2	14.31	25668	9988	7.6	1
bm23	0.08	1223	357	34	1
dano3_3	102.88	45616	68	576.34	1
dano3_4	182.88	82404	154	576.44	1
dano3_5	1476.53	610295	1862	576.92	1
dcmulti	13.37	11056	551	188182	1
dsbmip	6.98	2965	45	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1288.65	724867	24469	885.41	1
enigma	14.11	141600	18712	0	1
fiber	238.77	138837	16676	405935.18	1
fixnet4	12.08	11034	679	8936	1
fixnet6	21.33	21182	2395	3983	1
flugpl	1.05	3958	4757	1201500	1
gen	3.12	6532	290	112313.36	1
gr4x6	0.1	723	130	202.35	1
gt2	3	7506	2165	21166	1
irp	1799.78	368869	30405	12546.77	0
khh05250	2.18	3095	108	106940226	1
1152lav	244.43	116164	8320	4722	1
lseu	12	81762	40527	1120	1
mas284	138.78	231103	51631	91405.72	1
misc01	0.47	3976	569	563.5	1
misc02	0.1	1148	115	1690	1
misc03	13.64	34649	3103	3360	1
misc04	2.19	2760	13	2666.7	1
misc05	1.65	4235	379	2984.5	1
misc06	0.78	1994	37	12850.86	1
misc07	1161.67	1055922	93134	2810	1
mod008	29.02	48930	23328	307	1
mod013	0.56	1921	548	280.95	1
neos-506422	76.71	52778	675	0	1
neos-584851	71.32	50116	1864	-11	1
neos-709469	9.9	23988	571	493.16	1
neos-777800	359.98	515631	591	-80	1
neos-785899	678.12	535023	11196	101	1
neos-785914	1800.15	2476423	12142	not	0
neos-801834	1296.55	126151	2293	50386	1
neos-803219	426.28	313565	68283	210.3	1
neos-803220	783.96	556888	135198	195.4	1
neos-806323	247.06	177690	26778	215	1
neos-807639	1800.14	588908	108514	454.2	0
neos-807705	1581.38	1253479	228406	342.4	1
neos-810286	152.22	38471	65	2877	1
nug08	85.04	35229	114	214	1
nw04	100.75	2797	200	16862	1
p0033	0.07	1100	462	3089	1
p0201	3.66	11512	924	7615	1
p0282	31.92	18590	1960	258411	1
p0291	0.13	1097	209	5223.75	1
p0548	2.62	4004	340	8691	1
p2756	46.75	16375	2708	3124	1
pipex	1.94	16070	6128	788.26	1
pp08a	795.93	420311	54405	7350	1
qap10	638.18	316317	145	340	1
qnet1	26.65	31831	919	16029.69	1
qnet1.o	31.21	44573	1048	16029.69	1
ran10x10a	26.19	54375	22499	1499	1
ran10x10b	4.7	12251	3771	3073	1
ran10x12	9.04	17997	5190	2714	1
ran4x64	2.18	3494	1348	9711	1
ran6x43	1.33	2329	642	6330	1
rentacar	9.03	10326	65	30356760.98	1
rgn	12.59	24827	4702	82.2	1
roy	2.82	7260	3062	3208.96	1

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Table 14 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.7	663	31	15869.75	1
stein15	1.26	5130	79	9	1
stein27	12.61	20456	3226	18	1
stein45	410.21	336791	56303	30	1
stein9	0.01	296	6	5	1
Test3	1790.25	330645	8673	2673520.21	1
vpml	1.1	2136	142	20	1

Table 15: $BeE - E - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.3	5502	51	21477	1
23588	87.81	45033	4592	8090	1
10teams	965.57	1509695	17772	924	1
air06	20.87	10154	19	49649	1
bal8x12	0.68	1607	159	471.55	1
bell3b	80.29	74436	38801	11786160.62	1
bienst1	1489.01	3951837	32567	46.75	1
blend2	6.25	13948	3840	7.6	1
bm23	0.08	1203	359	34	1
dano3_3	187.61	81849	45	576.34	1
dano3_4	255.04	115440	75	576.44	1
dano3_5	1322.66	565591	1555	576.92	1
dcmulti	14.43	11168	537	188182	1
dsbmip	7.09	2843	36	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1293	611442	21239	885.41	1
enigma	218.22	584963	78851	0	1
fiber	204.22	115216	13804	405935.18	1
fixnet4	11.03	10929	599	8936	1
fixnet6	19.99	20124	2209	3983	1
flugpl	0.97	2770	3129	1201500	1
gen	4.66	9850	551	112313.36	1
gr4x6	0.08	607	85	202.35	1
gt2	0.89	3104	386	21166	1
irp	64.2	6818	479	12159.49	1
khh05250	1.82	2707	63	106940226	1
l152lav	205.48	91193	6462	4722	1
lseu	46.63	78342	34048	1120	1
mas284	268.48	247606	53211	91405.72	1
misc01	0.49	4095	565	563.5	1
misc02	0.1	1179	113	1690	1
misc03	13.78	36345	3011	3360	1
misc04	2.48	3240	13	2666.7	1
misc05	1.64	4217	361	2984.5	1
misc06	0.78	2063	27	12850.86	1
misc07	1800.45	1034883	88728	2810	0
mod008	22.44	45829	14928	307	1
mod013	0.56	1916	537	280.95	1
neos-506422	1105.79	846449	8936	0	1
neos-584851	74.67	52690	1899	-11	1
neos-709469	7.53	13850	331	493.16	1
neos-777800	1258.48	1556487	2438	-80	1
neos-785899	1799.08	1761809	16950	not	0
neos-785914	274.23	284471	1159	38	1
neos-801834	1223.67	118989	2265	50386	1
neos-803219	512.43	281370	58207	210.3	1
neos-803220	1656.53	575251	133743	195.4	1
neos-806323	275.19	174127	25851	215	1
neos-807639	1800.37	542424	98542	454.2	0
neos-807705	1799.62	653270	102344	342.4	0
neos-810286	953.22	202588	569	2877	1
nug08	83.18	34874	113	214	1
nw04	55.74	1655	97	16862	1
p0033	0.07	1094	437	3089	1
p0201	3.7	11670	908	7615	1
p0282	22.3	17284	1259	258411	1
p0291	0.16	1252	263	5223.75	1

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Table 15 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	3.59	4976	600	8691	1
p2756	34.26	11863	1914	3124	1
pipex	1.89	13357	4635	788.26	1
pp08a	932.49	423167	54744	7350	1
qap10	584.18	302407	146	340	1
qnet1	23.8	27856	774	16029.69	1
qnet1.o	26.55	35635	802	16029.69	1
ran10x10a	24.64	37150	14091	1499	1
ran10x10b	5.04	12625	3712	3073	1
ran10x12	5.53	10268	3152	2714	1
ran4x64	1.31	3275	701	9711	1
ran6x43	1.48	2933	669	6330	1
rentacar	5.51	5788	41	30356760.98	1
rgn	13.01	25874	4865	82.2	1
roy	2.73	6831	2819	3208.96	1
set1al	1.75	758	62	15869.75	1
stein15	1.27	5125	78	9	1
stein27	12.74	20464	3230	18	1
stein45	454.03	387871	59770	30	1
stein9	0.02	301	7	5	1
Test3	1360.23	333256	7471	2673520.21	1
vpml	0.81	1571	52	20	1

Table 16: $BeE - E - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.28	5502	51	21477	1
23588	83.02	45033	4592	8090	1
10teams	1013.8	1509695	17772	924	1
air06	20.29	10154	19	49649	1
bal8x12	0.68	1607	159	471.55	1
bell3b	41.49	46838	28242	11786160.62	1
bienst1	1499.23	3951837	32567	46.75	1
blend2	13.61	24452	9671	7.6	1
bm23	0.08	1203	359	34	1
dano3_3	186.78	81849	45	576.34	1
dano3_4	256.14	115440	75	576.44	1
dano3_5	1336.58	565591	1555	576.92	1
dcmulti	13.94	11168	537	188182	1
dsbmp	6.5	2843	36	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1097.98	611442	21239	885.41	1
enigma	130.02	1248818	179363	0	1
fiber	197.33	115216	13804	405935.18	1
fixnet4	11.32	10929	599	8936	1
fixnet6	20.34	20124	2209	3983	1
flugpl	0.97	3193	3466	1201500	1
gen	4.73	9850	551	112313.36	1
gr4x6	0.08	607	85	202.35	1
gt2	0.71	2067	400	21166	1
irp	64.96	6818	479	12159.49	1
khh05250	1.84	2707	63	106940226	1
l152lav	199.11	91193	6462	4722	1
lseu	10.36	69416	33194	1120	1
mas284	157.89	259810	58265	91405.72	1
misc01	0.48	4100	572	563.5	1
misc02	0.1	1201	118	1690	1
misc03	13.6	36345	3011	3360	1
misc04	2.48	3240	13	2666.7	1
misc05	1.65	4217	361	2984.5	1
misc06	0.78	2063	27	12850.86	1
misc07	1168.88	1060816	93209	2810	1
mod008	20.87	42849	16104	307	1
mod013	0.55	1916	537	280.95	1
neos-506422	1065.92	846449	8936	0	1
neos-584851	74.43	52690	1899	-11	1
neos-709469	7.54	13850	331	493.16	1
neos-777800	1246.39	1556487	2438	-80	1

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Table 16 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	1800.16	1821274	17313	not	0
neos-785914	273.46	284471	1159	38	1
neos-801834	1197.87	118989	2265	50386	1
neos-803219	391.87	296094	62533	210.3	1
neos-803220	752.35	545708	131446	195.4	1
neos-806323	240.58	174127	25851	215	1
neos-807639	1800.14	587812	107529	454.2	0
neos-807705	1132.07	910130	161865	342.4	1
neos-810286	960	202588	569	2877	1
nug08	87.59	34874	113	214	1
nw04	54.26	1655	97	16862	1
p0033	0.06	1047	427	3089	1
p0201	3.72	11670	908	7615	1
p0282	22.97	17284	1259	258411	1
p0291	0.14	1185	267	5223.75	1
p0548	3.59	4976	600	8691	1
p2756	33.91	11863	1914	3124	1
pipeX	0.97	8218	2778	788.26	1
pp08a	767.85	423167	54744	7350	1
qap10	563.39	302407	146	340	1
qnet1	24.77	27856	774	16029.69	1
qnet1.o	26.48	35635	802	16029.69	1
ran10x10a	19.67	42062	17633	1499	1
ran10x10b	4.74	11956	3624	3073	1
ran10x12	10.8	20512	6175	2714	1
ran4x64	3.22	4970	1953	9711	1
ran6x43	1.68	2798	800	6330	1
rentacar	5.79	5788	41	30356760.98	1
rgn	13.53	25874	4865	82.2	1
roy	2.92	7435	3093	3208.96	1
set1al	1.8	758	62	15869.75	1
stein15	1.28	5125	78	9	1
stein27	12.95	20464	3230	18	1
stein45	447.87	387871	59770	30	1
stein9	0.02	301	7	5	1
Test3	1385.76	333256	7471	2673520.21	1
vpml	0.8	1571	52	20	1

Table 17: $BeE - BPrA_0 - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.07	5993	78	21477	1
23588	101.67	51508	5325	8090	1
10teams	678.75	1180764	12991	924	1
air06	31.58	12430	53	49649	1
bal8x12	1.43	3325	623	471.55	1
bell3b	37.01	33448	21203	11786160.62	1
bienst1	1510.59	3969146	32638	46.75	1
blend2	13.13	25416	8685	7.6	1
bm23	0.08	1223	357	34	1
dano3_3	103.54	45616	68	576.34	1
dano3_4	173.36	78626	122	576.44	1
dano3_5	1375.37	589072	1737	576.92	1
dcmulti	13.86	10846	507	188182	1
dsbmip	6.84	2965	45	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1324.72	724867	24469	885.41	1
enigma	194.15	785263	110224	0	1
fiber	250.67	134731	16218	405935.18	1
fixnet4	11.82	11000	668	8936	1
fixnet6	20.62	20860	2326	3983	1
flugpl	1.03	3259	3530	1201500	1
gen	3.11	6415	281	112313.36	1
gr4x6	0.1	736	133	202.35	1
gt2	3.02	7506	2165	21166	1
irp	1799.85	366240	30143	12546.77	0
khb05250	1.84	2752	83	106940226	1
l152lav	193.98	91622	6569	4722	1

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Table 17 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	52.49	79218	37369	1120	1
mas284	257.88	231094	51624	91405.72	1
misc01	0.46	3976	569	563.5	1
misc02	0.1	1148	115	1690	1
misc03	13.32	34633	3100	3360	1
misc04	2.19	2760	13	2666.7	1
misc05	1.61	4235	379	2984.5	1
misc06	0.76	1994	37	12850.86	1
misc07	1652.04	1055589	93090	2810	1
mod008	12.06	28138	9873	307	1
mod013	0.55	1915	543	280.95	1
neos-506422	88.59	56833	723	0	1
neos-584851	70.48	50116	1864	-11	1
neos-709469	9.62	23988	571	493.16	1
neos-777800	356.06	515631	591	-80	1
neos-785899	779.01	535023	11196	101	1
neos-785914	1800.02	2403451	11706	not	0
neos-801834	1277.15	126151	2293	50386	1
neos-803219	530.57	282994	58822	210.3	1
neos-803220	1558.64	565144	136912	195.4	1
neos-806323	267.3	177690	26778	215	1
neos-807639	1800.19	559498	101173	454.2	0
neos-807705	1800.63	718959	110704	342.4	0
neos-810286	151.05	38471	65	2877	1
nug08	85.74	35229	114	214	1
nw04	102.61	2797	200	16862	1
p0033	0.07	1102	461	3089	1
p0201	3.74	11482	903	7615	1
p0282	30.09	19062	1793	258411	1
p0291	0.13	1088	194	5223.75	1
p0548	2.65	3999	335	8691	1
p2756	45.19	15737	2561	3124	1
pipex	1.77	13359	5080	788.26	1
pp08a	943.34	419453	54303	7350	1
qap10	618.09	316317	145	340	1
qnet1	26.11	30015	870	16029.69	1
qnet1.o	31.5	44092	1028	16029.69	1
ran10x10a	28.65	46442	17811	1499	1
ran10x10b	4.25	10703	3332	3073	1
ran10x12	6.62	13794	3774	2714	1
ran4x64	2.57	3906	1499	9711	1
ran6x43	1.36	2329	642	6330	1
rentacar	9.1	10326	65	30356760.98	1
rgn	12.76	24801	4697	82.2	1
roy	2.82	6889	2841	3208.96	1
set1al	1.74	663	31	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.85	20456	3226	18	1
stein45	414.99	336678	56278	30	1
stein9	0.02	296	6	5	1
Test3	1800.71	329583	8308	2673520.21	0
vpm1	1.12	2136	142	20	1

Table 18: $BeE - BPrA_0 - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.81	5993	78	21477	1
23588	96.41	51508	5325	8090	1
10teams	693.78	1180764	12991	924	1
air06	31.15	12430	53	49649	1
bal8x12	1.42	3325	623	471.55	1
bell3b	32.07	33448	21203	11786160.62	1
bienst1	1486.54	3969146	32638	46.75	1
blend2	15.11	27791	9976	7.6	1
bm23	0.08	1223	357	34	1
dano3_3	102.98	45616	68	576.34	1
dano3_4	172.63	78626	122	576.44	1
dano3_5	1367.74	589072	1737	576.92	1

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Table 18 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	12.62	10846	507	188182	1
dsbmp	6.63	2965	45	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1445.93	724867	24469	885.41	1
enigma	27.6	276637	37150	0	1
fiber	218.64	134731	16218	405935.18	1
fixnet4	10.76	11000	668	8936	1
fixnet6	20.25	20860	2326	3983	1
flugpl	0.86	3223	3517	1201500	1
gen	3.12	6415	281	112313.36	1
gr4x6	0.1	736	133	202.35	1
gt2	3.01	7506	2165	21166	1
irp	1800.8	368002	30311	12546.77	0
khb05250	1.91	2752	83	106940226	1
l152lav	206.47	91622	6569	4722	1
lseu	16.45	107079	51901	1120	1
mas284	139.8	231094	51624	91405.72	1
misc01	0.46	3976	569	563.5	1
misc02	0.1	1148	115	1690	1
misc03	13.68	34633	3100	3360	1
misc04	2.24	2760	13	2666.7	1
misc05	1.68	4235	379	2984.5	1
misc06	0.79	1994	37	12850.86	1
misc07	1206.65	1055589	93090	2810	1
mod008	12.74	28138	9873	307	1
mod013	0.55	1915	543	280.95	1
neos-506422	82.69	56833	723	0	1
neos-584851	71.86	50116	1864	-11	1
neos-709469	10.05	23988	571	493.16	1
neos-777800	362.43	515631	591	-80	1
neos-785899	665.55	535023	11196	101	1
neos-785914	1800.18	2381411	11586	not	0
neos-801834	1266.98	126151	2293	50386	1
neos-803219	411.64	315050	67687	210.3	1
neos-803220	760.86	545495	132228	195.4	1
neos-806323	247.41	177690	26778	215	1
neos-807639	1799.36	581870	106251	454.2	0
neos-807705	1556.63	1244410	226531	342.4	1
neos-810286	152.13	38471	65	2877	1
nug08	84.99	35229	114	214	1
nw04	101.29	2797	200	16862	1
p0033	0.07	1102	461	3089	1
p0201	3.66	11482	903	7615	1
p0282	30.17	19062	1793	258411	1
p0291	0.13	1088	194	5223.75	1
p0548	2.62	3999	335	8691	1
p2756	44.34	15737	2561	3124	1
pipex	2.16	17057	6388	788.26	1
pp08a	779.18	419453	54303	7350	1
qap10	653.21	316317	145	340	1
qnet1	26.25	30015	870	16029.69	1
qnet1_o	31.07	44092	1028	16029.69	1
ran10x10a	22.43	48904	19929	1499	1
ran10x10b	4.29	10703	3332	3073	1
ran10x12	6.67	13794	3774	2714	1
ran4x64	2.47	3906	1499	9711	1
ran6x43	1.36	2329	642	6330	1
rentacar	9.07	10326	65	30356760.98	1
rgn	12.88	24801	4697	82.2	1
roy	2.84	7146	2981	3208.96	1
set1al	1.72	663	31	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.86	20456	3226	18	1
stein45	408.13	336678	56278	30	1
stein9	0.01	296	6	5	1
Test3	1769.39	330454	8617	2673520.21	1
vpml	1.09	2136	142	20	1

Table 19: $BeE - DExA - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.16	6013	79	21477	1
23588	111.03	54596	5676	8090	1
10teams	699.43	1168912	13086	924	1
air06	32.06	12430	53	49649	1
bal8x12	1.58	3692	742	471.55	1
bell3b	36.59	32843	20938	11786160.62	1
bienst1	1468.6	4004596	32901	46.75	1
blend2	8.84	13598	6201	7.6	1
bm23	0.08	1223	357	34	1
dano3_3	203.32	87618	65	576.34	1
dano3_4	245.52	110187	108	576.44	1
dano3_5	1385.61	601903	1585	576.92	1
dcmulti	14.34	11022	539	188182	1
dsbmip	6.58	2965	45	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1007.09	606220	21301	885.41	1
enigma	190.34	786047	110289	0	1
fiber	242.14	138337	16553	405935.18	1
fixnet4	12.01	10989	671	8936	1
fixnet6	23.04	22396	2595	3983	1
flugpl	0.98	2876	3202	1201500	1
gen	3.15	6529	289	112313.36	1
gr4x6	0.1	723	130	202.35	1
gt2	0.76	2657	427	21166	1
irp	1800.8	358625	29367	12546.77	0
khh05250	2.2	3095	108	106940226	1
l152lav	248.71	116164	8320	4722	1
lseu	51.16	77208	36469	1120	1
mas284	245.53	239600	53703	91405.72	1
misc01	0.46	3974	568	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.96	33587	2978	3360	1
misc04	2.19	2760	13	2666.7	1
misc05	1.66	4235	379	2984.5	1
misc06	0.77	1994	37	12850.86	1
misc07	1679.4	1055146	93051	2810	1
mod008	20.81	37781	16282	307	1
mod013	0.55	1914	544	280.95	1
neos-506422	65.7	46097	568	0	1
neos-584851	71.44	50116	1864	-11	1
neos-709469	9.76	23616	561	493.16	1
neos-777800	357.15	515631	591	-80	1
neos-785899	684.35	535023	11196	101	1
neos-785914	1800.25	2409051	11731	not	0
neos-801834	1458.04	139423	3065	50386	1
neos-803219	510.41	291237	61806	210.3	1
neos-803220	1466.64	565716	136981	195.4	1
neos-806323	264.84	177554	26737	215	1
neos-807639	1800.24	568994	103858	454.2	0
neos-807705	1799.63	774574	125365	342.4	0
neos-810286	155.81	38471	65	2877	1
nug08	87.34	35229	114	214	1
nw04	102.73	2797	200	16862	1
p0033	0.07	1100	462	3089	1
p0201	3.74	11489	920	7615	1
p0282	36.24	19776	2201	258411	1
p0291	0.13	1097	209	5223.75	1
p0548	2.68	4004	340	8691	1
p2756	18.14	5170	840	3124	1
pipex	2.18	17027	6375	788.26	1
pp08a	972.75	418804	54143	7350	1
qap10	588.89	316317	145	340	1
qnet1	27.19	30782	842	16029.69	1
qnet1_o	30.35	39943	967	16029.69	1
ran10x10a	29.61	43883	17005	1499	1
ran10x10b	4.47	11164	3477	3073	1
ran10x12	7.12	14641	4103	2714	1
ran4x64	2.58	3931	1521	9711	1
ran6x43	1.18	2141	546	6330	1
rentacar	9.24	10326	65	30356760.98	1
rgn	13.1	24827	4702	82.2	1
roy	3.08	7719	3179	3208.96	1

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Table 19 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.73	663	31	15869.75	1
stein15	1.3	5130	79	9	1
stein27	12.98	20456	3226	18	1
stein45	421.29	336791	56303	30	1
stein9	0.02	296	6	5	1
Test3	1799.74	330263	8542	2673520.21	0
vpml	0.92	1821	83	20	1

Table 20: $BeE - DExA - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.02	6013	79	21477	1
23588	109.69	54596	5676	8090	1
10teams	697.94	1168912	13086	924	1
air06	31.6	12430	53	49649	1
bal8x12	1.59	3692	742	471.55	1
bell3b	32.12	32843	20938	11786160.62	1
bienst1	1464.2	4004596	32901	46.75	1
blend2	8.9	13598	6201	7.6	1
bm23	0.08	1223	357	34	1
dano3_3	203.89	87618	65	576.34	1
dano3_4	249.87	110187	108	576.44	1
dano3_5	1453.13	601903	1585	576.92	1
dcmulti	13.75	11022	539	188182	1
dsbmip	6.91	2965	45	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	969.11	606220	21301	885.41	1
enigma	28.1	277621	37288	0	1
fiber	236.57	138337	16553	405935.18	1
fixnet4	12.04	10989	671	8936	1
fixnet6	23.1	22396	2595	3983	1
flugpl	0.8	2971	3318	1201500	1
gen	3.1	6529	289	112313.36	1
gr4x6	0.1	723	130	202.35	1
gt2	0.77	2657	427	21166	1
irp	1799.81	369691	30507	12546.77	0
khh05250	2.08	3095	108	106940226	1
l152lav	236.66	116164	8320	4722	1
lseu	17.91	117844	57445	1120	1
mas284	158.9	256635	58297	91405.72	1
misc01	0.46	3974	568	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.94	33587	2978	3360	1
misc04	2.2	2760	13	2666.7	1
misc05	1.66	4235	379	2984.5	1
misc06	0.77	1994	37	12850.86	1
misc07	1275.11	1055146	93051	2810	1
mod008	20.32	37781	16282	307	1
mod013	0.56	1914	544	280.95	1
neos-506422	65.35	46097	568	0	1
neos-584851	71.32	50116	1864	-11	1
neos-709469	9.74	23616	561	493.16	1
neos-777800	361.86	515631	591	-80	1
neos-785899	692.39	535023	11196	101	1
neos-785914	1799.96	2455823	12003	not	0
neos-801834	1480.97	139423	3065	50386	1
neos-803219	403.06	292366	63053	210.3	1
neos-803220	780.04	549828	133352	195.4	1
neos-806323	249.65	177554	26737	215	1
neos-807639	1800.25	572603	104667	454.2	0
neos-807705	1587.36	1260116	229669	342.4	1
neos-810286	153.98	38471	65	2877	1
nug08	85.73	35229	114	214	1
nw04	101.23	2797	200	16862	1
p0033	0.07	1100	462	3089	1
p0201	3.66	11489	920	7615	1
p0282	34.95	19776	2201	258411	1
p0291	0.13	1097	209	5223.75	1

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Table 20 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	2.62	4004	340	8691	1
p2756	17.51	5170	840	3124	1
pipex	2.07	16914	6483	788.26	1
pp08a	763.86	418804	54143	7350	1
qap10	614.8	316317	145	340	1
qnet1	26.26	30782	842	16029.69	1
qnet1.o	28.49	39943	967	16029.69	1
ran10x10a	26.37	57838	24525	1499	1
ran10x10b	4.46	11164	3477	3073	1
ran10x12	7.01	14641	4103	2714	1
ran4x64	2.44	3931	1521	9711	1
ran6x43	1.16	2141	546	6330	1
rentacar	9	10326	65	30356760.98	1
rgn	12.28	24827	4702	82.2	1
roy	3.04	7719	3179	3208.96	1
set1al	1.7	663	31	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.57	20456	3226	18	1
stein45	410.45	336791	56303	30	1
stein9	0.02	296	6	5	1
Test3	1799.58	329917	8413	2673520.21	0
vpml	0.92	1821	83	20	1

Table 21: *BeE – PCA – N.*

Name	Time	Iters	Nodes	Best	Solved
22433	7.28	5504	51	21477	1
23588	101.67	51385	5410	8090	1
10teams	685.23	1168912	13086	924	1
air06	31.5	12429	52	49649	1
bal8x12	1.07	2578	400	471.55	1
bell3b	81.92	54401	28551	11786160.62	1
bienst1	1460.82	3978151	32731	46.75	1
blend2	6.69	14921	3839	7.6	1
bm23	0.08	1206	365	34	1
dano3_3	189	81849	45	576.34	1
dano3_4	253.94	115440	75	576.44	1
dano3_5	1311.6	567136	1555	576.92	1
dcmulti	16.79	12529	833	188182	1
dsbmp	7.31	2713	28	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1419	704303	24269	885.41	1
enigma	1.77	17678	1651	0	1
fiber	251.33	139758	17013	405935.18	1
fixnet4	11.57	10956	601	8936	1
fixnet6	19.63	20270	2218	3983	1
flugpl	0.96	2841	3159	1201500	1
gen	3.46	7445	361	112313.36	1
gr4x6	0.08	636	85	202.35	1
gt2	0.61	3593	168	21166	1
irp	1800.61	359832	29809	12546.77	0
khb05250	1.88	2688	79	106940226	1
l152lav	248.5	116170	8320	4722	1
lseu	70.71	84509	37531	1120	1
mas284	289.79	262699	55686	91405.72	1
misc01	0.48	4121	573	563.5	1
misc02	0.1	1179	113	1690	1
misc03	13.1	35409	2993	3360	1
misc04	2.43	3240	13	2666.7	1
misc05	1.65	4354	377	2984.5	1
misc06	0.75	2047	26	12850.86	1
misc07	1770.85	1051276	92899	2810	1
mod008	13.61	30521	10421	307	1
mod013	0.58	1997	560	280.95	1
neos-506422	122.64	88386	856	0	1
neos-584851	71.36	50886	1866	-11	1
neos-709469	9.88	23988	571	493.16	1
neos-777800	360.56	515631	591	-80	1

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Table 21 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	661.72	535023	11196	101	1
neos-785914	1800.33	2399355	11679	not	0
neos-801834	1544.29	148976	2899	50386	1
neos-803219	539.87	292503	60119	210.3	1
neos-803220	1679.29	580168	134663	195.4	1
neos-806323	268.91	174812	25999	215	1
neos-807639	1799.33	546849	97774	454.2	0
neos-807705	1799.63	694797	106468	342.4	0
neos-810286	151.03	38471	65	2877	1
nug08	87.93	35229	114	214	1
nw04	70.99	2005	137	16862	1
p0033	0.06	1108	425	3089	1
p0201	3.71	11546	922	7615	1
p0282	22.93	17023	1280	258411	1
p0291	0.13	1122	196	5223.75	1
p0548	2.66	3999	337	8691	1
p2756	16.87	4746	775	3124	1
pipeX	1.46	11221	4232	788.26	1
pp08a	991.58	417279	53694	7350	1
qap10	601.85	318108	145	340	1
qnet1	23.47	27653	711	16029.69	1
qnet1.o	23.82	32616	757	16029.69	1
ran10x10a	29.17	36770	14362	1499	1
ran10x10b	3.8	9255	2908	3073	1
ran10x12	6.81	13257	3535	2714	1
ran4x64	1.16	2243	695	9711	1
ran6x43	1.2	2191	555	6330	1
rentacar	5.76	5748	40	30356760.98	1
rgn	13.64	25876	4885	82.2	1
roy	2.84	6934	2821	3208.96	1
set1al	1.74	670	25	15869.75	1
stein15	1.29	5130	79	9	1
stein27	12.86	20456	3226	18	1
stein45	442.87	337589	56456	30	1
stein9	0.01	296	6	5	1
Test3	1390.3	338964	7507	2673520.21	1
vpml	0.95	1827	89	20	1

Table 22: $BeE - PCA - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.18	5504	51	21477	1
23588	100.45	51385	5410	8090	1
10teams	681.31	1168912	13086	924	1
air06	31.02	12429	52	49649	1
bal8x12	1.09	2578	400	471.55	1
bell3b	50.95	56281	34870	11786160.62	1
bienst1	1496.11	3978151	32731	46.75	1
blend2	10.1	21333	6848	7.6	1
bm23	0.1	1323	423	34	1
dano3_3	185.66	81849	45	576.34	1
dano3_4	257.77	115440	75	576.44	1
dano3_5	1304.99	567136	1555	576.92	1
dcmulti	15.85	12529	833	188182	1
dsbmip	6.53	2713	28	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1224.94	704303	24269	885.41	1
enigma	1.75	17678	1651	0	1
fiber	248.52	139758	17013	405935.18	1
fixnet4	11.27	10956	601	8936	1
fixnet6	20.07	20270	2218	3983	1
flugpl	0.79	2804	3186	1201500	1
gen	3.56	7445	361	112313.36	1
gr4x6	0.08	636	85	202.35	1
gt2	0.63	3593	168	21166	1
irp	1800.73	361484	29956	12546.77	0
khb05250	1.88	2688	79	106940226	1
l152lav	255.46	116170	8320	4722	1

