

Online Supplement of:
“Conflict-Driven Heuristics for Mixed Integer Programming”

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This online supplement provides tables of detailed results of the computational experiments conducted for the paper “Conflict-Driven Heuristics for Mixed Integer Programming”. In the experiments, two different ways of combining primal heuristics and conflict analysis were compared to SCIP 6.0. As test set we used a union of MIPLIB 3, MIPLIB 2003, MIPLIB 2010, and the COR@L benchmark set. After removing all duplicates and problems that are known to be numerically unstable, the test set consists of 488 publicly available MIP problems, which we will refer to as MMMC. To address performance variability, all experiments were run with four different random seeds.

Table 1 shows the overall impact of Farkas diving (`farkdiving`) compared to SCIP with `default` settings on the whole test set. Table 2 shows the individual impact of conflict constraints (`farkdiving-noconfs`) and feasible solution (`farkdiving-nosols`) found during executing Farkas diving on the group of affected instances where Farkas diving was allowed to run within the tree. Table 3 shows the overall impact of coefficient diving (`coefdiving`) and conflict diving (`confdiving`) compared to SCIP without both lock-exploiting diving heuristics (`nolockdiving`) settings on the whole test set. Table 4 shows the individual impact of conflict constraints (`confdiving-noconfs`) and feasible solution (`confdiving-nosols`) found during executing conflict diving on the group of affected instances. Details concerning the experimental setup, the selection of the test instances, and the discussion of the results are available in the main publication.

All tables show:

- absolute and relative solving times in seconds (\mathbf{T} , \mathbf{T}_Q) and branch-and-bound nodes (\mathbf{N} , \mathbf{N}_Q),
- instances that hit the time limit of 7200 seconds are marked with 'limit' in column \mathbf{T} ,
- the number of feasible (\mathbf{F}) and improving (\mathbf{I}) solutions as well as the number conflict constraints (\mathbf{C}) found by the respective heuristic,
- the number of feasible and improving solutions (\mathbf{F}_{virt} , \mathbf{I}_{virt}) as well as conflict constraints (\mathbf{C}_{virt}) found by the virtual best diving heuristic of SCIP with `default` settings in the respective regard, and
- the average length of diving paths (\mathbf{D}_θ) explored by the respective heuristic.

Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
10teams	17.27	395	0	0	136	15.01	0.876	152	0.509	0	0	0
	17.04	867	0	0	209	18.77	<i>1.096</i>	927	<i>1.062</i>	0	0	0
	3.36	5	0	0	0	4.09	<i>1.167</i>	5	1.000	0	0	0
	16.01	404	0	0	64	14.80	0.929	187	0.569	0	0	0
22433	2.16	3	0	0	0	2.13	0.991	3	1.000	0	0	2
	3.15	4	0	0	0	3.27	1.029	4	1.000	0	0	2
	1.92	3	0	0	0	1.93	1.003	3	1.000	0	0	4
	4.06	26	0	0	32	4.67	<i>1.121</i>	33	<i>1.056</i>	0	0	5
23588	3.99	495	0	0	0	3.93	0.988	495	1.000	0	0	0
	4.18	535	0	0	0	3.89	0.944	514	0.967	0	0	0
	4.83	730	0	0	0	4.07	0.870	457	0.671	0	0	0
	3.99	563	0	0	0	4.07	1.016	563	1.000	0	0	0
30n20b8	340.50	227	2	2	30	161.68	0.476	181	0.859	0	0	1
	249.12	144	2	2	16	241.17	0.968	131	0.947	0	0	1
	221.49	174	1	1	38	372.21	<i>1.677</i>	405	<i>1.843</i>	0	0	1
	547.76	331	1	2	66	519.74	0.949	540	<i>1.485</i>	0	0	1
Test3	4.24	4	0	0	0	5.35	<i>1.212</i>	4	1.000	0	0	0
	4.20	3	0	0	0	5.28	<i>1.208</i>	3	1.000	0	0	0
	4.23	2	0	0	0	4.34	1.021	2	1.000	1	1	0
	3.80	1	0	0	0	4.97	<i>1.244</i>	1	1.000	0	0	0
a1c1s1	limit	203191	6	6	19	limit	1.000	188432	0.927	1	1	57
	limit	205820	0	11	12	limit	1.000	242015	<i>1.176</i>	0	0	52
	limit	222398	0	2	22	limit	1.000	199956	0.899	0	0	27
	limit	189340	4	1	14	limit	1.000	181197	0.957	0	0	19
acc-tight5	101.89	744	0	0	257	101.71	0.998	744	1.000	0	0	0
	49.41	159	0	0	58	49.23	0.996	159	1.000	0	0	0
	156.63	1168	0	0	276	157.76	1.007	1168	1.000	0	0	0
	93.91	645	0	0	199	93.89	1.000	645	1.000	0	0	0
afflow30a	21.13	873	0	0	0	21.45	1.014	463	0.579	0	0	11
	18.03	503	0	0	0	13.39	0.756	486	0.972	0	0	2
	19.58	582	0	0	0	19.09	0.976	560	0.968	0	0	2
	13.67	715	0	0	0	16.65	<i>1.203</i>	636	0.903	0	0	2
afflow40b	704.70	24637	0	0	111	485.49	0.689	16932	0.689	0	0	10
	567.41	19980	0	0	133	511.81	0.902	15291	0.766	0	0	10

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	543.12	22701	0	0	99	593.42	<i>1.092</i>	25469	<i>1.121</i>	0	0	10
	378.71	9715	0	0	130	260.18	0.688	11525	<i>1.184</i>	0	0	8
air03	1.75	1	0	0	0	1.70	0.982	1	1.000	1	1	0
	1.71	1	0	0	0	1.70	0.996	1	1.000	1	1	0
	1.75	1	0	0	0	1.76	1.004	1	1.000	1	1	0
	1.76	1	0	0	0	1.71	0.982	1	1.000	1	1	0
air04	39.64	110	0	0	0	47.32	<i>1.189</i>	91	0.910	0	0	0
	49.27	192	0	0	15	60.46	<i>1.223</i>	289	<i>1.332</i>	0	0	0
	38.34	107	0	0	6	48.96	<i>1.270</i>	211	<i>1.502</i>	0	0	0
	58.58	315	0	0	4	49.75	0.852	204	0.733	0	0	0
air05	36.56	798	0	0	4	26.78	0.740	364	0.517	0	0	0
	35.50	743	0	0	0	29.32	0.831	378	0.567	0	0	0
	26.98	422	0	0	0	24.64	0.916	249	0.669	0	0	0
	23.33	160	0	0	0	32.30	<i>1.369</i>	503	<i>2.319</i>	0	0	0
aligninq	31.31	3320	0	0	2475	35.11	<i>1.118</i>	3699	<i>1.111</i>	0	0	0
	27.55	2875	0	0	1783	33.04	<i>1.192</i>	22	0.041	0	0	0
	22.01	1700	0	0	1726	26.68	<i>1.203</i>	2731	<i>1.573</i>	0	0	0
	28.58	3044	0	0	834	15.42	0.555	569	0.213	0	0	0
appl-2	811.69	26	0	0	0	614.05	0.757	26	1.000	0	0	0
	721.53	26	0	0	0	545.76	0.757	26	1.000	0	0	0
	1004.06	42	0	0	0	803.09	0.800	42	1.000	0	0	0
	848.25	20	0	0	0	631.76	0.745	20	1.000	0	0	0
arki001	limit	1201140	0	0	69	limit	1.000	1201509	1.000	0	0	0
	limit	1211984	1	1	222	limit	1.000	1217612	1.005	0	0	0
	limit	1092636	0	0	112	limit	1.000	1093059	1.000	0	0	0
	limit	1271142	1	2	102	limit	1.000	1274901	1.003	0	0	0
ash608gpia-3col	32.16	5	0	0	0	31.93	0.993	5	1.000	0	0	0
	26.94	11	0	0	0	26.89	0.998	11	1.000	0	0	0
	17.71	3	0	0	0	17.89	1.010	3	1.000	0	0	0
	26.33	11	0	0	0	26.32	1.000	11	1.000	0	0	0
atlanta-ip	limit	15522	0	0	2687	limit	1.000	16380	<i>1.055</i>	0	0	30
	limit	14243	0	0	1529	limit	1.000	17842	<i>1.251</i>	0	0	0
	limit	13595	0	0	1738	limit	1.000	10374	0.765	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	12701	0	0	1447	limit	1.000	16427	<i>1.291</i>	0	0	0
bab5	limit	87901	0	0	3135	limit	1.000	84925	0.966	0	0	262
	limit	108867	0	0	561	limit	1.000	109488	1.006	0	0	2
	limit	101859	1	1	796	3806.15	0.529	59960	0.589	0	0	31
	limit	84402	0	0	336	5724.17	0.795	75557	0.895	0	0	72
bc1	218.41	3870	1	1	0	219.01	1.003	3870	1.000	0	0	0
	196.52	4006	0	0	2	197.02	1.003	4006	1.000	0	0	0
	170.93	1600	0	0	0	169.57	0.992	1600	1.000	0	0	0
	179.18	3422	0	0	1	179.66	1.003	3422	1.000	0	0	0
bc	830.83	11703	0	0	11	823.31	0.991	11703	1.000	0	0	0
	915.83	11588	0	0	22	899.84	0.983	11588	1.000	0	0	0
	850.19	13849	0	0	10	840.49	0.989	13849	1.000	0	0	0
	839.69	13103	0	0	3	830.57	0.989	13103	1.000	0	0	0
beasleyC3	45.85	378	0	0	1	41.76	0.913	352	0.946	122	0	14
	54.14	515	1	0	5	25.94	0.489	2	0.166	109	0	25
	44.79	170	0	0	0	21.82	0.498	2	0.378	128	0	63
	16.53	2	0	0	0	19.37	<i>1.162</i>	2	1.000	39	0	8
bell3a	0.70	2445	15	0	19	1.33	<i>1.371</i>	4756	<i>1.908</i>	11	0	1
	0.62	2184	12	0	27	1.52	<i>1.556</i>	5762	<i>2.567</i>	11	0	1
	0.83	3116	15	0	30	1.65	<i>1.448</i>	5707	<i>1.806</i>	11	0	1
	0.81	2720	15	0	27	1.67	<i>1.475</i>	5731	<i>2.068</i>	11	0	1
bell5	0.50	444	28	0	133	0.50	1.000	277	0.693	17	1	11
	0.50	339	18	0	10	0.50	1.000	395	<i>1.128</i>	43	6	5
	0.50	196	24	1	22	0.50	1.000	291	<i>1.321</i>	40	3	32
	0.50	451	28	0	144	0.50	1.000	126	0.410	36	1	11
biella1	1249.94	8151	1	1	109	1254.30	1.003	4893	0.605	0	0	0
	948.57	5091	0	1	58	474.64	0.501	1746	0.356	0	0	0
	821.51	1975	0	0	310	778.18	0.947	3326	<i>1.651</i>	0	0	0
	1016.26	4551	0	0	296	458.95	0.452	1489	0.342	0	0	0
bienst1	121.81	16090	3	3	39	122.54	1.006	16090	1.000	0	0	0
	95.33	9901	1	1	20	95.30	1.000	9901	1.000	0	0	0
	98.50	9304	1	1	53	98.75	1.003	9304	1.000	0	0	0
	115.57	15248	1	1	28	116.17	1.005	15248	1.000	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
bienst2	516.44	62497	4	4	21	519.88	1.007	62497	1.000	0	0	0
	586.82	81035	0	0	11	588.93	1.004	81035	1.000	0	0	0
	471.76	62789	2	2	23	474.68	1.006	62789	1.000	0	0	0
	455.83	60072	1	3	11	458.68	1.006	60072	1.000	0	0	0
binkar10_1	25.43	2435	1	1	12	21.85	0.865	1867	0.776	1	1	34
	37.03	2686	0	0	26	41.13	<i>1.108</i>	3693	<i>1.361</i>	1	1	137
	21.76	1927	2	2	18	34.29	<i>1.551</i>	2654	<i>1.359</i>	1	1	152
	35.34	4380	1	1	34	33.82	0.958	3972	0.909	1	1	224
blend2	0.83	706	0	0	13	0.85	1.011	728	1.027	0	0	2
	0.91	832	1	1	14	1.21	<i>1.157</i>	1026	<i>1.208</i>	1	1	19
	0.75	635	0	0	10	0.80	1.029	757	<i>1.166</i>	0	0	10
	0.77	592	0	0	9	0.73	0.977	700	<i>1.156</i>	0	0	2
bley_x11	164.90	1	0	0	0	167.76	1.017	2	1.010	2	2	0
	194.10	28	0	0	0	195.60	1.008	42	<i>1.109</i>	1	1	0
	131.54	1	0	0	0	132.77	1.009	1	1.000	1	1	5
	132.98	1	0	0	0	134.60	1.012	1	1.000	1	1	0
bnatt350	679.89	4220	0	0	693	683.46	1.005	4220	1.000	0	0	0
	846.32	7468	0	0	1277	851.82	1.006	7468	1.000	0	0	0
	426.02	4560	0	0	891	428.83	1.007	4560	1.000	0	0	0
	417.21	3663	1	0	757	420.42	1.008	3663	1.000	0	0	0
cap6000	2.87	1978	15	0	65	3.39	<i>1.134</i>	2014	1.017	66	0	74
	2.65	1668	12	1	66	3.66	<i>1.277</i>	2486	<i>1.463</i>	67	0	69
	3.10	2113	20	0	51	3.66	<i>1.137</i>	2205	1.042	64	0	100
	3.18	2086	22	1	50	3.09	0.978	1646	0.799	63	0	97
core2536-691	131.38	118	0	0	0	124.10	0.945	95	0.894	0	0	0
	126.70	174	0	0	4	387.82	<i>3.045</i>	260	<i>1.314</i>	0	0	0
	95.65	60	0	0	0	106.07	<i>1.108</i>	63	1.019	0	0	0
	100.59	126	1	1	0	141.06	<i>1.398</i>	113	0.942	0	0	0
cov1075	61.82	19799	0	0	23	62.02	1.003	19799	1.000	0	0	0
	83.76	32317	4	1	63	83.27	0.994	32317	1.000	0	0	0
	47.84	13662	13	1	37	47.95	1.002	13662	1.000	0	0	0
	71.04	23085	21	2	50	70.94	0.999	23085	1.000	0	0	0
csched010	5858.01	317482	0	1	183	4796.30	0.819	260919	0.822	0	0	48
	limit	440703	0	0	234	5114.71	0.710	288748	0.655	0	0	159