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Table 22 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	12.38	81118	39328	1120	1
mas284	148.71	248531	54444	91405.72	1
misc01	0.48	4121	573	563.5	1
misc02	0.1	1179	113	1690	1
misc03	13.58	35409	2993	3360	1
misc04	2.45	3240	13	2666.7	1
misc05	1.66	4354	377	2984.5	1
misc06	0.75	2047	26	12850.86	1
misc07	1155.88	1051276	92899	2810	1
mod008	13.56	30521	10421	307	1
mod013	0.58	2041	589	280.95	1
neos-506422	119.89	88386	856	0	1
neos-584851	71.04	50886	1866	-11	1
neos-709469	9.77	23988	571	493.16	1
neos-777800	361.25	515631	591	-80	1
neos-785899	611.18	535023	11196	101	1
neos-785914	1800.68	2388280	11614	not	0
neos-801834	1525.78	148976	2899	50386	1
neos-803219	380.6	286723	59622	210.3	1
neos-803220	753.54	546612	129493	195.4	1
neos-806323	246.26	174812	25999	215	1
neos-807639	1799.17	575392	104229	454.2	0
neos-807705	1337.39	1053342	190032	342.4	1
neos-810286	152.99	38471	65	2877	1
nug08	86.67	35229	114	214	1
nw04	72.02	2005	137	16862	1
p0033	0.06	1108	425	3089	1
p0201	3.71	11546	922	7615	1
p0282	22.45	17023	1280	258411	1
p0291	0.12	1122	196	5223.75	1
p0548	2.56	3999	337	8691	1
p2756	15.66	4746	775	3124	1
pipex	1.43	11221	4232	788.26	1
pp08a	808.35	417279	53694	7350	1
qap10	644.51	318108	145	340	1
qnet1	21.83	27653	711	16029.69	1
qnet1.o	22.85	32616	757	16029.69	1
ran10x10a	31.22	68512	30183	1499	1
ran10x10b	3.78	9255	2908	3073	1
ran10x12	6.92	13257	3535	2714	1
ran4x64	1.2	2243	695	9711	1
ran6x43	1.21	2191	555	6330	1
rentacar	5.95	5748	40	30356760.98	1
rgn	13.79	25876	4885	82.2	1
roy	2.84	6934	2821	3208.96	1
set1al	1.7	670	25	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.53	20456	3226	18	1
stein45	432.1	337589	56456	30	1
stein9	0.02	296	6	5	1
Test3	1319.57	338964	7507	2673520.21	1
vpm1	0.95	1827	89	20	1

Table 23: $BeE - BPrA_1 - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.07	6013	79	21477	1
23588	97.61	52350	5352	8090	1
10teams	709.36	1201562	13354	924	1
air06	30.64	12430	53	49649	1
bal8x12	1.36	3271	601	471.55	1
bell3b	82.12	74436	38801	11786160.62	1
bienst1	1501.34	3954168	32427	46.75	1
blend2	6.21	14325	3820	7.6	1
bm23	0.08	1223	357	34	1
dano3_3	190.16	83850	53	576.34	1
dano3_4	257.3	115440	75	576.44	1
dano3_5	1468.91	610295	1862	576.92	1

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Table 23 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	15.46	12003	783	188182	1
dsbmip	6.61	2836	35	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1284.56	709435	23843	885.41	1
enigma	1.71	17678	1651	0	1
fiber	238.1	139121	16602	405935.18	1
fixnet4	11.12	10943	599	8936	1
fixnet6	20.36	20140	2211	3983	1
flugpl	1.05	3259	3530	1201500	1
gen	3.81	7835	401	112313.36	1
gr4x6	0.1	713	127	202.35	1
gt2	3.1	7506	2165	21166	1
irp	1799.84	342503	28328	12546.77	0
khb05250	1.86	2784	83	106940226	1
l152lav	197.96	94533	6757	4722	1
lseu	51.6	74147	35007	1120	1
mas284	272.01	243583	54137	91405.72	1
misc01	0.48	3964	563	563.5	1
misc02	0.1	1148	115	1690	1
misc03	13.24	36943	3027	3360	1
misc04	2.08	2760	13	2666.7	1
misc05	1.6	4217	361	2984.5	1
misc06	0.74	1987	35	12850.86	1
misc07	1800.55	1049086	91172	2810	0
mod008	12.12	28917	10385	307	1
mod013	0.52	1854	521	280.95	1
neos-506422	92.05	62174	727	0	1
neos-584851	70	50116	1864	-11	1
neos-709469	7.83	14743	346	493.16	1
neos-777800	365.12	515631	591	-80	1
neos-785899	659.39	534415	11172	101	1
neos-785914	1799.53	2480182	12160	not	0
neos-801834	1329.8	127510	2456	50386	1
neos-803219	504.17	291893	61273	210.3	1
neos-803220	1687.75	566607	134733	195.4	1
neos-806323	279.21	177554	26116	215	1
neos-807639	1800.2	561086	101510	454.2	0
neos-807705	1800.62	730655	110277	342.4	0
neos-810286	156.81	38471	65	2877	1
nug08	89.96	35229	114	214	1
nw04	54.49	1658	97	16862	1
p0033	0.07	1116	422	3089	1
p0201	3.68	11366	879	7615	1
p0282	23.23	17284	1259	258411	1
p0291	0.12	1100	185	5223.75	1
p0548	2.67	3994	334	8691	1
p2756	21.22	6734	1033	3124	1
pipex	1.64	12201	4693	788.26	1
pp08a	990.71	416401	53672	7350	1
qap10	585.3	314443	141	340	1
qnet1	24.47	27602	742	16029.69	1
qnet1_o	26.9	35635	802	16029.69	1
ran10x10a	22.81	33180	12055	1499	1
ran10x10b	4.04	9841	2954	3073	1
ran10x12	5.96	10554	3195	2714	1
ran4x64	1.36	3250	737	9711	1
ran6x43	1.32	2452	576	6330	1
rentacar	8.08	8715	59	30356760.98	1
rgn	14.3	26014	4955	82.2	1
roy	2.79	6792	2819	3208.96	1
set1al	1.73	663	31	15869.75	1
stein15	1.29	5130	79	9	1
stein27	12.98	20456	3226	18	1
stein45	419.77	336791	56303	30	1
stein9	0.02	296	6	5	1
Test3	1335.11	314256	7196	2673520.21	1
vpml	1.1	2131	141	20	1

Table 24: $BcE - BPrA_1 - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.06	6013	79	21477	1
23588	101.93	52350	5352	8090	1
10teams	738.75	1201562	13354	924	1
air06	31.68	12430	53	49649	1
bal8x12	1.39	3271	601	471.55	1
bell3b	41.31	46684	28169	11786160.62	1
bienst1	1493.1	3954168	32427	46.75	1
blend2	9.37	14749	7362	7.6	1
bm23	0.08	1223	357	34	1
dano3_3	194.31	83850	53	576.34	1
dano3_4	258.02	115440	75	576.44	1
dano3_5	1476.78	610295	1862	576.92	1
dcmulti	15.79	12003	783	188182	1
dsbmip	6.68	2836	35	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1151.56	709435	23843	885.41	1
enigma	1.7	17678	1651	0	1
fiber	238.18	139121	16602	405935.18	1
fixnet4	10.99	10943	599	8936	1
fixnet6	19.77	20140	2211	3983	1
flugpl	0.84	3190	3464	1201500	1
gen	3.69	7835	401	112313.36	1
gr4x6	0.1	713	127	202.35	1
gt2	3.02	7506	2165	21166	1
irp	1800.76	355907	29524	12546.77	0
khh05250	1.91	2784	83	106940226	1
l152lav	204.78	94533	6757	4722	1
lseu	13.43	89408	43753	1120	1
mas284	161.97	266340	60667	91405.72	1
misc01	0.46	3964	563	563.5	1
misc02	0.1	1148	115	1690	1
misc03	13.79	36943	3027	3360	1
misc04	2.22	2760	13	2666.7	1
misc05	1.65	4217	361	2984.5	1
misc06	0.76	1987	35	12850.86	1
misc07	1206.11	1060753	93205	2810	1
mod008	12.47	28917	10385	307	1
mod013	0.53	1854	521	280.95	1
neos-506422	86.02	62174	727	0	1
neos-584851	71.05	50116	1864	-11	1
neos-709469	7.9	14743	346	493.16	1
neos-777800	359.09	515631	591	-80	1
neos-785899	648.8	534415	11172	101	1
neos-785914	1800.15	2387442	11610	not	0
neos-801834	1379.01	127510	2456	50386	1
neos-803219	401.73	292856	62540	210.3	1
neos-803220	766.78	553228	133515	195.4	1
neos-806323	238.31	177554	26116	215	1
neos-807639	1800.12	599471	109825	454.2	0
neos-807705	1546.59	1265468	231168	342.4	1
neos-810286	151.29	38471	65	2877	1
nug08	86.15	35229	114	214	1
nw04	53.56	1658	97	16862	1
p0033	0.07	1116	422	3089	1
p0201	3.61	11366	879	7615	1
p0282	22.69	17284	1259	258411	1
p0291	0.12	1093	191	5223.75	1
p0548	2.61	3994	334	8691	1
p2756	20.96	6734	1033	3124	1
pipex	1.27	10524	4193	788.26	1
pp08a	839.51	416401	53672	7350	1
qap10	696.4	314443	141	340	1
qnet1	23.86	27602	742	16029.69	1
qnet1_o	26.31	35635	802	16029.69	1
ran10x10a	19.57	43882	18435	1499	1
ran10x10b	3.87	9841	2954	3073	1
ran10x12	7.19	13368	4499	2714	1
ran4x64	1.08	2097	662	9711	1
ran6x43	1.28	2452	576	6330	1
rentacar	7.9	8715	59	30356760.98	1
rgn	13.29	26014	4955	82.2	1
roy	4.02	10631	4730	3208.96	1

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Table 24 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.7	663	31	15869.75	1
stein15	1.27	5130	79	9	1
stein27	12.71	20456	3226	18	1
stein45	412.35	336791	56303	30	1
stein9	0.01	296	6	5	1
Test3	1420.23	314256	7196	2673520.21	1
vpml	1.15	2131	141	20	1

Table 25: $BeF/BeE - Lf - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.28	5779	74	21477	1
23588	83.63	43987	4430	8090	1
10teams	156.93	243828	1692	924	1
air06	29.72	11651	34	49649	1
bal8x12	0.8	1927	236	471.55	1
bell3b	35.29	33839	21533	11786160.62	1
bienst1	1473.68	4007766	32844	46.75	1
blend2	12.61	21752	9035	7.6	1
bm23	0.08	1245	363	34	1
dano3_3	91.34	40599	63	576.34	1
dano3_4	141.56	63593	135	576.44	1
dano3_5	1385.54	574785	1811	576.92	1
dcmulti	14.01	11909	588	188182	1
dsbmip	6.1	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1254.35	765103	25272	885.41	1
enigma	161.45	724703	98102	0	1
fiber	261.08	142057	18204	405935.18	1
fixnet4	11.51	11633	759	8936	1
fixnet6	20.61	22203	2549	3983	1
flugpl	0.93	3128	3422	1201500	1
gen	3.3	7175	326	112313.36	1
gr4x6	0.09	702	107	202.35	1
gt2	1.57	5335	1046	21166	1
irp	72.36	7015	503	12159.49	1
khh05250	1.73	2766	66	106940226	1
l152lav	129.59	77044	5056	4722	1
lseu	42.46	75943	35880	1120	1
mas284	242.65	239888	53912	91405.72	1
misc01	0.46	3973	568	563.5	1
misc02	0.1	1160	117	1690	1
misc03	12.72	33711	3031	3360	1
misc04	2.08	2760	13	2666.7	1
misc05	1.61	4235	379	2984.5	1
misc06	0.75	1951	37	12850.86	1
misc07	1500.83	1055949	93136	2810	1
mod008	14.66	29015	10691	307	1
mod013	0.56	2022	587	280.95	1
neos-506422	204.84	141050	1965	0	1
neos-584851	72.52	50116	1864	-11	1
neos-709469	10.11	24217	589	493.16	1
neos-777800	1047.66	881588	1422	-80	1
neos-785899	827.83	675510	13076	101	1
neos-785914	1090.3	1468734	4624	38	1
neos-801834	1097.62	105397	1680	50386	1
neos-803219	508.82	295254	62493	210.3	1
neos-803220	1440.87	564388	137059	195.4	1
neos-806323	281.46	181937	27292	215	1
neos-807639	1799.09	547764	91962	454.2	0
neos-807705	1800.66	795842	125885	342.4	0
neos-810286	161.31	38471	65	2877	1
nug08	94.71	35550	114	214	1
nw04	70.89	1927	135	16862	1
p0033	0.07	1089	454	3089	1
p0201	4.22	13023	1046	7615	1
p0282	37.3	20100	2247	258411	1
p0291	0.15	1266	231	5223.75	1

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Table 25 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	3	4441	403	8691	1
p2756	17.3	5201	683	3124	1
pipeX	0.97	8373	2459	788.26	1
pp08a	946.63	425611	54814	7350	1
qap10	629.45	316084	145	340	1
qnet1	32.61	34263	884	16029.69	1
qnet1.o	42.26	49791	1213	16029.69	1
ran10x10a	21.86	37690	14585	1499	1
ran10x10b	4.46	11000	3425	3073	1
ran10x12	11.19	21225	6130	2714	1
ran4x64	2.85	4306	1665	9711	1
ran6x43	1.79	2782	807	6330	1
rentacar	8.81	9099	61	30356760.98	1
rgn	13.83	24827	4702	82.2	1
roy	3.16	7775	3245	3208.96	1
set1al	1.7	663	31	15869.75	1
stein15	1.28	5130	79	9	1
stein27	13.23	20456	3226	18	1
stein45	580.62	394498	61041	30	1
stein9	0.02	296	6	5	1
Test3	1763.06	334278	8779	2673520.21	1
vpml	1.14	2136	142	20	1

Table 26: $BeF/BeE - Lf - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.72	5779	74	21477	1
23588	89.74	43987	4430	8090	1
10teams	168.63	243828	1692	924	1
air06	29.67	11651	34	49649	1
bal8x12	0.8	1927	236	471.55	1
bell3b	32.38	33839	21533	11786160.62	1
bienst1	1478.94	4007766	32844	46.75	1
blend2	12.7	21752	9035	7.6	1
bm23	0.08	1245	363	34	1
dano3_3	91.55	40599	63	576.34	1
dano3_4	139.46	63593	135	576.44	1
dano3_5	1367.78	574785	1811	576.92	1
dcmulti	14.16	11909	588	188182	1
dsbmip	6.31	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1337.61	765103	25272	885.41	1
enigma	91	885895	125278	0	1
fiber	262.61	142057	18204	405935.18	1
fixnet4	12.46	11633	759	8936	1
fixnet6	21.55	22203	2549	3983	1
flugpl	0.84	3128	3422	1201500	1
gen	3.37	7175	326	112313.36	1
gr4x6	0.09	702	107	202.35	1
gt2	1.57	5335	1046	21166	1
irp	77.02	7015	503	12159.49	1
khh05250	1.75	2766	66	106940226	1
l152lav	143.15	77044	5056	4722	1
lseu	13.15	86387	41783	1120	1
mas284	146.56	255941	58190	91405.72	1
misc01	0.46	3973	568	563.5	1
misc02	0.1	1160	117	1690	1
misc03	12.65	33711	3031	3360	1
misc04	2.05	2760	13	2666.7	1
misc05	1.58	4235	379	2984.5	1
misc06	0.74	1951	37	12850.86	1
misc07	1089.4	1055949	93136	2810	1
mod008	12.74	29015	10691	307	1
mod013	0.58	2022	587	280.95	1
neos-506422	202.71	141050	1965	0	1
neos-584851	72.02	50116	1864	-11	1
neos-709469	10.27	24217	589	493.16	1
neos-777800	1062.91	881588	1422	-80	1

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Table 26 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	829.55	675510	13076	101	1
neos-785914	1084.05	1468734	4624	38	1
neos-801834	1038.91	105397	1680	50386	1
neos-803219	402.81	282117	60616	210.3	1
neos-803220	800.76	543414	132030	195.4	1
neos-806323	264.84	181937	27292	215	1
neos-807639	1800	548527	92219	454.2	0
neos-807705	1241.53	984870	176479	342.4	1
neos-810286	145.19	38471	65	2877	1
nug08	83.95	35550	114	214	1
nw04	74.07	1927	135	16862	1
p0033	0.07	1089	454	3089	1
p0201	4.23	13023	1046	7615	1
p0282	39.22	20100	2247	258411	1
p0291	0.15	1266	231	5223.75	1
p0548	3.06	4441	403	8691	1
p2756	18.43	5201	683	3124	1
pipeX	0.76	6572	2272	788.26	1
pp08a	827.14	425611	54814	7350	1
qap10	596.76	316084	145	340	1
qnet1	27.79	34263	884	16029.69	1
qnet1.o	35.67	49791	1213	16029.69	1
ran10x10a	19.76	42679	17124	1499	1
ran10x10b	4.5	11000	3425	3073	1
ran10x12	10.96	21225	6130	2714	1
ran4x64	2.77	4306	1665	9711	1
ran6x43	1.69	2782	807	6330	1
rentacar	8.15	9099	61	30356760.98	1
rgn	12.6	24827	4702	82.2	1
roy	3.08	7775	3245	3208.96	1
set1al	1.71	663	31	15869.75	1
stein15	1.27	5130	79	9	1
stein27	12.91	20456	3226	18	1
stein45	433.2	358813	60982	30	1
stein9	0.01	296	6	5	1
Test3	1765.39	334278	8779	2673520.21	1
vpml	1.1	2136	142	20	1

Table 27: $BeF/BeE - E - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.25	5467	51	21477	1
23588	84.45	45449	4627	8090	1
10teams	17.2	16040	96	924	1
air06	20.44	10163	13	49649	1
bal8x12	0.67	1623	137	471.55	1
bell3b	94.5	65721	30621	11786160.62	1
bienst1	1476.59	3956754	32496	46.75	1
blend2	5.07	9770	3817	7.6	1
bm23	0.09	1227	353	34	1
dano3_3	223.61	99684	112	576.34	1
dano3_4	310.86	141333	165	576.44	1
dano3_5	1804.05	771508	1331	576.92	0
dcmulti	12.54	11077	423	188182	1
dsbmip	6.62	2826	34	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1143.84	720406	22023	885.41	1
enigma	3.82	28815	3273	0	1
fiber	261.49	135008	16386	405935.18	1
fixnet4	11.38	11015	599	8936	1
fixnet6	20.23	20084	2209	3983	1
flugpl	0.98	2797	3153	1201500	1
gen	3.36	7609	269	112313.36	1
gr4x6	0.09	678	94	202.35	1
gt2	0.37	1395	80	21166	1
irp	86.87	10061	474	12159.49	1
khb05250	1.84	2802	55	106940226	1
1152lav	168.12	73173	4889	4722	1

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Table 27 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	57.2	84008	35926	1120	1
mas284	261.64	253777	53893	91405.72	1
misc01	0.48	4096	565	563.5	1
misc02	0.1	1179	113	1690	1
misc03	13.21	36564	2981	3360	1
misc04	2.43	3240	13	2666.7	1
misc05	1.66	4357	379	2984.5	1
misc06	0.72	1973	25	12850.86	1
misc07	1747.05	1060707	93203	2810	1
mod008	13.21	28578	9511	307	1
mod013	0.54	1850	509	280.95	1
neos-506422	206.15	153545	1322	0	1
neos-584851	72.32	51070	1877	-11	1
neos-709469	19.17	40163	1327	493.16	1
neos-777800	1504.71	1571933	2708	-80	1
neos-785899	707.58	531741	11295	101	1
neos-785914	62.23	29848	125	38	1
neos-801834	931.75	100482	1429	50386	1
neos-803219	535.27	283724	58367	210.3	1
neos-803220	1637.88	579348	134207	195.4	1
neos-806323	285.25	178549	26023	215	1
neos-807639	1799.04	513711	82284	454.2	0
neos-807705	1799.62	674041	101027	342.4	0
neos-810286	772.12	167960	488	2877	1
nug08	79.1	34874	113	214	1
nw04	42.89	1389	81	16862	1
p0033	0.06	1186	407	3089	1
p0201	3.76	11896	884	7615	1
p0282	23.88	18425	1363	258411	1
p0291	0.13	1428	153	5223.75	1
p0548	2.71	4563	336	8691	1
p2756	9.49	3162	165	3124	1
pipex	0.55	4346	1128	788.26	1
pp08a	976.09	416560	53659	7350	1
qap10	642.41	302518	146	340	1
qnet1	21.52	26883	579	16029.69	1
qnet1.o	24.07	33823	762	16029.69	1
ran10x10a	17.52	27905	10414	1499	1
ran10x10b	4.41	10179	3237	3073	1
ran10x12	3.75	7300	2030	2714	1
ran4x64	0.69	1646	353	9711	1
ran6x43	1.26	2490	551	6330	1
rentacar	5.56	5788	41	30356760.98	1
rgn	12.9	25765	4847	82.2	1
roy	2.9	7025	2819	3208.96	1
set1al	1.7	695	25	15869.75	1
stein15	1.27	5124	77	9	1
stein27	12.91	20454	3224	18	1
stein45	534.61	345211	58269	30	1
stein9	0.02	293	4	5	1
Test3	1375.93	340423	7403	2673520.21	1
vpm1	0.8	1573	53	20	1

Table 28: $BeF/BeE - E - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.28	5467	51	21477	1
23588	88.61	45449	4627	8090	1
10teams	19.45	16040	96	924	1
air06	20.74	10163	13	49649	1
bal8x12	0.67	1623	137	471.55	1
bell3b	50	55284	34513	11786160.62	1
bienst1	1487.14	3956754	32496	46.75	1
blend2	6.97	12454	5216	7.6	1
bm23	0.07	1045	312	34	1
dano3_3	217.62	99684	112	576.34	1
dano3_4	302.16	141333	165	576.44	1
dano3_5	1802.1	765011	1305	576.92	0

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Table 28 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	12.7	11077	423	188182	1
dsbmip	6.79	2826	34	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1160.29	720406	22023	885.41	1
enigma	2.52	26171	2644	0	1
fiber	267.16	135008	16386	405935.18	1
fixnet4	11.32	11015	599	8936	1
fixnet6	20.38	20084	2209	3983	1
flugpl	0.87	3128	3422	1201500	1
gen	3.36	7609	269	112313.36	1
gr4x6	0.1	678	94	202.35	1
gt2	0.64	1795	318	21166	1
irp	86.59	10061	474	12159.49	1
khb05250	1.83	2802	55	106940226	1
l152lav	161.44	73173	4889	4722	1
lseu	13.17	86127	41365	1120	1
mas284	160.18	259006	58304	91405.72	1
misc01	0.49	4096	565	563.5	1
misc02	0.1	1178	114	1690	1
misc03	13.52	36564	2981	3360	1
misc04	2.5	3240	13	2666.7	1
misc05	1.68	4357	379	2984.5	1
misc06	0.73	1973	25	12850.86	1
misc07	1091.57	1060707	93203	2810	1
mod008	11.98	29121	9808	307	1
mod013	0.53	1850	509	280.95	1
neos-506422	192.81	153545	1322	0	1
neos-584851	68.92	51070	1877	-11	1
neos-709469	18.41	40163	1327	493.16	1
neos-777800	1468.42	1571933	2708	-80	1
neos-785899	729.2	531741	11295	101	1
neos-785914	52.84	29848	125	38	1
neos-801834	915.39	100482	1429	50386	1
neos-803219	393.5	297222	63056	210.3	1
neos-803220	1149.58	564366	137056	195.4	1
neos-806323	251.23	178549	26023	215	1
neos-807639	1800	514979	82831	454.2	0
neos-807705	1631.43	1288512	236264	342.4	1
neos-810286	762.82	167960	488	2877	1
nug08	79.58	34874	113	214	1
nw04	42.37	1389	81	16862	1
p0033	0.07	1186	407	3089	1
p0201	3.75	11896	884	7615	1
p0282	24.18	18425	1363	258411	1
p0291	0.13	1428	153	5223.75	1
p0548	2.68	4563	336	8691	1
p2756	9.57	3162	165	3124	1
pipex	1.31	11296	4020	788.26	1
pp08a	778.5	416560	53659	7350	1
qap10	661.53	302518	146	340	1
qnet1	23.89	26883	579	16029.69	1
qnet1_o	23.34	33823	762	16029.69	1
ran10x10a	10.42	22470	9499	1499	1
ran10x10b	4.38	10679	3501	3073	1
ran10x12	3.7	7300	2030	2714	1
ran4x64	0.68	1646	353	9711	1
ran6x43	1.65	2822	814	6330	1
rentacar	5.47	5788	41	30356760.98	1
rgn	12.85	25765	4847	82.2	1
roy	3.25	8473	3432	3208.96	1
set1al	1.71	713	35	15869.75	1
stein15	1.26	5124	77	9	1
stein27	12.99	20454	3224	18	1
stein45	402.92	345211	58269	30	1
stein9	0.02	293	4	5	1
Test3	1384.61	340423	7403	2673520.21	1
vpml	0.79	1573	53	20	1

Table 29: $BeF/BeE - BPrA_0 - N.$

Name	Time	Iters	Nodes	Best	Solved
22433	7.79	5731	71	21477	1
23588	83.94	42570	4266	8090	1
10teams	151.03	232765	1569	924	1
air06	29.49	11651	34	49649	1
bal8x12	0.75	1761	190	471.55	1
bell3b	36.7	33111	21129	11786160.62	1
bienst1	1476.73	4014822	32874	46.75	1
blend2	10.84	19768	7848	7.6	1
bm23	0.08	1245	363	34	1
dano3_3	89.27	40599	63	576.34	1
dano3_4	136.86	63593	135	576.44	1
dano3_5	1377.7	574785	1811	576.92	1
dcmulti	13.58	11681	573	188182	1
dsbmip	7.16	2591	26	-305.2	1
egout	0.11	562	13	568.1	1
eilD76	1307.3	765103	25272	885.41	1
enigma	170.16	713491	96857	0	1
fiber	288.99	141172	17837	405935.18	1
fixnet4	13.64	11633	759	8936	1
fixnet6	23.36	22203	2549	3983	1
flugpl	0.98	3128	3422	1201500	1
gen	3.18	6763	272	112313.36	1
gr4x6	0.08	678	94	202.35	1
gt2	1.58	5335	1046	21166	1
irp	80.64	7015	503	12159.49	1
khh05250	1.81	2827	57	106940226	1
l152lav	154.49	75983	4966	4722	1
lseu	46.47	75770	35824	1120	1
mas284	285.14	242382	54112	91405.72	1
misc01	0.46	3973	568	563.5	1
misc02	0.1	1160	117	1690	1
misc03	13.07	33711	3031	3360	1
misc04	2.2	2760	13	2666.7	1
misc05	1.67	4235	379	2984.5	1
misc06	0.74	1951	37	12850.86	1
misc07	1514.43	1055707	93105	2810	1
mod008	12.67	27427	9864	307	1
mod013	0.58	2022	587	280.95	1
neos-506422	187.8	140386	1888	0	1
neos-584851	68.41	50116	1864	-11	1
neos-709469	9.71	24217	589	493.16	1
neos-777800	986.39	881588	1422	-80	1
neos-785899	865.19	675510	13076	101	1
neos-785914	1218.17	1468734	4624	38	1
neos-801834	1100.7	105397	1680	50386	1
neos-803219	541.53	285663	59075	210.3	1
neos-803220	1622.31	575026	134306	195.4	1
neos-806323	285.11	182531	27256	215	1
neos-807639	1799.09	527182	82362	454.2	0
neos-807705	1800.65	752166	113947	342.4	0
neos-810286	160.16	38471	65	2877	1
nug08	93.25	35550	114	214	1
nw04	70.44	1927	135	16862	1
p0033	0.08	1089	454	3089	1
p0201	4.23	12998	1037	7615	1
p0282	34.28	20532	1944	258411	1
p0291	0.13	1313	180	5223.75	1
p0548	2.9	4360	373	8691	1
p2756	16.57	4819	635	3124	1
pipex	0.63	5519	1484	788.26	1
pp08a	964.95	424400	54585	7350	1
qap10	597.51	316084	145	340	1
qnet1	30.18	36981	905	16029.69	1
qnet1.o	33.8	47624	1107	16029.69	1
ran10x10a	21.19	37690	14585	1499	1
ran10x10b	4.2	10447	3244	3073	1
ran10x12	5.12	10137	2629	2714	1
ran4x64	2.09	3376	1241	9711	1
ran6x43	1.8	3123	834	6330	1
rentacar	8.12	9099	61	30356760.98	1
rgn	12.96	24801	4697	82.2	1
roy	2.87	7010	2833	3208.96	1

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Table 29 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.71	663	31	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.97	20456	3226	18	1
stein45	542.19	394172	60976	30	1
stein9	0.02	296	6	5	1
Test3	1800.27	332954	8252	2673520.21	0
vpml	1.1	2136	142	20	1

Table 30: $BeF/BeE - BPrA_0 - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.73	5731	71	21477	1
23588	84.76	42570	4266	8090	1
10teams	145.64	232765	1569	924	1
air06	28.04	11651	34	49649	1
bal8x12	0.72	1761	190	471.55	1
bell3b	31.48	33111	21129	11786160.62	1
bienst1	1459.49	4014822	32874	46.75	1
blend2	10.64	19768	7848	7.6	1
bm23	0.09	1245	363	34	1
dano3_3	91.13	40599	63	576.34	1
dano3_4	140.9	63593	135	576.44	1
dano3_5	1387.84	574785	1811	576.92	1
dcmulti	14.06	11681	573	188182	1
dsbmip	6.35	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1315.2	765103	25272	885.41	1
enigma	19.99	196447	25903	0	1
fiber	289.23	141172	17837	405935.18	1
fixnet4	13.58	11633	759	8936	1
fixnet6	22.55	22203	2549	3983	1
flugpl	0.86	3128	3422	1201500	1
gen	3.12	6763	272	112313.36	1
gr4x6	0.09	678	94	202.35	1
gt2	1.52	5335	1046	21166	1
irp	78.99	7015	503	12159.49	1
khh05250	1.86	2827	57	106940226	1
l152lav	166.05	75983	4966	4722	1
lseu	13.15	85279	41386	1120	1
mas284	161.46	262821	59918	91405.72	1
misc01	0.46	3973	568	563.5	1
misc02	0.1	1160	117	1690	1
misc03	12.95	33711	3031	3360	1
misc04	2.24	2760	13	2666.7	1
misc05	1.66	4235	379	2984.5	1
misc06	0.76	1951	37	12850.86	1
misc07	1219.33	1055707	93105	2810	1
mod008	12.53	27427	9864	307	1
mod013	0.58	2022	587	280.95	1
neos-506422	185.64	140386	1888	0	1
neos-584851	68.4	50116	1864	-11	1
neos-709469	9.8	24217	589	493.16	1
neos-777800	961.44	881588	1422	-80	1
neos-785899	834.1	675510	13076	101	1
neos-785914	1135.65	1468734	4624	38	1
neos-801834	1070.61	105397	1680	50386	1
neos-803219	369.27	283787	59983	210.3	1
neos-803220	776.35	560749	135315	195.4	1
neos-806323	263.3	182531	27256	215	1
neos-807639	1800	527182	82774	454.2	0
neos-807705	1146.11	912994	162547	342.4	1
neos-810286	172.04	38471	65	2877	1
nug08	105.03	35550	114	214	1
nw04	73.88	1927	135	16862	1
p0033	0.07	1089	454	3089	1
p0201	4.25	12998	1037	7615	1
p0282	30.94	20532	1944	258411	1
p0291	0.13	1313	180	5223.75	1

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Table 30 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	2.84	4360	373	8691	1
p2756	14.98	4819	635	3124	1
pipeX	0.71	6257	1770	788.26	1
pp08a	786.47	424400	54585	7350	1
qap10	643.77	316084	145	340	1
qnet1	31.45	36981	905	16029.69	1
qnet1_o	35.33	47624	1107	16029.69	1
ran10x10a	20.62	42596	17078	1499	1
ran10x10b	4.28	10447	3244	3073	1
ran10x12	5.22	10137	2629	2714	1
ran4x64	2.1	3376	1241	9711	1
ran6x43	1.9	3123	834	6330	1
rentacar	8.31	9099	61	30356760.98	1
rgn	13.2	24801	4697	82.2	1
roy	3.07	7623	3188	3208.96	1
set1al	1.7	663	31	15869.75	1
stein15	1.29	5130	79	9	1
stein27	13.07	20456	3226	18	1
stein45	435.49	355873	60342	30	1
stein9	0.01	296	6	5	1
Test3	1767.77	333862	8635	2673520.21	1
vpml	1.14	2136	142	20	1

Table 31: $BeF/BeE - DExA - N.$

Name	Time	Iters	Nodes	Best	Solved
22433	7.73	5779	74	21477	1
23588	85.21	43339	4359	8090	1
10teams	161.95	252914	1757	924	1
air06	28.23	11651	34	49649	1
bal8x12	0.79	1878	215	471.55	1
bell3b	34.58	32637	20928	11786160.62	1
bienst1	1458.41	4005022	32817	46.75	1
blend2	8.84	13709	6633	7.6	1
bm23	0.08	1245	363	34	1
dano3_3	104.48	46515	63	576.34	1
dano3_4	141.02	64493	125	576.44	1
dano3_5	1263.35	529492	1599	576.92	1
dcmulti	13.98	11805	574	188182	1
dsbmip	6.4	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1337.33	765123	25280	885.41	1
enigma	223.67	1001537	141138	0	1
fiber	278.33	134332	17220	405935.18	1
fixnet4	13	11599	705	8936	1
fixnet6	22.61	21533	2395	3983	1
flugpl	0.96	2862	3203	1201500	1
gen	3.48	7175	326	112313.36	1
gr4x6	0.09	702	107	202.35	1
gt2	1.47	5153	953	21166	1
irp	68.17	6540	403	12159.49	1
khh05250	1.9	2766	66	106940226	1
1152lav	200.51	86969	5589	4722	1
lseu	49.11	76018	35783	1120	1
mas284	261.15	240397	54017	91405.72	1
misc01	0.46	3973	568	563.5	1
misc02	0.1	1160	117	1690	1
misc03	12.95	33145	2966	3360	1
misc04	2.27	2760	13	2666.7	1
misc05	1.64	4235	379	2984.5	1
misc06	0.78	1951	37	12850.86	1
misc07	1680.14	1055067	93027	2810	1
mod008	12.91	27553	9550	307	1
mod013	0.58	2022	587	280.95	1
neos-506422	78.65	58306	491	0	1
neos-584851	68.28	50116	1864	-11	1
neos-709469	9.74	24088	590	493.16	1
neos-777800	965.56	881588	1422	-80	1

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Table 31 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	802.18	675510	13076	101	1
neos-785914	1165.71	1468734	4624	38	1
neos-801834	981.31	105426	1480	50386	1
neos-803219	514.27	295386	62397	210.3	1
neos-803220	1405.6	564383	136921	195.4	1
neos-806323	295	181543	27127	215	1
neos-807639	1800.31	549327	92308	454.2	0
neos-807705	1800.6	828586	133138	342.4	0
neos-810286	109.43	38471	65	2877	1
nug08	65.21	35550	114	214	1
nw04	59.18	1927	135	16862	1
p0033	0.06	1089	454	3089	1
p0201	4	12986	1038	7615	1
p0282	32.22	21315	2451	258411	1
p0291	0.14	1266	231	5223.75	1
p0548	2.79	4441	403	8691	1
p2756	12.11	4367	557	3124	1
pipeX	0.92	8280	2437	788.26	1
pp08a	864.9	425619	54793	7350	1
qap10	483.17	316084	145	340	1
qnet1	20.23	30529	705	16029.69	1
qnet1.o	25.94	44246	1149	16029.69	1
ran10x10a	18.13	34684	13519	1499	1
ran10x10b	3.95	10149	3160	3073	1
ran10x12	9.6	20040	5694	2714	1
ran4x64	2.36	3636	1374	9711	1
ran6x43	1.49	2738	734	6330	1
rentacar	7.22	9099	61	30356760.98	1
rgn	11.07	24827	4702	82.2	1
roy	2.99	7768	3224	3208.96	1
set1al	1.66	663	31	15869.75	1
stein15	1.23	5130	79	9	1
stein27	12.11	20456	3226	18	1
stein45	505.78	394498	61041	30	1
stein9	0.01	296	6	5	1
Test3	1443.2	334278	8779	2673520.21	1
vpml	0.88	1821	83	20	1

Table 32: $BeF/BeE - DExA - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.86	5779	74	21477	1
23588	85.92	43339	4359	8090	1
10teams	160.87	252914	1757	924	1
air06	28.87	11651	34	49649	1
bal8x12	0.76	1878	215	471.55	1
bell3b	31.84	32637	20928	11786160.62	1
bienst1	1472.61	4005022	32817	46.75	1
blend2	8.94	13709	6633	7.6	1
bm23	0.08	1245	363	34	1
dano3_3	105.56	46515	63	576.34	1
dano3_4	140.31	64493	125	576.44	1
dano3_5	1268.86	529492	1599	576.92	1
dcmulti	13.89	11805	574	188182	1
dsbmip	6.22	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1286.09	765123	25280	885.41	1
enigma	119.36	1166516	165332	0	1
fiber	276.71	134332	17220	405935.18	1
fixnet4	13.24	11599	705	8936	1
fixnet6	23.01	21533	2395	3983	1
flugpl	2.25	7776	10575	1201500	1
gen	3.44	7175	326	112313.36	1
gr4x6	0.09	702	107	202.35	1
gt2	1.45	5153	953	21166	1
irp	67.88	6540	403	12159.49	1
khb05250	2	2766	66	106940226	1
l152lav	197.77	86969	5589	4722	1

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Table 32 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	11.14	74059	35603	1120	1
mas284	164.27	256671	58370	91405.72	1
misc01	0.46	3973	568	563.5	1
misc02	0.1	1160	117	1690	1
misc03	12.84	33145	2966	3360	1
misc04	2.25	2760	13	2666.7	1
misc05	1.66	4235	379	2984.5	1
misc06	0.77	1951	37	12850.86	1
misc07	1227.28	1055067	93027	2810	1
mod008	11.99	27553	9550	307	1
mod013	0.58	2022	587	280.95	1
neos-506422	81.24	58306	491	0	1
neos-584851	70.55	50116	1864	-11	1
neos-709469	10.08	24088	590	493.16	1
neos-777800	998.85	881588	1422	-80	1
neos-785899	753.37	675510	13076	101	1
neos-785914	1138.93	1468734	4624	38	1
neos-801834	956.75	105426	1480	50386	1
neos-803219	401.73	301770	65222	210.3	1
neos-803220	802.07	547021	132804	195.4	1
neos-806323	264.4	181543	27127	215	1
neos-807639	1800.5	549327	92308	454.2	0
neos-807705	1155.73	1014238	183620	342.4	1
neos-810286	110.31	38471	65	2877	1
nug08	65.35	35550	114	214	1
nw04	59.66	1927	135	16862	1
p0033	0.07	1089	454	3089	1
p0201	3.95	12986	1038	7615	1
p0282	32.47	21315	2451	258411	1
p0291	0.14	1266	231	5223.75	1
p0548	2.82	4441	403	8691	1
p2756	11.96	4367	557	3124	1
pipex	0.92	8280	2437	788.26	1
pp08a	701.27	425619	54793	7350	1
qap10	485.84	316084	145	340	1
qnet1	20.32	30529	705	16029.69	1
qnet1.o	25.95	44246	1149	16029.69	1
ran10x10a	15.34	34684	13519	1499	1
ran10x10b	3.98	10149	3160	3073	1
ran10x12	9.65	20040	5694	2714	1
ran4x64	2.22	3636	1374	9711	1
ran6x43	1.5	2738	734	6330	1
rentacar	7.24	9099	61	30356760.98	1
rgn	11.1	24827	4702	82.2	1
roy	2.95	7768	3224	3208.96	1
set1al	1.67	663	31	15869.75	1
stein15	1.24	5130	79	9	1
stein27	12.15	20456	3226	18	1
stein45	385.33	357300	60642	30	1
stein9	0.01	296	6	5	1
Test3	1451.31	334278	8779	2673520.21	1
vpm1	0.88	1821	83	20	1

Table 33: $BeF/BeE - PCA - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.14	5466	51	21477	1
23588	92.81	44518	4483	8090	1
10teams	36.47	37790	249	924	1
air06	20.24	10132	14	49649	1
bal8x12	0.68	1635	137	471.55	1
bell3b	134.52	65723	30622	11786160.62	1
bienst1	1477.71	3969120	32620	46.75	1
blend2	4.94	8488	3814	7.6	1
bm23	0.09	1242	361	34	1
dano3_3	99.75	44163	56	576.34	1
dano3_4	168.77	74177	112	576.44	1
dano3_5	1639.89	684780	1614	576.92	1

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Table 33 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	12.38	11072	425	188182	1
dsbmip	5.78	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1106.19	717461	21813	885.41	1
enigma	382.08	880991	113032	0	1
fiber	233.34	135009	16386	405935.18	1
fixnet4	10.34	11015	599	8936	1
fixnet6	18.63	20072	2203	3983	1
flugpl	1.04	2803	3156	1201500	1
gen	3.27	7609	269	112313.36	1
gr4x6	0.09	690	101	202.35	1
gt2	0.46	1908	117	21166	1
irp	80.43	10082	474	12159.49	1
khb05250	1.7	2780	55	106940226	1
l152lav	160.79	73700	4947	4722	1
lseu	84.99	84543	36057	1120	1
mas284	352.71	254906	54023	91405.72	1
misc01	0.49	4096	565	563.5	1
misc02	0.1	1179	113	1690	1
misc03	14.15	36572	2981	3360	1
misc04	2.46	3153	13	2666.7	1
misc05	1.69	4375	379	2984.5	1
misc06	0.72	1946	25	12850.86	1
misc07	1799.64	930577	71994	2810	0
mod008	14.05	28593	9517	307	1
mod013	0.53	1838	509	280.95	1
neos-506422	260.93	204525	1705	0	1
neos-584851	66.22	50116	1864	-11	1
neos-709469	18.5	40845	1338	493.16	1
neos-777800	980.64	881588	1422	-80	1
neos-785899	769.98	663496	12811	101	1
neos-785914	1799.71	2383096	9048	not	0
neos-801834	895.34	100482	1429	50386	1
neos-803219	595.77	283799	58445	210.3	1
neos-803220	1799.2	513666	108836	195.4	0
neos-806323	314.88	179572	26067	215	1
neos-807639	1799.8	509584	79669	454.2	0
neos-807705	1799.57	600017	85023	342.4	0
neos-810286	461.04	184233	521	2877	1
nug08	65.75	35085	113	214	1
nw04	36.89	1389	81	16862	1
p0033	0.07	1115	393	3089	1
p0201	3.73	11887	886	7615	1
p0282	21.04	18444	1363	258411	1
p0291	0.13	1404	153	5223.75	1
p0548	2.6	4563	336	8691	1
p2756	8.53	3365	165	3124	1
pipex	0.58	4092	1107	788.26	1
pp08a	987.05	416706	53678	7350	1
qap10	461.7	295949	141	340	1
qnet1	18.16	26883	579	16029.69	1
qnet1_o	20.37	33823	762	16029.69	1
ran10x10a	15.12	22763	9379	1499	1
ran10x10b	4.49	10248	3259	3073	1
ran10x12	3.71	7326	2033	2714	1
ran4x64	0.66	1646	353	9711	1
ran6x43	1.21	2488	549	6330	1
rentacar	4.91	5788	41	30356760.98	1
rgn	11.92	25765	4847	82.2	1
roy	2.89	7037	2819	3208.96	1
set1al	1.66	697	25	15869.75	1
stein15	1.22	5128	80	9	1
stein27	12.73	20454	3225	18	1
stein45	600.39	354166	60211	30	1
stein9	0.01	293	4	5	1
Test3	1155.21	340612	7407	2673520.21	1
vpml	1.04	2052	140	20	1

Table 34: *BeF/BeE – PCA – Y.*

Name	Time	Iters	Nodes	Best	Solved
22433	7.22	5466	51	21477	1
23588	87.99	44518	4483	8090	1
10teams	34	37790	249	924	1
air06	20.08	10132	14	49649	1
bal8x12	0.66	1635	137	471.55	1
bell3b	49.87	55179	34420	11786160.62	1
bienst1	1491.51	3969120	32620	46.75	1
blend2	5.22	8488	3814	7.6	1
bm23	0.1	1482	443	34	1
dano3_3	99.02	44163	56	576.34	1
dano3_4	163.04	74177	112	576.44	1
dano3_5	1639.73	684780	1614	576.92	1
dcmulti	12.07	11072	425	188182	1
dsbmip	6.16	2591	26	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1123.35	717461	21813	885.41	1
enigma	98.22	959224	135893	0	1
fiber	245.64	135009	16386	405935.18	1
fixnet4	11.81	11015	599	8936	1
fixnet6	20.65	20072	2203	3983	1
flugpl	0.84	3128	3422	1201500	1
gen	3.4	7609	269	112313.36	1
gr4x6	0.09	671	99	202.35	1
gt2	0.46	1908	117	21166	1
irp	89.25	10082	474	12159.49	1
khh05250	1.88	2780	55	106940226	1
l152lav	173.92	73700	4947	4722	1
lseu	9.92	65150	31344	1120	1
mas284	159.92	257845	57961	91405.72	1
misc01	0.46	4010	573	563.5	1
misc02	0.11	1179	113	1690	1
misc03	13.94	36572	2981	3360	1
misc04	2.45	3153	13	2666.7	1
misc05	1.73	4375	379	2984.5	1
misc06	0.73	1946	25	12850.86	1
misc07	1262.08	1060791	93209	2810	1
mod008	12.3	28965	9752	307	1
mod013	0.53	1838	509	280.95	1
neos-506422	254.64	204525	1705	0	1
neos-584851	70.01	50116	1864	-11	1
neos-709469	19.88	40845	1338	493.16	1
neos-777800	1048.23	881588	1422	-80	1
neos-785899	778.08	663496	12811	101	1
neos-785914	1800.02	2393617	9092	not	0
neos-801834	1063.32	100482	1429	50386	1
neos-803219	409.15	296053	62256	210.3	1
neos-803220	801.14	570962	137109	195.4	1
neos-806323	248.63	179572	26067	215	1
neos-807639	1800.1	510327	79987	454.2	0
neos-807705	1455.78	1288098	236549	342.4	1
neos-810286	465.96	184233	521	2877	1
nug08	65.27	35085	113	214	1
nw04	36.72	1389	81	16862	1
p0033	0.07	1115	393	3089	1
p0201	3.7	11887	886	7615	1
p0282	21.01	18444	1363	258411	1
p0291	0.14	1410	212	5223.75	1
p0548	2.6	4563	336	8691	1
p2756	8.58	3365	165	3124	1
pipex	0.86	7740	2287	788.26	1
pp08a	701.12	416706	53678	7350	1
qap10	461.18	295949	141	340	1
qnet1	18.24	26883	579	16029.69	1
qnet1.o	20.39	33823	762	16029.69	1
ran10x10a	15.31	34506	13497	1499	1
ran10x10b	3.92	10034	3215	3073	1
ran10x12	3.68	7326	2033	2714	1
ran4x64	2.45	4092	1571	9711	1
ran6x43	1.21	2488	549	6330	1
rentacar	4.92	5788	41	30356760.98	1
rgn	12.12	25765	4847	82.2	1
roy	3.16	8341	3408	3208.96	1

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Table 34 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.66	697	25	15869.75	1
stein15	1.23	5128	80	9	1
stein27	12.39	20454	3225	18	1
stein45	380.37	384392	58918	30	1
stein9	0.02	293	4	5	1
Test3	1143.33	340612	7407	2673520.21	1
vpml	1.03	2052	140	20	1

Table 35: $BeF/BeE - BPrA_1 - N.$

Name	Time	Iters	Nodes	Best	Solved
22433	7.3	5532	52	21477	1
23588	84.47	42786	4302	8090	1
10teams	106.11	174750	1077	924	1
air06	28.88	11651	34	49649	1
bal8x12	0.82	2095	226	471.55	1
bell3b	92.71	65726	30625	11786160.62	1
bienst1	1490.31	3998466	32747	46.75	1
blend2	4.74	8205	3760	7.6	1
bm23	0.08	1245	363	34	1
dano3_3	92.29	40543	63	576.34	1
dano3_4	230.11	101370	133	576.44	1
dano3_5	1275.89	533489	1637	576.92	1
dcmulti	12.47	11390	431	188182	1
dsbmip	6.23	2838	34	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	1226.58	761912	24705	885.41	1
enigma	248.78	839900	106370	0	1
fiber	228.92	139652	17127	405935.18	1
fixnet4	10.22	11013	599	8936	1
fixnet6	18.51	20084	2209	3983	1
flugpl	0.98	3128	3422	1201500	1
gen	3.31	7590	269	112313.36	1
gr4x6	0.09	689	99	202.35	1
gt2	1.53	5335	1046	21166	1
irp	65.06	6668	436	12159.49	1
khh05250	1.71	2780	55	106940226	1
l152lav	135.51	76232	5003	4722	1
lseu	68.62	93640	40071	1120	1
mas284	245.64	240338	54013	91405.72	1
misc01	0.46	3967	565	563.5	1
misc02	0.1	1181	115	1690	1
misc03	13.17	36898	3031	3360	1
misc04	2.06	2760	13	2666.7	1
misc05	1.64	4356	379	2984.5	1
misc06	0.75	1950	36	12850.86	1
misc07	1799.38	1050711	90992	2810	0
mod008	14.51	29079	10209	307	1
mod013	0.53	1834	509	280.95	1
neos-506422	196.68	135290	1806	0	1
neos-584851	70.83	50116	1864	-11	1
neos-709469	13.25	30167	942	493.16	1
neos-777800	1030.88	881588	1422	-80	1
neos-785899	773.12	680647	12987	101	1
neos-785914	1091.06	1468734	4624	38	1
neos-801834	1030.32	114022	1503	50386	1
neos-803219	537.37	283225	58799	210.3	1
neos-803220	1640.71	580575	134285	195.4	1
neos-806323	283.59	179299	26735	215	1
neos-807639	1800.82	549859	89814	454.2	0
neos-807705	1800.56	700214	106756	342.4	0
neos-810286	109.12	38471	65	2877	1
nug08	65.64	35550	114	214	1
nw04	38.7	1450	85	16862	1
p0033	0.07	1198	410	3089	1
p0201	3.68	12222	895	7615	1
p0282	21.04	18534	1363	258411	1
p0291	0.14	1623	164	5223.75	1

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Table 35 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	2.63	4390	352	8691	1
p2756	10.86	4176	415	3124	1
pipeX	0.53	4360	1134	788.26	1
pp08a	864.09	417174	53741	7350	1
qap10	479.13	314554	141	340	1
qnet1	18.44	27796	581	16029.69	1
qnet1_o	20.2	33890	762	16029.69	1
ran10x10a	16.22	27538	10296	1499	1
ran10x10b	4.27	10204	3239	3073	1
ran10x12	3.52	7238	2005	2714	1
ran4x64	0.64	1536	353	9711	1
ran6x43	1.1	2311	505	6330	1
rentacar	6.42	7989	56	30356760.98	1
rgn	11.81	25716	4915	82.2	1
roy	2.8	7025	2819	3208.96	1
set1al	1.66	663	31	15869.75	1
stein15	1.23	5130	79	9	1
stein27	12.12	20456	3226	18	1
stein45	505.52	394498	61041	30	1
stein9	0.02	296	6	5	1
Test3	1130.29	317812	7157	2673520.21	1
vpml	1.06	2131	141	20	1

Table 36: $BeF/BeE - BPrA_1 - Y.$

Name	Time	Iters	Nodes	Best	Solved
22433	6.92	5532	52	21477	1
23588	68.07	42786	4302	8090	1
10teams	81.58	174750	1077	924	1
air06	23.71	11651	34	49649	1
bal8x12	0.79	2095	226	471.55	1
bell3b	26.01	29066	18376	11786160.62	1
bienst1	1398.02	3998466	32747	46.75	1
blend2	4.69	8205	3760	7.6	1
bm23	0.08	1245	363	34	1
dano3_3	78.18	40543	63	576.34	1
dano3_4	195.4	101370	133	576.44	1
dano3_5	1124.58	533489	1637	576.92	1
dcmulti	10.7	11390	431	188182	1
dsbmp	5.59	2838	34	-305.2	1
egout	0.1	562	13	568.1	1
eilD76	826.99	761912	24705	885.41	1
enigma	114.7	1133587	159845	0	1
fiber	225.99	139652	17127	405935.18	1
fixnet4	10.26	11013	599	8936	1
fixnet6	18.39	20084	2209	3983	1
flugpl	0.81	3128	3422	1201500	1
gen	3.25	7590	269	112313.36	1
gr4x6	0.09	689	99	202.35	1
gt2	1.52	5335	1046	21166	1
irp	65.17	6668	436	12159.49	1
khh05250	1.7	2780	55	106940226	1
l152lav	132.67	76232	5003	4722	1
lseu	12.14	81058	39418	1120	1
mas284	152.3	256341	58276	91405.72	1
misc01	0.46	3967	565	563.5	1
misc02	0.1	1181	115	1690	1
misc03	13.22	36898	3031	3360	1
misc04	2.06	2760	13	2666.7	1
misc05	1.64	4356	379	2984.5	1
misc06	0.74	1950	36	12850.86	1
misc07	1176.38	1060687	93195	2810	1
mod008	12.86	29079	10209	307	1
mod013	0.53	1834	509	280.95	1
neos-506422	196.82	135290	1806	0	1
neos-584851	71.33	50116	1864	-11	1
neos-709469	13.84	30167	942	493.16	1
neos-777800	1043.95	881588	1422	-80	1

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Table 36 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	833.41	680647	12987	101	1
neos-785914	1218.46	1468734	4624	38	1
neos-801834	1094.18	114022	1503	50386	1
neos-803219	379.18	282564	60119	210.3	1
neos-803220	758.79	552346	132502	195.4	1
neos-806323	247.8	179299	26735	215	1
neos-807639	1800.25	550033	89903	454.2	0
neos-807705	1182.17	1056481	190980	342.4	1
neos-810286	109.46	38471	65	2877	1
nug08	65.19	35550	114	214	1
nw04	38.74	1450	85	16862	1
p0033	0.06	1125	396	3089	1
p0201	3.68	12222	895	7615	1
p0282	20.93	18534	1363	258411	1
p0291	0.14	1623	164	5223.75	1
p0548	2.61	4390	352	8691	1
p2756	10.78	4176	415	3124	1
pipeX	0.48	4097	1158	788.26	1
pp08a	656.09	417174	53741	7350	1
qap10	481.18	314554	141	340	1
qnet1	18.55	27796	581	16029.69	1
qnet1.o	23.87	33890	762	16029.69	1
ran10x10a	15.39	33153	12867	1499	1
ran10x10b	3.86	9367	2942	3073	1
ran10x12	5.91	11631	3447	2714	1
ran4x64	0.68	1536	353	9711	1
ran6x43	1.17	2311	505	6330	1
rentacar	7.56	7989	56	30356760.98	1
rgn	14.01	25716	4915	82.2	1
roy	3	7532	3122	3208.96	1
set1al	1.71	663	31	15869.75	1
stein15	1.29	5130	79	9	1
stein27	13.17	20456	3226	18	1
stein45	399.84	365946	62503	30	1
stein9	0.01	296	6	5	1
Test3	1130.74	317812	7157	2673520.21	1
vpml	1.06	2131	141	20	1

Table 37: $DeF - Lf - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.53	5674	73	21477	1
23588	131.82	67461	7391	8090	1
10teams	753.06	1250128	14258	924	1
air06	42.03	15002	109	49649	1
bal8x12	2.56	5375	1483	471.55	1
bell3b	1799.42	2299185	1479419	12101021.83	0
bienst1	1520.99	4107520	34256	46.75	1
blend2	415.88	1649444	316634	7.6	1
bm23	0.12	1732	584	34	1
dano3.3	90.13	40471	63	576.34	1
dano3.4	115.04	52540	105	576.44	1
dano3.5	1468.84	648726	2027	576.92	1
dcmulti	14.58	11402	713	188182	1
dsbmip	6.61	2787	42	-305.2	1
egout	0.1	562	13	568.1	1
eiD76	1172.75	725009	27217	885.41	1
enigma	100.21	996482	138207	0	1
fiber	471.71	276720	37298	405935.18	1
fixnet4	14.31	12662	1179	8936	1
fixnet6	19.99	21427	2477	3983	1
flugpl	1.02	3583	4669	1201500	1
gen	3.1	6551	301	112313.36	1
gr4x6	0.11	818	187	202.35	1
gt2	1206.79	3495850	1390614	21166	1
irp	1796.81	328423	29312	12830.07	0
khh05250	2.14	2956	117	106940226	1
l152lav	235.15	113407	8168	4722	1

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Table 37 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	11.83	79485	39433	1120	1
mas284	162	282752	65633	91405.72	1
misc01	0.46	3989	581	563.5	1
misc02	0.11	1225	123	1690	1
misc03	31.71	96535	8539	3360	1
misc04	2.16	2704	13	2666.7	1
misc05	1.64	4235	379	2984.5	1
misc06	0.86	2018	64	12850.86	1
misc07	1427.15	1464603	131477	2810	1
mod008	17	37799	16386	307	1
mod013	0.73	2511	831	280.95	1
neos-506422	1800.55	1454572	28037	171	0
neos-584851	70.58	50116	1864	-11	1
neos-709469	40.33	92535	3701	493.16	1
neos-777800	302.22	407870	493	-80	1
neos-785899	669.12	550661	11478	101	1
neos-785914	1384.53	1746140	6741	38	1
neos-801834	1323.95	156498	2445	50386	1
neos-803219	352.39	275479	59975	210.3	1
neos-803220	730.86	607828	147221	195.4	1
neos-806323	1799.58	1157741	234511	239.4	0
neos-807639	1800.05	624312	118358	454.2	0
neos-807705	1104.22	910045	164361	342.4	1
neos-810286	151.93	38471	65	2877	1
nug08	93.58	35804	145	214	1
nw04	153.95	4298	319	16862	1
p0033	0.11	1680	827	3089	1
p0201	3.82	12129	1040	7615	1
p0282	41.79	19853	3703	258411	1
p0291	0.14	1140	251	5223.75	1
p0548	2.82	4120	419	8691	1
p2756	57.3	23138	4578	3124	1
pipex	1.66	14695	5701	788.26	1
pp08a	872.92	515883	71946	7350	1
qap10	554.65	202529	141	340	1
qnet1	1799.9	3776050	111540	not	0
qnet1_o	41.84	58449	1774	16029.69	1
ran10x10a	86.39	221088	88911	1499	1
ran10x10b	22.53	60893	21921	3073	1
ran10x12	14.19	31216	10203	2714	1
ran4x64	10.06	20208	7187	9711	1
ran6x43	1.79	3284	958	6330	1
rentacar	5.91	5997	52	30356760.98	1
rgn	12.3	24783	4693	82.2	1
roy	2.59	6902	2990	3208.96	1
set1al	1.7	645	25	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.6	20456	3226	18	1
stein45	395.26	346143	58101	30	1
stein9	0.01	296	6	5	1
Test3	1800	-1	-1	-1	0
vpml	0.78	1465	43	20	1

Table 38: $BrF - Lf - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	9.46	7170	137	21477	1
23588	147.71	72389	7303	8090	1
10teams	159.59	222975	1318	924	1
air06	28.14	11427	31	49649	1
bal8x12	0.69	1603	165	471.55	1
bell3b	33.65	37380	24223	11786160.62	1
bienst1	1561.79	4223919	34636	46.75	1
blend2	40.14	71420	29164	7.6	1
bm23	0.12	1698	552	34	1
dano3_3	103.69	45616	68	576.34	1
dano3_4	185.85	82404	154	576.44	1
dano3_5	1800.98	783900	2405	576.92	0

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Table 38 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	13.68	11491	511	188182	1
dsbmp	7.27	3182	60	-305.2	1
egout	0.1	577	17	568.1	1
eilD76	1219.86	723794	25321	885.41	1
enigma	115.86	1025481	135236	0	1
fiber	200.64	116031	14610	405935.18	1
fixnet4	15.88	14248	905	8936	1
fixnet6	38.79	36354	4256	3983	1
flugpl	0.77	2929	3352	1201500	1
gen	4	8206	433	112313.36	1
gr4x6	0.09	699	107	202.35	1
gt2	3.37	10241	2453	21166	1
irp	51.87	4720	335	12159.49	1
khb05250	1.86	2766	66	106940226	1
l152lav	202.42	95524	6482	4722	1
lseu	17.35	101939	47818	1120	1
mas284	155.27	247282	55707	91405.72	1
misc01	0.46	3976	567	563.5	1
misc02	0.1	1148	115	1690	1
misc03	13.38	35683	3157	3360	1
misc04	2.18	2760	13	2666.7	1
misc05	1.63	4235	379	2984.5	1
misc06	0.76	1981	39	12850.86	1
misc07	1177.11	1061686	93612	2810	1
mod008	20.52	40396	17642	307	1
mod013	0.58	2022	589	280.95	1
neos-506422	1799.92	1347828	25027	140	0
neos-584851	70.26	50116	1864	-11	1
neos-709469	1218.27	2918591	128410	493.16	1
neos-777800	1791.34	1068025	2241	not	0
neos-785899	711.93	558360	11600	101	1
neos-785914	1799.36	1598512	6025	not	0
neos-801834	1108.05	106403	1742	50386	1
neos-803219	409.86	313841	67293	210.3	1
neos-803220	858.8	602654	146522	195.4	1
neos-806323	868.78	607907	91398	215	1
neos-807639	1793.24	632134	114188	454.2	0
neos-807705	1408.93	1076117	187738	342.4	1
neos-810286	154.37	38471	65	2877	1
nug08	87.45	35266	115	214	1
nw04	70.44	1927	135	16862	1
p0033	0.05	1008	377	3089	1
p0201	4.51	13631	1130	7615	1
p0282	63.16	26714	4527	258411	1
p0291	0.18	1426	350	5223.75	1
p0548	2.8	4301	358	8691	1
p2756	19.51	5578	919	3124	1
pipex	0.73	6409	2146	788.26	1
pp08a	1195.59	620758	81049	7350	1
qap10	596.44	319034	151	340	1
qnet1	69.76	84086	2545	16029.69	1
qnet1_o	63.73	92234	2324	16029.69	1
ran10x10a	29.55	66203	25687	1499	1
ran10x10b	6.78	17681	5627	3073	1
ran10x12	19.24	36239	11515	2714	1
ran4x64	2.28	3990	1422	9711	1
ran6x43	1.86	2946	901	6330	1
rentacar	19.39	22616	172	30356760.98	1
rgn	12.07	24851	4702	82.2	1
roy	2.69	7308	3046	3208.96	1
set1al	1.74	722	49	15869.75	1
stein15	1.26	5130	79	9	1
stein27	12.61	20456	3226	18	1
stein45	400.4	336796	56326	30	1
stein9	0.02	296	6	5	1
Test3	1800.17	306133	3397	not	0
vpml	1.35	2632	209	20	1