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	3337.23	216270	0	0	221	3077.06	0.922	173514	0.802	0	0	97
	4633.71	263158	1	1	312	2817.09	0.608	160928	0.612	0	0	29
d10200	limit	1081637	0	0	31	limit	1.000	1265884	<i>1.170</i>	0	0	3
	limit	929088	0	0	53	limit	1.000	1118124	<i>1.203</i>	0	0	0
	limit	922480	0	0	34	limit	1.000	1024016	<i>1.110</i>	0	0	3
	limit	1028189	0	0	25	limit	1.000	1159438	<i>1.128</i>	0	0	0
d20200	limit	382717	0	0	138	limit	1.000	292381	0.764	0	0	0
	limit	328751	0	0	105	limit	1.000	421069	<i>1.281</i>	0	0	0
	limit	292099	0	0	120	limit	1.000	326181	<i>1.117</i>	0	0	0
	limit	333054	0	0	43	limit	1.000	287782	0.864	0	0	0
dano3_3	127.48	18	1	1	0	127.45	1.000	18	1.000	0	0	0
	103.61	6	0	0	0	102.92	0.993	6	1.000	0	0	0
	114.70	14	0	0	0	113.60	0.990	14	1.000	0	0	0
	112.43	12	0	0	0	111.19	0.989	12	1.000	0	0	0
dano3_4	149.72	14	0	0	0	149.79	1.000	14	1.000	0	0	0
	142.90	8	0	0	0	141.79	0.992	8	1.000	0	0	0
	131.13	14	0	0	1	130.60	0.996	14	1.000	0	0	0
	110.46	29	0	0	1	110.37	0.999	29	1.000	0	0	0
dano3_5	311.35	185	1	1	4	309.24	0.993	185	1.000	0	0	0
	324.73	156	1	1	7	324.00	0.998	156	1.000	0	0	0
	281.32	132	2	2	2	281.38	1.000	132	1.000	0	0	0
	300.10	176	2	2	2	298.72	0.995	176	1.000	0	0	0
dano3mip	limit	2117	0	0	11	limit	1.000	2034	0.963	0	0	0
	limit	1563	0	0	7	limit	1.000	1378	0.889	0	0	0
	limit	1019	0	0	4	limit	1.000	1011	0.993	0	0	0
	limit	2264	0	0	2	limit	1.000	2299	1.015	0	0	0
danooint	3938.60	1425342	3	3	0	3953.66	1.004	1425342	1.000	0	0	0
	3677.23	1364472	0	0	7	3673.95	0.999	1364472	1.000	0	0	0
	3369.80	1195273	2	2	6	3374.95	1.002	1195273	1.000	0	0	0
	2924.24	1062058	0	0	3	2927.95	1.001	1062058	1.000	0	0	0
dcmulti	2.67	52	0	0	0	1.73	0.744	81	<i>1.191</i>	0	0	7
	2.70	71	0	0	0	3.15	<i>1.122</i>	157	<i>1.503</i>	0	0	5
	2.05	69	0	0	0	1.94	0.964	12	0.663	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	2.22	82	0	0	0	1.51	0.780	118	<i>1.198</i>	1	1	14
dfn-gwin-UUM	143.10	39424	87	8	13	89.58	0.629	21399	0.544	103	5	27
	96.16	24607	106	7	98	82.05	0.855	19496	0.793	112	2	12
	121.80	32723	98	4	16	127.31	1.045	34489	<i>1.054</i>	91	4	22
	96.94	23175	92	4	18	96.34	0.994	25789	<i>1.112</i>	99	5	23
disctom	5.49	1	0	0	0	5.44	0.992	1	1.000	0	0	0
	5.88	1	0	0	0	5.86	0.997	1	1.000	0	0	0
	4.75	1	0	0	0	4.71	0.993	1	1.000	0	0	0
	7.43	1	0	0	0	7.42	0.999	1	1.000	0	0	0
ds	limit	826	54	2	26	limit	1.000	1190	<i>1.393</i>	19	0	0
	limit	1239	56	4	25	limit	1.000	1203	0.973	66	2	0
	limit	1101	59	3	19	limit	1.000	740	0.699	20	0	10
	limit	917	41	2	16	limit	1.000	636	0.724	23	0	89
dsbmip	1.56	16	0	0	0	1.61	1.020	16	1.000	0	0	0
	1.24	27	1	1	0	1.25	1.004	27	1.000	0	0	0
	1.39	16	0	0	0	1.39	1.000	16	1.000	0	0	0
	1.66	14	0	0	0	1.66	1.000	14	1.000	0	0	0
egout	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	2
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	2
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	2
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	2
eil33-2	76.61	653	0	0	0	62.38	0.817	603	0.934	2	1	0
	66.79	665	0	0	0	81.77	<i>1.221</i>	741	<i>1.099</i>	2	1	0
	75.19	677	0	0	0	64.87	0.865	517	0.794	1	1	0
	80.46	629	0	0	0	63.02	0.786	603	0.964	2	1	0
eilB101	466.60	13787	4	0	13	327.23	0.702	9255	0.674	5	1	8
	432.96	10965	0	0	71	461.51	<i>1.066</i>	12556	<i>1.144</i>	4	0	39
	375.87	10774	5	0	14	528.13	<i>1.404</i>	16616	<i>1.537</i>	5	1	69
	497.08	15515	0	0	38	343.99	0.693	10412	0.673	5	1	8
enigma	0.50	215	0	0	0	0.50	1.000	664	<i>2.425</i>	0	0	0
	0.50	580	0	0	6	0.50	1.000	657	<i>1.113</i>	0	0	0
	0.50	946	0	0	3	0.50	1.000	514	0.587	0	0	4
	0.52	1485	0	0	12	0.50	0.987	940	0.656	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
enlight13	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
enlight14	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
ex9	27.49	1	0	0	0	27.17	0.989	1	1.000	0	0	0
	26.39	1	0	0	0	26.36	0.999	1	1.000	0	0	0
	27.06	1	0	0	0	26.83	0.992	1	1.000	0	0	0
	26.37	1	0	0	0	25.87	0.982	1	1.000	0	0	0
fast0507	268.91	1067	11	0	4	148.86	0.555	726	0.708	26	0	5
	168.78	667	9	0	1	166.87	0.989	839	<i>1.224</i>	26	0	8
	160.64	737	15	0	1	136.65	0.852	618	0.858	34	0	5
	192.30	930	20	0	3	221.89	<i>1.153</i>	1065	<i>1.131</i>	25	0	43
fiball	1741.07	4050	0	2	80	1760.37	1.011	4050	1.000	0	0	0
	limit	18110	2	2	485	limit	1.000	17854	0.986	0	0	0
	2368.37	5996	1	1	64	2413.69	1.019	5996	1.000	0	0	0
	1553.82	3686	1	1	25	1568.42	1.009	3686	1.000	0	0	0
fiber	2.16	5	0	0	0	2.38	<i>1.070</i>	5	1.000	0	0	8
	1.93	4	0	0	0	2.26	<i>1.113</i>	5	1.010	0	0	2
	2.08	4	0	0	0	2.42	<i>1.110</i>	4	1.000	0	0	7
	2.04	6	0	0	0	2.71	<i>1.220</i>	7	1.009	0	0	0
fixnet6	4.48	3	0	0	0	5.31	<i>1.151</i>	4	1.010	34	1	8
	5.82	4	0	0	0	5.26	0.918	3	0.990	22	0	13
	6.18	4	0	0	0	4.83	0.812	3	0.990	24	0	4
	4.55	3	0	0	0	4.61	1.011	2	0.990	23	0	4
flugpl	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
gen	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
germanrr	limit	12182	2	2	204	limit	1.000	14337	<i>1.175</i>	0	0	0
	limit	5221	0	0	96	limit	1.000	3483	0.673	0	0	0
	limit	12091	4	4	290	limit	1.000	9630	0.798	0	0	0
	limit	3398	3	3	219	limit	1.000	13344	<i>3.843</i>	0	0	0
gesa2-o	0.65	4	0	0	0	0.69	1.024	3	0.990	0	0	81
	0.90	2	0	0	0	0.94	1.021	2	1.000	0	0	73
	0.50	2	0	0	0	0.60	<i>1.067</i>	1	0.990	1	1	10
	0.59	2	0	0	0	0.71	<i>1.075</i>	2	1.000	1	1	3
gesa2	0.50	2	0	0	0	0.54	1.027	2	1.000	1	1	0
	0.50	2	0	0	0	0.50	1.000	2	1.000	1	1	0
	0.50	2	0	0	0	0.56	1.040	2	1.000	1	1	0
	0.50	2	0	0	0	0.53	1.020	2	1.000	1	1	0
gesa3	6.82	10	0	0	0	5.53	0.835	7	0.973	1	1	58
	6.08	6	0	0	0	3.87	0.688	4	0.981	0	0	47
	5.48	7	0	0	0	5.72	1.037	6	0.991	1	1	98
	5.03	6	0	0	0	9.86	<i>1.801</i>	8	1.019	1	1	81
gesa3-o	2.08	6	0	0	0	2.16	1.026	6	1.000	0	0	24
	2.19	8	0	0	0	6.19	<i>2.254</i>	8	1.000	0	0	31
	2.80	7	0	0	0	5.19	<i>1.629</i>	7	1.000	0	0	30
	2.19	6	0	0	0	3.33	<i>1.357</i>	5	0.991	1	1	33
glass4	1081.60	697512	0	0	800	1047.28	0.968	670375	0.961	0	0	0
	4441.62	3510870	1	2	1749	limit	<i>1.621</i>	5416705	<i>1.543</i>	0	0	0
	1018.60	986169	2	2	1809	1021.67	1.003	986169	1.000	0	0	0
	589.30	580186	2	4	1871	590.84	1.003	580186	1.000	0	0	0
gmu-35-40	limit	4475349	1	0	64	limit	1.000	5169683	<i>1.155</i>	1	1	184
	limit	6071632	0	0	52	limit	1.000	4400930	0.725	0	0	17
	limit	5794844	0	0	40	limit	1.000	5248675	0.906	0	0	4
	limit	4848137	0	0	33	limit	1.000	4032850	0.832	2	2	88
gt2	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
haprp	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
iis-100-0-cov	571.64	103091	3	0	75	574.94	1.006	103091	1.000	0	0	0
	512.51	92475	3	0	85	513.36	1.002	92475	1.000	0	0	0
	463.04	81601	0	0	90	467.13	1.009	81601	1.000	0	0	0
	491.93	86709	6	1	111	493.53	1.003	86709	1.000	0	0	0
iis-bupa-cov	1737.89	156016	3	0	192	1744.78	1.004	156016	1.000	0	0	0
	1774.24	160860	1	1	365	1778.46	1.002	160860	1.000	0	0	0
	1950.35	187396	3	0	258	1962.08	1.006	187396	1.000	0	0	0
	1721.79	157506	5	0	178	1725.33	1.002	157506	1.000	0	0	0
iis-pima-cov	372.15	9246	3	0	18	372.74	1.002	9246	1.000	0	0	0
	374.04	10062	2	0	20	374.86	1.002	10062	1.000	0	0	0
	277.55	6479	1	0	31	279.58	1.007	6479	1.000	0	0	0
	498.03	15737	0	0	30	500.16	1.004	15737	1.000	0	0	0
khh05250	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	0
	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	0
	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	0
	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	0
l152lav	2.31	33	0	0	0	3.19	<i>1.266</i>	49	<i>1.120</i>	0	0	16
	2.25	43	0	0	0	1.83	0.871	25	0.874	0	0	0
	2.20	39	0	0	0	2.15	0.984	16	0.835	0	0	6
	1.92	30	0	0	0	3.47	<i>1.531</i>	77	<i>1.362</i>	0	0	0
lectsched-4-obj	31.57	1104	1	1	30	30.49	0.967	1224	<i>1.100</i>	0	0	4
	60.50	857	2	2	174	29.41	0.494	973	<i>1.121</i>	2	2	17
	8.55	5	0	0	0	7.54	0.894	5	1.000	0	0	4
	39.21	2136	2	2	110	65.62	<i>1.657</i>	7311	<i>3.314</i>	1	1	24
leo1	limit	114869	2	0	3	limit	1.000	89316	0.778	0	0	0
	limit	65297	1	0	0	limit	1.000	129148	<i>1.976</i>	0	0	0
	limit	109229	1	0	4	limit	1.000	64189	0.588	0	0	0
	limit	139996	0	0	0	limit	1.000	76236	0.545	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
leo2	limit	109748	0	0	0	limit	1.000	89667	0.817	0	0	0
	limit	109121	0	0	0	limit	1.000	92145	0.845	0	0	0
	limit	102556	0	0	0	limit	1.000	99259	0.968	0	0	0
	limit	98198	0	0	0	limit	1.000	91019	0.927	0	0	0
liu	limit	2132229	70	70	561	limit	1.000	2238428	1.050	0	0	0
	limit	2168465	67	67	551	limit	1.000	2149401	0.991	0	0	0
	limit	2234022	82	82	468	limit	1.000	2198433	0.984	0	0	0
	limit	2010953	83	83	591	limit	1.000	2684713	<i>1.335</i>	0	0	0
lrn	limit	2849	1	1	23	limit	1.000	5809	<i>2.004</i>	0	0	0
	limit	3108	0	1	27	limit	1.000	3392	<i>1.089</i>	0	0	4
	limit	2433	2	3	23	limit	1.000	2398	0.986	0	0	0
	limit	4428	5	5	33	limit	1.000	3111	0.709	0	0	0
lseu	0.55	176	0	0	0	0.50	0.968	124	0.812	0	0	10
	0.50	4	0	0	0	0.50	1.000	4	1.000	0	0	13
	0.50	68	0	0	0	0.50	1.000	68	1.000	0	0	13
	0.61	275	0	0	8	0.53	0.950	288	1.035	0	0	14
m100n500k4r1	limit	5602256	0	0	17	limit	1.000	5612513	1.002	0	0	0
	limit	4665776	0	0	75	limit	1.000	4659469	0.999	0	0	0
	limit	4605152	0	0	21	limit	1.000	4611341	1.001	0	0	0
	limit	4799358	0	0	12	limit	1.000	4816893	1.004	0	0	0
macrophage	123.97	5034	0	0	33	126.83	1.023	5469	<i>1.085</i>	0	0	0
	156.71	6177	1	1	13	150.32	0.959	6359	1.029	0	0	0
	145.36	6176	0	0	63	126.80	0.873	5068	0.823	0	0	0
	124.77	5602	0	1	19	126.21	1.011	5602	1.000	0	0	0
manna81	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
map18	234.06	249	0	0	8	242.24	1.035	247	0.994	0	0	0
	270.00	273	0	0	3	304.82	<i>1.128</i>	265	0.979	0	0	0
	237.94	305	0	0	4	277.52	<i>1.166</i>	287	0.956	0	0	0
	240.69	231	0	0	7	266.78	<i>1.108</i>	337	<i>1.320</i>	0	0	0
map20	187.86	392	0	0	2	226.43	<i>1.204</i>	215	0.640	0	0	0
	240.53	237	0	0	6	247.41	1.028	225	0.964	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	212.14	406	0	0	2	168.84	0.797	229	0.650	0	0	0
	209.69	247	0	0	4	171.16	0.817	243	0.988	0	0	0
markshare1	limit	46601329	2	1	15	limit	1.000	47115567	1.011	25	0	33
	limit	43212995	2	1	20	limit	1.000	44982538	1.041	23	0	28
	limit	42811231	2	1	26	limit	1.000	42497217	0.993	24	0	46
	limit	47699801	3	1	13	limit	1.000	47578221	0.997	23	0	18
markshare2	limit	17973492	5	1	19	limit	1.000	17683844	0.984	28	0	28
	limit	18763219	3	1	20	limit	1.000	17365176	0.925	26	1	24
	limit	18191301	6	1	23	limit	1.000	19912112	<i>1.095</i>	29	0	32
	limit	19059341	5	1	28	limit	1.000	17202854	0.903	27	0	32
mas74	1488.71	6027541	0	0	147	1491.63	1.002	6027541	1.000	0	0	0
	1995.54	6950287	0	0	134	2001.89	1.003	6950287	1.000	0	0	0
	1737.12	7071228	0	0	123	1732.05	0.997	7071228	1.000	0	0	0
	1730.58	6843504	0	0	121	1727.84	0.998	6843504	1.000	0	0	0
mas76	70.31	198417	0	0	498	70.13	0.997	198417	1.000	0	0	0
	110.89	360101	0	0	383	110.00	0.992	360101	1.000	0	0	0
	85.17	246746	0	0	490	85.43	1.003	246746	1.000	0	0	0
	83.58	209149	0	0	506	83.97	1.005	209149	1.000	0	0	0
mcsched	181.82	7120	0	0	55	191.96	<i>1.055</i>	7989	<i>1.120</i>	0	0	0
	201.08	8226	0	0	65	234.68	<i>1.166</i>	9207	<i>1.118</i>	0	0	1
	282.00	13747	0	0	83	219.96	0.781	9432	0.688	0	0	0
	158.33	6145	0	0	61	255.70	<i>1.611</i>	10827	<i>1.750</i>	0	0	0
mik-250-1-100-1	64.83	22968	0	0	89	52.86	0.818	21582	0.940	32	0	164
	38.86	15147	2	0	37	39.91	1.026	16857	<i>1.112</i>	49	0	78
	66.98	23266	4	0	104	45.03	0.677	17607	0.758	23	0	128
	100.62	34844	3	0	81	40.55	0.409	13152	0.379	41	0	128
mine-166-5	61.37	276	0	0	0	57.26	0.934	2077	<i>5.790</i>	1	1	163
	66.58	2802	2	2	38	68.70	1.031	147	0.085	3	3	141
	46.54	2538	1	1	81	58.00	<i>1.241</i>	2207	0.875	1	1	58
	48.36	1615	1	1	15	50.99	<i>1.053</i>	1461	0.910	1	1	132
mine-90-10	397.37	38513	0	0	1066	228.35	0.576	26592	0.691	1	1	178
	180.22	25651	1	1	1253	203.20	<i>1.127</i>	32629	<i>1.271</i>	2	2	213
	342.60	47767	2	2	2447	168.55	0.493	23014	0.483	2	2	332