Table 39: $BrF - E - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	9.84	7839	147	21477	1
23588	337.99	177707	15663	8090	1
10teams	1799.45	1385193	11443	not	0
air06	19.78	10040	12	49649	1
bal8x12	0.69	1654	157	471.55	1
bell3b	1799.44	1890032	1186334	not	0
bienst1	1709.99	4514407	37085	46.75	1
blend2	1800.17	5740868	1150444	not	0
bm23	0.49	7639	1922	34	1
dano3.3	543.36	239173	257	576.34	1
dano3.4	1802.49	821819	899	577.56	0
dano3.5	1804.39	788787	657	not	0
dcmulti	566.57	424003	39323	188182	1
dsbmip	29.85	20075	902	-305.2	1
egout	0.11	595	17	568.1	1
eilD76	1302.6	703220	24599	885.41	1
enigma	125.91	983135	134344	0	1
fiber	254.84	153975	18349	405935.18	1
fixnet4	183.31	156404	14141	8936	1
fixnet6	273.26	277980	28845	3983	1
flugpl	0.74	2654	3125	1201500	1
gen	8.2	18461	981	112313.36	1
gr4x6	0.08	642	77	202.35	1
gt2	35.01	161079	19681	21166	1
irp	52.5	6195	356	12159.49	1
khh05250	9.1	13117	719	106940226	1
l152lav	189.13	88840	5984	4722	1
lseu	23.21	145305	62635	1120	1
mas284	329.55	506612	116185	91405.72	1
misc01	0.45	4007	561	563.5	1
misc02	0.1	1174	117	1690	1
misc03	12.84	34642	3061	3360	1
misc04	3.12	4078	39	2666.7	1
misc05	2.02	5393	507	2984.5	1
misc06	1.31	2753	123	12850.86	1
misc07	1149.84	1054349	93015	2810	1
mod008	15.11	36541	13016	307	1
mod013	0.55	1909	547	280.95	1
neos-506422	1800.32	1415743	20907	310	0
neos-584851	70.68	50863	1879	-11	1
neos-709469	1799.64	4079977	199772	not	0
neos-777800	1799.93	118706	2307	not	0
neos-785899	1800.09	1190620	17599	not	0
neos-785914	1799.77	1121986	5730	not	0
neos-801834	872.53	90664	1471	50386	1
neos-803219	803.47	605616	121759	210.3	1
neos-803220	1048.75	784502	182827	195.4	1
neos-806323	1391.97	1456370	126085	not	0
neos-807639	1800.21	860850	101826	496.9	0
neos-807705	1799.59	1966481	225781	not	0
neos-810286	1800.29	116100	960	not	0
nug08	87.12	34955	115	214	1
nw04	44.16	1392	81	16862	1
p0033	0.09	1755	563	3089	1
p0201	3.86	12009	946	7615	1
p0282	1799.93	625534	93520	299292	0
p0291	0.17	1612	257	5223.75	1
p0548	41.97	54577	10372	8691	1
p2756	624.16	295932	34286	3124	1
pipex	3.68	30261	9813	788.26	1
pp08a	1799.95	1498992	105481	not	0
qap10	629.43	306998	156	340	1
qnet1	1800.26	2799999	51312	25694.74	0
qnet1.o	1800.12	2917818	57227	not	0
ran10x10a	66.9	143874	55047	1499	1
ran10x10b	12.95	36337	10125	3073	1
ran10x12	40.68	75037	24187	2714	1
ran4x64	1.59	3714	907	9711	1
ran6x43	14.89	27521	7517	6330	1
rentacar	144.65	178288	1705	30356760.98	1
rgn	11.82	24936	4707	82.2	1
roy	14.72	36265	16765	3208.96	1

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Table 39 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1a1	1.85	838	133	15869.75	1
stein15	1.27	5125	78	9	1
stein27	12.77	20461	3225	18	1
stein45	427.91	346509	58054	30	1
stein9	0.01	320	7	5	1
Test3	1800.24	421931	2321	not	0
vpm1	1.88	3487	383	20	1

Table 40: $BrF - BPrA_0 - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	9.49	7127	134	21477	1
23588	155.53	78717	7364	8090	1
10teams	161.33	219596	1269	924	1
air06	28.06	11427	31	49649	1
bal8x12	0.68	1603	165	471.55	1
bell3b	33.03	36672	23821	11786160.62	1
bienst1	1514.17	4222921	34625	46.75	1
blend2	25.65	55025	18671	7.6	1
bm23	0.12	1681	541	34	1
dano3_3	103.98	45616	68	576.34	1
dano3_4	174.94	78626	122	576.44	1
dano3_5	1702.17	741442	2092	576.92	1
dcmulti	14.55	12185	587	188182	1
dsbmip	7.2	3182	60	-305.2	1
egout	0.1	571	14	568.1	1
eilD76	1100.27	719230	24983	885.41	1
enigma	116.63	1020509	134457	0	1
fiber	235.29	132891	16489	405935.18	1
fixnet4	13.86	13649	766	8936	1
fixnet6	31.02	30671	3404	3983	1
flugpl	0.8	2929	3351	1201500	1
gen	3.72	7958	368	112313.36	1
gr4x6	0.09	697	100	202.35	1
gt2	3.32	10241	2453	21166	1
irp	52.07	4720	335	12159.49	1
khh05250	2.26	3207	113	106940226	1
l152lav	192.4	95093	6231	4722	1
lseu	17.27	100737	46008	1120	1
mas284	180.88	284255	62598	91405.72	1
misc01	0.46	3976	567	563.5	1
misc02	0.1	1148	115	1690	1
misc03	13.26	35678	3156	3360	1
misc04	2.24	2760	13	2666.7	1
misc05	1.61	4235	379	2984.5	1
misc06	0.77	1981	39	12850.86	1
misc07	1217.94	1061640	93572	2810	1
mod008	17.01	37338	14581	307	1
mod013	0.54	1921	544	280.95	1
neos-506422	1800.2	1358803	20578	195	0
neos-584851	70.58	50116	1864	-11	1
neos-709469	1217.52	2918591	128410	493.16	1
neos-777800	1801	1070910	2253	not	0
neos-785899	689.68	558360	11600	101	1
neos-785914	1799.71	1612008	6081	not	0
neos-801834	1082.16	106403	1742	50386	1
neos-803219	414.46	314775	66901	210.3	1
neos-803220	1005.81	703534	166243	195.4	1
neos-806323	693.84	593541	68322	215	1
neos-807639	1799.36	625320	106445	454.2	0
neos-807705	1800.6	1483669	198215	353.8	0
neos-810286	151.79	38471	65	2877	1
nug08	93.44	35266	115	214	1
nw04	69.66	1927	135	16862	1
p0033	0.06	1008	377	3089	1
p0201	4.51	13989	1113	7615	1
p0282	60.14	28174	4597	258411	1
p0291	0.25	1998	469	5223.75	1

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Table 40 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	2.79	4276	339	8691	1
p2756	21.8	7323	1114	3124	1
pipeX	0.82	7240	2425	788.26	1
pp08a	1215.58	761246	83225	7350	1
qap10	674.11	319034	151	340	1
qnet1	74.45	92409	2389	16029.69	1
qnet1.o	91.79	138196	3257	16029.69	1
ran10x10a	21.69	52769	17296	1499	1
ran10x10b	6.28	16503	5132	3073	1
ran10x12	15.83	29405	8919	2714	1
ran4x64	2	3487	1246	9711	1
ran6x43	2.25	3960	1143	6330	1
rentacar	18.64	21400	160	30356760.98	1
rgn	12.44	24832	4701	82.2	1
roy	2.84	7310	3035	3208.96	1
set1al	1.77	722	49	15869.75	1
stein15	1.3	5130	79	9	1
stein27	12.81	20456	3226	18	1
stein45	408.85	336813	56327	30	1
stein9	0.01	296	6	5	1
Test3	1800.36	305821	3368	not	0
vpml	1.38	2632	209	20	1

Table 41: $BrF - DExA - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	9.63	7170	137	21477	1
23588	159.55	71950	7250	8090	1
10teams	170.84	218815	1270	924	1
air06	28.27	11427	31	49649	1
bal8x12	0.66	1554	144	471.55	1
bell3b	33.37	36434	23701	11786160.62	1
bienst1	1556.62	4223919	34636	46.75	1
blend2	20.43	36167	16033	7.6	1
bm23	0.12	1698	552	34	1
dano3_3	199.56	87618	65	576.34	1
dano3_4	243.22	110187	108	576.44	1
dano3_5	1800.15	752782	1406	577.02	0
dcmulti	13.35	11484	502	188182	1
dsbmp	7.12	3182	60	-305.2	1
egout	0.11	577	17	568.1	1
eilD76	1189.18	723778	25316	885.41	1
enigma	114.18	1025481	135236	0	1
fiber	198.84	114979	14451	405935.18	1
fixnet4	15.67	14221	899	8936	1
fixnet6	37.32	35562	4096	3983	1
flugpl	0.75	2748	3223	1201500	1
gen	3.98	8197	432	112313.36	1
gr4x6	0.09	699	107	202.35	1
gt2	3.27	9923	2300	21166	1
irp	39.23	4424	251	12159.49	1
khh05250	1.82	2766	66	106940226	1
l152lav	204.76	95877	6459	4722	1
lseu	19	104957	48488	1120	1
mas284	154.57	251498	56760	91405.72	1
misc01	0.45	3976	567	563.5	1
misc02	0.1	1148	115	1690	1
misc03	13.03	35345	3104	3360	1
misc04	2.19	2760	13	2666.7	1
misc05	1.64	4235	379	2984.5	1
misc06	0.78	1981	39	12850.86	1
misc07	1290.75	1060918	93536	2810	1
mod008	14.98	34704	12929	307	1
mod013	0.58	2022	589	280.95	1
neos-506422	1799.42	1326995	24209	140	0
neos-584851	70.1	50116	1864	-11	1
neos-709469	1200.92	2884780	127046	493.16	1
neos-777800	1800.24	1050938	2203	not	0

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Table 41 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	641.46	558360	11600	101	1
neos-785914	1800.5	1678614	6351	not	0
neos-801834	974.87	101226	1527	50386	1
neos-803219	411.85	312805	67038	210.3	1
neos-803220	881.93	602605	146499	195.4	1
neos-806323	898.65	637989	95647	215	1
neos-807639	1800.07	633655	114502	454.2	0
neos-807705	1369.13	1073884	187236	342.4	1
neos-810286	150.36	38471	65	2877	1
nug08	82.35	35266	115	214	1
nw04	68.42	1927	135	16862	1
p0033	0.05	1008	377	3089	1
p0201	4.41	13608	1126	7615	1
p0282	64.99	28340	4769	258411	1
p0291	0.18	1426	350	5223.75	1
p0548	2.76	4301	358	8691	1
p2756	18.55	5428	899	3124	1
pipeX	0.71	6327	2123	788.26	1
pp08a	1221.96	620699	81037	7350	1
qap10	622.97	319034	151	340	1
qnet1	61.37	76605	2283	16029.69	1
qnet1.o	55	82089	2044	16029.69	1
ran10x10a	26.01	58788	23069	1499	1
ran10x10b	6.08	16197	5090	3073	1
ran10x12	17.92	34595	10967	2714	1
ran4x64	2.1	3810	1335	9711	1
ran6x43	1.92	3317	901	6330	1
rentacar	19.1	22616	172	30356760.98	1
rgn	11.92	24851	4702	82.2	1
roy	2.62	7076	2938	3208.96	1
set1al	1.74	722	49	15869.75	1
stein15	1.25	5130	79	9	1
stein27	12.52	20456	3226	18	1
stein45	397.37	336796	56326	30	1
stein9	0.02	296	6	5	1
Test3	1800.35	301158	3024	not	0
vpml	1.02	2017	112	20	1

Table 42: $BrF - PCA - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	10.06	7839	147	21477	1
23588	327.93	180414	16183	8090	1
10teams	158.27	222975	1318	924	1
air06	27.11	11427	31	49649	1
bal8x12	0.68	1593	163	471.55	1
bell3b	31.49	35804	23237	11786160.62	1
bienst1	1707.14	4498384	37033	46.75	1
blend2	25.95	77124	17163	7.6	1
bm23	0.17	2598	657	34	1
dano3_3	540.88	239173	257	576.34	1
dano3_4	1801.56	823281	901	577.56	0
dano3_5	1800.15	798563	665	not	0
dcmulti	14.1	11491	511	188182	1
dsbmip	18.25	9873	451	-305.2	1
egout	0.11	577	17	568.1	1
eilD76	1392.16	723775	25320	885.41	1
enigma	106.82	903994	117405	0	1
fiber	213.29	116012	14603	405935.18	1
fixnet4	14.31	14424	679	8936	1
fixnet6	67.87	73865	6873	3983	1
flugpl	0.74	2635	3107	1201500	1
gen	4.05	8206	433	112313.36	1
gr4x6	0.09	699	107	202.35	1
gt2	1.07	6092	426	21166	1
irp	52.76	4720	335	12159.49	1
khb05250	1.92	2766	66	106940226	1
l152lav	211.13	95524	6482	4722	1

Continued on next page

Table 42 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	22.2	143733	56217	1120	1
mas284	336.46	506612	116185	91405.72	1
misc01	0.45	4007	561	563.5	1
misc02	0.1	1174	117	1690	1
misc03	12.77	34242	3029	3360	1
misc04	3.17	4078	39	2666.7	1
misc05	2.05	5393	507	2984.5	1
misc06	1	2363	71	12850.86	1
misc07	1145.57	1054349	93015	2810	1
mod008	19.9	40396	17642	307	1
mod013	0.58	2012	584	280.95	1
neos-506422	1799.19	1406528	19818	274	0
neos-584851	71.33	50863	1879	-11	1
neos-709469	1200.15	2918591	128410	493.16	1
neos-777800	1800.34	1048856	2192	not	0
neos-785899	692.24	558360	11600	101	1
neos-785914	1800.64	1678933	6352	not	0
neos-801834	1123.29	106403	1742	50386	1
neos-803219	420	313841	67293	210.3	1
neos-803220	1009.38	704598	166025	195.4	1
neos-806323	864.88	607907	91398	215	1
neos-807639	1800.16	703831	106215	458.1	0
neos-807705	1799.63	1682965	199807	371.8	0
neos-810286	153.4	38471	65	2877	1
nug08	87.94	35266	115	214	1
nw04	70.58	1927	135	16862	1
p0033	0.07	1258	435	3089	1
p0201	4.43	13631	1130	7615	1
p0282	60.97	29312	4624	258411	1
p0291	0.18	1426	350	5223.75	1
p0548	2.72	4245	347	8691	1
p2756	22.37	6613	1188	3124	1
pipex	0.71	6409	2146	788.26	1
pp08a	1107.79	620758	81049	7350	1
qap10	589.62	319034	151	340	1
qnet1	1800.22	2718836	49662	25694.74	0
qnet1.o	1800.06	2840605	55649	not	0
ran10x10a	29.51	65018	25248	1499	1
ran10x10b	6.77	17540	5597	3073	1
ran10x12	19.49	35730	11331	2714	1
ran4x64	2.18	3655	1331	9711	1
ran6x43	1.62	2778	713	6330	1
rentacar	56.08	68196	503	30356760.98	1
rgn	12.58	24874	4699	82.2	1
roy	14.36	34029	15875	3208.96	1
set1al	1.76	701	33	15869.75	1
stein15	1.29	5130	79	9	1
stein27	12.9	20456	3226	18	1
stein45	408.69	336796	56326	30	1
stein9	0.01	296	6	5	1
Test3	1800.26	435584	2560	not	0
vpm1	1.32	2560	192	20	1

Table 43: $BrF - BPrA_1 - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	9.18	7095	117	21477	1
23588	147.69	71694	6699	8090	1
10teams	143.94	183533	930	924	1
air06	28.05	11427	31	49649	1
bal8x12	0.93	2286	263	471.55	1
bell3b	1800.44	1871912	1161533	not	0
bienst1	1596.1	4383445	35715	46.75	1
blend2	1800.17	6509934	1092141	not	0
bm23	0.12	1698	552	34	1
dano3.3	196.7	83850	53	576.34	1
dano3.4	1202.38	541564	481	576.44	1
dano3.5	1802.87	749660	2223	577.02	0

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Table 43 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	15.26	13037	597	188182	1
dsbmip	10.64	5979	175	-305.2	1
egout	0.11	588	17	568.1	1
eilD76	1354.37	709839	24412	885.41	1
enigma	104.03	903994	117405	0	1
fiber	343.56	179940	22929	405935.18	1
fixnet4	63.83	63277	4557	8936	1
fixnet6	96.95	114421	10095	3983	1
flugpl	0.79	2929	3351	1201500	1
gen	7.23	16298	847	112313.36	1
gr4x6	0.08	613	65	202.35	1
gt2	3.38	10241	2453	21166	1
irp	45.82	4465	290	12159.49	1
khh05250	2.52	3511	135	106940226	1
l152lav	199.12	93960	6163	4722	1
lseu	17.67	99253	44122	1120	1
mas284	155.61	247836	55805	91405.72	1
misc01	0.44	3965	561	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.79	34787	3025	3360	1
misc04	2.14	2760	13	2666.7	1
misc05	1.98	5263	479	2984.5	1
misc06	0.76	2007	40	12850.86	1
misc07	1159.63	1056017	93137	2810	1
mod008	14.46	36182	12260	307	1
mod013	0.55	1927	531	280.95	1
neos-506422	1799.85	1439245	21018	140	0
neos-584851	69.34	50116	1864	-11	1
neos-709469	1799.62	4084088	200035	not	0
neos-777800	1800.7	1044425	2186	not	0
neos-785899	752.03	569463	11774	101	1
neos-785914	1800.36	1691614	6401	not	0
neos-801834	1068.23	101418	1570	50386	1
neos-803219	655.16	492593	96671	210.3	1
neos-803220	1044.74	740187	169889	195.4	1
neos-806323	726.38	662703	71855	215	1
neos-807639	1800.32	648117	105431	454.2	0
neos-807705	1800.6	1690708	201491	371.6	0
neos-810286	152.29	38471	65	2877	1
nug08	89.23	35266	115	214	1
nw04	45.91	1450	85	16862	1
p0033	0.09	1654	507	3089	1
p0201	4.72	14545	1198	7615	1
p0282	1799.95	585040	102150	284089	0
p0291	0.24	2335	393	5223.75	1
p0548	13.23	20547	2926	8691	1
p2756	50.72	22201	2450	3124	1
pipex	2.61	22109	7061	788.26	1
pp08a	1799.34	1312567	90066	not	0
qap10	616.67	318863	149	340	1
qnet1	232.09	357440	6018	16029.69	1
qnet1_o	1800.28	2986675	55951	not	0
ran10x10a	47.66	108714	39611	1499	1
ran10x10b	13.84	42835	9929	3073	1
ran10x12	21.59	45808	13331	2714	1
ran4x64	1.59	4113	865	9711	1
ran6x43	1.97	3968	969	6330	1
rentacar	16.61	20407	145	30356760.98	1
rgn	11.74	25187	4723	82.2	1
roy	6.2	16309	6975	3208.96	1
set1al	1.72	722	49	15869.75	1
stein15	1.25	5130	79	9	1
stein27	12.32	20456	3226	18	1
stein45	404.39	336796	56326	30	1
stein9	0.01	296	6	5	1
Test3	1800.44	524323	3231	not	0
vpml	1.33	2627	208	20	1

Table 44: $BeF - Lf - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.23	6194	86	21477	1
23588	116.03	57580	5391	8090	1
10teams	156.02	208791	1198	924	1
air06	29.22	12039	34	49649	1
bal8x12	0.68	1603	165	471.55	1
bell3b	32.48	35994	23022	11786160.62	1
bienst1	1500.27	4141982	33449	46.75	1
blend2	19.16	37151	13653	7.6	1
bm23	0.1	1528	447	34	1
dano3_3	100.94	45616	68	576.34	1
dano3_4	182.24	82404	154	576.44	1
dano3_5	1800.14	745915	1968	577.01	0
dcmulti	13.58	11594	489	188182	1
dsbmip	6.76	2965	45	-305.2	1
egout	0.11	577	17	568.1	1
eilD76	1391.62	759373	25620	885.41	1
enigma	134.7	879049	110175	0	1
fiber	366.93	213303	26221	405935.18	1
fixnet4	12.08	11970	737	8936	1
fixnet6	25.18	26587	2963	3983	1
flugpl	0.82	3192	3488	1201500	1
gen	3.33	7091	313	112313.36	1
gr4x6	0.08	671	90	202.35	1
gt2	2.29	8248	1499	21166	1
irp	70.68	6809	476	12159.49	1
khh05250	1.77	2766	66	106940226	1
l152lav	173.09	81295	5494	4722	1
lseu	20.19	90584	41844	1120	1
mas284	195.46	259707	58334	91405.72	1
misc01	0.46	3971	568	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.86	33635	3020	3360	1
misc04	2.19	2760	13	2666.7	1
misc05	1.64	4235	379	2984.5	1
misc06	0.78	1994	37	12850.86	1
misc07	1164.01	1056975	93196	2810	1
mod008	13.93	30587	11549	307	1
mod013	0.58	2024	593	280.95	1
neos-506422	629.57	457420	6672	0	1
neos-584851	70.88	50116	1864	-11	1
neos-709469	242.57	530734	23367	493.16	1
neos-777800	1800.24	1051433	2206	not	0
neos-785899	704.55	621290	12103	101	1
neos-785914	1800.65	1743767	6576	not	0
neos-801834	1144.18	105607	1689	50386	1
neos-803219	416	293374	62489	210.3	1
neos-803220	1134.49	600884	144692	195.4	1
neos-806323	704.16	526414	67929	215	1
neos-807639	1800.28	623859	100121	454.2	0
neos-807705	1800.62	1178321	172008	348	0
neos-810286	158.9	38471	65	2877	1
nug08	94.62	35229	114	214	1
nw04	71.46	1927	135	16862	1
p0033	0.06	1089	454	3089	1
p0201	4.94	14611	1202	7615	1
p0282	54.54	24656	3291	258411	1
p0291	0.15	1273	255	5223.75	1
p0548	3.02	4435	393	8691	1
p2756	19.83	5384	837	3124	1
pipex	0.46	4171	1310	788.26	1
pp08a	1190.17	642657	74759	7350	1
qap10	597.45	316317	145	340	1
qnet1	57.28	63451	1801	16029.69	1
qnet1.o	51.06	65697	1739	16029.69	1
ran10x10a	29.13	62305	22497	1499	1
ran10x10b	7.08	17740	5405	3073	1
ran10x12	12.26	23644	6655	2714	1
ran4x64	2.07	3311	1203	9711	1
ran6x43	1.78	2848	822	6330	1
rentacar	9.47	10326	65	30356760.98	1
rgn	12.99	24827	4702	82.2	1
roy	3.18	8435	3464	3208.96	1

Continued on next page

Table 44 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.74	722	49	15869.75	1
stein15	1.29	5130	79	9	1
stein27	13.1	20456	3226	18	1
stein45	465.14	350668	59146	30	1
stein9	0.02	296	6	5	1
Test3	1799.61	349872	4453	not	0
vpml	1.25	2346	184	20	1

Table 45: $BeF - Lf - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.33	6194	86	21477	1
23588	120	57580	5391	8090	1
10teams	151.13	208791	1198	924	1
air06	29.8	12039	34	49649	1
bal8x12	0.69	1603	165	471.55	1
bell3b	33.08	35994	23022	11786160.62	1
bienst1	1527.64	4141982	33449	46.75	1
blend2	19.33	37151	13653	7.6	1
bm23	0.1	1528	447	34	1
dano3_3	104.43	45616	68	576.34	1
dano3_4	188.94	82404	154	576.44	1
dano3_5	1800.84	754044	2004	577.01	0
dcmulti	14.22	11594	489	188182	1
dsbmip	7.4	2965	45	-305.2	1
egout	0.11	577	17	568.1	1
eilD76	1177.98	759373	25620	885.41	1
enigma	53.33	492117	64893	0	1
fiber	413.71	213303	26221	405935.18	1
fixnet4	14.12	11970	737	8936	1
fixnet6	28.46	26587	2963	3983	1
flugpl	0.83	3192	3488	1201500	1
gen	3.33	7091	313	112313.36	1
gr4x6	0.09	671	90	202.35	1
gt2	2.32	8248	1499	21166	1
irp	74.02	6809	476	12159.49	1
khh05250	1.79	2766	66	106940226	1
l152lav	176.13	81295	5494	4722	1
lseu	22.07	101968	48616	1120	1
mas284	200.25	259707	58334	91405.72	1
misc01	0.48	3971	568	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.92	33635	3020	3360	1
misc04	2.23	2760	13	2666.7	1
misc05	1.67	4235	379	2984.5	1
misc06	0.76	1994	37	12850.86	1
misc07	1199.36	1056975	93196	2810	1
mod008	13.93	30587	11549	307	1
mod013	0.6	2024	593	280.95	1
neos-506422	635.92	457420	6672	0	1
neos-584851	71.69	50116	1864	-11	1
neos-709469	243.32	530734	23367	493.16	1
neos-777800	1800.41	1037953	2169	not	0
neos-785899	812.58	621290	12103	101	1
neos-785914	1801.07	1600665	6029	not	0
neos-801834	1072.01	105607	1689	50386	1
neos-803219	417.93	293374	62489	210.3	1
neos-803220	968.2	590672	142883	195.4	1
neos-806323	723.42	526414	67929	215	1
neos-807639	1799.99	633580	102853	454.2	0
neos-807705	1800.59	1216554	214000	342.4	0
neos-810286	157.31	38471	65	2877	1
nug08	90.66	35229	114	214	1
nw04	71.78	1927	135	16862	1
p0033	0.07	1089	454	3089	1
p0201	4.82	14611	1202	7615	1
p0282	51.38	24656	3291	258411	1
p0291	0.16	1273	255	5223.75	1

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Table 45 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	2.97	4435	393	8691	1
p2756	19.01	5384	837	3124	1
pipeX	0.47	4171	1310	788.26	1
pp08a	1176.43	642657	74759	7350	1
qap10	593.32	316317	145	340	1
qnet1	51.22	63451	1801	16029.69	1
qnet1.o	45.65	65697	1739	16029.69	1
ran10x10a	27.28	62305	22497	1499	1
ran10x10b	6.63	17740	5405	3073	1
ran10x12	11.5	23644	6655	2714	1
ran4x64	2	3311	1203	9711	1
ran6x43	1.7	2848	822	6330	1
rentacar	9.05	10326	65	30356760.98	1
rgn	12.15	24827	4702	82.2	1
roy	3.15	8435	3464	3208.96	1
set1al	1.73	722	49	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.72	20456	3226	18	1
stein45	447.15	350668	59146	30	1
stein9	0.02	296	6	5	1
Test3	1800.39	341803	3912	not	0
vpml	1.26	2346	184	20	1

Table 46: $BeF - E - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.92	5971	59	21477	1
23588	116.53	63463	4291	8090	1
10teams	1799.76	1398968	11501	not	0
air06	21.76	10739	15	49649	1
bal8x12	0.68	1721	133	471.55	1
bell3b	64.55	69143	30933	11786160.62	1
bienst1	1543.1	4090030	32385	46.75	1
blend2	6.22	17428	3812	7.6	1
bm23	0.1	1546	395	34	1
dano3_3	183.98	81849	45	576.34	1
dano3_4	252.98	115440	75	576.44	1
dano3_5	1803.72	772737	633	not	0
dcmulti	14.47	17389	389	188182	1
dsbmip	7.75	3878	80	-305.2	1
egout	0.11	576	13	568.1	1
eilD76	1139	709093	21779	885.41	1
enigma	214.95	817463	96414	0	1
fiber	1186.38	716883	63047	405935.18	1
fixnet4	16.23	18914	599	8936	1
fixnet6	28.26	37676	2197	3983	1
flugpl	0.77	2853	3159	1201500	1
gen	3.38	8091	265	112313.36	1
gr4x6	0.08	599	55	202.35	1
gt2	20.4	93812	10373	21166	1
irp	87.26	10455	487	12159.49	1
khh05250	1.79	3013	55	106940226	1
l152lav	241.72	131115	6389	4722	1
lseu	67.63	160223	52891	1120	1
mas284	318.3	409852	66107	91405.72	1
misc01	0.48	4189	575	563.5	1
misc02	0.1	1179	113	1690	1
misc03	13.03	35412	2935	3360	1
misc04	2.44	3240	13	2666.7	1
misc05	1.71	4484	381	2984.5	1
misc06	0.76	2063	27	12850.86	1
misc07	1272.26	1061987	93293	2810	1
mod008	12.19	29506	9845	307	1
mod013	0.53	1881	509	280.95	1
neos-506422	275.52	206210	1698	0	1
neos-584851	72.76	53371	1865	-11	1
neos-709469	242.19	516303	22506	493.16	1
neos-777800	1800.01	116714	2271	not	0

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Table 46 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	1307.83	1037448	13193	101	1
neos-785914	1799.84	1160295	5909	not	0
neos-801834	925.48	102560	1453	50386	1
neos-803219	468.81	391697	61599	210.3	1
neos-803220	1327.53	718116	144323	195.4	1
neos-806323	387.88	400474	29889	215	1
neos-807639	1800.11	726246	93653	454.2	0
neos-807705	1799.62	1357439	146551	347.3	0
neos-810286	1754.72	113079	939	not	0
nug08	89	34874	113	214	1
nw04	43.5	1392	81	16862	1
p0033	0.06	1210	409	3089	1
p0201	4.93	16540	1022	7615	1
p0282	42.67	30395	2033	258411	1
p0291	0.14	1523	163	5223.75	1
p0548	3.29	5579	396	8691	1
p2756	11.05	4022	222	3124	1
pipeX	0.4	4048	897	788.26	1
pp08a	1101.26	747584	53361	7350	1
qap10	575.83	302407	146	340	1
qnet1	34.75	49421	816	16029.69	1
qnet1.o	41.5	69113	856	16029.69	1
ran10x10a	14.03	33210	9343	1499	1
ran10x10b	3.68	9814	2865	3073	1
ran10x12	3.51	7442	1911	2714	1
ran4x64	0.7	1753	353	9711	1
ran6x43	1.22	2514	505	6330	1
rentacar	6.76	7120	41	30356760.98	1
rgn	13.16	25598	4807	82.2	1
roy	2.88	8324	2829	3208.96	1
set1al	1.7	700	25	15869.75	1
stein15	1.28	5124	77	9	1
stein27	13.02	20461	3223	18	1
stein45	486.75	349595	55959	30	1
stein9	0.02	320	7	5	1
Test3	1799.81	552552	5464	not	0
vpml	1.26	2514	187	20	1

Table 47: $BeF - E - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.94	5971	59	21477	1
23588	117.2	63463	4291	8090	1
10teams	1800.54	1492582	12220	not	0
air06	21.93	10739	15	49649	1
bal8x12	0.7	1721	133	471.55	1
bell3b	50.17	54944	30401	11786160.62	1
bienst1	1499.01	4090030	32385	46.75	1
blend2	6.44	17428	3812	7.6	1
bm23	0.1	1546	395	34	1
dano3_3	193.33	81849	45	576.34	1
dano3_4	255.54	115440	75	576.44	1
dano3_5	1801	778175	637	not	0
dcmulti	13.4	11594	489	188182	1
dsbmip	7.9	3878	80	-305.2	1
egout	0.1	576	13	568.1	1
eilD76	1108.61	709093	21779	885.41	1
enigma	38.66	350109	47886	0	1
fiber	1225.24	716883	63047	405935.18	1
fixnet4	14.9	18914	599	8936	1
fixnet6	27.81	37676	2197	3983	1
flugpl	0.9	3483	3678	1201500	1
gen	3.45	8091	265	112313.36	1
gr4x6	0.09	681	94	202.35	1
gt2	19.76	86880	9800	21166	1
irp	86.67	10455	487	12159.49	1
khb05250	1.82	3013	55	106940226	1
l152lav	255.42	131115	6389	4722	1

Continued on next page

Table 47 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	19.24	101732	47230	1120	1
mas284	213.21	298269	62345	91405.72	1
misc01	0.47	4189	575	563.5	1
misc02	0.11	1179	113	1690	1
misc03	12.9	35412	2935	3360	1
misc04	2.49	3240	13	2666.7	1
misc05	1.71	4484	381	2984.5	1
misc06	0.8	2057	42	12850.86	1
misc07	1285.18	1061987	93293	2810	1
mod008	12.34	29506	9845	307	1
mod013	0.59	2050	592	280.95	1
neos-506422	257.9	206210	1698	0	1
neos-584851	73.88	53371	1865	-11	1
neos-709469	245.2	516303	22506	493.16	1
neos-777800	1800.07	116780	2273	not	0
neos-785899	1236.33	1037448	13193	101	1
neos-785914	1800.62	1111123	5678	not	0
neos-801834	923.19	102560	1453	50386	1
neos-803219	429.43	336804	60600	210.3	1
neos-803220	896.39	584466	133653	195.4	1
neos-806323	394.45	400474	29889	215	1
neos-807639	1800.33	692727	93232	454.2	0
neos-807705	1800.62	1199202	208249	342.4	0
neos-810286	1800.22	114812	951	not	0
nug08	86.55	34874	113	214	1
nw04	43.96	1392	81	16862	1
p0033	0.06	1210	409	3089	1
p0201	4.93	16540	1022	7615	1
p0282	41.57	30395	2033	258411	1
p0291	0.14	1523	163	5223.75	1
p0548	2.94	4435	393	8691	1
p2756	11.1	4022	222	3124	1
pipex	0.4	4048	897	788.26	1
pp08a	1054.65	679441	56499	7350	1
qap10	609.94	302407	146	340	1
qnet1	34.76	49421	816	16029.69	1
qnet1.o	41.03	69113	856	16029.69	1
ran10x10a	17.23	39393	12615	1499	1
ran10x10b	3.74	9814	2865	3073	1
ran10x12	3.63	7442	1911	2714	1
ran4x64	2.02	3296	1165	9711	1
ran6x43	1.24	2514	505	6330	1
rentacar	6.83	7120	41	30356760.98	1
rgn	13.11	25598	4807	82.2	1
roy	2.94	8324	2829	3208.96	1
set1al	1.74	700	25	15869.75	1
stein15	1.3	5124	77	9	1
stein27	13.08	20461	3223	18	1
stein45	462.52	339789	56209	30	1
stein9	0.01	320	7	5	1
Test3	1799.96	557553	5618	not	0
vpm1	1.29	2514	187	20	1

Table 48: $BeF - BPrA_0 - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.28	6165	84	21477	1
23588	121.08	56216	5212	8090	1
10teams	161.25	205733	1152	924	1
air06	30.62	12039	34	49649	1
bal8x12	0.7	1603	165	471.55	1
bell3b	31.93	34154	21683	11786160.62	1
bienst1	1475.7	4025000	32457	46.75	1
blend2	17.3	34469	12175	7.6	1
bm23	0.1	1528	447	34	1
dano3_3	104.99	45616	68	576.34	1
dano3_4	178.14	78626	122	576.44	1
dano3_5	1802.61	752943	1672	577.06	0

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Table 48 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	13.92	11416	476	188182	1
dsbmip	7.14	2965	45	-305.2	1
egout	0.1	571	14	568.1	1
eilD76	1393.34	756015	25331	885.41	1
enigma	144.85	862316	107699	0	1
fiber	424.99	228706	27561	405935.18	1
fixnet4	12.76	11970	737	8936	1
fixnet6	26.68	26612	2950	3983	1
flugpl	0.83	3192	3488	1201500	1
gen	3.27	6933	287	112313.36	1
gr4x6	0.08	643	71	202.35	1
gt2	2.33	8248	1499	21166	1
irp	72.97	6809	476	12159.49	1
khb05250	1.84	2932	57	106940226	1
l152lav	170.73	81295	5494	4722	1
lseu	19.28	88662	40855	1120	1
mas284	196.27	267564	57061	91405.72	1
misc01	0.45	3971	568	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.65	33635	3020	3360	1
misc04	2.15	2760	13	2666.7	1
misc05	1.64	4235	379	2984.5	1
misc06	0.76	1994	37	12850.86	1
misc07	1204.32	1056776	93164	2810	1
mod008	12.94	29801	10880	307	1
mod013	0.6	2021	592	280.95	1
neos-506422	634.99	457950	6647	0	1
neos-584851	70.4	50116	1864	-11	1
neos-709469	234.4	530734	23367	493.16	1
neos-777800	1800.88	1059072	2223	not	0
neos-785899	858.65	621290	12103	101	1
neos-785914	1800.46	1794675	6760	not	0
neos-801834	1077.6	105607	1689	50386	1
neos-803219	457.56	366271	61633	210.3	1
neos-803220	1348.79	693089	144290	195.4	1
neos-806323	472.37	405644	42800	215	1
neos-807639	1799.39	679239	91516	458.1	0
neos-807705	1800.59	1221795	148145	355.4	0
neos-810286	153.19	38471	65	2877	1
nug08	83.85	35229	114	214	1
nw04	69.83	1927	135	16862	1
p0033	0.07	1089	454	3089	1
p0201	4.74	14611	1202	7615	1
p0282	55.08	29282	3457	258411	1
p0291	0.14	1341	181	5223.75	1
p0548	2.86	4371	369	8691	1
p2756	11.26	3251	274	3124	1
pipex	0.36	3197	964	788.26	1
pp08a	1139.78	642657	74759	7350	1
qap10	648.93	316317	145	340	1
qnet1	49.82	61574	1715	16029.69	1
qnet1_o	40.96	66655	1254	16029.69	1
ran10x10a	16.36	37258	13341	1499	1
ran10x10b	3.95	10863	3129	3073	1
ran10x12	8.28	17519	4604	2714	1
ran4x64	1.6	2811	995	9711	1
ran6x43	1.66	2848	822	6330	1
rentacar	8.92	10326	65	30356760.98	1
rgn	12.12	24801	4697	82.2	1
roy	2.92	8426	2867	3208.96	1
set1al	1.74	722	49	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.69	20456	3226	18	1
stein45	446.9	350663	59144	30	1
stein9	0.02	296	6	5	1
Test3	1799.66	347305	4278	not	0
vpml	1.22	2346	184	20	1

Table 49: $BcF - BPrA_0 - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.47	6165	84	21477	1
23588	118.36	56216	5212	8090	1
10teams	165.71	205733	1152	924	1
air06	30.73	12039	34	49649	1
bal8x12	0.69	1603	165	471.55	1
bell3b	32.07	34154	21683	11786160.62	1
bienst1	1496.07	4025000	32457	46.75	1
blend2	17.06	34469	12175	7.6	1
bm23	0.1	1528	447	34	1
dano3_3	104.47	45616	68	576.34	1
dano3_4	176.89	78626	122	576.44	1
dano3_5	1801.76	756819	1681	577.06	0
dcmulti	13.66	11416	476	188182	1
dsbmip	7.03	2965	45	-305.2	1
egout	0.1	571	14	568.1	1
eilD76	1233.39	756015	25331	885.41	1
enigma	149.12	1431925	199571	0	1
fiber	425.68	228706	27561	405935.18	1
fixnet4	12.74	11970	737	8936	1
fixnet6	26.73	26612	2950	3983	1
flugpl	0.87	3192	3488	1201500	1
gen	3.26	6933	287	112313.36	1
gr4x6	0.08	643	71	202.35	1
gt2	2.49	8248	1499	21166	1
irp	73.16	6809	476	12159.49	1
khh05250	1.85	2932	57	106940226	1
1152lav	169.38	81295	5494	4722	1
lseu	20.61	101609	48400	1120	1
mas284	211.85	263993	57490	91405.72	1
misc01	0.46	3971	568	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.56	33635	3020	3360	1
misc04	2.09	2760	13	2666.7	1
misc05	1.61	4235	379	2984.5	1
misc06	0.74	1994	37	12850.86	1
misc07	1260.51	1056776	93164	2810	1
mod008	12.64	29801	10880	307	1
mod013	0.58	2021	592	280.95	1
neos-506422	658.79	457950	6647	0	1
neos-584851	68.92	50116	1864	-11	1
neos-709469	233.69	530734	23367	493.16	1
neos-777800	1799.85	1043252	2184	not	0
neos-785899	872.21	621290	12103	101	1
neos-785914	1799.74	1598512	6025	not	0
neos-801834	1094.04	105607	1689	50386	1
neos-803219	459.48	353153	62301	210.3	1
neos-803220	941.58	597632	140171	195.4	1
neos-806323	486.83	405644	42800	215	1
neos-807639	1800.17	675564	95449	454.2	0
neos-807705	1799.64	1261076	207802	342.4	0
neos-810286	160.35	38471	65	2877	1
nug08	92.6	35229	114	214	1
nw04	71.46	1927	135	16862	1
p0033	0.06	1089	454	3089	1
p0201	4.76	14611	1202	7615	1
p0282	54.96	29282	3457	258411	1
p0291	0.14	1341	181	5223.75	1
p0548	2.84	4371	369	8691	1
p2756	11.18	3251	274	3124	1
pipex	0.36	3197	964	788.26	1
pp08a	1228.05	642657	74759	7350	1
qap10	690.92	316317	145	340	1
qnet1	49.91	61574	1715	16029.69	1
qnet1.o	42.84	66655	1254	16029.69	1
ran10x10a	16.79	37258	13341	1499	1
ran10x10b	3.99	10863	3129	3073	1
ran10x12	8.44	17519	4604	2714	1
ran4x64	1.67	2811	995	9711	1
ran6x43	1.74	2848	822	6330	1
rentacar	8.94	10326	65	30356760.98	1
rgn	11.99	24801	4697	82.2	1
roy	2.91	8426	2867	3208.96	1

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Table 49 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.76	722	49	15869.75	1
stein15	1.26	5130	79	9	1
stein27	12.48	20456	3226	18	1
stein45	451.13	350663	59144	30	1
stein9	0.01	296	6	5	1
Test3	1800.16	341270	3882	not	0
vpml	1.23	2346	184	20	1

Table 50: $BeF - DExA - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.27	6194	86	21477	1
23588	119.54	57449	5375	8090	1
10teams	156.17	205292	1162	924	1
air06	29.4	12039	34	49649	1
bal8x12	0.65	1554	144	471.55	1
bell3b	32	34776	22345	11786160.62	1
bienst1	1563.49	4130765	33342	46.75	1
blend2	9.04	15546	6963	7.6	1
bm23	0.1	1528	447	34	1
dano3_3	199.04	87618	65	576.34	1
dano3_4	243.62	110187	108	576.44	1
dano3_5	1801.06	761137	1417	577.03	0
dcmulti	13.79	11587	480	188182	1
dsbmip	7.3	2965	45	-305.2	1
egout	0.11	577	17	568.1	1
eilD76	1402.71	759373	25620	885.41	1
enigma	134.66	878915	110159	0	1
fiber	366.07	210533	25914	405935.18	1
fixnet4	12.27	11943	731	8936	1
fixnet6	24.49	25825	2767	3983	1
flugpl	0.79	2996	3264	1201500	1
gen	3.35	7082	312	112313.36	1
gr4x6	0.09	671	90	202.35	1
gt2	2.29	8196	1473	21166	1
irp	64.14	6378	403	12159.49	1
khh05250	1.8	2766	66	106940226	1
l152lav	155.95	80340	5391	4722	1
lseu	19.27	89443	41310	1120	1
mas284	189.48	260246	58467	91405.72	1
misc01	0.47	3971	568	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.57	33158	2969	3360	1
misc04	2.17	2760	13	2666.7	1
misc05	1.64	4235	379	2984.5	1
misc06	0.76	1994	37	12850.86	1
misc07	1100.72	1056187	93098	2810	1
mod008	12.84	29633	10736	307	1
mod013	0.58	2024	593	280.95	1
neos-506422	617.44	445257	6306	0	1
neos-584851	70.4	50116	1864	-11	1
neos-709469	235.37	523639	23071	493.16	1
neos-777800	1800.8	1066512	2231	not	0
neos-785899	753.62	613996	11861	101	1
neos-785914	1800.58	1763466	6644	not	0
neos-801834	980.88	107275	1482	50386	1
neos-803219	417.74	293490	62473	210.3	1
neos-803220	1135.26	600652	144486	195.4	1
neos-806323	422.97	386534	34421	215	1
neos-807639	1799.22	638894	104364	454.2	0
neos-807705	1799.6	1179289	172197	348	0
neos-810286	150.38	38471	65	2877	1
nug08	79.97	35229	114	214	1
nw04	68.24	1927	135	16862	1
p0033	0.06	1089	454	3089	1
p0201	4.76	14588	1198	7615	1
p0282	49.54	24604	3239	258411	1
p0291	0.15	1273	255	5223.75	1

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Table 50 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	2.9	4435	393	8691	1
p2756	18.13	5234	817	3124	1
pipeX	0.47	4161	1306	788.26	1
pp08a	1171.45	642562	74736	7350	1
qap10	591.72	316317	145	340	1
qnet1	43.63	53472	1415	16029.69	1
qnet1_o	40.54	55326	1461	16029.69	1
ran10x10a	27.72	60738	21541	1499	1
ran10x10b	6.01	15791	4708	3073	1
ran10x12	11.22	22301	6192	2714	1
ran4x64	1.85	3131	1116	9711	1
ran6x43	1.62	2832	752	6330	1
rentacar	9.12	10326	65	30356760.98	1
rgn	12.58	24827	4702	82.2	1
roy	3.04	8180	3354	3208.96	1
set1al	1.72	722	49	15869.75	1
stein15	1.28	5130	79	9	1
stein27	13.07	20456	3226	18	1
stein45	456.94	350668	59146	30	1
stein9	0.01	296	6	5	1
Test3	1801.15	351087	4506	not	0
vpml	1.02	1976	106	20	1

Table 51: $BeF - DExA - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.21	6194	86	21477	1
23588	111.95	57449	5375	8090	1
10teams	152.42	205292	1162	924	1
air06	28.11	12039	34	49649	1
bal8x12	0.64	1554	144	471.55	1
bell3b	30.8	34776	22345	11786160.62	1
bienst1	1560.35	4130765	33342	46.75	1
blend2	9.16	15546	6963	7.6	1
bm23	0.1	1528	447	34	1
dano3_3	199.08	87618	65	576.34	1
dano3_4	248.07	110187	108	576.44	1
dano3_5	1807.72	752050	1392	577.03	0
dcmulti	13.82	11587	480	188182	1
dsbmp	7.2	2965	45	-305.2	1
egout	0.11	577	17	568.1	1
eilD76	1388.23	759373	25620	885.41	1
enigma	44.62	424902	55360	0	1
fiber	389.44	210533	25914	405935.18	1
fixnet4	12.68	11943	731	8936	1
fixnet6	25.34	25825	2767	3983	1
flugpl	0.84	2996	3264	1201500	1
gen	3.38	7082	312	112313.36	1
gr4x6	0.09	671	90	202.35	1
gt2	2.33	8196	1473	21166	1
irp	64.06	6378	403	12159.49	1
khb05250	1.85	2766	66	106940226	1
l152lav	163.05	80340	5391	4722	1
lseu	19.82	97181	46127	1120	1
mas284	193.64	260246	58467	91405.72	1
misc01	0.45	3971	568	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.79	33158	2969	3360	1
misc04	2.22	2760	13	2666.7	1
misc05	1.73	4235	379	2984.5	1
misc06	0.77	1994	37	12850.86	1
misc07	1281.97	1056187	93098	2810	1
mod008	12.74	29633	10736	307	1
mod013	0.6	2024	593	280.95	1
neos-506422	608.03	445257	6306	0	1
neos-584851	70.65	50116	1864	-11	1
neos-709469	237.47	523639	23071	493.16	1
neos-777800	1800.73	1052122	2209	not	0

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Table 51 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	801.3	613996	11861	101	1
neos-785914	1799.7	1740902	6570	not	0
neos-801834	1001.81	107275	1482	50386	1
neos-803219	421.38	293490	62473	210.3	1
neos-803220	979.98	599690	144723	195.4	1
neos-806323	423.82	386534	34421	215	1
neos-807639	1799.21	639413	104536	454.2	0
neos-807705	1614.68	1082654	186812	342.4	1
neos-810286	151.14	38471	65	2877	1
nug08	79.95	35229	114	214	1
nw04	67.55	1927	135	16862	1
p0033	0.06	1089	454	3089	1
p0201	4.75	14588	1198	7615	1
p0282	49.61	24604	3239	258411	1
p0291	0.16	1273	255	5223.75	1
p0548	2.96	4435	393	8691	1
p2756	18.44	5234	817	3124	1
pipeX	0.46	4161	1306	788.26	1
pp08a	1161.62	642562	74736	7350	1
qap10	694.05	316317	145	340	1
qnet1	43.5	53472	1415	16029.69	1
qnet1.o	40.72	55326	1461	16029.69	1
ran10x10a	27.53	60738	21541	1499	1
ran10x10b	6.08	15791	4708	3073	1
ran10x12	11.3	22301	6192	2714	1
ran4x64	1.87	3131	1116	9711	1
ran6x43	1.64	2832	752	6330	1
rentacar	9.23	10326	65	30356760.98	1
rgn	12.64	24827	4702	82.2	1
roy	3.25	8180	3354	3208.96	1
set1al	1.74	722	49	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.82	20456	3226	18	1
stein45	457.98	350668	59146	30	1
stein9	0.02	296	6	5	1
Test3	1800.15	345843	4187	not	0
vpml	1	1976	106	20	1

Table 52: $BeF - PCA - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.83	5971	59	21477	1
23588	109.2	63463	4291	8090	1
10teams	150.55	208791	1198	924	1
air06	29.59	12039	34	49649	1
bal8x12	0.7	1593	163	471.55	1
bell3b	31.13	34093	21915	11786160.62	1
bienst1	1508.24	4090030	32385	46.75	1
blend2	6.06	17539	3841	7.6	1
bm23	0.1	1546	395	34	1
dano3_3	185.05	81849	45	576.34	1
dano3_4	254.39	115440	75	576.44	1
dano3_5	1801.67	773674	634	not	0
dcmulti	13.52	11594	489	188182	1
dsbmip	7.61	3667	76	-305.2	1
egout	0.1	577	17	568.1	1
eilD76	1245.94	759354	25619	885.41	1
enigma	130.52	844792	91307	0	1
fiber	375.39	213284	26214	405935.18	1
fixnet4	12.12	11480	629	8936	1
fixnet6	27.79	37676	2197	3983	1
flugpl	0.76	2853	3159	1201500	1
gen	3.37	7091	313	112313.36	1
gr4x6	0.09	671	90	202.35	1
gt2	0.96	5394	382	21166	1
irp	72.61	6809	476	12159.49	1
khb05250	1.85	2766	66	106940226	1
l152lav	172.46	81295	5494	4722	1

Continued on next page

Table 52 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	64.74	160223	52891	1120	1
mas284	317.61	409852	66107	91405.72	1
misc01	0.47	4189	575	563.5	1
misc02	0.1	1179	113	1690	1
misc03	12.66	35412	2935	3360	1
misc04	2.44	3240	13	2666.7	1
misc05	1.7	4484	381	2984.5	1
misc06	0.76	2063	27	12850.86	1
misc07	1266.92	1061987	93293	2810	1
mod008	13.67	30587	11549	307	1
mod013	0.58	2014	588	280.95	1
neos-506422	246.75	202788	1668	0	1
neos-584851	72.62	53371	1865	-11	1
neos-709469	234.07	530734	23367	493.16	1
neos-777800	1800	1039224	2174	not	0
neos-785899	783.58	621290	12103	101	1
neos-785914	1799.59	1702499	6440	not	0
neos-801834	1086.09	105607	1689	50386	1
neos-803219	414.72	293374	62489	210.3	1
neos-803220	1333.71	718213	144349	195.4	1
neos-806323	719.18	526414	67929	215	1
neos-807639	1793.24	617268	97713	454.2	0
neos-807705	1800.63	1344967	143891	347.3	0
neos-810286	153.92	38471	65	2877	1
nug08	84.99	35229	114	214	1
nw04	70.12	1927	135	16862	1
p0033	0.07	1210	409	3089	1
p0201	4.72	14611	1202	7615	1
p0282	57.3	31992	3553	258411	1
p0291	0.16	1273	255	5223.75	1
p0548	2.87	4379	382	8691	1
p2756	18.89	5384	837	3124	1
pipex	0.48	4171	1310	788.26	1
pp08a	1165.48	642657	74759	7350	1
qap10	670.61	316317	145	340	1
qnet1	34.65	49421	816	16029.69	1
qnet1.o	40.43	69113	856	16029.69	1
ran10x10a	28.38	61676	22340	1499	1
ran10x10b	6.77	17599	5375	3073	1
ran10x12	11.61	23315	6546	2714	1
ran4x64	1.85	2976	1112	9711	1
ran6x43	1.6	2772	726	6330	1
rentacar	6.72	7120	41	30356760.98	1
rgn	12.49	25598	4807	82.2	1
roy	3.13	8324	2829	3208.96	1
set1al	1.74	701	33	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.76	20456	3226	18	1
stein45	450.2	350668	59146	30	1
stein9	0.01	296	6	5	1
Test3	1799.44	558626	5645	not	0
vpm1	1.2	2274	167	20	1

Table 53: $BeF - PCA - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.95	5971	59	21477	1
23588	113.25	63463	4291	8090	1
10teams	140	208791	1198	924	1
air06	29.59	12039	34	49649	1
bal8x12	0.7	1593	163	471.55	1
bell3b	31.64	34093	21915	11786160.62	1
bienst1	1519.53	4090030	32385	46.75	1
blend2	6.05	17539	3841	7.6	1
bm23	0.1	1555	399	34	1
dano3_3	188.91	81849	45	576.34	1
dano3_4	261.75	115440	75	576.44	1
dano3_5	1801.01	784421	643	not	0

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Table 53 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	13.96	11594	489	188182	1
dsbmip	8.18	3667	76	-305.2	1
egout	0.11	577	17	568.1	1
eilD76	1540.32	759354	25619	885.41	1
enigma	57.76	557320	73498	0	1
fiber	395.56	213284	26214	405935.18	1
fixnet4	12.08	11480	629	8936	1
fixnet6	30.58	37676	2197	3983	1
flugpl	0.87	3495	3708	1201500	1
gen	3.38	7091	313	112313.36	1
gr4x6	0.09	671	90	202.35	1
gt2	0.96	5394	382	21166	1
irp	73.38	6809	476	12159.49	1
khb05250	1.74	2766	66	106940226	1
l152lav	170.85	81295	5494	4722	1
lseu	19.01	103507	48119	1120	1
mas284	225.8	298512	61219	91405.72	1
misc01	0.48	4189	575	563.5	1
misc02	0.1	1179	113	1690	1
misc03	13.41	35412	2935	3360	1
misc04	2.45	3240	13	2666.7	1
misc05	1.69	4484	381	2984.5	1
misc06	0.81	2057	42	12850.86	1
misc07	1307.68	1061987	93293	2810	1
mod008	13.64	30587	11549	307	1
mod013	0.58	2014	588	280.95	1
neos-506422	262.02	202788	1668	0	1
neos-584851	73.45	53371	1865	-11	1
neos-709469	238.96	530734	23367	493.16	1
neos-777800	1800.64	1061169	2226	not	0
neos-785899	734.66	621290	12103	101	1
neos-785914	1799.66	1604600	6044	not	0
neos-801834	1061.69	105607	1689	50386	1
neos-803219	409.62	293374	62489	210.3	1
neos-803220	932.77	603950	139574	195.4	1
neos-806323	698.75	526414	67929	215	1
neos-807639	1800.42	616945	97610	454.2	0
neos-807705	1468.21	1063895	180148	342.4	1
neos-810286	151.12	38471	65	2877	1
nug08	83.9	35229	114	214	1
nw04	68.81	1927	135	16862	1
p0033	0.06	1210	409	3089	1
p0201	4.76	14611	1202	7615	1
p0282	56.22	31992	3553	258411	1
p0291	0.16	1273	255	5223.75	1
p0548	2.79	4379	382	8691	1
p2756	17.64	5384	837	3124	1
pipex	0.46	4171	1310	788.26	1
pp08a	1150.56	642657	74759	7350	1
qap10	621.65	316317	145	340	1
qnet1	32.3	49421	816	16029.69	1
qnet1_o	37.68	69113	856	16029.69	1
ran10x10a	27.31	61676	22340	1499	1
ran10x10b	6.61	17599	5375	3073	1
ran10x12	11.45	23315	6546	2714	1
ran4x64	1.8	2976	1112	9711	1
ran6x43	1.61	2772	726	6330	1
rentacar	6.42	7120	41	30356760.98	1
rgn	12.16	25598	4807	82.2	1
roy	2.83	8324	2829	3208.96	1
set1al	1.7	701	33	15869.75	1
stein15	1.25	5130	79	9	1
stein27	12.66	20456	3226	18	1
stein45	464.25	350668	59146	30	1
stein9	0.01	296	6	5	1
Test3	1799.74	538108	5119	not	0
vpml	1.22	2274	167	20	1

Table 54: $BeF - BPrA_1 - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.95	6194	86	21477	1
23588	106.1	53345	4351	8090	1
10teams	127.47	179319	891	924	1
air06	29.98	12039	34	49649	1
bal8x12	0.68	1721	133	471.55	1
bell3b	63.86	69143	30933	11786160.62	1
bienst1	1489.36	4056507	32398	46.75	1
blend2	6.03	17428	3812	7.6	1
bm23	0.1	1528	447	34	1
dano3_3	190.52	83850	53	576.34	1
dano3_4	258.78	115440	75	576.44	1
dano3_5	1806.53	752894	1911	577.03	0
dcmulti	15.03	17389	389	188182	1
dsbmip	7.98	3878	80	-305.2	1
egout	0.11	576	13	568.1	1
eilD76	1483.45	752199	24821	885.41	1
enigma	131.3	844792	91307	0	1
fiber	1187.9	717633	63129	405935.18	1
fixnet4	15.43	18914	599	8936	1
fixnet6	28.25	37731	2203	3983	1
flugpl	0.84	3192	3488	1201500	1
gen	3.46	8091	265	112313.36	1
gr4x6	0.08	599	55	202.35	1
gt2	2.31	8248	1499	21166	1
irp	68	6554	431	12159.49	1
khh05250	1.94	3013	55	106940226	1
l152lav	232.39	127893	6383	4722	1
lseu	62.8	160476	52945	1120	1
mas284	205.29	269259	56883	91405.72	1
misc01	0.46	3961	563	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.73	35072	2975	3360	1
misc04	2.2	2760	13	2666.7	1
misc05	1.67	4484	381	2984.5	1
misc06	0.77	1995	37	12850.86	1
misc07	1377.43	1061987	93293	2810	1
mod008	14.58	34240	12185	307	1
mod013	0.59	1876	509	280.95	1
neos-506422	565.25	405685	5119	0	1
neos-584851	70.38	50116	1864	-11	1
neos-709469	243.06	522466	22760	493.16	1
neos-777800	1800.54	1068963	2246	not	0
neos-785899	751	619939	12104	101	1
neos-785914	1799.82	1730667	6540	not	0
neos-801834	1039.5	108061	1528	50386	1
neos-803219	476.01	391697	61599	210.3	1
neos-803220	1280.39	701473	144271	195.4	1
neos-806323	399.09	371224	35191	215	1
neos-807639	1799.3	688069	88939	458.1	0
neos-807705	1800.6	1360869	147264	347.3	0
neos-810286	153.89	38471	65	2877	1
nug08	84.95	35229	114	214	1
nw04	45.3	1450	85	16862	1
p0033	0.06	1211	410	3089	1
p0201	4.9	16531	1022	7615	1
p0282	41.25	30395	2033	258411	1
p0291	0.14	1523	163	5223.75	1
p0548	3.21	5579	396	8691	1
p2756	12.24	4694	302	3124	1
pipex	0.39	4048	897	788.26	1
pp08a	1080.91	747584	53361	7350	1
qap10	624.55	314443	141	340	1
qnet1	33.73	49421	816	16029.69	1
qnet1.o	39.82	69113	856	16029.69	1
ran10x10a	13.52	33210	9343	1499	1
ran10x10b	3.62	9814	2865	3073	1
ran10x12	3.58	7442	1911	2714	1
ran4x64	0.7	1753	353	9711	1
ran6x43	1.3	2640	556	6330	1
rentacar	7.88	8715	59	30356760.98	1
rgn	12.49	25357	4801	82.2	1
roy	2.87	8324	2829	3208.96	1

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Table 54 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.74	722	49	15869.75	1
stein15	1.28	5130	79	9	1
stein27	12.88	20456	3226	18	1
stein45	455.72	350668	59146	30	1
stein9	0.01	296	6	5	1
Test3	1800.86	530977	5258	not	0
vpml	1.22	2341	183	20	1

Table 55: $BeF - BPrA_1 - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.2	6194	86	21477	1
23588	99.73	53345	4351	8090	1
10teams	131.45	179319	891	924	1
air06	29.46	12039	34	49649	1
bal8x12	0.88	2111	265	471.55	1
bell3b	47.42	53201	29814	11786160.62	1
bienst1	1492.75	4056507	32398	46.75	1
blend2	6.28	17428	3812	7.6	1
bm23	0.1	1528	447	34	1
dano3_3	191.46	83850	53	576.34	1
dano3_4	254.49	115440	75	576.44	1
dano3_5	1800.76	740815	1893	577.03	0
dcmulti	14.7	17389	389	188182	1
dsbmip	8.05	3878	80	-305.2	1
egout	0.1	576	13	568.1	1
eilD76	1172.56	752199	24821	885.41	1
enigma	229.34	2211581	311420	0	1
fiber	1164.95	717633	63129	405935.18	1
fixnet4	15.23	18914	599	8936	1
fixnet6	29.63	37731	2203	3983	1
flugpl	0.84	3192	3488	1201500	1
gen	3.44	8091	265	112313.36	1
gr4x6	0.08	599	55	202.35	1
gt2	2.32	8248	1499	21166	1
irp	66.71	6554	431	12159.49	1
khh05250	1.92	3013	55	106940226	1
l152lav	233.81	127893	6383	4722	1
lseu	18.74	104025	48520	1120	1
mas284	190.06	264262	58447	91405.72	1
misc01	0.45	3961	563	563.5	1
misc02	0.1	1148	115	1690	1
misc03	12.95	35072	2975	3360	1
misc04	2.2	2760	13	2666.7	1
misc05	1.68	4484	381	2984.5	1
misc06	0.76	1995	37	12850.86	1
misc07	1396.9	1061987	93293	2810	1
mod008	14.84	34240	12185	307	1
mod013	0.52	1876	509	280.95	1
neos-506422	561.61	405685	5119	0	1
neos-584851	70.26	50116	1864	-11	1
neos-709469	239.37	522466	22760	493.16	1
neos-777800	1800.79	1072762	2257	not	0
neos-785899	772.11	619939	12104	101	1
neos-785914	1800.42	1797990	6773	not	0
neos-801834	1041.31	108061	1528	50386	1
neos-803219	436.66	346426	61486	210.3	1
neos-803220	888.04	613776	137733	195.4	1
neos-806323	394.01	371224	35191	215	1
neos-807639	1800.23	706149	92326	458.1	0
neos-807705	1799.6	1240793	219797	342.4	0
neos-810286	152.58	38471	65	2877	1
nug08	87.21	35229	114	214	1
nw04	45.71	1450	85	16862	1
p0033	0.06	1211	410	3089	1
p0201	4.83	16531	1022	7615	1
p0282	41.27	30395	2033	258411	1
p0291	0.14	1523	163	5223.75	1