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	691.71	76187	1	1	2896	261.14	0.378	34052	0.448	1	1	208
misc03	0.50	11	0	0	0	0.70	<i>1.133</i>	52	<i>1.369</i>	0	0	0
	0.78	23	0	0	0	0.83	1.028	20	0.976	1	1	0
	0.50	7	0	0	0	0.52	1.013	17	<i>1.093</i>	0	0	0
	0.60	29	0	0	0	0.66	1.038	29	1.000	2	2	0
misc06	0.50	3	0	0	0	0.55	1.033	3	1.000	6	0	968
	0.54	3	0	0	0	0.57	1.019	3	1.000	6	0	1009
	0.50	3	0	0	0	0.53	1.020	3	1.000	7	1	1034
	0.50	3	0	0	0	0.50	1.000	3	1.000	6	0	963
misc07	10.23	6065	0	0	166	13.19	<i>1.264</i>	8257	<i>1.356</i>	0	0	6
	11.80	6097	0	0	133	12.15	1.027	7163	<i>1.172</i>	0	0	3
	12.29	7615	0	0	288	7.98	0.676	4102	0.545	0	0	2
	8.84	5035	0	0	35	6.69	0.782	2116	0.432	1	1	3
mitre	10.12	1	0	0	0	10.14	1.002	1	1.000	1	1	0
	10.45	1	0	0	0	10.24	0.982	1	1.000	1	1	0
	10.49	1	0	0	0	10.23	0.977	1	1.000	1	1	0
	12.95	1	0	0	0	12.96	1.001	1	1.000	0	0	0
mkc1	2816.11	951305	1	1	123	41.73	0.015	2925	0.003	0	0	0
	limit	2126006	1	1	50	126.57	0.018	18349	0.009	1	1	29
	89.67	12288	1	1	10	41.04	0.464	2868	0.240	1	1	0
	limit	2621298	0	0	61	limit	1.000	2845839	<i>1.086</i>	1	1	0
mkc	limit	737537	0	0	329	limit	1.000	597914	0.811	2	2	2701
	limit	608454	0	0	395	limit	1.000	497382	0.817	1	1	1851
	limit	618101	1	1	411	limit	1.000	608311	0.984	2	2	2547
	limit	682691	0	0	367	limit	1.000	617531	0.905	1	1	2696
mod008	0.94	1	0	0	0	0.94	1.000	1	1.000	1	0	3
	0.96	1	0	0	0	0.95	0.995	1	1.000	2	0	3
	0.94	1	0	0	0	0.96	1.010	1	1.000	1	0	2
	0.89	1	0	0	0	0.87	0.989	1	1.000	0	0	0
mod010	0.50	2	0	0	0	0.50	1.000	2	1.000	1	1	0
	0.50	2	0	0	0	0.50	1.000	2	1.000	1	1	0
	0.50	2	0	0	0	0.54	1.027	3	1.010	1	1	4
	0.60	2	0	0	0	0.50	0.938	2	1.000	1	1	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
mod011	336.25	586	3	3	0	330.93	0.984	626	<i>1.058</i>	0	0	0
	511.54	683	3	3	0	493.73	0.965	653	0.962	0	0	0
	167.42	1419	2	2	0	167.92	1.003	1419	1.000	0	0	0
	336.08	738	1	1	0	373.91	<i>1.112</i>	1120	<i>1.456</i>	0	0	0
modglob	0.50	2	0	0	0	0.50	1.000	2	1.000	8	0	21
	0.50	2	0	0	0	0.50	1.000	2	1.000	8	0	54
	0.50	2	0	0	0	0.50	1.000	2	1.000	18	1	4
momentum1	limit	23896	0	0	66	limit	1.000	46779	<i>1.954</i>	0	0	0
	limit	42136	0	0	93	limit	1.000	81768	<i>1.938</i>	0	0	35
	limit	24245	0	0	77	limit	1.000	80402	<i>3.307</i>	0	0	2
	limit	18972	0	0	92	limit	1.000	152184	<i>7.985</i>	0	0	0
momentum3	limit	243	1	1	200	limit	1.000	570	<i>1.953</i>	0	0	0
	limit	366	1	1	202	limit	1.000	230	0.708	0	0	0
	limit	282	0	0	307	limit	1.000	357	<i>1.196</i>	0	0	0
	limit	1094	0	0	267	limit	1.000	983	0.907	0	0	0
msc98-ip	limit	8532	0	0	4472	7027.21	0.976	14585	<i>1.701</i>	0	0	0
	limit	4483	0	0	2338	4577.10	0.636	4399	0.982	0	0	71
	limit	6076	0	0	3057	limit	1.000	3900	0.648	0	0	0
	limit	8715	0	0	573	limit	1.000	35111	<i>3.994</i>	0	0	17
mspp16	409.35	3	0	0	0	412.94	1.009	3	1.000	0	0	0
	405.27	5	0	0	0	409.43	1.010	5	1.000	0	0	0
	395.29	5	0	0	0	395.41	1.000	5	1.000	0	0	0
	362.75	5	0	0	0	369.61	1.019	5	1.000	0	0	0
mzzv11	310.00	2672	0	0	10	453.95	<i>1.463</i>	2738	1.024	0	0	76
	371.60	2212	2	2	94	293.67	0.791	1599	0.735	0	0	53
	340.88	2189	0	0	79	311.13	0.913	1265	0.596	0	0	62
	306.76	1922	2	2	32	268.35	0.875	714	0.403	0	0	5
mzzv42z	130.46	174	1	1	1	175.77	<i>1.345</i>	321	<i>1.536</i>	1	1	0
	170.99	309	1	1	10	138.30	0.810	251	0.858	1	1	10
	154.50	214	0	0	14	159.45	1.032	285	<i>1.226</i>	1	1	3
	185.92	514	1	1	18	138.17	0.745	86	0.303	0	0	14
n3div36	limit	208470	0	0	16	limit	1.000	213284	1.023	0	0	0
	limit	218756	0	0	19	limit	1.000	225280	1.030	0	0	0
	limit	217735	0	0	8	limit	1.000	236538	<i>1.086</i>	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	200146	0	0	13	limit	1.000	209559	1.047	0	0	0
n3seq24	limit	362	2	2	0	limit	1.000	2332	<i>5.264</i>	0	0	0
	limit	4324	2	2	25	limit	1.000	1512	0.364	3	3	99
	limit	888	2	2	0	limit	1.000	355	0.461	0	0	0
	limit	2734	1	1	12	limit	1.000	1583	0.594	0	0	0
n4-3	180.34	2929	34	11	83	215.22	<i>1.192</i>	3479	<i>1.182</i>	62	0	39
	230.02	2886	116	19	40	165.48	0.721	2039	0.716	62	0	18
	191.70	2706	87	10	24	223.04	<i>1.163</i>	3166	<i>1.164</i>	23	0	51
	212.68	3225	36	5	26	235.73	<i>1.108</i>	3427	<i>1.061</i>	107	0	67
nag	limit	68926	2	2	545	limit	1.000	67430	0.978	0	0	0
	limit	90913	1	2	205	limit	1.000	88916	0.978	0	0	0
	limit	141677	0	0	257	limit	1.000	138712	0.979	0	0	0
	limit	37277	0	1	176	limit	1.000	36570	0.981	0	0	0
neos-1053234	limit	1646555	0	2	72	limit	1.000	1639786	0.996	0	0	0
	6643.16	2451273	0	1	47	6650.19	1.001	2451273	1.000	0	0	0
	1901.37	385298	0	1	21	1901.91	1.000	385298	1.000	0	0	0
	2330.07	589638	0	1	24	2329.99	1.000	589638	1.000	0	0	0
neos-1053591	4.26	2493	1	1	11	4.20	0.989	2493	1.000	0	0	0
	2.49	1568	2	2	12	2.53	1.011	1568	1.000	0	0	0
	2.43	1364	2	2	7	2.36	0.980	1364	1.000	0	0	0
	18.38	19713	1	1	109	18.43	1.003	19713	1.000	0	0	0
neos-1056905	limit	14633767	1	1	1211	limit	1.000	14682549	1.003	0	0	0
	limit	7653724	0	1	2261	limit	1.000	7644848	0.999	0	0	0
	limit	16831677	1	4	461	limit	1.000	16857054	1.002	0	0	0
	limit	13013959	0	2	1453	limit	1.000	12949736	0.995	0	0	0
neos-1058477	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.72	1	0	0	0	0.74	1.012	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
neos-1061020	311.42	1553	1	1	41	181.94	0.586	935	0.626	1	1	0
	332.57	1699	0	0	35	370.39	<i>1.113</i>	1957	<i>1.143</i>	1	1	0
	226.36	835	0	0	39	205.68	0.909	956	<i>1.129</i>	1	1	0
	189.87	857	0	0	42	255.93	<i>1.346</i>	1316	<i>1.480</i>	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-1062641	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
neos-1067731	limit	242959	0	0	138	limit	1.000	176962	0.728	0	0	0
	limit	225966	0	1	125	limit	1.000	285653	<i>1.264</i>	0	0	0
	limit	249809	0	0	92	limit	1.000	249584	0.999	0	0	0
	limit	189160	0	0	97	limit	1.000	213739	<i>1.130</i>	0	0	0
neos-1096528	1660.08	3228	0	0	36	2000.88	<i>1.205</i>	3840	<i>1.184</i>	0	0	0
	1403.23	1052	0	0	0	1647.22	<i>1.174</i>	4379	<i>3.888</i>	0	0	0
	1212.74	1698	0	0	9	1770.95	<i>1.460</i>	4662	<i>2.648</i>	0	0	0
	1599.43	3715	0	0	46	1920.50	<i>1.201</i>	4052	<i>1.088</i>	0	0	0
neos-1109824	11.20	110	0	0	0	11.27	1.006	67	0.795	0	0	0
	13.43	114	0	0	0	16.35	<i>1.202</i>	202	<i>1.411</i>	1	1	0
	16.15	145	0	0	6	35.45	<i>2.125</i>	1072	<i>4.784</i>	0	0	0
	10.90	64	0	0	0	12.30	<i>1.118</i>	89	<i>1.152</i>	0	0	0
neos-1120495	5.60	21	0	0	0	27.62	<i>4.336</i>	24	1.025	2	2	0
	4.51	8	0	0	0	5.32	<i>1.147</i>	12	1.037	0	0	0
	8.07	16	0	0	0	8.23	1.018	13	0.974	1	1	0
	4.36	3	0	0	0	6.72	<i>1.440</i>	12	<i>1.087</i>	1	1	6
neos-1121679	limit	46380871	2	1	15	limit	1.000	47024932	1.014	25	0	33
	limit	43103074	2	1	20	limit	1.000	44942990	1.043	23	0	28
	limit	43028673	2	1	26	limit	1.000	42455083	0.987	24	0	46
	limit	47465488	3	1	13	limit	1.000	47640023	1.004	23	0	18
neos-1122047	5.99	1	0	0	0	6.05	1.009	1	1.000	0	0	0
	5.88	1	0	0	0	6.16	1.041	1	1.000	0	0	0
	5.99	1	0	0	0	5.99	1.000	1	1.000	0	0	0
	6.05	1	0	0	0	6.06	1.001	1	1.000	0	0	0
neos-1126860	473.85	4681	1	1	44	533.03	<i>1.125</i>	4641	0.992	0	0	0
	460.78	4431	0	0	34	496.18	<i>1.077</i>	4471	1.009	0	0	0
	483.69	4090	1	1	37	492.29	1.018	4462	<i>1.089</i>	0	0	0
	483.31	4175	0	0	45	477.53	0.988	4426	<i>1.059</i>	0	0	0
neos-1151496	18.04	89	0	0	0	17.97	0.996	89	1.000	0	0	0
	16.50	64	0	0	0	16.57	1.004	64	1.000	0	0	0

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Instance	default					farkdiving						
	\mathbf{T}	\mathbf{N}	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	\mathbf{T}	\mathbf{T}_Q	\mathbf{N}	\mathbf{N}_Q	\mathbf{F}	\mathbf{I}	\mathbf{C}
	2.38	1	0	0	0	2.34	0.988	1	1.000	0	0	0
	27.58	81	0	0	0	27.48	0.997	81	1.000	0	0	0
neos-1171448	8.60	1	0	0	0	8.67	1.007	1	1.000	0	0	0
	62.63	120	0	0	0	63.02	1.006	120	1.000	0	0	0
	8.63	1	0	0	0	8.68	1.005	1	1.000	0	0	0
	59.60	89	1	1	0	59.76	1.003	89	1.000	0	0	0
neos-1171692	29.06	241	0	0	0	29.00	0.998	241	1.000	0	0	0
	831.98	271	0	0	16	832.66	1.001	271	1.000	0	0	0
	4.05	1	0	0	0	4.06	1.002	1	1.000	0	0	0
	73.81	38	0	0	0	73.65	0.998	38	1.000	0	0	0
neos-1171737	limit	3961	0	0	147	limit	1.000	3966	1.001	0	0	0
	limit	4691	0	0	253	limit	1.000	4727	1.008	0	0	0
	limit	4420	0	0	113	limit	1.000	4420	1.000	0	0	0
	limit	9169	0	0	228	limit	1.000	9043	0.986	0	0	0
neos-1173026	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
neos-1200887	12.26	7621	0	0	18	12.39	1.010	7621	1.000	0	0	0
	7.36	2934	1	1	16	7.36	1.000	2934	1.000	0	0	0
	19.16	11880	0	0	40	19.21	1.002	11880	1.000	0	0	0
	9.10	3646	0	0	20	9.18	1.008	3646	1.000	0	0	0
neos-1208069	116.96	2294	0	0	633	116.89	0.999	2294	1.000	0	0	0
	41.17	784	0	0	157	41.40	1.005	784	1.000	0	0	0
	197.93	7099	2	2	3861	196.86	0.995	7099	1.000	0	0	0
	77.12	2881	1	1	856	76.89	0.997	2881	1.000	0	0	0
neos-1208135	335.90	10513	1	1	910	335.73	0.999	10513	1.000	0	0	0
	329.17	2838	0	0	181	328.94	0.999	2838	1.000	0	0	0
	327.41	10535	0	0	971	328.83	1.004	10535	1.000	0	0	0
	283.91	2554	0	0	1094	284.69	1.003	2554	1.000	0	0	0
neos-1211578	5.27	10174	0	0	82	5.20	0.989	10174	1.000	0	0	0
	1.60	1363	0	0	28	1.59	0.996	1363	1.000	0	0	0
	3.43	5493	2	0	104	3.48	1.011	5493	1.000	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	4.24	7782	1	1	100	4.32	1.015	7782	1.000	0	0	0
neos-1215259	45.11	1123	0	0	201	90.40	<i>1.982</i>	2785	<i>2.359</i>	0	0	124
	50.92	1337	0	0	421	66.61	<i>1.302</i>	1781	<i>1.309</i>	0	0	61
	52.81	1577	0	0	191	42.64	0.811	1113	0.723	0	0	275
	68.96	2353	0	0	158	88.52	<i>1.280</i>	2403	1.020	0	0	106
neos-1215891	492.44	4997	1	1	292	492.97	1.001	4997	1.000	0	0	0
	255.26	3221	0	0	22	253.26	0.992	3221	1.000	0	0	0
	407.19	3240	1	1	246	407.51	1.001	3240	1.000	0	0	0
	410.01	3148	1	0	169	412.15	1.005	3148	1.000	0	0	0
neos-1223462	146.71	67	0	1	0	214.54	<i>1.459</i>	1134	<i>7.389</i>	0	0	0
	331.00	565	0	1	39	132.90	0.403	111	0.317	0	0	0
	142.06	155	0	0	0	693.26	<i>4.853</i>	317	<i>1.635</i>	0	0	3
	193.50	705	0	0	80	154.42	0.799	426	0.653	0	0	0
neos-1224597	18.94	21	0	0	0	18.98	1.002	21	1.000	0	0	0
	0.85	1	0	0	0	0.87	1.011	1	1.000	0	0	0
	49.30	102	0	0	0	48.72	0.988	102	1.000	0	0	0
	1.75	1	0	0	0	1.76	1.004	1	1.000	0	0	0
neos-1228986	11.32	22116	0	0	509	11.55	1.019	22116	1.000	0	0	0
	23.23	58746	0	0	538	23.21	0.999	58746	1.000	0	0	0
	52.49	179182	0	0	1084	52.95	1.009	179182	1.000	0	0	0
	18.61	48140	2	2	574	18.52	0.995	48140	1.000	0	0	0
neos-1281048	3.35	10	0	0	0	7.72	<i>2.005</i>	44	<i>1.309</i>	0	0	0
	8.14	162	0	0	0	7.10	0.886	43	0.546	0	0	0
	7.02	56	0	0	0	7.76	<i>1.092</i>	103	<i>1.301</i>	0	0	0
	5.03	28	0	0	0	5.61	<i>1.096</i>	26	0.984	1	1	0
neos-1311124	limit	14645631	0	0	16774	limit	1.000	14613786	0.998	0	0	0
	limit	15038041	0	0	4872	limit	1.000	15060089	1.001	0	0	0
	limit	14284657	0	0	7668	limit	1.000	14270301	0.999	0	0	0
	limit	14619461	0	0	8770	limit	1.000	14725675	1.007	0	0	0
neos-1324574	2080.79	16740	0	0	102	2090.79	1.005	16740	1.000	0	0	0
	2186.74	21201	0	0	77	2181.34	0.998	21201	1.000	0	0	0
	172.30	1212	0	0	40	172.60	1.002	1212	1.000	0	0	0
	1426.97	12780	0	0	58	1422.54	0.997	12780	1.000	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-1330346	3921.77	212094	0	0	6459	3964.11	1.011	212094	1.000	0	0	0
	4521.94	241604	0	0	9858	4594.02	1.016	241604	1.000	0	0	0
	5812.06	277273	0	0	1196	5920.02	1.019	277273	1.000	0	0	0
	4264.04	228558	0	0	6336	4317.54	1.013	228558	1.000	0	0	0
neos-1330635	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
neos-1337307	limit	643977	0	0	4415	limit	1.000	692428	<i>1.075</i>	0	0	11
	limit	693098	0	1	3695	limit	1.000	683201	0.986	0	0	21
	limit	774320	0	0	4539	limit	1.000	724936	0.936	0	0	0
	limit	753673	0	0	6384	limit	1.000	763306	1.013	1	1	6810
neos-1346382	limit	14640661	0	1	61000	limit	1.000	14660959	1.001	0	0	0
	limit	12331646	0	0	146074	limit	1.000	12249392	0.993	0	0	0
	limit	14822038	0	2	53300	limit	1.000	14727394	0.994	0	0	0
	limit	14447459	0	0	63134	limit	1.000	14458847	1.001	0	0	0
neos-1354092	limit	439	0	0	17	limit	1.000	450	1.020	0	0	0
	limit	2978	0	0	8	limit	1.000	2983	1.002	0	0	0
	limit	221	0	0	7	limit	1.000	224	1.009	0	0	0
	limit	1328	0	0	9	limit	1.000	1334	1.004	0	0	0
neos-1367061	22.35	1	0	0	0	22.46	1.005	1	1.000	0	0	0
	24.51	1	0	0	0	24.93	1.016	1	1.000	1	1	0
	23.66	1	0	0	0	23.12	0.978	1	1.000	1	1	0
	24.15	1	0	0	0	24.37	1.009	1	1.000	0	0	0
neos-1396125	131.60	15392	0	0	74	132.33	1.006	15392	1.000	0	0	0
	99.70	8226	0	0	145	100.02	1.003	8226	1.000	0	0	0
	97.23	10313	0	0	70	97.03	0.998	10313	1.000	0	0	0
	123.36	12053	0	0	134	124.01	1.005	12053	1.000	0	0	0
neos-1407044	limit	102	0	0	0	limit	1.000	88	0.931	0	0	0
	limit	105	0	0	0	limit	1.000	87	0.912	0	0	0
	limit	114	0	0	0	limit	1.000	116	1.009	0	0	0
	limit	119	0	0	0	limit	1.000	117	0.991	0	0	0
neos-1413153	4.38	3	0	0	0	4.39	1.002	3	1.000	0	0	0
	2.61	2	0	0	0	2.63	1.006	2	1.000	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	\mathbf{T}	\mathbf{N}	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	\mathbf{T}	\mathbf{T}_Q	\mathbf{N}	\mathbf{N}_Q	\mathbf{F}	\mathbf{I}	\mathbf{C}
	2.83	2	0	0	0	2.87	1.010	2	1.000	0	0	0
	2.51	2	0	0	0	2.56	1.014	2	1.000	0	0	0
neos-1415183	5.04	2	0	0	0	5.07	1.005	2	1.000	0	0	0
	4.94	2	0	0	0	4.93	0.998	2	1.000	0	0	0
	5.66	2	0	0	0	5.68	1.003	2	1.000	0	0	0
	3.89	1	0	0	0	3.93	1.008	1	1.000	0	0	0
neos-1417043	1250.03	1	0	0	0	1255.25	1.004	1	1.000	0	0	0
	1099.79	1	0	0	0	1103.84	1.004	1	1.000	0	0	0
	1163.21	1	0	0	0	1171.08	1.007	1	1.000	0	0	0
	1085.23	1	0	0	0	1089.83	1.004	1	1.000	0	0	0
neos-1420205	3.41	4297	0	0	62	5.10	<i>1.383</i>	8283	<i>1.907</i>	1	1	59
	3.73	4342	0	0	59	4.47	<i>1.156</i>	7565	<i>1.726</i>	1	1	58
	5.26	8626	0	0	61	1.83	0.452	1792	0.217	1	1	14
	3.07	3874	0	0	23	4.08	<i>1.248</i>	8118	<i>2.068</i>	1	1	45
neos-1420546	limit	7831	1	1	0	limit	1.000	7856	1.003	0	0	0
	limit	7430	2	2	0	limit	1.000	7484	1.007	0	0	0
	limit	3216	4	4	0	limit	1.000	3289	1.022	0	0	0
	limit	4446	2	2	0	limit	1.000	4491	1.010	0	0	0
neos-1420790	limit	197700	1	1	35	limit	1.000	196923	0.996	0	0	0
	limit	191449	2	2	128	limit	1.000	191418	1.000	0	0	0
	limit	150487	0	1	55	limit	1.000	149227	0.992	0	0	0
	limit	134663	1	1	45	limit	1.000	134760	1.001	0	0	0
neos-1423785	limit	14100	2	9	52	limit	1.000	14027	0.995	0	0	0
	limit	59381	1	2	36	limit	1.000	58821	0.991	0	0	0
	limit	60026	2	3	66	limit	1.000	59709	0.995	0	0	0
	limit	50727	3	3	66	limit	1.000	50617	0.998	0	0	0
neos-1425699	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
neos-1426662	limit	5947614	0	1	811	limit	1.000	5897984	0.992	0	0	0
	limit	6899009	1	1	6060	limit	1.000	6913304	1.002	0	0	0
	limit	7399300	1	1	3670	limit	1.000	7390569	0.999	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	4870068	1	1	452	limit	1.000	4869160	1.000	0	0	0
neos-1427181	3870.56	1573037	0	1	641	3875.17	1.001	1573037	1.000	0	0	0
	3938.40	4245564	0	1	693	3909.49	0.993	4245564	1.000	0	0	0
	2198.86	1890627	0	1	1480	2201.77	1.001	1890627	1.000	0	0	0
	798.57	874110	0	1	1175	804.50	1.007	874110	1.000	0	0	0
neos-1427261	limit	1259210	0	1	541	limit	1.000	1259898	1.001	0	0	0
	limit	3536029	0	1	597	limit	1.000	3537779	1.000	0	0	0
	limit	1418328	1	1	598	limit	1.000	1420959	1.002	0	0	0
	limit	1205587	0	2	440	limit	1.000	1207186	1.001	0	0	0
neos-1429185	limit	6916557	1	1	948	limit	1.000	6905764	0.998	0	0	0
	limit	6885239	1	2	1256	limit	1.000	6876518	0.999	0	0	0
	limit	7444713	0	1	448	limit	1.000	7440269	0.999	0	0	0
	limit	6351090	0	1	889	limit	1.000	6345027	0.999	0	0	0
neos-1429212	limit	19929	0	0	708	limit	1.000	6798	0.344	0	0	0
	limit	7361	0	0	615	limit	1.000	15212	<i>2.052</i>	0	0	0
	limit	7115	0	0	599	limit	1.000	14027	<i>1.958</i>	0	0	1034
	limit	6171	0	0	291	limit	1.000	7763	<i>1.254</i>	0	0	1
neos-1429461	limit	8496708	0	1	41268	limit	1.000	8535308	1.005	0	0	0
	limit	9388586	0	1	29661	limit	1.000	9387432	1.000	0	0	0
	limit	8028032	0	0	58048	limit	1.000	8040670	1.002	0	0	0
	limit	7841233	0	0	37913	limit	1.000	7868992	1.004	0	0	0
neos-1430701	23.56	31119	1	1	300	23.50	0.998	31119	1.000	0	0	0
	15.35	16303	1	1	200	15.58	1.014	16303	1.000	0	0	0
	20.36	26433	1	1	326	20.34	0.999	26433	1.000	0	0	0
	10.32	11121	0	0	134	10.42	1.009	11121	1.000	0	0	0
neos-1430811	limit	1932	0	0	187	limit	1.000	1922	0.995	0	0	0
	limit	2458	0	0	87	limit	1.000	1778	0.734	0	0	0
	limit	1706	0	0	96	limit	1.000	1632	0.959	0	0	0
	limit	2004	0	0	199	limit	1.000	1296	0.663	0	0	0
neos-1436709	limit	5177811	0	1	7365	limit	1.000	5185081	1.001	0	0	0
	limit	4762881	0	0	6413	limit	1.000	4775806	1.003	0	0	0
	limit	4680225	0	2	11536	limit	1.000	4699088	1.004	0	0	0
	limit	4381548	0	0	12417	limit	1.000	4384711	1.001	0	0	0

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Instance	default					farkdiving						
	\mathbf{T}	\mathbf{N}	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	\mathbf{T}	\mathbf{T}_Q	\mathbf{N}	\mathbf{N}_Q	\mathbf{F}	\mathbf{I}	\mathbf{C}
neos-1436713	limit	1610386	0	0	316	limit	1.000	1607621	0.998	0	0	0
	limit	2283099	1	1	607	limit	1.000	2292543	1.004	0	0	0
	limit	3087919	0	1	327	limit	1.000	3091994	1.001	0	0	0
	limit	1639695	0	1	200	limit	1.000	1636532	0.998	0	0	0
neos-1437164	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.77	2	0	0	0	0.78	1.006	2	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
neos-1439395	109.01	193227	0	0	1133	109.59	1.005	193227	1.000	0	0	0
	496.36	969820	0	1	3176	497.50	1.002	969820	1.000	0	0	0
	85.64	155192	1	1	877	86.46	1.009	155192	1.000	0	0	0
	190.46	366979	0	0	1193	190.07	0.998	366979	1.000	0	0	0
neos-1440225	26.68	1345	0	0	10	26.73	1.002	1345	1.000	0	0	0
	59.72	3402	0	0	7	59.57	0.998	3402	1.000	0	0	0
	4.03	3	0	0	0	4.00	0.994	3	1.000	0	0	0
	13.01	259	0	0	0	13.02	1.001	259	1.000	0	0	0
neos-1440447	5.69	5142	1	1	83	5.81	1.018	5142	1.000	0	0	0
	2.68	2105	0	1	35	2.68	1.000	2105	1.000	0	0	0
	7.82	8147	0	0	125	7.95	1.015	8147	1.000	0	0	0
	2.36	1249	0	0	32	2.35	0.997	1249	1.000	0	0	0
neos-1440457	limit	3872132	1	0	9089	limit	1.000	3863522	0.998	0	0	0
	limit	3137794	0	1	7947	limit	1.000	3145887	1.003	0	0	0
	limit	4028854	0	2	10828	limit	1.000	4016999	0.997	0	0	0
	limit	4295613	0	1	8866	limit	1.000	4290690	0.999	0	0	0
neos-1440460	2623.88	4260679	0	0	10447	2620.24	0.999	4260679	1.000	0	0	0
	limit	10592036	1	1	23851	limit	1.000	10619516	1.003	0	0	0
	limit	9545303	0	1	25148	limit	1.000	9571410	1.003	0	0	0
	limit	8748365	1	1	37532	limit	1.000	8742852	0.999	0	0	0
neos-1441553	1.93	1	0	0	0	1.96	1.010	1	1.000	0	0	0
	2.27	2	0	0	0	2.29	1.006	2	1.000	0	0	0
	3.26	2	0	0	0	3.24	0.995	2	1.000	0	0	0
	1.99	5	0	0	0	2.03	1.013	5	1.000	0	0	0
neos-1442119	limit	3788616	0	1	14129	limit	1.000	3787695	1.000	0	0	0
	limit	3330697	3	3	7995	limit	1.000	3326248	0.999	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	3226636	0	1	10086	limit	1.000	3228595	1.001	0	0	0
	limit	3308843	0	1	6830	limit	1.000	3310502	1.001	0	0	0
neos-1442657	limit	4452761	0	0	17667	limit	1.000	4449489	0.999	0	0	0
	limit	3879737	2	2	11811	limit	1.000	3874540	0.999	0	0	0
	limit	5124114	0	0	15337	limit	1.000	5121976	1.000	0	0	0
	limit	4694436	1	1	24337	limit	1.000	4705617	1.002	0	0	0
neos-1445532	limit	2435	1	1	174	limit	1.000	844	0.372	0	0	0
	limit	676	1	3	240	limit	1.000	791	<i>1.148</i>	0	0	0
	limit	1055	1	1	101	limit	1.000	780	0.762	0	0	0
	limit	1808	1	1	169	limit	1.000	2156	<i>1.182</i>	0	0	0
neos-1445738	limit	30471	7	7	1279	limit	1.000	27148	0.891	0	0	0
	limit	23925	2	2	1715	limit	1.000	19632	0.821	0	0	0
	limit	19225	3	3	1288	limit	1.000	21533	<i>1.119</i>	0	0	0
	limit	37639	5	5	969	limit	1.000	25237	0.671	0	0	0
neos-1445743	45.92	3	0	0	0	48.08	1.046	3	1.000	9	3	0
	52.66	3	0	0	0	54.17	1.028	3	1.000	0	0	8
	45.04	3	0	0	0	45.52	1.010	3	1.000	9	3	0
	53.76	3	0	0	0	57.18	<i>1.062</i>	3	1.000	0	0	12
neos-1445755	51.90	3	0	0	0	55.01	<i>1.059</i>	4	1.010	6	1	4
	48.79	3	0	0	0	49.18	1.008	3	1.000	7	3	2
	49.54	3	0	0	0	52.48	<i>1.058</i>	4	1.010	6	1	19
	57.24	4	0	0	0	56.88	0.994	4	1.000	7	3	58
neos-1445765	56.44	86	0	0	0	53.30	0.945	71	0.919	7	1	0
	68.91	3	0	0	0	74.04	<i>1.073</i>	5	1.019	8	1	116
	81.97	7	0	0	0	79.17	0.966	6	0.991	8	1	28
	55.31	91	0	0	0	56.40	1.019	100	1.047	7	1	0
neos-1451294	467.88	886	1	0	283	468.19	1.001	886	1.000	0	0	0
	2759.38	5972	0	1	357	2767.24	1.003	5972	1.000	0	0	0
	870.93	2965	0	1	443	864.60	0.993	2965	1.000	0	0	0
	1318.81	5308	1	1	622	1319.88	1.001	5308	1.000	0	0	0
neos-1456979	limit	103430	0	0	1340	limit	1.000	34288	0.332	0	0	29
	limit	41406	1	1	1165	limit	1.000	51588	<i>1.245</i>	0	0	74
	2582.73	120347	0	0	1492	limit	<i>2.787</i>	40272	0.335	0	0	38