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Table 55 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	3.24	5579	396	8691	1
p2756	12.32	4694	302	3124	1
pipeX	0.4	4048	897	788.26	1
pp08a	1033.7	680751	56454	7350	1
qap10	626.78	314443	141	340	1
qnet1	34.83	49421	816	16029.69	1
qnet1.o	37.28	69113	856	16029.69	1
ran10x10a	27.4	62246	22488	1499	1
ran10x10b	3.74	9814	2865	3073	1
ran10x12	3.47	7442	1911	2714	1
ran4x64	0.69	1753	353	9711	1
ran6x43	2.58	4082	1266	6330	1
rentacar	7.66	8715	59	30356760.98	1
rgn	12.21	25357	4801	82.2	1
roy	2.86	8324	2829	3208.96	1
set1al	1.72	722	49	15869.75	1
stein15	1.26	5130	79	9	1
stein27	12.5	20456	3226	18	1
stein45	449.67	350668	59146	30	1
stein9	0.02	296	6	5	1
Test3	1799.82	523997	5125	not	0
vpml	1.24	2341	183	20	1

Table 56: *Dist – Lf – N.*

Name	Time	Iters	Nodes	Best	Solved
22433	8.75	6443	109	21477	1
23588	86.85	44013	4364	8090	1
10teams	242.29	415047	3368	924	1
air06	29.37	11759	34	49649	1
bal8x12	0.96	2352	342	471.55	1
bell3b	34.73	41584	26115	11786160.62	1
bienst1	1474.61	4037511	33317	46.75	1
blend2	23.78	48371	17646	7.6	1
bm23	0.1	1365	423	34	1
dano3_3	88.82	40247	55	576.34	1
dano3_4	139.81	63989	114	576.44	1
dano3_5	1200.76	493535	1589	576.92	1
dcmulti	13.19	11092	542	188182	1
dsbmip	6.44	2758	34	-305.2	1
egout	0.11	577	14	568.1	1
eilD76	1002.38	624791	22475	885.41	1
enigma	88.53	873978	120668	0	1
fiber	204	119495	14576	405935.18	1
fixnet4	11.64	10853	677	8936	1
fixnet6	22.33	21761	2513	3983	1
flugpl	0.77	2787	3279	1201500	1
gen	3.52	7010	351	112313.36	1
gr4x6	0.09	702	107	202.35	1
gt2	1.3	4432	1086	21166	1
irp	62.24	6373	533	12159.49	1
khh05250	1.83	2757	69	106940226	1
l152lav	167.69	78231	5458	4722	1
lseu	13.11	59803	28660	1120	1
mas284	201.63	233012	52222	91405.72	1
misc01	0.46	3950	557	563.5	1
misc02	0.1	1174	118	1690	1
misc03	13.29	34522	3098	3360	1
misc04	2.22	2704	13	2666.7	1
misc05	1.68	4235	379	2984.5	1
misc06	0.74	1919	32	12850.86	1
misc07	1338.77	1055782	93117	2810	1
mod008	17.33	33805	14556	307	1
mod013	0.7	2323	734	280.95	1
neos-506422	337.99	243849	3151	0	1
neos-584851	72.2	50116	1864	-11	1
neos-709469	38.93	89192	3396	493.16	1
neos-777800	426.3	601920	720	-80	1

Continued on next page

Table 56 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	918.98	678544	12908	101	1
neos-785914	1370.12	1743877	6730	38	1
neos-801834	941.24	96427	1585	50386	1
neos-803219	483.79	303459	65661	210.3	1
neos-803220	1146.35	561184	137029	195.4	1
neos-806323	246.61	171143	26187	215	1
neos-807639	1800.02	560647	96975	454.2	0
neos-807705	1799.6	915301	160313	342.4	0
neos-810286	156.04	38471	65	2877	1
nug08	88.83	34172	111	214	1
nw04	64.35	1766	124	16862	1
p0033	0.07	1092	465	3089	1
p0201	3.68	11411	894	7615	1
p0282	31.83	19043	1830	258411	1
p0291	0.13	1087	207	5223.75	1
p0548	3.04	4413	446	8691	1
p2756	24.45	7270	1225	3124	1
pipeX	0.8	6775	2214	788.26	1
pp08a	866.84	432033	55701	7350	1
qap10	568.04	266944	141	340	1
qnet1	62.82	66647	3596	16029.69	1
qnet1.o	45.15	54857	2043	16029.69	1
ran10x10a	20.33	37522	14949	1499	1
ran10x10b	5.24	12818	4070	3073	1
ran10x12	6.06	11594	3410	2714	1
ran4x64	3.01	5253	1938	9711	1
ran6x43	1.8	2890	857	6330	1
rentacar	6.14	6124	51	30356760.98	1
rgn	12.86	24783	4693	82.2	1
roy	2.69	6707	2860	3208.96	1
set1al	1.72	645	25	15869.75	1
stein15	1.29	5130	79	9	1
stein27	13.02	20456	3226	18	1
stein45	543.74	356643	60594	30	1
stein9	0.01	296	6	5	1
Test3	1245.09	287946	5920	2673520.21	1
vpml	0.99	1945	102	20	1

Table 57: $Dist - Lf - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.86	6443	109	21477	1
23588	88.84	44013	4364	8090	1
10teams	239.15	415047	3368	924	1
air06	29.19	11759	34	49649	1
bal8x12	0.96	2352	342	471.55	1
bell3b	34.57	41584	26115	11786160.62	1
bienst1	1510.91	4037511	33317	46.75	1
blend2	23.42	48371	17646	7.6	1
bm23	0.1	1365	423	34	1
dano3_3	88.59	40247	55	576.34	1
dano3_4	140.06	63989	114	576.44	1
dano3_5	1201.4	493535	1589	576.92	1
dcmulti	13.27	11092	542	188182	1
dsbmip	6.49	2758	34	-305.2	1
egout	0.11	577	14	568.1	1
eilD76	1043.25	624791	22475	885.41	1
enigma	88.27	873978	120668	0	1
fiber	205.24	119495	14576	405935.18	1
fixnet4	11.52	10853	677	8936	1
fixnet6	21.66	21761	2513	3983	1
flugpl	0.73	2767	3241	1201500	1
gen	3.42	7010	351	112313.36	1
gr4x6	0.09	719	122	202.35	1
gt2	1.28	4432	1086	21166	1
irp	62.56	6373	533	12159.49	1
khb05250	1.84	2757	69	106940226	1
l152lav	165.19	78231	5458	4722	1

Continued on next page

Table 57 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	10.15	68741	32985	1120	1
mas284	141.04	233012	52222	91405.72	1
misc01	0.45	3950	557	563.5	1
misc02	0.1	1174	118	1690	1
misc03	13.34	34522	3098	3360	1
misc04	2.16	2704	13	2666.7	1
misc05	1.65	4235	379	2984.5	1
misc06	0.74	1919	32	12850.86	1
misc07	1268.43	1055782	93117	2810	1
mod008	17.08	33805	14556	307	1
mod013	0.69	2323	734	280.95	1
neos-506422	327.4	243849	3151	0	1
neos-584851	71.31	50116	1864	-11	1
neos-709469	38.96	89192	3396	493.16	1
neos-777800	419.79	601920	720	-80	1
neos-785899	802.81	678544	12908	101	1
neos-785914	1326.9	1743877	6730	38	1
neos-801834	930.57	96427	1585	50386	1
neos-803219	394.76	289964	63205	210.3	1
neos-803220	749.93	544300	132704	195.4	1
neos-806323	242.56	171143	26187	215	1
neos-807639	1800.04	614751	112418	454.2	0
neos-807705	1209.34	969345	175070	342.4	1
neos-810286	117.24	38471	65	2877	1
nug08	65.2	34172	111	214	1
nw04	53.62	1766	124	16862	1
p0033	0.07	1092	465	3089	1
p0201	3.42	11411	894	7615	1
p0282	25.55	19043	1830	258411	1
p0291	0.12	1087	207	5223.75	1
p0548	2.79	4413	446	8691	1
p2756	18.43	7270	1225	3124	1
pipex	0.8	6775	2214	788.26	1
pp08a	836.86	432033	55701	7350	1
qap10	610.63	266944	141	340	1
qnet1	46.87	66647	3596	16029.69	1
qnet1.o	34.74	54857	2043	16029.69	1
ran10x10a	16.56	37987	15492	1499	1
ran10x10b	4.94	12818	4070	3073	1
ran10x12	5.63	11594	3410	2714	1
ran4x64	2.81	5253	1938	9711	1
ran6x43	1.67	2890	857	6330	1
rentacar	5.22	6124	51	30356760.98	1
rgn	11.05	24783	4693	82.2	1
roy	2.56	6707	2860	3208.96	1
set1al	1.65	645	25	15869.75	1
stein15	1.22	5130	79	9	1
stein27	12.2	20456	3226	18	1
stein45	407.04	356643	60594	30	1
stein9	0.01	296	6	5	1
Test3	1239.58	287946	5920	2673520.21	1
vpm1	0.94	1945	102	20	1

Table 58: $Dist - E - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.24	5787	70	21477	1
23588	66.61	43373	4348	8090	1
10teams	35.64	68802	352	924	1
air06	16.16	10040	12	49649	1
bal8x12	0.61	1531	129	471.55	1
bell3b	24.65	30971	18689	11786160.62	1
bienst1	1500.04	3958154	32694	46.75	1
blend2	13.03	48819	9747	7.6	1
bm23	0.08	1213	361	34	1
dano3_3	112.56	57596	61	576.34	1
dano3_4	174.77	90933	117	576.44	1
dano3_5	1595.38	678389	1840	576.92	1

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Table 58 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	11.48	11224	581	188182	1
dsbmp	5.52	2732	29	-305.2	1
egout	0.1	591	18	568.1	1
eilD76	1071.59	617230	21713	885.41	1
enigma	7.21	76104	8802	0	1
fiber	146.75	116707	14033	405935.18	1
fixnet4	11.02	12335	942	8936	1
fixnet6	17.02	20967	2363	3983	1
flugpl	0.76	2559	3023	1201500	1
gen	3.22	7468	343	112313.36	1
gr4x6	0.09	662	96	202.35	1
gt2	0.32	1219	59	21166	1
irp	48.65	6082	375	12159.49	1
khb05250	1.53	2846	61	106940226	1
l152lav	98.65	75544	4924	4722	1
lseu	12.73	55557	26898	1120	1
mas284	169.5	237152	53284	91405.72	1
misc01	0.46	3971	563	563.5	1
misc02	0.1	1173	121	1690	1
misc03	12.09	34136	3078	3360	1
misc04	1.96	2893	13	2666.7	1
misc05	1.62	4405	392	2984.5	1
misc06	0.76	2061	41	12850.86	1
misc07	1409.51	1056107	93134	2810	1
mod008	13.05	32433	11654	307	1
mod013	0.54	1920	541	280.95	1
neos-506422	170.38	133366	1252	0	1
neos-584851	64.63	50110	1863	-11	1
neos-709469	34.91	84222	3216	493.16	1
neos-777800	452.18	515762	763	-80	1
neos-785899	710.82	594363	11796	101	1
neos-785914	34.65	20059	92	38	1
neos-801834	531.51	87123	1453	50386	1
neos-803219	427.52	298621	64029	210.3	1
neos-803220	1245.47	567461	138023	195.4	1
neos-806323	228.2	171986	26331	215	1
neos-807639	1800.03	568201	98844	454.2	0
neos-807705	1800.58	863561	146784	342.4	0
neos-810286	331.5	74872	252	2877	1
nug08	64.72	34484	113	214	1
nw04	36.77	1394	81	16862	1
p0033	0.07	1173	407	3089	1
p0201	3.71	12030	946	7615	1
p0282	23.92	19713	2034	258411	1
p0291	0.15	1268	245	5223.75	1
p0548	3.05	4917	505	8691	1
p2756	15.88	10380	845	3124	1
pipex	0.58	4792	1271	788.26	1
pp08a	862.27	425281	55327	7350	1
qap10	585.9	283506	146	340	1
qnet1	21.12	31802	757	16029.69	1
qnet1_o	22.53	40907	824	16029.69	1
ran10x10a	17.82	32415	12427	1499	1
ran10x10b	4.49	11233	3498	3073	1
ran10x12	4.42	9139	2574	2714	1
ran4x64	0.8	2125	450	9711	1
ran6x43	1.38	2727	667	6330	1
rentacar	4.24	4725	41	30356760.98	1
rgn	11.23	24889	4701	82.2	1
roy	3.32	8193	3396	3208.96	1
set1al	1.72	723	67	15869.75	1
stein15	1.23	5125	78	9	1
stein27	12.17	20461	3225	18	1
stein45	448.01	344745	58098	30	1
stein9	0.02	293	4	5	1
Test3	1198.33	296947	6219	2673520.21	1
vpml	0.88	1850	87	20	1

Table 59: $Dist - E - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.98	5787	70	21477	1
23588	91.01	43207	4338	8090	1
10teams	53.41	73895	381	924	1
air06	20.3	10040	12	49649	1
bal8x12	0.65	1531	129	471.55	1
bell3b	1799.42	1777347	1163421	11801233.32	0
bienst1	1484.72	3930823	32405	46.75	1
blend2	10.09	22621	8218	7.6	1
bm23	0.09	1213	361	34	1
dano3.3	132.02	57596	61	576.34	1
dano3.4	264.84	118087	136	576.44	1
dano3.5	1420.88	584642	1666	576.92	1
dcmulti	13.97	11224	581	188182	1
dsbmip	6.79	2732	29	-305.2	1
egout	0.11	591	18	568.1	1
eilD76	1244.16	617230	21713	885.41	1
enigma	10.86	114575	13820	0	1
fiber	212.29	116707	14033	405935.18	1
fixnet4	14.73	12335	942	8936	1
fixnet6	23.55	22043	2522	3983	1
flugpl	0.8	2605	3082	1201500	1
gen	3.58	7468	343	112313.36	1
gr4x6	0.09	662	96	202.35	1
gt2	0.32	1219	59	21166	1
irp	58.77	6082	375	12159.49	1
khh05250	1.84	2846	61	106940226	1
l152lav	163.16	75544	4924	4722	1
lseu	9.69	58954	28445	1120	1
mas284	153.27	242561	54775	91405.72	1
misc01	0.47	3998	565	563.5	1
misc02	0.1	1173	121	1690	1
misc03	13.22	33624	3075	3360	1
misc04	2.24	2788	13	2666.7	1
misc05	1.72	4405	392	2984.5	1
misc06	0.8	2061	41	12850.86	1
misc07	1284.94	1056107	93134	2810	1
mod008	666.29	1074221	629420	307	1
mod013	0.61	2091	620	280.95	1
neos-506422	162.46	122468	1123	0	1
neos-584851	70.94	50110	1863	-11	1
neos-709469	8.86	18847	501	493.16	1
neos-777800	508.45	515762	763	-80	1
neos-785899	838.89	594363	11796	101	1
neos-785914	38.95	20059	92	38	1
neos-801834	848.33	87123	1453	50386	1
neos-803219	394	292007	63249	210.3	1
neos-803220	760.35	553437	134790	195.4	1
neos-806323	249.71	171986	26331	215	1
neos-807639	1800.22	597445	109139	454.2	0
neos-807705	1353.06	1083978	197545	342.4	1
neos-810286	468.99	74872	252	2877	1
nug08	84.21	34484	113	214	1
nw04	43	1394	81	16862	1
p0033	0.07	1173	407	3089	1
p0201	3.76	12030	946	7615	1
p0282	26.89	19713	2034	258411	1
p0291	0.14	1268	245	5223.75	1
p0548	3.11	4917	505	8691	1
p2756	19.58	10380	845	3124	1
pipex	0.74	6868	2300	788.26	1
pp08a	846.24	426866	55573	7350	1
qap10	533.59	283506	146	340	1
qnet1	27.76	31661	733	16029.69	1
qnet1.o	31.35	41152	908	16029.69	1
ran10x10a	18.76	37681	14962	1499	1
ran10x10b	4.11	10539	3263	3073	1
ran10x12	5.7	11555	3418	2714	1
ran4x64	2.38	4596	1452	9711	1
ran6x43	1.72	2907	862	6330	1
rentacar	4.81	4725	41	30356760.98	1
rgn	12.69	24889	4701	82.2	1
roy	3.51	8600	3633	3208.96	1

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Table 59 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.77	723	67	15869.75	1
stein15	1.28	5125	78	9	1
stein27	13.02	20461	3225	18	1
stein45	425.37	344276	57988	30	1
stein9	0.01	293	4	5	1
Test3	1169.94	296947	6219	2673520.21	1
vpm1	1.01	1945	102	20	1

Table 60: $Dist - BPrA_0 - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.1	6434	110	21477	1
23588	66.9	43269	4267	8090	1
10teams	175.63	403747	3073	924	1
air06	23.75	11759	34	49649	1
bal8x12	0.82	2094	264	471.55	1
bell3b	33.43	41165	25929	11786160.62	1
bienst1	1478.26	4037511	33317	46.75	1
blend2	11.99	25594	9669	7.6	1
bm23	0.09	1297	398	34	1
dano3_3	76.7	40247	55	576.34	1
dano3_4	121.88	63989	114	576.44	1
dano3_5	1190.9	492716	1582	576.92	1
dcmulti	11.21	11087	541	188182	1
dsbmip	5.53	2758	34	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	1350.55	624698	22447	885.41	1
enigma	85.69	873978	120668	0	1
fiber	164.63	127888	15674	405935.18	1
fixnet4	9.26	10879	683	8936	1
fixnet6	17.2	21474	2451	3983	1
flugpl	0.77	2820	3312	1201500	1
gen	2.94	6633	286	112313.36	1
gr4x6	0.09	699	105	202.35	1
gt2	0.62	2295	362	21166	1
irp	52.62	6373	533	12159.49	1
khh05250	1.46	2603	57	106940226	1
l152lav	108.25	77443	5372	4722	1
lseu	12.44	59799	28658	1120	1
mas284	175.44	233011	52218	91405.72	1
misc01	0.44	3950	557	563.5	1
misc02	0.1	1163	115	1690	1
misc03	12.31	34522	3098	3360	1
misc04	1.85	2704	13	2666.7	1
misc05	1.55	4235	379	2984.5	1
misc06	0.69	1919	32	12850.86	1
misc07	1261.67	1055739	93111	2810	1
mod008	12.02	30272	10714	307	1
mod013	0.66	2289	718	280.95	1
neos-506422	303.71	235444	2839	0	1
neos-584851	64.73	50116	1864	-11	1
neos-709469	34.52	89192	3396	493.16	1
neos-777800	362.57	601920	720	-80	1
neos-785899	882.26	678544	12908	101	1
neos-785914	1297.26	1743877	6730	38	1
neos-801834	572.23	96427	1585	50386	1
neos-803219	437.96	297856	64027	210.3	1
neos-803220	1210.37	552493	134621	195.4	1
neos-806323	219.85	171179	26190	215	1
neos-807639	1800.46	549538	94073	454.2	0
neos-807705	1799.61	820516	135762	342.4	0
neos-810286	109.09	38471	65	2877	1
nug08	64.89	34172	111	214	1
nw04	53.5	1766	124	16862	1
p0033	0.07	1092	465	3089	1
p0201	3.5	11373	891	7615	1
p0282	20.77	17851	1487	258411	1
p0291	0.13	1205	193	5223.75	1

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Table 60 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	2.83	4421	455	8691	1
p2756	15.27	7495	854	3124	1
pipeX	0.69	6016	1878	788.26	1
pp08a	872.05	432033	55701	7350	1
qap10	571.3	266944	141	340	1
qnet1	24.39	37822	1193	16029.69	1
qnet1.o	31.02	51482	1567	16029.69	1
ran10x10a	13.93	27833	11127	1499	1
ran10x10b	4.77	12348	3870	3073	1
ran10x12	5.02	10536	3012	2714	1
ran4x64	2.19	4407	1439	9711	1
ran6x43	1.38	2502	698	6330	1
rentacar	5.21	6124	51	30356760.98	1
rgn	11.29	24783	4693	82.2	1
roy	3.29	8251	3437	3208.96	1
set1al	1.65	645	25	15869.75	1
stein15	1.22	5130	79	9	1
stein27	12.06	20456	3226	18	1
stein45	464.57	356704	60609	30	1
stein9	0.02	296	6	5	1
Test3	1224.91	287311	5693	2673520.21	1
vpml	0.95	1945	102	20	1

Table 61: $Dist - BPrA_0 - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.84	6434	110	21477	1
23588	88.35	43268	4267	8090	1
10teams	243.77	403747	3073	924	1
air06	29.94	11759	34	49649	1
bal8x12	0.87	2094	264	471.55	1
bell3b	35.38	41165	25929	11786160.62	1
bienst1	1480.72	4037511	33317	46.75	1
blend2	12.88	25626	9673	7.6	1
bm23	0.09	1344	415	34	1
dano3_3	92.07	40247	55	576.34	1
dano3_4	144.88	63989	114	576.44	1
dano3_5	1203.59	492716	1582	576.92	1
dcmulti	13.72	11087	541	188182	1
dsbmp	6.68	2758	34	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	980.83	624698	22447	885.41	1
enigma	89.51	874084	120670	0	1
fiber	225.79	127888	15674	405935.18	1
fixnet4	11.9	10879	683	8936	1
fixnet6	21.59	21474	2451	3983	1
flugpl	0.8	2820	3312	1201500	1
gen	3.16	6633	286	112313.36	1
gr4x6	0.09	699	105	202.35	1
gt2	0.63	2295	362	21166	1
irp	62.86	6373	533	12159.49	1
khh05250	1.71	2603	57	106940226	1
l152lav	161.4	77559	5381	4722	1
lseu	10.42	69452	33249	1120	1
mas284	142.3	233011	52218	91405.72	1
misc01	0.45	3950	557	563.5	1
misc02	0.1	1163	115	1690	1
misc03	13.01	34522	3098	3360	1
misc04	2.14	2704	13	2666.7	1
misc05	1.63	4235	379	2984.5	1
misc06	0.72	1919	32	12850.86	1
misc07	1253.32	1055739	93111	2810	1
mod008	12.88	30272	10714	307	1
mod013	0.67	2289	718	280.95	1
neos-506422	311.83	232963	2883	0	1
neos-584851	70.66	50116	1864	-11	1
neos-709469	10.79	26558	690	493.16	1
neos-777800	409.2	601920	720	-80	1

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Table 61 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	975.33	678544	12908	101	1
neos-785914	1376.46	1743877	6730	38	1
neos-801834	940.13	96427	1585	50386	1
neos-803219	386.61	285296	61976	210.3	1
neos-803220	804.83	554801	135284	195.4	1
neos-806323	247.68	171179	26190	215	1
neos-807639	1800.13	594425	107962	454.2	0
neos-807705	1132.31	924335	166288	342.4	1
neos-810286	155.39	38471	65	2877	1
nug08	86.77	34063	111	214	1
nw04	62.74	1766	124	16862	1
p0033	0.07	1092	465	3089	1
p0201	3.57	11358	890	7615	1
p0282	23.49	17851	1487	258411	1
p0291	0.13	1205	193	5223.75	1
p0548	2.91	4421	455	8691	1
p2756	18.91	7418	897	3124	1
pipeX	0.8	6904	2236	788.26	1
pp08a	828.24	432033	55701	7350	1
qap10	623.57	266944	141	340	1
qnet1	31.97	37331	1168	16029.69	1
qnet1.o	44.74	53008	1795	16029.69	1
ran10x10a	33.2	75990	33318	1499	1
ran10x10b	5.09	12465	3936	3073	1
ran10x12	5.36	10536	3012	2714	1
ran4x64	2.26	4407	1439	9711	1
ran6x43	1.4	2502	698	6330	1
rentacar	5.93	6124	51	30356760.98	1
rgn	12.52	24783	4693	82.2	1
roy	3.34	8487	3595	3208.96	1
set1al	1.68	645	25	15869.75	1
stein15	1.26	5130	79	9	1
stein27	12.42	20456	3226	18	1
stein45	456.68	356733	60611	30	1
stein9	0.02	296	6	5	1
Test3	1203.75	287311	5693	2673520.21	1
vpml	1.04	1945	102	20	1

Table 62: *Dist – DEXA – N.*

Name	Time	Iters	Nodes	Best	Solved
22433	8.08	6443	109	21477	1
23588	68.71	44013	4364	8090	1
10teams	180.27	409387	3301	924	1
air06	23.94	11759	34	49649	1
bal8x12	0.83	2186	274	471.55	1
bell3b	364.03	261428	171347	11786160.62	1
bienst1	1515.05	4037511	33317	46.75	1
blend2	6.44	16347	5148	7.6	1
bm23	0.09	1365	423	34	1
dano3_3	73.91	39093	51	576.34	1
dano3_4	117.54	61913	112	576.44	1
dano3_5	1221.24	533626	1619	576.92	1
dcmulti	11.2	11085	540	188182	1
dsbmip	5.53	2758	34	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	1011.03	616084	22143	885.41	1
enigma	84.79	858260	118276	0	1
fiber	153.78	122002	14919	405935.18	1
fixnet4	9.22	10888	669	8936	1
fixnet6	17.58	21773	2510	3983	1
flugpl	0.92	3218	3853	1201500	1
gen	3.22	7010	351	112313.36	1
gr4x6	0.09	702	107	202.35	1
gt2	1.22	4383	1079	21166	1
irp	53.03	6373	533	12159.49	1
khb05250	1.56	2757	69	106940226	1
l152lav	109.07	78208	5457	4722	1

Continued on next page

Table 62 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	11.14	58607	28257	1120	1
mas284	166.74	233016	52225	91405.72	1
misc01	0.45	3950	557	563.5	1
misc02	0.1	1174	118	1690	1
misc03	12.04	33944	3041	3360	1
misc04	1.84	2704	13	2666.7	1
misc05	1.6	4235	379	2984.5	1
misc06	0.7	1919	32	12850.86	1
misc07	1345.08	1055429	93089	2810	1
mod008	18.54	38709	17013	307	1
mod013	0.65	2295	721	280.95	1
neos-506422	307.44	244941	2928	0	1
neos-584851	64.58	50116	1864	-11	1
neos-709469	50.03	145860	5435	493.16	1
neos-777800	364.69	601920	720	-80	1
neos-785899	898.95	676306	12883	101	1
neos-785914	1383.42	1743877	6730	38	1
neos-801834	632.44	96262	1578	50386	1
neos-803219	431.71	303639	65684	210.3	1
neos-803220	1160.86	561036	137025	195.4	1
neos-806323	220.5	172280	26299	215	1
neos-807639	1800.06	578950	101337	454.2	0
neos-807705	1800.64	902044	155968	342.4	0
neos-810286	107.92	38471	65	2877	1
nug08	64.4	34172	111	214	1
nw04	53.62	1766	124	16862	1
p0033	0.07	1092	465	3089	1
p0201	3.44	11377	893	7615	1
p0282	23.75	18624	1857	258411	1
p0291	0.12	1087	207	5223.75	1
p0548	2.82	4420	448	8691	1
p2756	15.79	5886	985	3124	1
pipex	0.78	6775	2214	788.26	1
pp08a	931.13	433328	55845	7350	1
qap10	543.53	280944	141	340	1
qnet1	15.9	22079	585	16029.69	1
qnet1.o	29.41	48484	1481	16029.69	1
ran10x10a	17.54	35441	14087	1499	1
ran10x10b	4.1	10603	3348	3073	1
ran10x12	5.54	11383	3338	2714	1
ran4x64	2.69	5076	1847	9711	1
ran6x43	1.58	2903	795	6330	1
rentacar	5.2	6124	51	30356760.98	1
rgn	10.96	24783	4693	82.2	1
roy	2.56	6720	2857	3208.96	1
set1al	1.64	645	25	15869.75	1
stein15	1.23	5130	79	9	1
stein27	12.12	20456	3226	18	1
stein45	465.62	356643	60594	30	1
stein9	0.01	296	6	5	1
Test3	1050.65	280536	4775	2673520.21	1
vpm1	0.88	1808	78	20	1

Table 63: $Dist - DExA - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.89	6443	109	21477	1
23588	89.7	44013	4364	8090	1
10teams	252.28	409343	3301	924	1
air06	29.97	11759	34	49649	1
bal8x12	0.88	2186	274	471.55	1
bell3b	857.28	977744	639627	11786160.62	1
bienst1	1510.37	4037511	33317	46.75	1
blend2	6.72	16347	5148	7.6	1
bm23	0.1	1365	423	34	1
dano3_3	86.75	39093	51	576.34	1
dano3_4	135.79	61913	112	576.44	1
dano3_5	1297.35	533626	1619	576.92	1

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Table 63 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	13.37	11085	540	188182	1
dsbmip	6.55	2758	34	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	994.95	616084	22143	885.41	1
enigma	89.26	861764	118758	0	1
fiber	212.59	122002	14919	405935.18	1
fixnet4	11.69	10888	669	8936	1
fixnet6	21.98	21773	2510	3983	1
flugpl	2.21	7446	10150	1201500	1
gen	3.44	7010	351	112313.36	1
gr4x6	0.09	702	107	202.35	1
gt2	1.29	4383	1079	21166	1
irp	62.43	6373	533	12159.49	1
khh05250	1.84	2757	69	106940226	1
l152lav	172.59	78187	5456	4722	1
lseu	9.89	67056	32681	1120	1
mas284	147.45	233016	52225	91405.72	1
misc01	0.46	3950	557	563.5	1
misc02	0.1	1174	118	1690	1
misc03	12.92	33938	3039	3360	1
misc04	2.21	2704	13	2666.7	1
misc05	1.72	4235	379	2984.5	1
misc06	0.74	1919	32	12850.86	1
misc07	1315.92	1055490	93099	2810	1
mod008	20.5	38709	17013	307	1
mod013	0.69	2295	721	280.95	1
neos-506422	326.5	243194	2907	0	1
neos-584851	71	50116	1864	-11	1
neos-709469	10.91	26186	680	493.16	1
neos-777800	418.49	601920	720	-80	1
neos-785899	767.54	676758	12887	101	1
neos-785914	1375.11	1743877	6730	38	1
neos-801834	929.65	96262	1578	50386	1
neos-803219	431.18	307860	67382	210.3	1
neos-803220	755.31	552262	134573	195.4	1
neos-806323	248.42	172280	26299	215	1
neos-807639	1800.13	609469	111429	454.2	0
neos-807705	1270.76	1011524	183177	342.4	1
neos-810286	155.9	38471	65	2877	1
nug08	89.78	34063	111	214	1
nw04	64.42	1766	124	16862	1
p0033	0.07	1092	465	3089	1
p0201	3.68	11377	893	7615	1
p0282	29.23	18624	1857	258411	1
p0291	0.13	1087	207	5223.75	1
p0548	3.25	4420	448	8691	1
p2756	20.45	5886	985	3124	1
pipex	0.81	6775	2214	788.26	1
pp08a	876.16	433328	55845	7350	1
qap10	652.61	280944	141	340	1
qnet1	20.45	22005	577	16029.69	1
qnet1_o	37.04	47577	1319	16029.69	1
ran10x10a	24.23	51006	21690	1499	1
ran10x10b	4.28	10603	3348	3073	1
ran10x12	5.86	11383	3338	2714	1
ran4x64	2.89	5076	1847	9711	1
ran6x43	1.69	2903	795	6330	1
rentacar	6.11	6124	51	30356760.98	1
rgn	13.13	24783	4693	82.2	1
roy	2.74	6720	2857	3208.96	1
set1al	1.72	645	25	15869.75	1
stein15	1.28	5130	79	9	1
stein27	13.14	20456	3226	18	1
stein45	465.08	356809	60630	30	1
stein9	0.02	296	6	5	1
Test3	1153.85	280536	4775	2673520.21	1
vpml	0.97	1888	92	20	1