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	42995	0	0	983	limit	1.000	41370	0.962	1	1	678
neos-1460246	limit	5751347	0	2	2112	limit	1.000	5736271	0.997	0	0	0
	limit	4577903	0	0	871	limit	1.000	4550782	0.994	0	0	0
	limit	5006491	1	1	1208	limit	1.000	5008710	1.000	0	0	0
	limit	5907155	1	1	1524	limit	1.000	5892480	0.998	0	0	0
neos-1460265	5.26	60	0	0	1	5.29	1.005	60	1.000	0	0	0
	4.72	94	0	0	7	4.76	1.007	94	1.000	0	0	0
	2.27	1	0	0	0	2.28	1.003	1	1.000	0	0	0
	3.63	42	0	0	0	3.68	1.011	42	1.000	0	0	0
neos-1460543	limit	22845	0	0	87	limit	1.000	22711	0.994	0	0	0
	limit	25965	0	0	60	limit	1.000	25694	0.990	0	0	0
	limit	45415	0	0	5	limit	1.000	45291	0.997	0	0	0
	limit	19185	0	0	68	limit	1.000	18966	0.989	0	0	0
neos-1460641	limit	869368	1	1	702	limit	1.000	865275	0.995	0	0	0
	limit	804436	0	0	561	limit	1.000	798244	0.992	0	0	0
	limit	798781	0	1	692	limit	1.000	796464	0.997	0	0	0
	limit	906228	0	0	706	limit	1.000	861697	0.951	0	0	0
neos-1461051	30.98	3960	0	0	5	30.25	0.977	3960	1.000	0	0	0
	27.31	2539	0	0	0	27.62	1.011	2539	1.000	0	0	0
	35.50	4164	0	0	0	35.58	1.002	4164	1.000	0	0	0
	29.87	3816	0	0	0	30.08	1.007	3816	1.000	0	0	0
neos-1464762	limit	1127694	0	2	928	limit	1.000	1119305	0.993	0	0	0
	limit	935364	0	0	1133	limit	1.000	909520	0.972	0	0	0
	limit	510265	1	1	1966	limit	1.000	661249	<i>1.296</i>	0	0	0
	limit	876942	0	3	1641	limit	1.000	873711	0.996	0	0	0
neos-1467067	limit	11831218	0	0	19937	limit	1.000	11871751	1.003	0	0	0
	limit	13606320	0	0	26543	limit	1.000	13653803	1.003	0	0	0
	limit	11673470	0	1	23599	limit	1.000	11678480	1.000	0	0	0
	limit	13873582	0	0	42343	limit	1.000	13998455	1.009	0	0	0
neos-1467371	limit	1184553	3	3	2097	limit	1.000	1182062	0.998	0	0	0
	limit	1235852	1	1	1796	limit	1.000	1226518	0.992	0	0	0
	limit	926529	0	1	1206	limit	1.000	873380	0.943	0	0	0
	limit	797064	0	0	536	limit	1.000	790940	0.992	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-1467467	limit	257258	0	0	296	limit	1.000	245650	0.955	0	0	0
	limit	247773	0	0	315	limit	1.000	246400	0.994	0	0	0
	limit	222217	0	0	469	limit	1.000	219277	0.987	0	0	0
	limit	225353	0	0	354	limit	1.000	223402	0.991	0	0	0
neos-1480121	2.84	8588	0	1	0	2.83	0.997	8588	1.000	0	0	0
	0.50	106	0	0	0	0.50	1.000	106	1.000	0	0	0
	12.44	207	0	0	0	12.40	0.997	207	1.000	0	0	0
	0.80	858	0	0	9	0.81	1.006	858	1.000	0	0	0
neos-1489999	2.88	30	0	0	0	2.90	1.005	31	1.008	1	1	0
	2.59	23	0	0	0	2.80	<i>1.058</i>	25	1.016	1	1	0
	2.53	31	0	0	0	2.75	<i>1.062</i>	28	0.977	1	1	0
	2.90	26	0	0	0	3.06	1.041	28	1.016	1	1	0
neos-1516309	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
neos-1582420	32.19	712	0	0	11	45.60	<i>1.404</i>	1581	<i>2.070</i>	0	0	32
	25.95	460	0	0	0	26.79	1.031	362	0.825	0	0	0
	26.43	237	0	0	0	26.10	0.988	98	0.588	0	0	40
	35.35	14	0	0	0	31.20	0.886	43	<i>1.254</i>	0	0	16
neos-1593097	limit	63241	0	0	2408	limit	1.000	65147	1.030	1	1	2957
	limit	49184	0	0	1521	limit	1.000	68329	<i>1.388</i>	0	0	511
	limit	60249	0	0	3978	limit	1.000	61277	1.017	0	0	618
	limit	57167	0	0	2456	limit	1.000	43913	0.769	1	1	1144
neos-1595230	214.53	38974	0	0	202	215.42	1.004	38974	1.000	0	0	0
	310.73	63703	0	0	186	310.40	0.999	63703	1.000	0	0	0
	185.97	35227	0	0	153	186.25	1.001	35227	1.000	0	0	0
	510.32	99743	0	0	227	513.64	1.006	99743	1.000	0	0	0
neos-1597104	175.13	5	0	0	0	174.83	0.998	5	1.000	0	0	0
	172.38	5	0	0	0	170.54	0.989	5	1.000	0	0	0
	178.66	5	0	0	0	180.73	1.012	5	1.000	0	0	0
	246.51	12	0	0	0	246.88	1.001	12	1.000	0	0	0
neos-1599274	0.98	1	0	0	0	0.96	0.990	1	1.000	1	1	0
	0.86	1	0	0	0	0.87	1.005	1	1.000	1	1	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	0.66	1	0	0	0	0.66	1.000	1	1.000	0	0	0
	0.78	1	0	0	0	0.76	0.989	1	1.000	1	1	0
neos-1601936	3106.10	5687	1	1	1143	limit	<i>2.318</i>	4881	0.861	0	0	0
	6143.86	8250	1	1	532	4246.90	0.691	9756	<i>1.180</i>	0	0	0
	4864.25	12107	1	1	1558	2492.04	0.512	2832	0.240	0	0	0
	1859.04	1106	0	0	240	5085.81	<i>2.735</i>	11361	<i>9.503</i>	0	0	0
neos-1603512	2.01	13	0	0	0	2.03	1.007	13	1.000	0	0	0
	1.68	14	0	0	0	1.72	1.015	14	1.000	0	0	0
	2.66	23	0	0	21	2.64	0.995	23	1.000	0	0	0
	1.84	11	0	0	0	1.87	1.011	11	1.000	0	0	0
neos-1603518	5.94	27	0	0	33	5.98	1.006	27	1.000	0	0	0
	6.33	31	0	0	0	6.35	1.003	31	1.000	0	0	0
	7.23	44	0	0	0	7.22	0.999	44	1.000	0	0	0
	7.09	35	0	0	39	7.05	0.995	35	1.000	0	0	0
neos-1605061	limit	1178	0	0	58	limit	1.000	1165	0.990	0	0	0
	limit	1091	0	0	384	limit	1.000	1089	0.998	0	0	0
	limit	1285	0	0	278	limit	1.000	1276	0.994	0	0	0
	limit	843	0	0	178	limit	1.000	842	0.999	0	0	0
neos-1605075	4076.49	1724	1	3	330	limit	<i>1.766</i>	6162	<i>3.433</i>	0	0	0
	5440.10	7388	0	1	629	limit	<i>1.323</i>	3506	0.482	0	0	0
	limit	8155	1	1	496	5787.06	0.804	5833	0.719	0	0	0
	limit	3571	0	0	398	limit	1.000	5071	<i>1.409</i>	0	0	0
neos-1616732	3107.59	1006387	0	1	0	3114.43	1.002	1006387	1.000	0	0	0
	3179.46	1126050	3	1	0	3199.12	1.006	1126050	1.000	0	0	0
	2762.90	1193963	0	0	0	2783.96	1.008	1193963	1.000	0	0	0
	2624.23	968298	0	0	0	2646.40	1.008	968298	1.000	0	0	0
neos-1620770	limit	2459278	0	0	62104	limit	1.000	2448945	0.996	0	0	0
	limit	2350565	0	0	76410	limit	1.000	2336394	0.994	0	0	0
	limit	1447381	0	0	234972	limit	1.000	1436389	0.992	0	0	0
	limit	1724673	0	0	84179	limit	1.000	1719682	0.997	0	0	0
neos-1620807	6.42	2706	0	0	126	6.46	1.005	2706	1.000	0	0	0
	4.09	665	0	0	0	4.12	1.006	665	1.000	0	0	0
	5.94	1388	0	0	196	6.08	1.020	1388	1.000	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	6.09	355	0	0	0	6.16	1.010	355	1.000	0	0	0
neos-1622252	4044.79	1285515	0	0	146384	3949.08	0.976	1285515	1.000	0	0	0
	2099.09	716449	0	0	114361	2102.78	1.002	716449	1.000	0	0	0
	limit	1599801	0	0	937371	limit	1.000	1589798	0.994	0	0	0
	2564.10	976272	0	0	206271	2604.32	1.016	976272	1.000	0	0	0
neos-430149	31.41	31870	0	0	111	31.80	1.012	31870	1.000	0	0	0
	34.99	37959	2	2	289	34.89	0.997	37959	1.000	0	0	0
	27.27	28281	0	1	98	27.13	0.995	28281	1.000	0	0	0
	26.49	25965	1	1	149	26.70	1.008	25965	1.000	0	0	0
neos-476283	140.35	405	1	1	21	139.89	0.997	405	1.000	0	0	0
	138.37	444	0	0	6	138.36	1.000	444	1.000	0	0	0
	183.43	505	0	0	12	181.95	0.992	505	1.000	0	0	0
	119.45	321	1	1	15	119.08	0.997	321	1.000	0	0	0
neos-480878	65.00	19056	46	1	186	50.27	0.777	14670	0.771	0	0	7
	47.23	9831	38	1	99	35.34	0.753	8222	0.838	0	0	7
	51.40	12219	35	0	153	26.53	0.525	5829	0.481	0	0	7
	47.89	12264	50	2	137	55.88	<i>1.163</i>	14225	<i>1.159</i>	0	0	7
neos-494568	15.20	6	0	0	0	16.82	<i>1.100</i>	6	1.000	0	0	3
	19.68	6	0	0	0	17.64	0.901	7	1.009	1	1	5
	19.73	6	0	0	0	21.19	<i>1.070</i>	6	1.000	1	1	3
	15.52	6	0	0	0	21.26	<i>1.347</i>	6	1.000	1	1	10
neos-495307	limit	138020	83	0	35	limit	1.000	131544	0.953	171	0	9
	limit	119134	45	0	34	limit	1.000	155698	<i>1.307</i>	165	0	31
	limit	198152	45	0	1105	limit	1.000	146853	0.741	220	0	13
	limit	160297	10	0	30	limit	1.000	126821	0.791	157	0	12
neos-498623	24.80	6	0	0	0	26.82	<i>1.078</i>	6	1.000	1	1	1
	24.84	6	0	0	0	29.26	<i>1.171</i>	6	1.000	1	1	1
	45.64	21	0	0	0	30.51	0.676	6	0.876	2	2	0
	33.52	14	0	0	0	57.58	<i>1.697</i>	16	1.018	0	0	0
neos-501453	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-501474	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	27
	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	27
	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	27
	0.58	4	0	0	0	0.50	0.949	4	1.000	0	0	42
neos-503737	570.93	28994	1	1	615	573.07	1.004	28994	1.000	0	0	0
	609.14	39762	1	1	1032	615.37	1.010	39762	1.000	0	0	0
	137.62	2168	1	1	1422	138.25	1.005	2168	1.000	0	0	0
	130.64	2987	0	0	224	130.96	1.002	2987	1.000	0	0	0
neos-504674	54.21	7974	3	3	63	54.06	0.997	7974	1.000	0	0	0
	46.96	9049	1	1	38	46.65	0.994	9049	1.000	0	0	0
	39.15	7268	1	1	39	38.98	0.996	7268	1.000	0	0	0
	38.19	5572	1	1	33	38.45	1.007	5572	1.000	0	0	0
neos-504815	19.49	2922	1	1	46	14.90	0.776	2177	0.753	2	2	0
	15.86	2964	1	1	10	15.88	1.001	2701	0.914	1	1	36
	17.44	3753	2	2	21	13.30	0.775	1561	0.431	1	1	15
	18.01	3466	1	1	19	15.87	0.887	2698	0.785	1	1	26
neos-506422	42.83	4863	0	0	42	42.95	1.003	4863	1.000	0	0	0
	62.50	5962	1	1	101	62.93	1.007	5962	1.000	0	0	0
	60.87	6295	1	1	42	60.62	0.996	6295	1.000	0	0	0
	48.02	4681	0	0	25	48.22	1.004	4681	1.000	0	0	0
neos-506428	3225.69	291	1	1	122	3246.56	1.006	291	1.000	0	0	0
	4710.66	230	1	1	138	4697.87	0.997	230	1.000	0	0	0
	5179.95	669	0	0	283	5129.74	0.990	669	1.000	0	0	0
	4184.60	494	0	0	215	4155.22	0.993	494	1.000	0	0	0
neos-512201	27.41	3009	3	3	42	27.45	1.001	3009	1.000	0	0	0
	23.41	2635	1	1	28	23.42	1.000	2635	1.000	0	0	0
	23.09	3373	2	2	29	23.21	1.005	3373	1.000	0	0	0
	22.87	2500	0	0	18	22.86	1.000	2500	1.000	0	0	0
neos-522351	1.33	1	0	0	0	1.31	0.991	1	1.000	1	1	0
	1.51	1	0	0	0	1.46	0.980	1	1.000	1	1	0
	1.23	2	0	0	0	1.55	<i>1.143</i>	2	1.000	1	1	0
	0.85	1	0	0	0	0.83	0.989	1	1.000	1	1	0
neos-525149	1.89	1	0	0	0	2.95	<i>1.367</i>	1	1.000	1	1	0
	2.28	1	0	0	0	3.73	<i>1.442</i>	1	1.000	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	2.54	2	0	0	0	2.12	0.881	1	0.990	1	1	0
	1.54	1	0	0	0	3.38	<i>1.724</i>	1	1.000	1	1	0
neos-530627	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
neos-538867	68.04	23809	0	0	550	58.50	0.862	23137	0.972	1	1	328
	80.67	32887	0	0	140	87.88	<i>1.088</i>	29788	0.906	0	0	11
	54.31	27978	1	1	765	64.90	<i>1.191</i>	31065	<i>1.110</i>	1	1	391
	100.49	33245	0	0	202	49.22	0.495	22694	0.684	1	1	211
neos-538916	28.49	5488	1	1	140	37.49	<i>1.305</i>	8257	<i>1.496</i>	0	0	0
	23.08	3728	0	0	119	26.11	<i>1.126</i>	3636	0.976	0	0	0
	25.64	6245	1	1	189	18.64	0.737	4342	0.700	0	0	0
	39.98	8110	0	0	223	35.66	0.895	5392	0.669	1	1	156
neos-544324	49.95	206	0	0	0	49.87	0.998	206	1.000	0	0	0
	42.46	119	0	0	0	41.77	0.984	119	1.000	0	0	0
	40.84	54	0	0	0	40.62	0.995	54	1.000	0	0	0
	39.63	46	0	0	0	39.21	0.990	46	1.000	0	0	0
neos-547911	19.48	158	0	0	0	19.25	0.989	158	1.000	0	0	0
	17.36	133	0	0	7	17.14	0.988	133	1.000	0	0	0
	19.06	122	0	0	0	19.01	0.998	122	1.000	0	0	0
	7.19	3	0	0	0	7.18	0.999	3	1.000	0	0	0
neos-548047	limit	54698	0	0	156	limit	1.000	53434	0.977	0	0	0
	limit	50518	0	0	924	limit	1.000	49334	0.977	0	0	0
	limit	65352	0	0	651	limit	1.000	63871	0.977	0	0	0
	limit	75459	0	0	521	limit	1.000	68830	0.912	0	0	0
neos-548251	limit	4523067	2	2	1186	limit	1.000	4531554	1.002	0	0	0
	limit	4573160	0	1	385	limit	1.000	4604905	1.007	0	0	0
	limit	4113760	1	1	846	limit	1.000	4112987	1.000	0	0	0
	limit	4178753	0	1	370	limit	1.000	4164813	0.997	0	0	0
neos-551991	131.70	615	0	0	293	133.25	1.012	615	1.000	0	0	0
	98.36	665	0	0	215	99.20	1.008	665	1.000	0	0	0
	137.35	575	0	0	99	138.85	1.011	575	1.000	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	259.39	1527	0	0	116	261.25	1.007	1527	1.000	0	0	0
neos-555001	1.04	1	0	0	0	2.17	<i>1.554</i>	1	1.000	0	0	12
	0.67	1	0	0	0	8.05	<i>5.419</i>	383	<i>4.782</i>	0	0	10
	0.72	1	0	0	0	0.70	0.988	1	1.000	1	1	0
	0.95	1	0	0	0	6.49	<i>3.841</i>	218	<i>3.149</i>	0	0	70
neos-555298	58.31	1100	1	1	12	53.14	0.913	655	0.629	1	1	9
	56.61	1014	1	1	15	51.74	0.915	685	0.705	1	1	2
	45.83	582	0	0	18	38.27	0.839	299	0.585	1	1	6
	56.29	1091	0	0	46	60.88	<i>1.080</i>	638	0.620	1	1	14
neos-555343	262.55	13175	2	2	742	571.14	<i>2.171</i>	49279	<i>3.720</i>	1	1	1002
	limit	1098062	1	2	6168	3912.80	0.544	303934	0.277	1	1	2700
	1202.76	185371	1	3	4599	4367.25	<i>3.629</i>	450743	<i>2.431</i>	0	0	12
	1273.73	158908	0	2	969	892.88	0.701	121732	0.766	0	0	414
neos-555424	1948.51	433289	1	1	4953	1107.60	0.569	96804	0.224	1	1	1231
	384.78	52136	1	1	954	84.69	0.222	3738	0.073	1	1	12
	441.68	60699	0	1	1216	192.18	0.436	20100	0.332	1	1	5
	786.56	155876	1	2	4404	6470.56	<i>8.217</i>	929190	<i>5.958</i>	1	1	3309
neos-555694	8.26	21	0	0	0	3.29	0.463	2	0.843	1	1	41
	3.10	6	0	0	0	2.83	0.934	3	0.972	3	3	4
	3.37	6	0	0	0	3.88	<i>1.117</i>	6	1.000	1	1	4
	2.71	6	0	0	0	6.02	<i>1.892</i>	7	1.009	0	0	0
neos-555771	2.74	6	0	0	0	3.21	<i>1.126</i>	7	1.009	1	1	7
	7.89	41	0	0	0	3.02	0.452	3	0.730	3	3	5
	2.33	6	0	0	0	2.01	0.904	2	0.962	2	2	0
	2.27	6	0	0	0	1.00	0.612	1	0.953	1	1	0
neos-555884	limit	891052	1	0	5943	limit	1.000	749187	0.841	0	0	5
	limit	959891	1	1	5257	limit	1.000	946451	0.986	0	0	33
	limit	1003392	1	1	4250	limit	1.000	975471	0.972	0	0	17
	limit	1002806	1	0	10409	limit	1.000	881964	0.880	0	0	6
neos-555927	limit	2283610	1	2	40248	limit	1.000	2192751	0.960	3	3	11636
	limit	2247509	2	2	43796	limit	1.000	2161933	0.962	0	0	44
	limit	2333014	4	1	17523	limit	1.000	2133964	0.915	7	7	12978
	limit	2353215	1	4	10848	limit	1.000	2264565	0.962	0	0	14