Table 64: *Dist – PCA – N.*

Name	Time	Iters	Nodes	Best	Solved
22433	7.26	5787	70	21477	1
23588	67.44	43407	4367	8090	1
10teams	182.16	415047	3368	924	1
air06	23.84	11759	34	49649	1
bal8x12	0.91	2330	332	471.55	1
bell3b	1800.42	437282	279323	11802163.63	0
bienst1	1453.28	3958154	32694	46.75	1
blend2	4.75	12238	3915	7.6	1
bm23	0.08	1178	355	34	1
dano3_3	112.53	57596	61	576.34	1
dano3_4	175.35	90933	117	576.44	1
dano3_5	1605.02	678389	1840	576.92	1
dcmulti	11.24	11086	540	188182	1
dsbmip	5.54	2803	31	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	1016.22	624787	22474	885.41	1
enigma	101	1025844	138777	0	1
fiber	148.47	119582	14594	405935.18	1
fixnet4	8.66	10577	599	8936	1
fixnet6	16.22	20189	2223	3983	1
flugpl	0.78	2559	3023	1201500	1
gen	3.2	7010	351	112313.36	1
gr4x6	0.09	702	107	202.35	1
gt2	1.14	5331	816	21166	1
irp	52.55	6373	533	12159.49	1
khh05250	1.58	2757	69	106940226	1
l152lav	110.43	78231	5458	4722	1
lseu	14.45	57744	27815	1120	1
mas284	169.7	237119	53270	91405.72	1
misc01	0.46	3971	563	563.5	1
misc02	0.11	1173	121	1690	1
misc03	12.22	34136	3078	3360	1
misc04	1.94	2893	13	2666.7	1
misc05	1.64	4405	392	2984.5	1
misc06	0.7	1936	31	12850.86	1
misc07	1236.28	1056107	93134	2810	1
mod008	15.78	33805	14556	307	1
mod013	0.68	2263	708	280.95	1
neos-506422	232.54	193257	1892	0	1
neos-584851	64.86	50570	1863	-11	1
neos-709469	34.1	89192	3396	493.16	1
neos-777800	364.93	601920	720	-80	1
neos-785899	821.03	678544	12908	101	1
neos-785914	1394.7	1743877	6730	38	1
neos-801834	572.66	96427	1585	50386	1
neos-803219	451.1	303459	65661	210.3	1
neos-803220	1284.22	561007	136662	195.4	1
neos-806323	220.01	171143	26187	215	1
neos-807639	1800.1	541341	92049	454.2	0
neos-807705	1800.62	917952	161198	342.4	0
neos-810286	109.41	38471	65	2877	1
nug08	64.72	34172	111	214	1
nw04	53.62	1766	124	16862	1
p0033	0.07	1220	463	3089	1
p0201	3.44	11411	894	7615	1
p0282	20.68	17422	1530	258411	1
p0291	0.13	1087	207	5223.75	1
p0548	2.78	4357	433	8691	1
p2756	18.31	7270	1225	3124	1
pipex	0.79	6775	2214	788.26	1
pp08a	924.75	432033	55701	7350	1
qap10	521.34	266944	141	340	1
qnet1	21.03	31802	757	16029.69	1
qnet1.o	22.52	40907	824	16029.69	1
ran10x10a	17.38	34701	13908	1499	1
ran10x10b	4.51	11904	3772	3073	1
ran10x12	5.64	11548	3395	2714	1
ran4x64	2.9	5271	1889	9711	1
ran6x43	1.6	2882	806	6330	1
rentacar	4.17	4601	41	30356760.98	1
rgn	11.2	24889	4701	82.2	1
roy	3.35	8193	3396	3208.96	1

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Table 64 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.64	645	25	15869.75	1
stein15	1.24	5130	79	9	1
stein27	12.08	20456	3226	18	1
stein45	466.92	356643	60594	30	1
stein9	0.02	296	6	5	1
Test3	947.93	296947	6219	2673520.21	1
vpml	0.95	1945	102	20	1

Table 65: *Dist – PCA – Y.*

Name	Time	Iters	Nodes	Best	Solved
22433	7.73	5787	70	21477	1
23588	85.19	43407	4367	8090	1
10teams	242.81	415047	3368	924	1
air06	29.7	11759	34	49649	1
bal8x12	0.95	2330	332	471.55	1
bell3b	1800.43	1842226	1207335	11801233.32	0
bienst1	1507.27	3930823	32405	46.75	1
blend2	4.91	12238	3915	7.6	1
bm23	0.08	1178	355	34	1
dano3_3	128.84	57596	61	576.34	1
dano3_4	262.89	118087	136	576.44	1
dano3_5	1428.53	584642	1666	576.92	1
dcmulti	13.5	11086	540	188182	1
dsbmip	6.55	2757	29	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	1171.25	624787	22474	885.41	1
enigma	108.29	1045161	141465	0	1
fiber	211.18	119582	14594	405935.18	1
fixnet4	11.18	10577	599	8936	1
fixnet6	20.5	20189	2223	3983	1
flugpl	0.75	2574	3050	1201500	1
gen	3.49	7010	351	112313.36	1
gr4x6	0.1	702	107	202.35	1
gt2	1.26	5625	915	21166	1
irp	63.08	6373	533	12159.49	1
khh05250	1.85	2757	69	106940226	1
l152lav	161.78	78230	5457	4722	1
lseu	9.86	58490	28193	1120	1
mas284	146.71	242234	54729	91405.72	1
misc01	0.46	3998	565	563.5	1
misc02	0.1	1173	121	1690	1
misc03	12.94	33624	3075	3360	1
misc04	2.1	2788	13	2666.7	1
misc05	1.64	4405	392	2984.5	1
misc06	0.73	1973	31	12850.86	1
misc07	1409.15	1056107	93134	2810	1
mod008	15	30916	13507	307	1
mod013	0.66	2263	708	280.95	1
neos-506422	237.21	192894	1893	0	1
neos-584851	70.01	50570	1863	-11	1
neos-709469	10.76	26558	690	493.16	1
neos-777800	392.39	601920	720	-80	1
neos-785899	908.57	678544	12908	101	1
neos-785914	1311.61	1743877	6730	38	1
neos-801834	597.47	96427	1585	50386	1
neos-803219	372.56	296217	64394	210.3	1
neos-803220	790.51	561147	136787	195.4	1
neos-806323	219.19	171143	26187	215	1
neos-807639	1800.19	614931	112573	454.2	0
neos-807705	1262.7	1025693	186170	342.4	1
neos-810286	108.25	38471	65	2877	1
nug08	64.6	34063	111	214	1
nw04	53.52	1766	124	16862	1
p0033	0.07	1220	463	3089	1
p0201	3.47	11396	893	7615	1
p0282	20.46	17422	1530	258411	1
p0291	0.13	1087	207	5223.75	1

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Table 65 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	2.74	4357	433	8691	1
p2756	18.45	7265	1224	3124	1
pipex	0.78	6775	2214	788.26	1
pp08a	834.48	432033	55701	7350	1
qap10	509.01	266944	141	340	1
qnet1	20.93	31661	733	16029.69	1
qnet1_o	23.19	41152	908	16029.69	1
ran10x10a	27.86	63158	27358	1499	1
ran10x10b	4.56	11904	3772	3073	1
ran10x12	5.68	11548	3395	2714	1
ran4x64	2.91	5271	1889	9711	1
ran6x43	1.59	2882	806	6330	1
rentacar	4.18	4601	41	30356760.98	1
rgn	11.22	24889	4701	82.2	1
roy	3.42	8671	3664	3208.96	1
sef1al	1.65	645	25	15869.75	1
stein15	1.23	5130	79	9	1
stein27	12.3	20456	3226	18	1
stein45	411.39	356809	60630	30	1
stein9	0.02	296	6	5	1
Test3	1194.54	296947	6219	2673520.21	1
vpml	0.94	1945	102	20	1

Table 66: $Dist - BPrA_1 - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.15	6443	109	21477	1
23588	66.04	42872	4166	8090	1
10teams	95.86	245643	1418	924	1
air06	23.86	11759	34	49649	1
bal8x12	0.67	1714	156	471.55	1
bell3b	26.39	31584	19043	11786160.62	1
bienst1	1501.4	4037511	33317	46.75	1
blend2	6.36	23544	4658	7.6	1
bm23	0.09	1353	413	34	1
dano3_3	87.95	45883	58	576.34	1
dano3_4	107.92	57464	87	576.44	1
dano3_5	1039.02	493535	1589	576.92	1
dcmulti	10.95	11147	503	188182	1
dsbmip	5.5	2725	28	-305.2	1
egout	0.11	591	18	568.1	1
eilD76	1268.46	624781	22474	885.41	1
enigma	119.89	1166027	157727	0	1
fiber	155.91	125686	15214	405935.18	1
fixnet4	9.81	11635	740	8936	1
fixnet6	16.37	20507	2297	3983	1
flugpl	0.79	2784	3263	1201500	1
gen	3.26	7468	343	112313.36	1
gr4x6	0.09	644	87	202.35	1
gt2	1.24	4432	1086	21166	1
irp	45.23	6516	434	12159.49	1
khb05250	1.6	2924	67	106940226	1
l152lav	111.51	78789	5482	4722	1
lseu	13.75	59412	28481	1120	1
mas284	168.4	233038	52235	91405.72	1
misc01	0.46	3950	557	563.5	1
misc02	0.1	1163	115	1690	1
misc03	13.2	33896	3025	3360	1
misc04	2.21	2704	13	2666.7	1
misc05	1.72	4291	383	2984.5	1
misc06	0.78	1950	38	12850.86	1
misc07	1592.8	1055405	93072	2810	1
mod008	11.87	27652	9609	307	1
mod013	0.56	1976	547	280.95	1
neos-506422	331.73	234711	3026	0	1
neos-584851	70.98	50116	1864	-11	1
neos-709469	33.63	81508	3141	493.16	1
neos-777800	363.83	601920	720	-80	1

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Table 66 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	725.13	593412	11799	101	1
neos-785914	1200.36	1743877	6730	38	1
neos-801834	523.84	87123	1453	50386	1
neos-803219	431.46	299801	64075	210.3	1
neos-803220	1323.85	566246	137977	195.4	1
neos-806323	217.54	170644	26062	215	1
neos-807639	1799.18	562838	97704	454.2	0
neos-807705	1799.56	928875	164448	342.4	0
neos-810286	108.94	38471	65	2877	1
nug08	64.63	34723	113	214	1
nw04	36.77	1394	81	16862	1
p0033	0.07	1090	463	3089	1
p0201	4.05	13349	1093	7615	1
p0282	20.56	17703	1533	258411	1
p0291	0.14	1355	213	5223.75	1
p0548	2.98	4667	522	8691	1
p2756	16.26	6600	1023	3124	1
pipeX	0.57	4805	1274	788.26	1
pp08a	861.67	425281	55327	7350	1
qap10	580.65	280965	141	340	1
qnet1	18.74	28662	603	16029.69	1
qnet1.o	22.76	41255	823	16029.69	1
ran10x10a	17.49	34893	14003	1499	1
ran10x10b	3.83	10095	3071	3073	1
ran10x12	4.99	10364	2999	2714	1
ran4x64	1.23	3259	716	9711	1
ran6x43	1.71	3191	874	6330	1
rentacar	4.82	5523	51	30356760.98	1
rgn	11.56	25374	4791	82.2	1
roy	3.28	8203	3401	3208.96	1
set1al	1.65	645	25	15869.75	1
stein15	1.24	5130	79	9	1
stein27	12	20456	3226	18	1
stein45	465.21	356643	60594	30	1
stein9	0.02	296	6	5	1
Test3	967.66	286096	5708	2673520.21	1
vpml	0.94	1945	102	20	1

Table 67: $Dist - BPrA_1 - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	8.1	6443	109	21477	1
23588	65.51	42872	4166	8090	1
10teams	95.91	245643	1418	924	1
air06	23.91	11759	34	49649	1
bal8x12	0.96	2492	376	471.55	1
bell3b	25.78	31581	19041	11786160.62	1
bienst1	1458.68	4037511	33317	46.75	1
blend2	6.35	23544	4658	7.6	1
bm23	0.1	1353	431	34	1
dano3_3	88.6	45883	58	576.34	1
dano3_4	108.89	57464	87	576.44	1
dano3_5	1192.8	493535	1589	576.92	1
dcmulti	10.96	11147	503	188182	1
dsbmip	5.48	2725	28	-305.2	1
egout	0.1	591	18	568.1	1
eilD76	1326.13	624781	22474	885.41	1
enigma	122.33	1173136	158661	0	1
fiber	157.07	125686	15214	405935.18	1
fixnet4	9.73	11635	740	8936	1
fixnet6	16.27	20507	2297	3983	1
flugpl	0.76	2787	3279	1201500	1
gen	3.09	6904	320	112313.36	1
gr4x6	0.08	644	87	202.35	1
gt2	1.27	4432	1086	21166	1
irp	45.19	6516	434	12159.49	1
khb05250	1.6	2924	67	106940226	1
l152lav	109.15	78789	5482	4722	1

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Table 67 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	10.69	72556	34659	1120	1
mas284	126.64	233038	52235	91405.72	1
misc01	0.45	3950	557	563.5	1
misc02	0.1	1163	115	1690	1
misc03	11.91	33896	3025	3360	1
misc04	1.84	2704	13	2666.7	1
misc05	1.58	4291	383	2984.5	1
misc06	0.72	1950	38	12850.86	1
misc07	1198.78	1055405	93072	2810	1
mod008	10.76	27652	9609	307	1
mod013	0.63	2236	688	280.95	1
neos-506422	306.86	230872	2965	0	1
neos-584851	65	50116	1864	-11	1
neos-709469	8.75	19734	515	493.16	1
neos-777800	367.84	601920	720	-80	1
neos-785899	883.35	621480	12171	101	1
neos-785914	1306.53	1743877	6730	38	1
neos-801834	554.09	87123	1453	50386	1
neos-803219	368.72	298323	64895	210.3	1
neos-803220	822.6	568120	138233	195.4	1
neos-806323	217.95	170644	26062	215	1
neos-807639	1799.35	588563	106778	454.2	0
neos-807705	1308.3	1046385	190264	342.4	1
neos-810286	108.13	38471	65	2877	1
nug08	64.64	34614	113	214	1
nw04	36.78	1394	81	16862	1
p0033	0.07	1090	463	3089	1
p0201	4.09	13432	1095	7615	1
p0282	20.53	17703	1533	258411	1
p0291	0.14	1355	213	5223.75	1
p0548	2.98	4667	522	8691	1
p2756	16.24	6600	1023	3124	1
pipex	0.85	7887	2329	788.26	1
pp08a	847.74	425281	55327	7350	1
qap10	588.08	280965	141	340	1
qnet1	19.35	29349	652	16029.69	1
qnet1.o	23.1	41633	871	16029.69	1
ran10x10a	25.35	57689	24861	1499	1
ran10x10b	3.87	10095	3071	3073	1
ran10x12	5	10364	2999	2714	1
ran4x64	1.29	3259	716	9711	1
ran6x43	1.93	3272	959	6330	1
rentacar	4.77	5523	51	30356760.98	1
rgn	11.42	25374	4791	82.2	1
roy	2.6	6718	2866	3208.96	1
set1al	1.66	645	25	15869.75	1
stein15	1.23	5130	79	9	1
stein27	12.12	20456	3226	18	1
stein45	408.2	356809	60630	30	1
stein9	0.02	296	6	5	1
Test3	1224.39	286096	5708	2673520.21	1
vpm1	0.94	1945	102	20	1

Table 68: $BPr_1 - Lf - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.02	5606	67	21477	1
23588	67.11	43066	4291	8090	1
10teams	107.67	220125	1402	924	1
air06	23.84	11831	35	49649	1
bal8x12	1.09	2767	419	471.55	1
bell3b	22.49	28468	17822	11786160.62	1
bienst1	1446.91	3989487	32695	46.75	1
blend2	11.04	22469	8785	7.6	1
bm23	0.08	1308	404	34	1
dano3_3	81.49	42456	58	576.34	1
dano3_4	110.94	59116	102	576.44	1
dano3_5	1221.83	572913	1792	576.92	1

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Table 68 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	10.76	10683	462	188182	1
dsbmip	5.55	2758	34	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	977.47	621568	21839	885.41	1
enigma	81.85	845969	112778	0	1
fiber	163.91	133941	16308	405935.18	1
fixnet4	9.17	10837	657	8936	1
fixnet6	16.35	20623	2295	3983	1
flugpl	0.76	2893	3480	1201500	1
gen	3.01	6772	295	112313.36	1
gr4x6	0.09	682	102	202.35	1
gt2	1.11	4114	863	21166	1
irp	39.2	4942	292	12159.49	1
khb05250	1.59	2798	77	106940226	1
l152lav	107.46	80516	5332	4722	1
lseu	10	63519	30272	1120	1
mas284	129.16	232585	52056	91405.72	1
misc01	0.45	4008	569	563.5	1
misc02	0.1	1179	118	1690	1
misc03	12.72	36972	3229	3360	1
misc04	1.88	2742	13	2666.7	1
misc05	1.55	4235	379	2984.5	1
misc06	0.7	1917	31	12850.86	1
misc07	1281.94	1060300	93498	2810	1
mod008	16.35	33413	15303	307	1
mod013	0.62	2140	624	280.95	1
neos-506422	631.74	482683	6140	0	1
neos-584851	71.88	50116	1864	-11	1
neos-709469	11.14	26558	690	493.16	1
neos-777800	372.22	601920	720	-80	1
neos-785899	785.09	634901	12284	101	1
neos-785914	1206.28	1743877	6730	38	1
neos-801834	560.97	91753	1500	50386	1
neos-803219	359.58	295606	63067	210.3	1
neos-803220	904.42	584305	141737	195.4	1
neos-806323	211.75	173486	26430	215	1
neos-807639	1800.06	578074	108351	454.2	0
neos-807705	1199.13	939339	166765	342.4	1
neos-810286	108.43	38471	65	2877	1
nug08	64.42	34172	111	214	1
nw04	61.79	1883	125	16862	1
p0033	0.07	1096	466	3089	1
p0201	3.45	11349	888	7615	1
p0282	25.31	18851	1810	258411	1
p0291	0.12	1105	205	5223.75	1
p0548	3.07	4817	521	8691	1
p2756	14.38	5548	815	3124	1
pipex	0.5	4527	1464	788.26	1
pp08a	765.58	418453	53978	7350	1
qap10	549.49	261378	141	340	1
qnet1	17.59	24820	730	16029.69	1
qnet1_o	26.83	47946	1067	16029.69	1
ran10x10a	15.85	38237	14582	1499	1
ran10x10b	5.77	16306	4867	3073	1
ran10x12	3.71	7957	2304	2714	1
ran4x64	1.52	2689	979	9711	1
ran6x43	1.45	2485	703	6330	1
rentacar	5.19	6155	49	30356760.98	1
rgn	10.76	24823	4701	82.2	1
roy	2.45	6676	2847	3208.96	1
set1al	1.67	668	36	15869.75	1
stein15	1.22	5130	79	9	1
stein27	11.86	20456	3226	18	1
stein45	377.6	345877	58162	30	1
stein9	0.02	296	6	5	1
Test3	1799.69	396493	8141	not	0
vpml	0.79	1640	53	20	1

Table 69: $BP_{r_1} - Lf - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.01	5606	67	21477	1
23588	67.03	43066	4291	8090	1
10teams	107.96	220125	1402	924	1
air06	24.04	11831	35	49649	1
bal8x12	1.08	2767	419	471.55	1
bell3b	22.8	28468	17822	11786160.62	1
bienst1	1497.27	3989487	32695	46.75	1
blend2	11.72	22469	8785	7.6	1
bm23	0.08	1308	404	34	1
dano3_3	81.36	42456	58	576.34	1
dano3_4	111.06	59116	102	576.44	1
dano3_5	1204.66	572913	1792	576.92	1
dcmulti	10.73	10683	462	188182	1
dsbmip	5.54	2758	34	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	1091.77	621568	21839	885.41	1
enigma	84.16	845969	112778	0	1
fiber	163.97	133941	16308	405935.18	1
fixnet4	9.25	10837	657	8936	1
fixnet6	16.33	20623	2295	3983	1
flugpl	0.78	2893	3480	1201500	1
gen	2.99	6772	295	112313.36	1
gr4x6	0.09	690	107	202.35	1
gt2	1.11	4114	863	21166	1
irp	39.04	4942	292	12159.49	1
khh05250	1.59	2798	77	106940226	1
l152lav	111.52	80516	5332	4722	1
lseu	10.03	63519	30272	1120	1
mas284	128.58	232585	52056	91405.72	1
misc01	0.45	4008	569	563.5	1
misc02	0.1	1179	118	1690	1
misc03	12.66	36972	3229	3360	1
misc04	1.85	2742	13	2666.7	1
misc05	1.55	4235	379	2984.5	1
misc06	0.68	1917	31	12850.86	1
misc07	1411.92	1060300	93498	2810	1
mod008	15.59	33413	15303	307	1
mod013	0.58	2140	624	280.95	1
neos-506422	654.32	482683	6140	0	1
neos-584851	64.48	50116	1864	-11	1
neos-709469	10.06	26558	690	493.16	1
neos-777800	379.46	601920	720	-80	1
neos-785899	763.56	634901	12284	101	1
neos-785914	1206.84	1743877	6730	38	1
neos-801834	565.1	91753	1500	50386	1
neos-803219	363.88	295606	63067	210.3	1
neos-803220	904.17	589432	143187	195.4	1
neos-806323	214.45	173486	26430	215	1
neos-807639	1800.08	634373	118719	454.2	0
neos-807705	1209.63	939339	166765	342.4	1
neos-810286	108.21	38471	65	2877	1
nug08	64.76	34172	111	214	1
nw04	54.73	1883	125	16862	1
p0033	0.06	1096	466	3089	1
p0201	3.44	11349	888	7615	1
p0282	25.21	18851	1810	258411	1
p0291	0.12	1105	205	5223.75	1
p0548	3.06	4817	521	8691	1
p2756	14.43	5548	815	3124	1
pipex	0.49	4527	1464	788.26	1
pp08a	797.39	418453	53978	7350	1
qap10	528.35	261378	141	340	1
qnet1	17.71	24820	730	16029.69	1
qnet1.o	26.46	47946	1067	16029.69	1
ran10x10a	15.64	38237	14582	1499	1
ran10x10b	5.75	16306	4867	3073	1
ran10x12	3.64	7957	2304	2714	1
ran4x64	1.53	2689	979	9711	1
ran6x43	1.39	2485	703	6330	1
rentacar	5.15	6155	49	30356760.98	1
rgn	10.95	24823	4701	82.2	1
roy	2.44	6676	2847	3208.96	1

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Table 69 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.67	669	37	15869.75	1
stein15	1.22	5130	79	9	1
stein27	11.92	20456	3226	18	1
stein45	377.62	345877	58162	30	1
stein9	0.02	296	6	5	1
Test3	1800.66	403420	8569	2673524.4	0
vpml	0.78	1640	53	20	1

Table 70: $BPr_1 - E - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	6.88	5467	51	21477	1
23588	64.78	42755	4165	8090	1
10teams	533.75	709646	5219	924	1
air06	19.19	10854	26	49649	1
bal8x12	0.62	1541	129	471.55	1
bell3b	29.13	37508	22574	11786160.62	1
bienst1	1450.38	3932483	32387	46.75	1
blend2	5.01	12675	3756	7.6	1
bm23	0.07	1049	307	34	1
dano3_3	119.42	61012	64	576.34	1
dano3_4	280.84	145651	123	576.44	1
dano3_5	1241.47	589214	1648	576.92	1
dcmulti	11.5	13069	475	188182	1
dsbmip	6.26	3420	65	-305.2	1
egout	0.1	576	13	568.1	1
eilD76	1184.54	598826	20834	885.41	1
enigma	33.02	339460	44693	0	1
fiber	137.62	115221	13710	405935.18	1
fixnet4	9.41	11855	631	8936	1
fixnet6	16.3	20797	2201	3983	1
flugpl	0.76	2697	3223	1201500	1
gen	2.96	6847	267	112313.36	1
gr4x6	0.08	581	57	202.35	1
gt2	0.38	1447	94	21166	1
irp	56.72	6658	388	12159.49	1
khh05250	2.02	3095	64	106940226	1
l152lav	130.17	73830	4683	4722	1
lseu	11.96	73527	33895	1120	1
mas284	129.26	238164	52782	91405.72	1
misc01	0.44	3977	557	563.5	1
misc02	0.1	1179	113	1690	1
misc03	12.45	33251	2961	3360	1
misc04	2.05	2939	18	2666.7	1
misc05	1.6	4396	379	2984.5	1
misc06	0.85	2176	59	12850.86	1
misc07	1189.15	1055613	93063	2810	1
mod008	13.59	35686	11563	307	1
mod013	0.51	1893	509	280.95	1
neos-506422	261.33	221626	1610	0	1
neos-584851	65.49	52421	1870	-11	1
neos-709469	8.41	18847	501	493.16	1
neos-777800	418.08	515762	763	-80	1
neos-785899	723.69	570021	11113	101	1
neos-785914	31.2	20059	92	38	1
neos-801834	524.49	86782	1449	50386	1
neos-803219	363.97	303512	63131	210.3	1
neos-803220	944.5	568696	136773	195.4	1
neos-806323	214.71	171312	25803	215	1
neos-807639	1800.22	622787	116418	454.2	0
neos-807705	1198.25	941876	165021	342.4	1
neos-810286	1800.46	275435	1438	not	0
nug08	64.51	34484	113	214	1
nw04	37.21	1392	81	16862	1
p0033	0.06	1149	395	3089	1
p0201	3.49	11493	872	7615	1
p0282	23.04	21287	1661	258411	1
p0291	0.14	1555	163	5223.75	1

Continued on next page

Table 70 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	3.04	5399	412	8691	1
p2756	19.67	10183	1203	3124	1
pipex	0.37	3661	875	788.26	1
pp08a	829.1	414666	53427	7350	1
qap10	628.22	283506	146	340	1
qnet1	22.64	36434	788	16029.69	1
qnet1.o	25.9	49354	853	16029.69	1
ran10x10a	12.29	30521	11111	1499	1
ran10x10b	4.06	10745	3455	3073	1
ran10x12	3.26	7134	1929	2714	1
ran4x64	0.65	1598	353	9711	1
ran6x43	1.21	2423	564	6330	1
rentacar	5.35	6462	43	30356760.98	1
rgn	11.12	25409	4775	82.2	1
roy	2.59	7275	2829	3208.96	1
set1al	1.72	753	76	15869.75	1
stein15	1.22	5125	78	9	1
stein27	12.34	20460	3224	18	1
stein45	369.12	339962	56539	30	1
stein9	0.01	293	4	5	1
Test3	1058.42	314766	6459	2673520.21	1
vpml	0.86	1779	78	20	1

Table 71: $BP r_1 - E - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	6.86	5467	51	21477	1
23588	65.19	42755	4165	8090	1
10teams	529.86	709646	5219	924	1
air06	19.14	10854	26	49649	1
bal8x12	0.62	1541	129	471.55	1
bell3b	22.43	28463	17820	11786160.62	1
bienst1	1452.67	3932483	32387	46.75	1
blend2	4.94	12675	3756	7.6	1
bm23	0.07	1049	307	34	1
dano3_3	120.1	61012	64	576.34	1
dano3_4	281.81	145651	123	576.44	1
dano3_5	1277.7	589214	1648	576.92	1
dcmulti	11.49	13069	475	188182	1
dsbmp	6.27	3420	65	-305.2	1
egout	0.1	578	15	568.1	1
eilD76	1178.27	598826	20834	885.41	1
enigma	51	516469	68992	0	1
fiber	136.11	115221	13710	405935.18	1
fixnet4	9.41	11855	631	8936	1
fixnet6	16.31	20797	2201	3983	1
flugpl	0.76	2697	3223	1201500	1
gen	2.95	6847	267	112313.36	1
gr4x6	0.08	581	57	202.35	1
gt2	0.39	1447	94	21166	1
irp	52.41	6658	388	12159.49	1
khh05250	1.59	2798	77	106940226	1
l152lav	96.37	73830	4683	4722	1
lseu	8.94	56450	27354	1120	1
mas284	127.29	238164	52782	91405.72	1
misc01	0.46	3977	557	563.5	1
misc02	0.1	1179	113	1690	1
misc03	13.08	33251	2961	3360	1
misc04	2.44	2939	18	2666.7	1
misc05	1.72	4396	379	2984.5	1
misc06	0.92	2176	59	12850.86	1
misc07	1309.33	1055613	93063	2810	1
mod008	14.86	35686	11563	307	1
mod013	0.57	1989	574	280.95	1
neos-506422	257.82	221626	1610	0	1
neos-584851	72.38	52421	1870	-11	1
neos-709469	8.71	18847	501	493.16	1
neos-777800	417.36	515762	763	-80	1

Continued on next page

Table 71 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	691.54	570021	11113	101	1
neos-785914	31.14	20059	92	38	1
neos-801834	519.25	86782	1449	50386	1
neos-803219	367.59	303512	63131	210.3	1
neos-803220	932.74	584622	141809	195.4	1
neos-806323	212.79	171312	25803	215	1
neos-807639	1800.23	622335	116342	454.2	0
neos-807705	1200.5	946194	165946	342.4	1
neos-810286	1799.5	279121	1451	not	0
nug08	64.82	34484	113	214	1
nw04	36.87	1392	81	16862	1
p0033	0.07	1227	453	3089	1
p0201	3.46	11493	872	7615	1
p0282	23.15	21287	1661	258411	1
p0291	0.14	1555	163	5223.75	1
p0548	3.03	5399	412	8691	1
p2756	19.11	5548	815	3124	1
pipeX	0.37	3661	875	788.26	1
pp08a	722.75	414666	53427	7350	1
qap10	486.67	283506	146	340	1
qnet1	29.9	36434	788	16029.69	1
qnet1.o	32.95	49354	853	16029.69	1
ran10x10a	13.51	30521	11111	1499	1
ran10x10b	4.23	10745	3455	3073	1
ran10x12	3.49	7134	1929	2714	1
ran4x64	1.87	3268	1157	9711	1
ran6x43	1.28	2423	564	6330	1
rentacar	6.28	6462	43	30356760.98	1
rgn	11.09	24969	4724	82.2	1
roy	2.61	7275	2829	3208.96	1
set1al	1.74	753	76	15869.75	1
stein15	1.24	5125	78	9	1
stein27	11.99	20460	3224	18	1
stein45	367.49	339962	56539	30	1
stein9	0.01	293	4	5	1
Test3	1058.21	314766	6459	2673520.21	1
vpml	0.94	1953	103	20	1