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-565672	3159.29	34	0	0	0	3300.74	1.045	29	0.963	0	0	0
	4453.48	22	0	0	0	4075.05	0.915	6	0.869	0	0	0
	3625.84	10	0	0	0	3614.12	0.997	10	1.000	0	0	0
	4657.22	20	0	0	0	4558.32	0.979	20	1.000	0	0	0
neos-565815	9.61	1	0	0	0	9.64	1.003	1	1.000	0	0	0
	10.49	1	0	0	0	10.51	1.002	1	1.000	0	0	0
	7.63	1	0	0	0	7.56	0.992	1	1.000	0	0	0
	8.72	1	0	0	0	8.67	0.995	1	1.000	0	0	0
neos-570431	9.54	277	0	0	10	9.60	1.006	277	1.000	0	0	0
	10.59	375	0	0	0	10.65	1.005	375	1.000	0	0	0
	9.42	285	0	0	0	9.55	1.012	285	1.000	0	0	0
	10.28	285	0	0	0	10.45	1.015	285	1.000	0	0	0
neos-574665	limit	11823492	1	2	2707	limit	1.000	11731149	0.992	1	1	130
	limit	8377099	1	1	382	limit	1.000	7389802	0.882	2	2	382
	limit	7561523	1	1	353	limit	1.000	5149872	0.681	1	1	414
	limit	10813446	1	0	546	limit	1.000	12464902	<i>1.153</i>	1	1	255
neos-578379	169.36	1	0	0	0	168.82	0.997	1	1.000	0	0	0
	171.15	1	0	0	0	169.83	0.992	1	1.000	0	0	0
	181.80	3	0	0	0	181.49	0.998	3	1.000	0	0	0
	171.99	1	0	0	0	170.83	0.993	1	1.000	0	0	0
neos-582605	limit	1245501	0	3	474	limit	1.000	1242457	0.998	0	0	0
	limit	1158851	0	1	587	limit	1.000	1158255	0.999	0	0	0
	limit	1113610	0	1	383	limit	1.000	1107569	0.995	0	0	0
	limit	1128241	0	1	365	limit	1.000	1121335	0.994	0	0	0
neos-583731	8.18	29	0	0	0	8.25	1.008	29	1.000	0	0	0
	6.65	17	0	0	0	6.71	1.008	17	1.000	0	0	0
	11.43	42	0	0	0	11.51	1.006	42	1.000	0	0	0
	6.58	19	0	0	0	6.66	1.011	19	1.000	0	0	0
neos-584146	limit	2258506	0	6	929	limit	1.000	2252842	0.997	0	0	0
	limit	2639465	0	3	1363	limit	1.000	2633782	0.998	0	0	0
	limit	1659074	0	4	374	limit	1.000	1650980	0.995	0	0	0
	limit	2799776	0	4	991	limit	1.000	2802053	1.001	0	0	0
neos-584851	7.52	7	0	0	0	7.60	1.009	7	1.000	0	0	0
	16.99	70	0	0	0	17.17	1.010	70	1.000	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	13.94	7	0	0	0	13.94	1.000	7	1.000	0	0	0
	14.00	28	0	0	0	14.00	1.000	28	1.000	0	0	0
neos-584866	limit	269215	0	1	232	limit	1.000	261916	0.973	0	0	0
	limit	260943	0	0	154	limit	1.000	254866	0.977	0	0	0
	limit	259269	1	0	87	limit	1.000	251324	0.969	0	0	0
	limit	281465	0	0	98	limit	1.000	276742	0.983	0	0	0
neos-585192	15.82	406	0	0	0	15.89	1.004	406	1.000	0	0	0
	19.92	676	0	0	0	20.00	1.004	676	1.000	0	0	0
	18.88	359	0	0	0	18.76	0.994	359	1.000	0	0	0
	19.78	606	0	0	0	19.87	1.004	606	1.000	0	0	0
neos-585467	10.23	91	0	0	0	10.22	0.999	91	1.000	0	0	0
	9.21	93	0	0	0	9.26	1.005	93	1.000	0	0	0
	6.70	39	0	0	0	6.72	1.003	39	1.000	0	0	0
	8.84	89	0	0	0	8.84	1.000	89	1.000	0	0	0
neos-593853	199.18	114959	2	2	868	108.07	0.545	57342	0.499	0	0	0
	138.41	63753	1	1	264	139.92	1.011	63753	1.000	0	0	0
	106.47	59663	0	0	508	100.35	0.943	53947	0.904	0	0	0
	89.91	42458	0	0	289	90.09	1.002	42458	1.000	0	0	0
neos-595904	10.66	3	0	0	0	10.94	1.024	3	1.000	0	0	64
	18.65	4	0	0	0	20.97	<i>1.118</i>	3	0.990	0	0	150
	16.38	4	0	0	0	13.73	0.848	4	1.000	0	0	548
	19.97	5	0	0	0	24.22	<i>1.203</i>	6	1.010	0	0	119
neos-595905	1.57	2	0	0	0	1.57	1.000	2	1.000	0	0	2
	1.92	3	0	0	0	2.30	<i>1.130</i>	2	0.990	0	0	53
	1.34	2	0	0	0	1.39	1.021	2	1.000	1	1	89
	1.48	2	0	0	0	1.34	0.944	2	1.000	0	0	52
neos-595925	9.78	465	0	0	0	11.52	<i>1.161</i>	7	0.189	0	0	130
	20.69	1856	0	0	15	16.49	0.806	15	0.059	0	0	18
	10.05	262	0	0	0	14.24	<i>1.379</i>	600	<i>1.934</i>	0	0	31
	14.82	363	0	0	0	10.13	0.704	3	0.222	0	0	136
neos-598183	4.65	4	0	0	0	8.08	<i>1.607</i>	6	1.019	0	0	29
	6.41	6	0	0	0	3.99	0.673	4	0.981	0	0	31
	5.95	11	0	0	0	6.05	1.014	18	<i>1.063</i>	0	0	53

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	5.50	7	0	0	0	7.51	<i>1.309</i>	6	0.991	0	0	12
neos-603073	146.92	37727	1	1	93	57.64	0.396	6238	0.168	1	1	150
	237.52	46627	0	1	54	316.73	<i>1.332</i>	86267	<i>1.848</i>	0	0	0
	6383.98	2173680	0	0	64	34.69	0.006	3876	0.002	1	1	0
	171.47	32941	0	0	36	201.97	<i>1.177</i>	35671	<i>1.083</i>	1	1	77
neos-611135	limit	253233	1	1	1461	limit	1.000	188860	0.746	0	0	0
	limit	197053	0	1	691	limit	1.000	181217	0.920	0	0	0
	limit	184863	1	1	448	limit	1.000	178456	0.965	0	0	0
	limit	166771	1	1	698	limit	1.000	224658	<i>1.347</i>	0	0	0
neos-611838	26.61	282	2	1	1	28.00	<i>1.050</i>	292	1.026	16	2	0
	29.33	319	0	0	0	28.23	0.964	226	0.778	15	0	0
	25.72	272	2	2	0	25.04	0.975	197	0.798	14	0	0
	28.96	210	1	0	0	28.85	0.996	204	0.981	11	0	0
neos-612125	19.94	45	1	0	0	19.65	0.986	76	<i>1.214</i>	8	0	0
	23.16	154	0	0	0	20.96	0.909	62	0.638	10	0	0
	24.09	175	0	0	0	19.53	0.818	38	0.502	8	0	0
	21.59	161	0	0	0	26.58	<i>1.221</i>	23	0.471	21	0	0
neos-612143	27.24	203	0	0	0	26.58	0.977	216	1.043	13	0	0
	24.71	177	1	0	0	23.09	0.937	116	0.780	13	0	0
	32.28	170	1	1	0	28.07	0.873	138	0.881	16	0	0
	29.60	302	0	0	0	26.88	0.911	242	0.851	12	0	0
neos-612162	25.00	197	0	0	0	23.93	0.959	173	0.919	3	0	0
	27.35	184	0	0	0	26.99	0.987	181	0.989	6	0	0
	21.42	219	1	0	0	21.04	0.983	189	0.906	5	0	0
	25.63	265	0	0	0	24.73	0.966	224	0.888	10	0	0
neos-619167	limit	178	0	0	9	limit	1.000	176	0.993	0	0	0
	limit	150	0	0	0	limit	1.000	147	0.988	0	0	0
	limit	136	0	0	3	limit	1.000	135	0.996	0	0	0
	limit	119	0	0	0	limit	1.000	118	0.995	0	0	0
neos-631164	limit	498004	1	4	96	limit	1.000	598636	<i>1.202</i>	0	0	0
	limit	261457	1	1	30	limit	1.000	274794	<i>1.051</i>	0	0	0
	limit	530556	3	3	275	limit	1.000	601177	<i>1.133</i>	0	0	0
	limit	387495	4	4	342	limit	1.000	560465	<i>1.446</i>	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-631517	limit	481865	8	8	248	limit	1.000	482368	1.001	0	0	0
	limit	523823	5	5	305	limit	1.000	525599	1.003	0	0	0
	limit	803671	0	0	78	limit	1.000	441042	0.549	0	0	0
	limit	605015	0	0	13	limit	1.000	387263	0.640	0	0	0
neos-631694	limit	930570	1	1	7561	limit	1.000	915420	0.984	0	0	0
	limit	625246	0	0	4827	limit	1.000	619951	0.992	0	0	0
	233.92	8911	0	0	1159	235.31	1.006	8911	1.000	0	0	0
	limit	1069187	1	1	5481	limit	1.000	1054870	0.987	0	0	0
neos-631709	limit	5454	1	1	376	limit	1.000	5464	1.002	0	0	0
	limit	681	0	0	124	limit	1.000	662	0.976	0	0	0
	limit	371	1	1	189	limit	1.000	352	0.960	0	0	0
	limit	186	1	1	361	limit	1.000	180	0.979	0	0	0
neos-631710	limit	1	0	0	0	limit	1.000	1	1.000	0	0	0
	limit	6	0	0	0	limit	1.000	6	1.000	0	0	0
	limit	1	0	0	0	limit	1.000	1	1.000	0	0	0
	limit	3	0	0	0	limit	1.000	3	1.000	0	0	0
neos-631784	5956.65	172202	1	1	6558	5969.52	1.002	172202	1.000	0	0	0
	2235.56	82947	0	0	3427	2236.67	1.000	82947	1.000	0	0	0
	limit	386029	1	1	18888	limit	1.000	383005	0.992	0	0	0
	3942.96	159799	1	1	7455	3963.70	1.005	159799	1.000	0	0	0
neos-632335	10.03	193	0	0	0	9.91	0.989	193	1.000	0	0	0
	9.98	193	0	0	0	9.96	0.998	193	1.000	0	0	0
	10.08	193	0	0	0	9.98	0.991	193	1.000	0	0	0
	10.19	197	0	0	0	10.12	0.994	197	1.000	0	0	0
neos-633273	10.59	259	0	0	0	10.50	0.992	259	1.000	0	0	0
	10.52	259	0	0	0	10.34	0.984	259	1.000	0	0	0
	10.18	253	0	0	0	10.15	0.997	253	1.000	0	0	0
	10.43	259	0	0	0	10.38	0.996	259	1.000	0	0	0
neos-655508	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
neos-662469	limit	31575	1	1	747	limit	1.000	68330	<i>2.160</i>	0	0	118
	limit	47257	1	1	817	limit	1.000	61845	<i>1.308</i>	1	1	2534

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	79015	1	1	1095	6607.85	0.918	54861	0.695	1	1	2064
	limit	28051	2	2	1533	limit	1.000	67661	<i>2.407</i>	0	0	718
neos-686190	92.14	5703	0	0	660	91.42	0.992	6343	<i>1.110</i>	0	0	49
	150.88	13529	0	0	216	98.56	0.656	7722	0.574	0	0	17
	118.17	8992	0	0	608	87.60	0.743	5811	0.650	0	0	18
	244.44	21982	1	1	3906	84.81	0.350	5618	0.259	0	0	44
neos-691058	limit	6531	1	1	275	limit	1.000	5408	0.831	0	0	0
	limit	7716	0	7	86	limit	1.000	5607	0.730	0	0	0
	limit	12630	1	2	566	limit	1.000	31626	<i>2.492</i>	0	0	0
	limit	5974	1	3	321	limit	1.000	26296	<i>4.346</i>	0	0	0
neos-691073	limit	24323	0	7	94	limit	1.000	14046	0.579	0	0	0
	limit	15605	1	5	117	limit	1.000	33561	<i>2.143</i>	0	0	50
	limit	11415	0	3	62	limit	1.000	14850	<i>1.298</i>	0	0	0
	limit	11624	1	3	108	limit	1.000	12367	<i>1.063</i>	1	1	16
neos-693347	1408.75	12433	0	0	3549	3986.35	<i>2.828</i>	16773	<i>1.346</i>	0	0	0
	1923.24	17666	0	1	4621	3410.62	<i>1.773</i>	47415	<i>2.674</i>	0	0	0
	5730.59	74565	0	0	1716	4874.22	0.851	34373	0.462	0	0	0
	3504.75	46192	2	0	1238	3149.94	0.899	34026	0.737	0	0	0
neos-702280	limit	6664	0	0	3	limit	1.000	6769	1.016	0	0	0
	limit	6471	0	0	6	limit	1.000	6437	0.995	0	0	0
	limit	6649	0	0	3	limit	1.000	6673	1.004	0	0	0
	limit	7040	0	0	11	limit	1.000	7077	1.005	0	0	0
neos-709469	0.50	13	0	0	0	0.50	1.000	13	1.000	0	0	0
	0.64	377	0	0	35	0.65	1.006	377	1.000	0	0	0
	0.50	120	0	0	0	0.50	1.000	120	1.000	0	0	0
	0.55	315	0	0	3	0.59	1.026	315	1.000	0	0	0
neos-717614	21.08	7251	0	0	4	66.41	<i>3.053</i>	54649	<i>7.448</i>	0	0	79
	35.62	19659	0	1	5	111.36	<i>3.068</i>	68576	<i>3.476</i>	0	0	49
	3484.43	1782616	0	0	24	14.77	0.005	2829	0.002	0	0	51
	46.73	38062	0	3	16	11.16	0.255	1421	0.040	0	0	61
neos-738098	limit	607	0	0	306	limit	1.000	2124	<i>3.146</i>	0	0	1025
	limit	440	0	0	226	limit	1.000	663	<i>1.413</i>	0	0	0
	limit	511	0	0	556	limit	1.000	2209	<i>3.779</i>	0	0	410

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	816	0	0	717	limit	1.000	2026	<i>2.921</i>	0	0	0
neos-775946	7.03	4	0	0	0	7.09	1.007	3	0.990	3	3	0
	12.44	44	0	0	0	12.34	0.993	40	0.972	0	0	0
	9.01	3	0	0	0	8.24	0.923	3	1.000	3	3	0
	7.08	4	0	0	0	7.58	<i>1.062</i>	5	1.010	1	1	5
neos-780889	284.39	2	0	0	0	169.55	0.598	1	0.990	1	1	0
	53.64	1	0	0	0	53.93	1.005	1	1.000	0	0	0
	45.83	1	0	0	0	46.67	1.018	1	1.000	0	0	0
	46.41	1	0	0	0	46.93	1.011	1	1.000	0	0	0
neos-785899	2.13	22	0	0	0	2.15	1.006	24	1.016	0	0	19
	4.23	35	0	0	0	2.82	0.730	36	1.007	0	0	60
	3.58	39	0	0	0	4.14	<i>1.122</i>	78	<i>1.281</i>	0	0	92
	2.66	37	0	0	0	3.53	<i>1.238</i>	27	0.927	0	0	30
neos-785912	41.76	384	0	0	0	41.70	0.999	384	1.000	0	0	0
	34.78	227	0	0	0	34.69	0.997	227	1.000	0	0	0
	36.20	331	0	0	0	35.83	0.990	331	1.000	0	0	0
	82.41	290	0	0	11	79.55	0.966	290	1.000	0	0	0
neos-785914	8.56	16	0	0	0	8.54	0.998	16	1.000	0	0	0
	8.55	14	0	0	0	8.56	1.001	14	1.000	0	0	0
	4.73	16	0	0	0	4.72	0.998	16	1.000	0	0	0
	5.37	18	0	0	0	5.28	0.986	18	1.000	0	0	0
neos-787933	1.40	1	0	0	0	1.41	1.004	1	1.000	0	0	0
	1.36	1	0	0	0	1.40	1.017	1	1.000	0	0	0
	1.42	1	0	0	0	1.41	0.996	1	1.000	0	0	0
	1.44	1	0	0	0	1.41	0.988	1	1.000	0	0	0
neos-791021	424.68	89	0	0	18	428.22	1.008	89	1.000	0	0	0
	391.56	91	1	1	9	393.65	1.005	91	1.000	0	0	0
	296.35	47	1	2	7	296.68	1.001	47	1.000	0	0	0
	431.62	81	1	2	17	434.84	1.007	81	1.000	0	0	0
neos-796608	185.19	864703	0	0	40	0.50	0.008	2	0.000	1	1	5
	183.39	843360	0	0	37	0.50	0.008	2	0.000	1	1	0
	0.50	2	0	0	0	0.50	1.000	3	1.010	1	1	3
	181.16	848510	0	0	154	0.50	0.008	2	0.000	1	1	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-799838	33.15	1	0	0	0	33.21	1.002	1	1.000	1	1	0
	26.14	1	0	0	0	26.21	1.003	1	1.000	0	0	0
	98.09	10	0	0	0	143.95	<i>1.463</i>	25	<i>1.136</i>	0	0	0
	26.74	1	0	0	0	26.77	1.001	1	1.000	0	0	0
neos-801834	41.04	159	0	0	0	39.39	0.961	109	0.807	0	0	0
	39.50	175	0	0	0	39.04	0.989	191	<i>1.058</i>	0	0	0
	46.38	217	0	0	0	37.11	0.804	133	0.735	0	0	0
	35.63	155	0	0	0	44.96	<i>1.255</i>	189	<i>1.133</i>	0	0	0
neos-803219	37.61	14134	3	3	876	38.49	1.023	13185	0.933	0	0	16
	30.59	10451	1	1	517	39.65	<i>1.287</i>	14373	<i>1.372</i>	0	0	10
	26.99	11087	0	0	279	25.23	0.937	7831	0.709	0	0	15
	27.03	9225	2	1	649	39.48	<i>1.444</i>	14551	<i>1.571</i>	0	0	9
neos-803220	80.27	46306	2	2	1404	76.96	0.959	43393	0.937	0	0	0
	72.80	41753	2	2	1251	68.36	0.940	41242	0.988	0	0	0
	64.67	38753	2	2	1137	72.56	<i>1.120</i>	41998	<i>1.084</i>	0	0	3
	77.08	43474	3	3	1135	70.28	0.913	40378	0.929	0	0	5
neos-806323	30.86	5789	1	1	588	29.50	0.957	6299	<i>1.087</i>	0	0	27
	41.17	9542	0	1	428	36.67	0.893	8845	0.928	0	0	22
	35.32	7845	1	0	534	28.28	0.806	4921	0.632	0	0	11
	33.55	7734	1	1	415	25.11	0.756	5457	0.709	0	0	27
neos-807454	2.12	1	0	0	0	2.12	1.000	1	1.000	0	0	0
	2.25	1	0	0	0	2.26	1.003	1	1.000	0	0	0
	2.17	1	0	0	0	2.19	1.006	1	1.000	0	0	0
	1.86	1	0	0	0	1.82	0.986	1	1.000	0	0	0
neos-807639	16.47	2824	1	1	399	15.14	0.924	2641	0.937	0	0	16
	16.15	2595	0	0	365	17.09	<i>1.055</i>	2767	<i>1.064</i>	1	1	315
	15.63	2501	0	0	307	16.45	1.049	2393	0.958	1	1	385
	17.39	2933	0	0	352	16.72	0.964	2634	0.901	0	0	17
neos-807705	26.69	3259	1	1	242	27.95	1.046	3928	<i>1.199</i>	2	2	474
	35.28	4408	2	2	325	28.83	0.822	3816	0.869	0	0	14
	26.27	3762	2	2	284	28.09	<i>1.067</i>	3967	<i>1.053</i>	2	2	287
	27.09	3708	2	2	366	26.36	0.974	2998	0.814	1	1	313
neos-808072	25.96	411	0	0	32	20.46	0.796	172	0.532	0	0	0
	27.34	235	0	0	98	18.98	0.705	121	0.660	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	16.06	59	0	0	0	17.63	<i>1.092</i>	40	0.881	1	1	0
	19.50	176	0	0	0	18.36	0.944	91	0.692	0	0	0
neos-808214	22.56	902	1	0	406	22.60	1.002	902	1.000	0	0	0
	17.29	836	0	0	142	17.31	1.001	836	1.000	0	0	0
	16.25	581	0	0	97	16.28	1.002	581	1.000	0	0	0
	22.00	1488	0	0	553	21.90	0.996	1488	1.000	0	0	0
neos-810286	19.55	5	0	0	0	196.94	<i>9.632</i>	786	<i>8.438</i>	0	0	0
	221.69	474	0	0	294	21.33	0.100	5	0.183	0	0	0
	299.64	781	0	0	263	26.21	0.091	5	0.119	0	0	0
	241.94	1026	1	1	851	86.64	0.361	382	0.428	0	0	0
neos-810326	50.31	1196	0	0	275	26.89	0.544	527	0.484	1	1	0
	15.01	177	0	0	0	49.06	<i>3.127</i>	1095	<i>4.314</i>	1	1	88
	35.82	851	0	0	372	88.79	<i>2.439</i>	1956	<i>2.162</i>	2	2	63
	37.72	882	0	0	260	42.71	<i>1.129</i>	1006	<i>1.126</i>	0	0	289
neos-820146	limit	1746008	0	0	35128	limit	1.000	1744001	0.999	0	0	0
	limit	1174341	0	0	23819	limit	1.000	1157911	0.986	0	0	0
	limit	2932659	0	0	44210	limit	1.000	2901839	0.989	0	0	0
	limit	2047225	0	0	69619	limit	1.000	2057438	1.005	0	0	0
neos-820157	limit	1615861	0	0	49357	limit	1.000	1607753	0.995	0	0	0
	limit	1757370	0	0	62927	limit	1.000	1759465	1.001	0	0	0
	limit	1337318	0	0	42159	limit	1.000	1320091	0.987	0	0	0
	limit	2137034	0	0	61853	limit	1.000	2125168	0.994	0	0	0
neos-820879	49.70	31	0	0	0	43.67	0.881	376	<i>3.634</i>	0	0	0
	52.16	411	0	0	0	59.04	<i>1.129</i>	318	0.818	0	0	0
	42.96	32	0	0	0	34.36	0.804	15	0.871	0	0	0
	57.52	205	0	0	0	43.65	0.763	23	0.403	0	0	0
neos-824661	1080.45	46	1	1	9	1086.36	1.005	46	1.000	0	0	0
	824.67	37	1	1	16	834.60	1.012	37	1.000	0	0	0
	992.14	85	1	1	3	1003.22	1.011	85	1.000	0	0	0
	1527.24	43	0	0	3	1575.15	1.031	51	<i>1.056</i>	0	0	0
neos-824695	517.05	67	0	1	54	524.58	1.015	67	1.000	0	0	0
	286.27	31	1	0	36	292.43	1.021	31	1.000	0	0	0
	412.60	37	1	1	67	418.41	1.014	37	1.000	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	256.97	19	1	1	0	260.52	1.014	19	1.000	0	0	0
neos-825075	1.12	1	0	0	0	1.16	1.019	1	1.000	1	1	0
	1.81	7	0	0	0	2.07	<i>1.093</i>	11	1.037	1	1	0
	1.77	5	0	0	0	2.31	<i>1.195</i>	2	0.971	2	2	2
	2.02	6	0	0	0	1.69	0.891	2	0.962	1	1	0
neos-826224	69.42	1	0	0	0	70.21	1.011	1	1.000	0	0	0
	236.72	45	1	1	0	237.48	1.003	45	1.000	0	0	0
	15.31	1	0	0	0	15.72	1.025	1	1.000	0	0	0
	10.50	1	0	0	0	10.67	1.015	1	1.000	0	0	0
neos-826250	172.64	18	1	1	0	173.65	1.006	18	1.000	0	0	0
	215.61	24	1	1	0	216.83	1.006	24	1.000	0	0	0
	40.46	1	0	0	0	40.86	1.010	1	1.000	0	0	0
	180.55	41	0	0	0	181.44	1.005	41	1.000	0	0	0
neos-826650	limit	37527	0	0	632	limit	1.000	37072	0.988	0	0	0
	limit	53858	0	0	1602	limit	1.000	53081	0.986	0	0	0
	limit	16051	0	1	933	limit	1.000	15926	0.992	0	0	0
	limit	54918	0	1	2107	limit	1.000	54538	0.993	0	0	0
neos-826694	222.36	24	0	0	0	223.78	1.006	24	1.000	0	0	0
	403.32	57	1	1	2	406.46	1.008	57	1.000	0	0	0
	435.49	201	0	0	0	436.82	1.003	201	1.000	0	0	0
	265.10	71	1	1	0	265.76	1.002	71	1.000	0	0	0
neos-826812	26.07	1	0	0	0	26.30	1.008	1	1.000	0	0	0
	199.86	18	1	1	0	45.24	0.230	1	0.856	0	0	0
	126.48	5	0	0	0	127.26	1.006	5	1.000	0	0	0
	204.42	7	0	0	0	206.85	1.012	7	1.000	0	0	0
neos-826841	limit	220633	0	0	1609	limit	1.000	137052	0.621	0	0	0
	limit	131119	0	0	1443	limit	1.000	299725	<i>2.285</i>	0	0	0
	limit	156266	3	3	1364	limit	1.000	146332	0.936	0	0	0
	limit	135271	0	0	1629	limit	1.000	206931	<i>1.529</i>	0	0	0
neos-827015	1222.14	337	0	0	441	877.19	0.718	188	0.659	0	0	0
	1197.58	301	0	0	136	1217.53	1.017	221	0.800	0	0	0
	3131.30	924	1	1	423	1215.96	0.389	300	0.391	0	0	0
	696.41	174	0	0	358	1014.65	<i>1.456</i>	230	<i>1.204</i>	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-827175	6.13	1	0	0	0	6.29	1.022	1	1.000	0	0	0
	8.04	1	0	0	0	8.36	1.035	1	1.000	0	0	0
	6.73	1	0	0	0	6.92	1.025	1	1.000	0	0	0
	32.45	1	0	0	0	32.73	1.008	1	1.000	0	0	0
neos-829552	254.13	179	0	0	27	696.45	<i>2.734</i>	689	<i>2.828</i>	0	0	0
	263.64	249	0	0	188	307.58	<i>1.166</i>	202	0.865	0	0	0
	266.01	230	0	0	69	341.57	<i>1.283</i>	353	<i>1.373</i>	0	0	0
	379.52	419	0	0	146	390.22	1.028	330	0.829	0	0	0
neos-830439	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
neos-831188	248.33	2585	0	0	298	289.03	<i>1.163</i>	2522	0.977	0	0	0
	275.04	2749	0	0	528	261.06	0.949	2490	0.909	0	0	0
	318.83	3119	0	0	280	205.14	0.645	1910	0.624	0	0	0
	302.70	2773	0	1	595	230.46	0.762	2162	0.787	0	0	0
neos-839838	1567.38	55355	1	1	70	1912.03	<i>1.220</i>	64421	<i>1.163</i>	0	0	0
	985.06	35500	0	0	10	1067.49	<i>1.084</i>	32201	0.907	0	0	0
	1402.07	45773	1	1	33	1386.17	0.989	45672	0.998	0	0	0
	764.93	26284	2	2	142	752.32	0.984	27539	1.048	0	0	0
neos-839859	38.77	1834	0	0	0	35.98	0.930	2131	<i>1.154</i>	0	0	25
	42.85	2550	0	0	15	64.96	<i>1.504</i>	5244	<i>2.017</i>	0	0	25
	45.08	2538	0	0	4	50.17	<i>1.110</i>	2761	<i>1.085</i>	0	0	0
	64.95	4753	0	0	29	53.72	0.830	3434	0.728	0	0	25
neos-839894	limit	198	0	0	16	limit	1.000	1229	<i>4.460</i>	2	2	33
	limit	178	0	0	0	limit	1.000	316	<i>1.496</i>	0	0	0
	limit	171	0	0	0	limit	1.000	170	0.996	0	0	0
	limit	278	0	0	0	limit	1.000	42	0.376	0	0	0
neos-841664	limit	89850	25	11	2341	limit	1.000	20588	0.230	502	45	8655
	limit	139541	19	18	291	limit	1.000	43991	0.316	323	47	6538
	2990.72	45747	75	8	1339	limit	<i>2.407</i>	76827	<i>1.678</i>	448	74	9266
	limit	76369	22	8	981	limit	1.000	121197	<i>1.586</i>	512	56	6807
neos-847051	limit	2513037	2	6	1	limit	1.000	2503522	0.996	0	0	0
	limit	2723021	0	3	135	limit	1.000	2712222	0.996	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	1023008	1	2	126	limit	1.000	1022801	1.000	0	0	0
	limit	3248415	3	4	8	limit	1.000	3245004	0.999	0	0	0
neos-847302	limit	310497	1	1	305	limit	1.000	310496	1.000	0	0	0
	limit	285614	0	0	359	limit	1.000	285607	1.000	0	0	0
	limit	272874	1	1	841	limit	1.000	272101	0.997	0	0	0
	limit	369028	2	1	815	limit	1.000	369408	1.001	0	0	0
neos-848150	11.36	23	0	0	3	11.39	1.002	23	1.000	0	0	0
	12.11	22	0	0	0	12.10	0.999	22	1.000	0	0	0
	1.07	1	0	0	0	1.09	1.010	1	1.000	0	0	0
	13.35	30	0	0	0	13.35	1.000	30	1.000	0	0	0
neos-848198	limit	1461	79	82	17	limit	1.000	938	0.665	135	0	119
	limit	1387	185	11	21	limit	1.000	614	0.480	112	0	109
	limit	3662	194	11	34	limit	1.000	948	0.279	14	0	73
	limit	4005	143	14	25	limit	1.000	1309	0.343	49	0	57
neos-848589	2427.32	117	0	0	0	2456.98	1.012	117	1.000	0	0	0
	1890.58	45	0	0	0	1916.19	1.014	45	1.000	0	0	0
	1141.60	23	0	0	0	1146.16	1.004	23	1.000	0	0	0
	1104.10	49	0	0	0	1133.88	1.027	49	1.000	0	0	0
neos-848845	890.66	54283	0	0	464	892.11	1.002	54283	1.000	0	0	0
	498.02	29867	0	0	521	497.54	0.999	29867	1.000	0	0	0
	135.69	2323	0	0	91	136.10	1.003	2323	1.000	0	0	0
	175.49	3297	0	0	186	176.46	1.005	3297	1.000	0	0	0
neos-849702	242.40	12631	0	0	295	243.29	1.004	12631	1.000	0	0	0
	101.34	3749	0	0	194	101.12	0.998	3749	1.000	0	0	0
	2438.94	192391	0	0	649	2435.60	0.999	192391	1.000	0	0	0
	82.80	1786	0	0	121	82.50	0.996	1786	1.000	0	0	0
neos-850681	6.34	6	0	0	0	2.74	0.510	1	0.953	1	1	0
	6.52	6	0	0	0	7.25	<i>1.097</i>	2	0.962	2	2	0
	5.38	6	0	0	0	2.87	0.607	1	0.953	1	1	0
	9.33	7	0	0	0	2.53	0.342	1	0.944	1	1	0
neos-856059	4976.28	314313	0	0	1229	4979.48	1.001	314313	1.000	0	0	0
	4073.48	259764	2	0	1919	4085.75	1.003	259764	1.000	0	0	0
	3996.11	250654	2	1	1461	4006.26	1.003	250654	1.000	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	4700.47	285239	2	0	701	4623.19	0.984	285239	1.000	0	0	0
neos-859770	128.26	1	0	0	0	128.93	1.005	1	1.000	0	0	0
	143.67	1	0	0	0	143.72	1.000	1	1.000	0	0	0
	126.17	1	0	0	0	126.93	1.006	1	1.000	0	0	0
	134.49	1	0	0	0	133.40	0.992	1	1.000	0	0	0
neos-860244	4.52	1	0	0	0	4.58	1.011	1	1.000	1	1	0
	4.90	1	0	0	0	4.95	1.008	1	1.000	1	1	0
	5.14	1	0	0	0	5.12	0.997	1	1.000	1	1	0
	3.97	1	0	0	0	3.99	1.004	1	1.000	1	1	0
neos-860300	16.83	2	0	0	0	19.23	<i>1.135</i>	3	1.010	0	0	0
	15.23	2	0	0	0	19.11	<i>1.239</i>	2	1.000	1	1	0
	18.03	3	0	0	0	19.25	<i>1.064</i>	3	1.000	1	1	7
	15.68	2	0	0	0	20.44	<i>1.285</i>	3	1.010	0	0	0
neos-862348	14.08	166	0	0	0	11.50	0.829	129	0.861	0	0	4
	7.30	38	0	0	0	9.80	<i>1.301</i>	54	<i>1.116</i>	0	0	7
	16.37	209	0	0	0	18.14	<i>1.102</i>	324	<i>1.372</i>	1	1	0
	12.01	4	0	0	0	12.58	1.044	4	1.000	1	1	64
neos-863472	48.06	42426	0	0	598	53.57	<i>1.112</i>	46819	<i>1.103</i>	1	1	116
	52.35	48044	0	0	672	39.79	0.765	37742	0.786	0	0	0
	36.79	30659	0	0	395	57.59	<i>1.550</i>	54245	<i>1.767</i>	0	0	12
	47.30	44326	0	0	644	47.65	1.007	40230	0.908	0	0	6
neos-872648	limit	16	0	0	0	limit	1.000	16	1.000	5	0	0
	limit	238	0	0	2	limit	1.000	376	<i>1.408</i>	0	0	0
	limit	51	0	0	2	limit	1.000	35	0.894	8	0	0
	limit	228	0	0	0	limit	1.000	288	<i>1.183</i>	0	0	0
neos-873061	limit	2058	3	0	2	limit	1.000	1551	0.765	41	0	4
	limit	11901	28	0	8	limit	1.000	10750	0.904	119	0	55
	limit	2057	30	0	6	limit	1.000	1518	0.750	0	0	0
	limit	11011	1	0	0	limit	1.000	305	0.036	0	0	0
neos-876808	limit	28	0	0	0	limit	1.000	31	1.023	0	0	0
	limit	23	0	0	0	limit	1.000	9	0.886	0	0	0
	limit	6	0	0	0	limit	1.000	5	0.991	0	0	0