Table 72: $BPr_1 - BPr_{A_0} - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	6.98	5566	64	21477	1
23588	67.04	43034	4185	8090	1
10teams	105.01	214204	1242	924	1
air06	24.02	11831	35	49649	1
bal8x12	1.08	2751	412	471.55	1
bell3b	22.48	28415	17803	11786160.62	1
bienst1	1437.77	3988676	32670	46.75	1
blend2	10.19	20837	7653	7.6	1
bm23	0.08	1300	401	34	1
dano3_3	81.25	42456	58	576.34	1
dano3_4	109.68	58805	100	576.44	1
dano3_5	1216.52	570051	1771	576.92	1
dcmulti	10.86	10683	462	188182	1
dsbmip	5.5	2758	34	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	1025.74	620798	21791	885.41	1
enigma	82.11	844369	112546	0	1
fiber	181.91	132179	16037	405935.18	1
fixnet4	12.06	10837	657	8936	1
fixnet6	21	20594	2284	3983	1
flugpl	0.8	2910	3483	1201500	1
gen	3.2	6718	279	112313.36	1
gr4x6	0.08	640	84	202.35	1
gt2	1.14	4114	863	21166	1
irp	41.26	4942	292	12159.49	1
khb05250	1.49	2689	57	106940226	1
l152lav	109.4	80303	5316	4722	1

Continued on next page

Table 72 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	10.04	63519	30272	1120	1
mas284	129.04	232604	52052	91405.72	1
misc01	0.45	4008	569	563.5	1
misc02	0.1	1179	118	1690	1
misc03	12.63	36972	3229	3360	1
misc04	1.86	2742	13	2666.7	1
misc05	1.56	4235	379	2984.5	1
misc06	0.7	1917	31	12850.86	1
misc07	1446.2	1060095	93448	2810	1
mod008	11.3	28421	10414	307	1
mod013	0.57	2083	605	280.95	1
neos-506422	629.12	482035	6109	0	1
neos-584851	64.34	50116	1864	-11	1
neos-709469	10.06	26558	690	493.16	1
neos-777800	363.21	601920	720	-80	1
neos-785899	775.79	634901	12284	101	1
neos-785914	1205.39	1743877	6730	38	1
neos-801834	529.44	91753	1500	50386	1
neos-803219	347.28	286323	59937	210.3	1
neos-803220	962.23	582831	139890	195.4	1
neos-806323	211.83	173426	26407	215	1
neos-807639	1800.3	607471	113504	454.2	0
neos-807705	1184.69	905448	160649	342.4	1
neos-810286	108.37	38471	65	2877	1
nug08	64.52	34172	111	214	1
nw04	55.19	1883	125	16862	1
p0033	0.07	1096	466	3089	1
p0201	3.43	11349	888	7615	1
p0282	20.23	17869	1385	258411	1
p0291	0.12	1112	196	5223.75	1
p0548	3.06	4808	518	8691	1
p2756	15.13	5833	867	3124	1
pipex	0.47	4498	1281	788.26	1
pp08a	789.44	418451	53971	7350	1
qap10	528.44	261378	141	340	1
qnet1	17.24	24155	704	16029.69	1
qnet1.o	24.37	44210	894	16029.69	1
ran10x10a	12.91	31827	11870	1499	1
ran10x10b	5.83	15728	4801	3073	1
ran10x12	3.28	6895	2030	2714	1
ran4x64	1.36	2469	871	9711	1
ran6x43	1.4	2485	703	6330	1
rentacar	5.19	6155	49	30356760.98	1
rgn	10.92	24823	4701	82.2	1
roy	2.58	6795	2855	3208.96	1
set1al	1.67	668	36	15869.75	1
stein15	1.22	5130	79	9	1
stein27	11.87	20456	3226	18	1
stein45	377.2	345780	58136	30	1
stein9	0.02	296	6	5	1
Test3	1799.99	397601	8249	not	0
vpm1	0.79	1640	53	20	1

Table 73: $BPr_1 - BPr_{A_0} - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	6.97	5566	64	21477	1
23588	66.24	43034	4185	8090	1
10teams	103.36	214204	1242	924	1
air06	23.86	11831	35	49649	1
bal8x12	1.08	2751	412	471.55	1
bell3b	22.6	28415	17803	11786160.62	1
bienst1	1455.98	3988676	32670	46.75	1
blend2	9.78	20837	7653	7.6	1
bm23	0.08	1300	401	34	1
dano3_3	81.89	42456	58	576.34	1
dano3_4	110.97	58805	100	576.44	1
dano3_5	1206.75	570051	1771	576.92	1

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Table 73 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	10.83	10683	462	188182	1
dsbmip	5.52	2758	34	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	1257.87	620798	21791	885.41	1
enigma	82	845969	112778	0	1
fiber	160.59	132179	16037	405935.18	1
fixnet4	9.12	10837	657	8936	1
fixnet6	16.32	20594	2284	3983	1
flugpl	0.79	2910	3483	1201500	1
gen	2.95	6718	279	112313.36	1
gr4x6	0.08	640	84	202.35	1
gt2	1.1	4114	863	21166	1
irp	38.89	4942	292	12159.49	1
khb05250	1.5	2689	57	106940226	1
l152lav	111.86	80303	5316	4722	1
lseu	10	63519	30272	1120	1
mas284	129.15	232604	52052	91405.72	1
misc01	0.45	4008	569	563.5	1
misc02	0.1	1179	118	1690	1
misc03	12.69	36972	3229	3360	1
misc04	1.84	2742	13	2666.7	1
misc05	1.56	4235	379	2984.5	1
misc06	0.7	1917	31	12850.86	1
misc07	1209.27	1060095	93448	2810	1
mod008	11.36	28421	10414	307	1
mod013	0.57	2083	605	280.95	1
neos-506422	593.83	482035	6109	0	1
neos-584851	64.34	50116	1864	-11	1
neos-709469	10.02	26558	690	493.16	1
neos-777800	364.19	601920	720	-80	1
neos-785899	799.21	634901	12284	101	1
neos-785914	1220.73	1743877	6730	38	1
neos-801834	550.71	91753	1500	50386	1
neos-803219	348.56	286323	59937	210.3	1
neos-803220	894.34	588909	141696	195.4	1
neos-806323	214.06	173426	26407	215	1
neos-807639	1799.21	623457	116645	454.2	0
neos-807705	1167.98	905448	160649	342.4	1
neos-810286	108.27	38471	65	2877	1
nug08	64.78	34172	111	214	1
nw04	54.72	1883	125	16862	1
p0033	0.07	1096	466	3089	1
p0201	3.42	11349	888	7615	1
p0282	20.36	17869	1385	258411	1
p0291	0.12	1112	196	5223.75	1
p0548	3.08	4808	518	8691	1
p2756	14.92	5833	867	3124	1
pipex	0.47	4498	1281	788.26	1
pp08a	792.35	418451	53971	7350	1
qap10	514.76	261378	141	340	1
qnet1	17.25	24155	704	16029.69	1
qnet1_o	24.25	44210	894	16029.69	1
ran10x10a	12.98	31827	11870	1499	1
ran10x10b	5.68	15728	4801	3073	1
ran10x12	3.29	6895	2030	2714	1
ran4x64	1.36	2469	871	9711	1
ran6x43	1.4	2485	703	6330	1
rentacar	5.2	6155	49	30356760.98	1
rgn	10.85	24823	4701	82.2	1
roy	2.46	6676	2847	3208.96	1
set1al	1.66	668	36	15869.75	1
stein15	1.23	5130	79	9	1
stein27	11.84	20456	3226	18	1
stein45	403.72	345780	58136	30	1
stein9	0.02	296	6	5	1
Test3	1800.69	403412	8566	2673524.4	0
vpml	0.79	1640	53	20	1

Table 74: $BPr_1 - DExA - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.01	5606	67	21477	1
23588	66.82	43052	4289	8090	1
10teams	106.43	215098	1355	924	1
air06	24.13	11831	35	49649	1
bal8x12	1.15	2980	458	471.55	1
bell3b	22.55	28238	17710	11786160.62	1
bienst1	1450.86	3989421	32694	46.75	1
blend2	7.26	12730	6084	7.6	1
bm23	0.09	1308	404	34	1
dano3_3	78.82	41494	52	576.34	1
dano3_4	131.4	71037	93	576.44	1
dano3_5	1314.14	621939	1794	576.92	1
dcmulti	10.68	10669	456	188182	1
dsbmip	5.54	2758	34	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	1100.96	603998	20881	885.41	1
enigma	80.63	839825	111857	0	1
fiber	164.61	133862	16297	405935.18	1
fixnet4	9.06	10810	651	8936	1
fixnet6	16.26	20544	2268	3983	1
flugpl	0.93	3351	4073	1201500	1
gen	3	6772	295	112313.36	1
gr4x6	0.09	682	102	202.35	1
gt2	1.09	4043	839	21166	1
irp	39.04	4942	292	12159.49	1
khh05250	1.58	2798	77	106940226	1
l152lav	112.44	80463	5328	4722	1
lseu	9.38	58448	28139	1120	1
mas284	139.6	232513	52024	91405.72	1
misc01	0.46	4008	569	563.5	1
misc02	0.1	1179	118	1690	1
misc03	12.68	33242	2967	3360	1
misc04	2.23	2742	13	2666.7	1
misc05	1.66	4235	379	2984.5	1
misc06	0.74	1917	31	12850.86	1
misc07	1325.39	1060398	93473	2810	1
mod008	13.17	29240	11224	307	1
mod013	0.59	2099	612	280.95	1
neos-506422	420.13	329776	3103	0	1
neos-584851	66.62	50116	1864	-11	1
neos-709469	9.97	26186	680	493.16	1
neos-777800	366.21	601920	720	-80	1
neos-785899	723.32	631570	12218	101	1
neos-785914	1211.48	1743877	6730	38	1
neos-801834	549.14	91359	1483	50386	1
neos-803219	359.05	295402	62970	210.3	1
neos-803220	928.19	584383	141721	195.4	1
neos-806323	215.55	177726	26652	215	1
neos-807639	1799.37	568804	106206	454.2	0
neos-807705	1406.16	939060	166619	342.4	1
neos-810286	108.98	38471	65	2877	1
nug08	65.52	34172	111	214	1
nw04	54.84	1883	125	16862	1
p0033	0.07	1096	466	3089	1
p0201	3.44	11326	884	7615	1
p0282	25.12	18887	1766	258411	1
p0291	0.12	1105	205	5223.75	1
p0548	2.85	4558	439	8691	1
p2756	12.97	4911	658	3124	1
pipex	0.5	4484	1453	788.26	1
pp08a	739.2	418394	53966	7350	1
qap10	566.02	273830	141	340	1
qnet1	16.95	23514	696	16029.69	1
qnet1.o	24.27	43614	912	16029.69	1
ran10x10a	15.25	35791	13947	1499	1
ran10x10b	4.9	13472	4102	3073	1
ran10x12	3.59	7758	2248	2714	1
ran4x64	1.3	2437	821	9711	1
ran6x43	1.37	2461	679	6330	1
rentacar	5.21	6155	49	30356760.98	1
rgn	10.72	24823	4701	82.2	1
roy	2.43	6656	2838	3208.96	1

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Table 74 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1al	1.67	668	36	15869.75	1
stein15	1.23	5130	79	9	1
stein27	11.98	20456	3226	18	1
stein45	383.91	345877	58162	30	1
stein9	0.02	296	6	5	1
Test3	1800.13	403583	11500	2673520.21	0
vpml	0.79	1640	53	20	1

Table 75: $BPr_1 - DExA - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.05	5606	67	21477	1
23588	66.69	43052	4289	8090	1
10teams	105.9	215098	1355	924	1
air06	23.9	11831	35	49649	1
bal8x12	1.14	2980	458	471.55	1
bell3b	22.39	28238	17710	11786160.62	1
bienst1	1453.22	3989421	32694	46.75	1
blend2	7.54	12730	6084	7.6	1
bm23	0.08	1308	404	34	1
dano3_3	79.86	41494	52	576.34	1
dano3_4	131.72	71037	93	576.44	1
dano3_5	1321.21	621939	1794	576.92	1
dcmulti	10.74	10669	456	188182	1
dsbmip	5.53	2758	34	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	1186.03	603998	20881	885.41	1
enigma	81.11	839825	111857	0	1
fiber	160.19	133862	16297	405935.18	1
fixnet4	9.12	10810	651	8936	1
fixnet6	16.13	20544	2268	3983	1
flugpl	0.77	2893	3480	1201500	1
gen	3	6772	295	112313.36	1
gr4x6	0.09	682	102	202.35	1
gt2	1.06	4043	839	21166	1
irp	39.23	4942	292	12159.49	1
khh05250	1.58	2798	77	106940226	1
l152lav	108.35	80463	5328	4722	1
lseu	9.33	58448	28139	1120	1
mas284	128.09	232513	52024	91405.72	1
misc01	0.45	4008	569	563.5	1
misc02	0.1	1179	118	1690	1
misc03	11.71	33242	2967	3360	1
misc04	1.85	2742	13	2666.7	1
misc05	1.56	4235	379	2984.5	1
misc06	0.7	1917	31	12850.86	1
misc07	1184.05	1060398	93473	2810	1
mod008	12.07	29240	11224	307	1
mod013	0.57	2099	612	280.95	1
neos-506422	401.23	329776	3103	0	1
neos-584851	64.43	50116	1864	-11	1
neos-709469	9.95	26186	680	493.16	1
neos-777800	363.9	601920	720	-80	1
neos-785899	771.88	631570	12218	101	1
neos-785914	1203.88	1743877	6730	38	1
neos-801834	545.36	91359	1483	50386	1
neos-803219	364.18	295402	62970	210.3	1
neos-803220	904.96	584383	141721	195.4	1
neos-806323	215.26	177726	26652	215	1
neos-807639	1799.44	618117	115643	454.2	0
neos-807705	1205.27	939060	166619	342.4	1
neos-810286	109.55	38471	65	2877	1
nug08	64.88	34172	111	214	1
nw04	55.08	1883	125	16862	1
p0033	0.06	1096	466	3089	1
p0201	3.44	11326	884	7615	1
p0282	25.25	18887	1766	258411	1
p0291	0.12	1105	205	5223.75	1

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Table 75 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
p0548	2.86	4558	439	8691	1
p2756	12.94	4911	658	3124	1
pipeX	0.5	4484	1453	788.26	1
pp08a	767.01	418394	53966	7350	1
qap10	521.82	273830	141	340	1
qnet1	16.97	23514	696	16029.69	1
qnet1.o	24.41	43614	912	16029.69	1
ran10x10a	15.04	35791	13947	1499	1
ran10x10b	4.87	13472	4102	3073	1
ran10x12	3.65	7758	2248	2714	1
ran4x64	1.31	2437	821	9711	1
ran6x43	1.34	2461	679	6330	1
rentacar	5.18	6155	49	30356760.98	1
rgn	10.79	24823	4701	82.2	1
roy	2.43	6656	2838	3208.96	1
set1al	1.66	668	36	15869.75	1
stein15	1.23	5130	79	9	1
stein27	11.86	20456	3226	18	1
stein45	397.09	345877	58162	30	1
stein9	0.02	296	6	5	1
Test3	1800.12	404077	11593	2673520.21	0
vpml	0.79	1640	53	20	1

Table 76: $BPr_1 - PCA - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	6.86	5467	51	21477	1
23588	64.73	42755	4165	8090	1
10teams	107.86	220125	1402	924	1
air06	23.97	11831	35	49649	1
bal8x12	1.16	2987	476	471.55	1
bell3b	22.11	28114	17626	11786160.62	1
bienst1	1457.53	3932483	32387	46.75	1
blend2	4.98	13472	3835	7.6	1
bm23	0.08	1275	367	34	1
dano3_3	119.34	61012	64	576.34	1
dano3_4	279.63	145651	123	576.44	1
dano3_5	1245.73	589214	1648	576.92	1
dcmulti	11.01	10992	477	188182	1
dsbmp	6.31	3470	69	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	987.91	621568	21839	885.41	1
enigma	67.66	693013	91473	0	1
fiber	160.97	133928	16308	405935.18	1
fixnet4	8.79	10680	609	8936	1
fixnet6	16.13	20342	2191	3983	1
flugpl	0.74	2767	3329	1201500	1
gen	3.01	6772	295	112313.36	1
gr4x6	0.09	682	102	202.35	1
gt2	0.62	3348	269	21166	1
irp	38.79	4942	292	12159.49	1
khh05250	1.58	2798	77	106940226	1
l152lav	110.41	80516	5332	4722	1
lseu	12.69	74561	34327	1120	1
mas284	127.32	238164	52782	91405.72	1
misc01	0.44	3977	557	563.5	1
misc02	0.1	1179	113	1690	1
misc03	11.82	33251	2961	3360	1
misc04	2.02	2939	18	2666.7	1
misc05	1.6	4396	379	2984.5	1
misc06	0.84	2141	56	12850.86	1
misc07	1179.36	1055613	93063	2810	1
mod008	15.5	33413	15303	307	1
mod013	0.58	2069	600	280.95	1
neos-506422	265.6	227175	1655	0	1
neos-584851	68.19	52532	1870	-11	1
neos-709469	11.11	26558	690	493.16	1
neos-777800	384.46	601920	720	-80	1

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Table 76 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
neos-785899	743.15	634901	12284	101	1
neos-785914	1203.59	1743877	6730	38	1
neos-801834	548.28	91753	1500	50386	1
neos-803219	363.51	295606	63067	210.3	1
neos-803220	844.88	572815	138058	195.4	1
neos-806323	212.31	173486	26430	215	1
neos-807639	1799.02	617933	114791	454.2	0
neos-807705	1243.7	948481	166740	342.4	1
neos-810286	108.45	38471	65	2877	1
nug08	64.4	34172	111	214	1
nw04	54.93	1883	125	16862	1
p0033	0.06	1140	393	3089	1
p0201	3.43	11349	888	7615	1
p0282	19.81	17955	1304	258411	1
p0291	0.13	1105	205	5223.75	1
p0548	3	4757	508	8691	1
p2756	14.46	5548	815	3124	1
pipeX	0.49	4527	1464	788.26	1
pp08a	703.52	418453	53978	7350	1
qap10	519.39	261378	141	340	1
qnet1	22.61	36434	788	16029.69	1
qnet1.o	26.19	49354	853	16029.69	1
ran10x10a	14.96	35681	13942	1499	1
ran10x10b	5.63	16024	4774	3073	1
ran10x12	3.66	7892	2288	2714	1
ran4x64	1.37	2412	891	9711	1
ran6x43	1.4	2493	693	6330	1
rentacar	5.34	6462	43	30356760.98	1
rgn	11.06	25409	4775	82.2	1
roy	2.6	7275	2829	3208.96	1
set1al	1.65	655	25	15869.75	1
stein15	1.23	5130	79	9	1
stein27	11.88	20456	3226	18	1
stein45	385.5	345877	58162	30	1
stein9	0.01	296	6	5	1
Test3	1085.12	314766	6459	2673520.21	1
vpml	0.78	1640	53	20	1

Table 77: $BP r_1 - PCA - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	6.87	5467	51	21477	1
23588	65.29	42755	4165	8090	1
10teams	108.63	220125	1402	924	1
air06	24.03	11831	35	49649	1
bal8x12	1.16	2987	476	471.55	1
bell3b	22.25	28114	17626	11786160.62	1
bienst1	1435.71	3932483	32387	46.75	1
blend2	5.03	13472	3835	7.6	1
bm23	0.08	1275	367	34	1
dano3_3	120.48	61012	64	576.34	1
dano3_4	281.56	145651	123	576.44	1
dano3_5	1231.34	589214	1648	576.92	1
dcmulti	11.01	10992	477	188182	1
dsbmip	6.3	3470	69	-305.2	1
egout	0.1	577	14	568.1	1
eilD76	956.39	621568	21839	885.41	1
enigma	67.8	693013	91473	0	1
fiber	161.43	133928	16308	405935.18	1
fixnet4	8.77	10680	609	8936	1
fixnet6	16.16	20342	2191	3983	1
flugpl	0.7	2624	3128	1201500	1
gen	3.01	6772	295	112313.36	1
gr4x6	0.09	682	102	202.35	1
gt2	0.62	3348	269	21166	1
irp	38.88	4942	292	12159.49	1
khb05250	1.57	2798	77	106940226	1
l152lav	107.36	80516	5332	4722	1

Continued on next page

Table 77 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
lseu	11.86	74561	34327	1120	1
mas284	127.25	238164	52782	91405.72	1
misc01	0.44	3977	557	563.5	1
misc02	0.1	1179	113	1690	1
misc03	11.64	33251	2961	3360	1
misc04	2.04	2939	18	2666.7	1
misc05	1.58	4396	379	2984.5	1
misc06	0.84	2141	56	12850.86	1
misc07	1082.38	1055613	93063	2810	1
mod008	15.84	33413	15303	307	1
mod013	0.57	2069	600	280.95	1
neos-506422	253.5	227175	1655	0	1
neos-584851	66.1	52532	1870	-11	1
neos-709469	10.03	26558	690	493.16	1
neos-777800	361.37	601920	720	-80	1
neos-785899	805.93	634901	12284	101	1
neos-785914	1219.68	1743877	6730	38	1
neos-801834	539.71	91753	1500	50386	1
neos-803219	360.47	295606	63067	210.3	1
neos-803220	850.01	566581	136692	195.4	1
neos-806323	214.19	173486	26430	215	1
neos-807639	1800.31	598814	111058	454.2	0
neos-807705	1243.37	969982	170819	342.4	1
neos-810286	109.16	38471	65	2877	1
nug08	64.54	34172	111	214	1
nw04	54.86	1883	125	16862	1
p0033	0.06	1140	393	3089	1
p0201	3.46	11349	888	7615	1
p0282	19.76	17955	1304	258411	1
p0291	0.13	1105	205	5223.75	1
p0548	3.01	4757	508	8691	1
p2756	14.31	5548	815	3124	1
pipex	0.5	4527	1464	788.26	1
pp08a	801.15	418453	53978	7350	1
qap10	508.78	261378	141	340	1
qnet1	22.67	36434	788	16029.69	1
qnet1.o	25.94	49354	853	16029.69	1
ran10x10a	15.12	35681	13942	1499	1
ran10x10b	5.68	16024	4774	3073	1
ran10x12	3.67	7892	2288	2714	1
ran4x64	1.39	2412	891	9711	1
ran6x43	1.41	2493	693	6330	1
rentacar	5.37	6462	43	30356760.98	1
rgn	11.36	25409	4775	82.2	1
roy	2.59	7275	2829	3208.96	1
set1al	1.66	655	25	15869.75	1
stein15	1.23	5130	79	9	1
stein27	11.92	20456	3226	18	1
stein45	404.37	345877	58162	30	1
stein9	0.01	296	6	5	1
Test3	1055.91	314766	6459	2673520.21	1
vpm1	0.78	1640	53	20	1

Table 78: $BPr_1 - BPr_{A_1} - N$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.1	5693	57	21477	1
23588	66.17	43297	4198	8090	1
10teams	99.31	186249	928	924	1
air06	23.97	11831	35	49649	1
bal8x12	0.65	1671	136	471.55	1
bell3b	22.19	28086	17608	11786160.62	1
bienst1	1491.05	3956765	32417	46.75	1
blend2	5.07	13300	3875	7.6	1
bm23	0.09	1374	414	34	1
dano3_3	76.8	40454	53	576.34	1
dano3_4	136.82	72160	75	576.44	1
dano3_5	1224.44	582705	1771	576.92	1

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Table 78 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
dcmulti	11.13	12506	414	188182	1
dsbmp	5.35	2507	21	-305.2	1
egout	0.1	576	13	568.1	1
eilD76	1151.73	619618	21707	885.41	1
enigma	67.79	693013	91473	0	1
fiber	181.77	147871	18344	405935.18	1
fixnet4	9.09	11336	613	8936	1
fixnet6	16.27	21112	2201	3983	1
flugpl	0.79	2934	3521	1201500	1
gen	2.95	6892	273	112313.36	1
gr4x6	0.08	599	61	202.35	1
gt2	1.48	5620	1228	21166	1
irp	37.99	4846	285	12159.49	1
khb05250	1.56	2857	55	106940226	1
l152lav	110.35	84762	5335	4722	1
lseu	15.02	87031	39676	1120	1
mas284	132.28	234066	52318	91405.72	1
misc01	0.45	3990	563	563.5	1
misc02	0.1	1168	115	1690	1
misc03	12.45	35953	3099	3360	1
misc04	1.84	2742	13	2666.7	1
misc05	1.56	4257	379	2984.5	1
misc06	0.71	1935	31	12850.86	1
misc07	1172.81	1054651	93007	2810	1
mod008	11.43	28596	10165	307	1
mod013	0.52	1880	512	280.95	1
neos-506422	532.87	438023	4558	0	1
neos-584851	64.64	50116	1864	-11	1
neos-709469	8.74	19734	515	493.16	1
neos-777800	379.13	601920	720	-80	1
neos-785899	756.52	622116	12046	101	1
neos-785914	1221.1	1743877	6730	38	1
neos-801834	569.14	89664	1504	50386	1
neos-803219	356.92	296815	61990	210.3	1
neos-803220	949.5	586331	141048	195.4	1
neos-806323	215.47	177933	26563	215	1
neos-807639	1800.25	635861	118669	454.2	0
neos-807705	1248.69	950115	165734	342.4	1
neos-810286	108.25	38471	65	2877	1
nug08	65.09	34172	111	214	1
nw04	37.91	1450	85	16862	1
p0033	0.06	1135	394	3089	1
p0201	3.45	11390	890	7615	1
p0282	18.64	16804	1213	258411	1
p0291	0.13	1484	156	5223.75	1
p0548	2.98	5338	408	8691	1
p2756	9.83	4233	288	3124	1
pipex	0.37	3723	879	788.26	1
pp08a	801.38	416202	53585	7350	1
qap10	520.81	261378	141	340	1
qnet1	22.78	38074	753	16029.69	1
qnet1_o	26.34	49563	976	16029.69	1
ran10x10a	11.96	28443	11068	1499	1
ran10x10b	3.49	9604	2980	3073	1
ran10x12	3.64	7923	2147	2714	1
ran4x64	0.69	1704	384	9711	1
ran6x43	1.15	2346	556	6330	1
rentacar	4.9	5748	40	30356760.98	1
rgn	11.46	24909	4709	82.2	1
roy	2.6	7404	2829	3208.96	1
set1al	1.66	668	36	15869.75	1
stein15	1.24	5130	79	9	1
stein27	11.92	20456	3226	18	1
stein45	382.16	345877	58162	30	1
stein9	0.01	296	6	5	1
Test3	1133.76	328236	7343	2673520.21	1
vpml	0.79	1640	53	20	1

Table 79: $BPr_1 - BPrA_1 - Y$.

Name	Time	Iters	Nodes	Best	Solved
22433	7.08	5693	57	21477	1
23588	66.15	43297	4198	8090	1
10teams	97.59	186249	928	924	1
air06	24.02	11831	35	49649	1
bal8x12	0.64	1671	136	471.55	1
bell3b	22.16	28086	17608	11786160.62	1
bienst1	1444.36	3956765	32417	46.75	1
blend2	5.1	13300	3875	7.6	1
bm23	0.09	1374	414	34	1
dano3_3	78.06	40454	53	576.34	1
dano3_4	137.74	72160	75	576.44	1
dano3_5	1246.79	582705	1771	576.92	1
dcmulti	11.01	12506	414	188182	1
dsbmip	5.34	2507	21	-305.2	1
egout	0.1	576	13	568.1	1
eilD76	950.31	619618	21707	885.41	1
enigma	68.06	693013	91473	0	1
fiber	181.46	147871	18344	405935.18	1
fixnet4	9.16	11336	613	8936	1
fixnet6	16.19	21112	2201	3983	1
flugpl	0.78	2893	3480	1201500	1
gen	2.96	6892	273	112313.36	1
gr4x6	0.08	599	61	202.35	1
gt2	1.52	5620	1228	21166	1
irp	37.93	4846	285	12159.49	1
khh05250	1.54	2857	55	106940226	1
l152lav	110.19	84762	5335	4722	1
lseu	14.97	87031	39676	1120	1
mas284	129.92	234066	52318	91405.72	1
misc01	0.45	3990	563	563.5	1
misc02	0.1	1168	115	1690	1
misc03	12.2	35953	3099	3360	1
misc04	1.86	2742	13	2666.7	1
misc05	1.56	4257	379	2984.5	1
misc06	0.7	1935	31	12850.86	1
misc07	1192.09	1054651	93007	2810	1
mod008	11.28	28596	10165	307	1
mod013	0.51	1880	512	280.95	1
neos-506422	539.41	438023	4558	0	1
neos-584851	64.36	50116	1864	-11	1
neos-709469	8.78	19734	515	493.16	1
neos-777800	364.72	601920	720	-80	1
neos-785899	757.51	622116	12046	101	1
neos-785914	1202.43	1743877	6730	38	1
neos-801834	577.88	89664	1504	50386	1
neos-803219	360.5	296815	61990	210.3	1
neos-803220	879.76	586331	141048	195.4	1
neos-806323	217.84	177933	26563	215	1
neos-807639	1800.22	607215	113460	454.2	0
neos-807705	1260	950115	165734	342.4	1
neos-810286	110.29	38471	65	2877	1
nug08	64.33	34172	111	214	1
nw04	37.68	1450	85	16862	1
p0033	0.06	1135	394	3089	1
p0201	3.45	11390	890	7615	1
p0282	18.57	16804	1213	258411	1
p0291	0.13	1151	201	5223.75	1
p0548	2.97	5338	408	8691	1
p2756	9.84	4233	288	3124	1
pipex	0.54	5168	1573	788.26	1
pp08a	766.75	416202	53585	7350	1
qap10	517.9	261378	141	340	1
qnet1	22.93	38074	753	16029.69	1
qnet1.o	26.5	49563	976	16029.69	1
ran10x10a	11.9	28443	11068	1499	1
ran10x10b	3.52	9604	2980	3073	1
ran10x12	3.68	7890	2311	2714	1
ran4x64	0.7	1704	384	9711	1
ran6x43	1.46	2682	740	6330	1
rentacar	4.87	5748	40	30356760.98	1
rgn	10.82	24909	4709	82.2	1
roy	2.56	7404	2829	3208.96	1

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Table 79 – continued from previous page

Name	Time	Iters	Nodes	Best	Solved
set1a1	1.66	668	36	15869.75	1
stein15	1.22	5130	79	9	1
stein27	11.9	20456	3226	18	1
stein45	398.64	345877	58162	30	1
stein9	0.01	296	6	5	1
Test3	1154.08	328236	7343	2673520.21	1
vpml	0.83	1640	53	20	1