	limit	1	0	0	0	limit	1.000	1	1.000	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-880324	0.79	12	0	0	0	0.78	0.994	12	1.000	0	0	0
	1.03	8	0	0	0	1.03	1.000	8	1.000	0	0	0
	0.63	4	0	0	0	0.63	1.000	4	1.000	0	0	0
	0.95	19	0	0	0	0.95	1.000	19	1.000	0	0	0
neos-881765	3.25	54	0	0	0	3.32	1.016	54	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	2.25	22	0	0	0	2.21	0.988	22	1.000	0	0	0
	2.34	23	0	0	0	2.31	0.991	23	1.000	0	0	0
neos-885086	1498.15	236	0	0	0	1523.27	1.017	236	1.000	0	0	0
	limit	1116	0	0	133	limit	1.000	1097	0.984	0	0	0
	limit	918	0	0	0	limit	1.000	915	0.997	0	0	0
	3112.19	272	0	0	0	3139.86	1.009	272	1.000	0	0	0
neos-885524	68.13	401	0	0	12	2567.35	<i>37.152</i>	4264	<i>8.711</i>	0	0	0
	18.59	25	0	0	0	650.47	<i>33.255</i>	653	<i>6.024</i>	0	0	0
	limit	13927	0	0	23	860.25	0.120	1302	0.100	0	0	0
	limit	14231	0	0	46	4744.09	0.659	4109	0.294	0	0	0
neos-886822	2602.08	211217	0	0	888	2606.75	1.002	211217	1.000	0	0	0
	1588.83	150024	0	0	553	1601.90	1.008	150024	1.000	0	0	0
	2630.78	197060	0	0	1054	2654.23	1.009	197060	1.000	0	0	0
	2420.72	235585	0	0	679	2425.59	1.002	235585	1.000	0	0	0
neos-892255	73.05	751	0	0	2	73.49	1.006	751	1.000	0	0	0
	92.18	487	0	0	5	92.54	1.004	487	1.000	0	0	0
	77.54	298	0	0	10	77.76	1.003	298	1.000	0	0	0
	40.97	290	0	0	0	41.09	1.003	290	1.000	0	0	0
neos-905856	18.38	375	0	0	237	18.31	0.996	375	1.000	0	0	0
	95.57	7861	0	0	360	95.61	1.000	7861	1.000	0	0	0
	127.36	9876	0	0	226	127.29	0.999	9876	1.000	0	0	0
	568.82	52807	0	0	567	570.80	1.003	52807	1.000	0	0	0
neos-906865	102.02	17218	0	0	77	102.44	1.004	17218	1.000	0	0	0
	133.25	24206	0	0	113	133.51	1.002	24206	1.000	0	0	0
	134.89	27518	0	0	111	135.30	1.003	27518	1.000	0	0	0
	108.76	22634	0	0	189	109.27	1.005	22634	1.000	0	0	0
neos-911880	318.80	166853	3	3	269	317.76	0.997	166853	1.000	0	0	0
	limit	5782937	0	2	1084	limit	1.000	7416819	<i>1.283</i>	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	1653013	0	3	219	3437.65	0.478	2846458	<i>1.722</i>	0	0	0
	limit	7616696	1	2	1696	901.52	0.125	706391	0.093	0	0	0
neos-911970	limit	6033380	1	6	2011	limit	1.000	7665683	<i>1.271</i>	0	0	0
	limit	6863340	0	4	1821	limit	1.000	6300371	0.918	0	0	0
	limit	6016562	0	6	1361	limit	1.000	4448238	0.739	0	0	0
	275.56	111525	1	5	77	limit	<i>26.038</i>	6712738	<i>60.137</i>	0	0	0
neos-912015	7.51	28	0	0	0	11.40	<i>1.457</i>	264	<i>2.844</i>	0	0	0
	4.64	21	0	0	0	7.07	<i>1.431</i>	18	0.975	0	0	60
	13.80	567	0	0	125	11.74	0.861	286	0.579	0	0	12
	7.21	29	0	0	0	8.68	<i>1.179</i>	43	<i>1.109</i>	0	0	15
neos-912023	8.04	20	0	0	0	4.72	0.633	5	0.875	0	0	18
	4.65	5	0	0	0	4.77	1.021	5	1.000	0	0	21
	6.21	22	0	0	0	7.87	<i>1.230</i>	41	<i>1.156</i>	0	0	18
	8.81	99	0	0	0	8.26	0.944	68	0.844	0	0	10
neos-913984	2.56	1	0	0	0	2.56	1.000	1	1.000	0	0	0
	2.55	1	0	0	0	2.53	0.994	1	1.000	0	0	0
	2.58	1	0	0	0	2.52	0.983	1	1.000	0	0	0
	2.57	1	0	0	0	2.51	0.983	1	1.000	0	0	0
neos-914441	7.10	1	0	0	0	7.03	0.991	1	1.000	0	0	0
	3.54	1	0	0	0	3.50	0.991	1	1.000	0	0	0
	13.51	2	0	0	0	13.47	0.997	2	1.000	0	0	0
	8.16	2	0	0	0	8.18	1.002	2	1.000	0	0	0
neos-916173	80.17	10649	0	0	32	79.56	0.992	10649	1.000	0	0	0
	66.02	7774	0	0	29	65.98	0.999	7774	1.000	0	0	0
	116.49	12392	0	0	63	115.68	0.993	12392	1.000	0	0	0
	78.65	8603	0	0	95	77.80	0.989	8603	1.000	0	0	0
neos-916792	1060.58	138606	2	2	150	1062.32	1.002	138606	1.000	0	0	0
	1129.93	161126	1	1	394	1130.58	1.001	161126	1.000	0	0	0
	738.07	87110	0	2	199	739.20	1.002	87110	1.000	0	0	0
	1486.10	230216	2	2	237	1479.23	0.995	230216	1.000	0	0	0
neos-930752	limit	2814	0	3	116	limit	1.000	2216	0.795	0	0	0
	limit	2904	0	5	95	limit	1.000	2872	0.989	0	0	0
	limit	2945	1	3	1068	limit	1.000	3132	<i>1.061</i>	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	3104	0	4	319	limit	1.000	3072	0.990	0	0	0
neos-931517	limit	1744	2	2	466	limit	1.000	1794	1.027	0	0	0
	limit	1962	1	1	449	limit	1.000	1399	0.727	0	0	0
	limit	1280	1	1	0	limit	1.000	1400	<i>1.087</i>	0	0	0
	limit	1570	3	3	1135	limit	1.000	2589	<i>1.610</i>	0	0	0
neos-931538	60.56	5	0	0	0	68.14	<i>1.123</i>	5	1.000	0	0	0
	75.72	5	0	0	0	87.57	<i>1.154</i>	5	1.000	0	0	0
	83.03	5	0	0	0	87.45	<i>1.053</i>	5	1.000	0	0	0
	81.81	5	0	0	0	85.35	1.043	5	1.000	0	0	0
neos-932721	2.66	1	0	0	0	4.89	<i>1.609</i>	1	1.000	0	0	0
	2.25	1	0	0	0	4.07	<i>1.560</i>	1	1.000	0	0	0
	2.25	1	0	0	0	3.96	<i>1.526</i>	1	1.000	0	0	0
	1.97	1	0	0	0	4.96	<i>2.007</i>	1	1.000	0	0	0
neos-932816	limit	1459	0	4	8	limit	1.000	641	0.475	0	0	0
	2575.79	582	0	2	18	2908.84	<i>1.129</i>	742	<i>1.235</i>	0	0	0
	1090.28	191	0	1	0	1119.62	1.027	353	<i>1.557</i>	0	0	0
	2314.80	566	0	3	6	1733.81	0.749	370	0.706	0	0	0
neos-933364	25.96	4170	0	2	8	24.26	0.937	3449	0.831	0	0	0
	50.52	20459	0	0	33	39.50	0.786	10318	0.507	0	0	0
	26.65	5057	0	0	15	35.71	<i>1.328</i>	8918	<i>1.749</i>	0	0	0
	92.50	32533	0	0	57	34.64	0.381	8041	0.249	0	0	0
neos-933550	3.32	27	0	0	0	3.34	1.005	27	1.000	0	0	0
	3.60	28	0	0	0	3.62	1.004	28	1.000	0	0	0
	3.68	31	0	0	0	3.67	0.998	31	1.000	0	0	0
	3.30	25	0	0	0	3.30	1.000	25	1.000	0	0	0
neos-933562	limit	50628	0	1	236	limit	1.000	50749	1.002	0	0	0
	limit	99087	0	0	383	limit	1.000	99087	1.000	0	0	0
	limit	33027	1	1	885	limit	1.000	33009	0.999	0	0	0
	limit	62222	0	1	427	limit	1.000	61869	0.994	0	0	0
neos-933638	6377.19	948	0	3	126	6259.03	0.981	1463	<i>1.491</i>	0	0	0
	2373.77	246	0	1	0	4902.29	<i>2.065</i>	419	<i>1.500</i>	0	0	0
	4796.62	907	0	2	57	4770.24	0.995	907	1.000	0	0	0
	3543.20	767	0	1	40	2848.87	0.804	425	0.606	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-933815	25.65	12053	0	0	92	45.27	<i>1.736</i>	31016	<i>2.560</i>	1	1	29
	34.66	23405	1	1	64	22.43	0.657	9438	0.406	1	1	26
	31.24	15872	0	0	49	44.42	<i>1.409</i>	17432	<i>1.098</i>	0	0	0
	28.15	15493	0	1	65	18.65	0.674	4378	0.287	0	0	0
neos-933966	limit	2493	1	2	222	limit	1.000	2488	0.998	0	0	0
	1475.89	114	0	2	15	1481.38	1.004	114	1.000	0	0	0
	4475.20	1618	0	2	413	2622.26	0.586	1056	0.673	0	0	0
	2369.70	1091	0	1	107	5195.98	<i>2.192</i>	2611	<i>2.276</i>	0	0	0
neos-934278	limit	990	0	0	0	limit	1.000	913	0.929	0	0	0
	limit	2557	0	0	180	limit	1.000	2047	0.808	0	0	0
	limit	603	0	0	1	limit	1.000	800	<i>1.280</i>	0	0	0
	5918.44	2652	0	1	603	limit	<i>1.217</i>	919	0.370	0	0	0
neos-934441	limit	758	0	0	0	limit	1.000	619	0.838	0	0	0
	limit	2550	0	0	315	limit	1.000	1012	0.420	0	0	0
	limit	678	1	1	82	limit	1.000	794	<i>1.149</i>	0	0	0
	limit	1049	1	1	97	limit	1.000	1125	<i>1.066</i>	0	0	0
neos-934531	69.55	1	0	0	0	107.16	<i>1.533</i>	3	1.020	1	1	9
	103.31	2	0	0	0	109.81	<i>1.062</i>	8	<i>1.059</i>	0	0	10
	129.71	12	0	0	0	114.33	0.882	5	0.938	0	0	33
	99.23	10	0	0	0	82.84	0.836	2	0.927	0	0	30
neos-935234	limit	1283	0	0	132	limit	1.000	631	0.529	0	0	0
	limit	613	1	1	10	limit	1.000	566	0.934	0	0	0
	limit	882	2	2	17	limit	1.000	459	0.569	0	0	0
	limit	1692	0	1	327	limit	1.000	756	0.478	0	0	0
neos-935348	limit	736	3	3	664	limit	1.000	1190	<i>1.543</i>	0	0	0
	limit	633	0	1	5	limit	1.000	822	<i>1.258</i>	0	0	0
	limit	613	0	0	1	limit	1.000	3106	<i>4.496</i>	0	0	0
	limit	623	2	2	7	limit	1.000	581	0.942	0	0	0
neos-935496	limit	1635680	1	1	4511	limit	1.000	1636528	1.001	0	0	0
	limit	1100074	0	1	1794	limit	1.000	1103301	1.003	0	0	0
	limit	1044317	0	1	892	limit	1.000	1050846	1.006	0	0	0
	limit	1611305	0	0	941	limit	1.000	1606207	0.997	0	0	0
neos-935627	limit	698	1	1	424	limit	1.000	689	0.989	0	0	0
	limit	859	0	0	5	limit	1.000	666	0.799	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	805	2	2	15	5596.69	0.777	589	0.761	0	0	0
	limit	678	2	2	303	limit	1.000	783	<i>1.135</i>	0	0	0
neos-935674	limit	822413	4	4	4406	limit	1.000	823191	1.001	0	0	0
	limit	1207970	1	1	6383	limit	1.000	1199452	0.993	0	0	0
	limit	1113841	2	2	2095	limit	1.000	1115829	1.002	0	0	0
	limit	1624075	1	1	9117	limit	1.000	1620055	0.998	0	0	0
neos-935769	limit	1105	2	3	136	1645.51	0.229	171	0.225	0	0	0
	5326.90	4126	3	3	301	limit	<i>1.352</i>	1910	0.476	0	0	0
	limit	925	0	4	23	limit	1.000	2969	<i>2.994</i>	0	0	0
	2819.87	417	0	2	19	limit	<i>2.553</i>	917	<i>1.967</i>	0	0	0
neos-936660	limit	859	0	3	34	limit	1.000	720	0.855	0	0	0
	limit	522	0	2	20	limit	1.000	1841	<i>3.121</i>	0	0	0
	limit	1530	6	2	3	6013.22	0.835	1993	<i>1.284</i>	0	0	0
	limit	1955	2	2	117	limit	1.000	779	0.428	0	0	0
neos-937446	1107.70	263	2	1	0	limit	<i>6.495</i>	497	<i>1.645</i>	0	0	0
	limit	1807	1	2	149	4367.93	0.607	275	0.197	0	0	0
	limit	1443	6	2	174	5593.84	0.777	719	0.531	0	0	0
	limit	2046	0	1	154	1653.98	0.230	241	0.159	0	0	0
neos-937511	4538.90	1866	4	2	243	limit	<i>1.586</i>	878	0.497	0	0	0
	3227.43	896	2	2	177	limit	<i>2.230</i>	795	0.899	0	0	0
	limit	1318	2	1	209	2105.65	0.293	308	0.288	0	0	0
	5424.26	2031	3	3	297	5949.01	<i>1.097</i>	1377	0.693	0	0	0
neos-937815	limit	1116	2	2	405	limit	1.000	1288	<i>1.141</i>	0	0	0
	limit	959	2	2	231	limit	1.000	805	0.855	0	0	0
	limit	777	4	4	638	limit	1.000	3231	<i>3.798</i>	0	0	0
	limit	3047	0	2	46	limit	1.000	917	0.323	0	0	0
neos-941262	limit	822	0	0	12	limit	1.000	996	<i>1.189</i>	0	0	0
	limit	1002	0	2	80	limit	1.000	1054	1.047	0	0	0
	limit	1058	2	2	193	limit	1.000	1039	0.984	0	0	0
	limit	957	0	0	15	limit	1.000	806	0.857	0	0	0
neos-941313	6444.20	231	1	1	694	5046.92	0.783	213	0.946	0	0	0
	1035.95	5	0	0	0	1055.69	1.019	5	1.000	0	0	0
	656.30	6	0	0	0	930.27	<i>1.417</i>	6	1.000	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	4470.37	185	0	0	0	5395.83	<i>1.207</i>	135	0.825	0	0	0
neos-941698	18.09	483	0	0	89	18.12	1.002	483	1.000	0	0	0
	8.67	71	0	0	0	8.68	1.001	71	1.000	0	0	0
	13.05	123	0	0	0	12.99	0.996	123	1.000	0	0	0
	11.52	99	0	0	0	11.45	0.994	99	1.000	0	0	0
neos-941717	limit	1209412	0	1	1410	limit	1.000	1207745	0.999	0	0	0
	limit	802081	2	0	1440	limit	1.000	805719	1.005	0	0	0
	limit	1440689	0	1	994	limit	1.000	1442169	1.001	0	0	0
	limit	1002180	1	1	4082	limit	1.000	999773	0.998	0	0	0
neos-941782	limit	1599312	1	1	39926	limit	1.000	1594395	0.997	0	0	0
	limit	1338700	1	1	3573	limit	1.000	1340471	1.001	0	0	0
	limit	1716801	1	1	5477	limit	1.000	1714903	0.999	0	0	0
	limit	1749924	0	1	3085	limit	1.000	1750043	1.000	0	0	0
neos-942323	3.31	30	0	0	0	3.28	0.993	30	1.000	0	0	0
	6.78	490	0	0	0	6.78	1.000	490	1.000	0	0	0
	4.44	97	0	0	0	4.46	1.004	97	1.000	0	0	0
	7.17	714	0	0	0	7.19	1.002	714	1.000	0	0	0
neos-942830	1123.59	384859	2	2	2611	1120.45	0.997	384859	1.000	0	0	0
	641.74	243577	0	0	2814	642.20	1.001	243577	1.000	0	0	0
	533.80	182134	1	1	4325	570.39	<i>1.068</i>	197328	<i>1.083</i>	0	0	0
	1127.30	308675	1	0	3734	1125.80	0.999	308675	1.000	0	0	0
neos-942886	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
neos-948126	limit	861	2	2	518	limit	1.000	1272	<i>1.428</i>	0	0	0
	limit	2203	0	0	418	limit	1.000	1130	0.534	0	0	0
	limit	955	0	0	6	limit	1.000	1009	<i>1.051</i>	0	0	0
	limit	1460	4	4	24	limit	1.000	1232	0.854	0	0	0
neos-948268	9.29	1	0	0	0	9.26	0.997	1	1.000	0	0	0
	12.53	1	0	0	0	12.58	1.004	1	1.000	0	0	0
	8.09	1	0	0	0	8.11	1.002	1	1.000	0	0	0
	10.88	1	0	0	0	10.84	0.997	1	1.000	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
neos-948346	limit	81	0	0	0	limit	1.000	157	<i>1.420</i>	0	0	0
	limit	393	0	0	71	limit	1.000	415	1.045	0	0	0
	limit	484	2	2	410	limit	1.000	394	0.846	0	0	0
	limit	269	0	0	0	limit	1.000	454	<i>1.501</i>	0	0	0
neos-950242	341.95	137	0	0	37	347.54	1.016	137	1.000	0	0	0
	233.01	62	0	0	64	237.47	1.019	62	1.000	0	0	0
	209.98	39	0	1	95	214.41	1.021	39	1.000	0	0	0
	589.70	194	0	0	154	604.03	1.024	194	1.000	0	0	0
neos-952987	limit	23	0	0	0	limit	1.000	22	0.992	0	0	0
	limit	30	0	0	0	limit	1.000	29	0.992	0	0	0
	limit	17	0	0	0	limit	1.000	16	0.991	0	0	0
	limit	36	0	0	8	limit	1.000	35	0.993	0	0	0
neos-953928	408.30	97	0	0	0	273.16	0.670	12	0.569	0	0	0
	354.82	72	1	1	2	318.61	0.898	81	<i>1.052</i>	0	0	0
	516.32	43	1	1	34	475.31	0.921	37	0.958	0	0	0
	673.51	69	1	0	62	483.91	0.719	55	0.917	0	0	0
neos-954925	5197.32	326	0	0	54	1721.07	0.331	41	0.331	0	0	0
	2374.11	93	0	0	0	1946.47	0.820	94	1.005	0	0	0
	2731.68	160	1	2	25	2638.98	0.966	105	0.788	0	0	0
	2066.39	41	0	0	0	1659.86	0.803	41	1.000	0	0	0
neos-955215	14.46	17654	0	0	94	11.99	0.840	15909	0.902	1	1	93
	12.49	7955	0	0	84	17.42	<i>1.365</i>	20418	<i>2.547</i>	0	0	0
	12.23	17102	0	0	103	22.77	<i>1.797</i>	32370	<i>1.888</i>	1	1	140
	6.66	3797	0	0	27	24.57	<i>3.338</i>	43400	<i>11.162</i>	1	1	106
neos-955800	55.67	2143	1	1	255	56.74	1.019	2143	1.000	0	0	0
	34.96	998	1	1	89	35.29	1.009	998	1.000	0	0	0
	29.61	707	0	0	21	29.63	1.001	707	1.000	0	0	0
	46.03	1323	0	0	229	46.20	1.004	1323	1.000	0	0	0
neos-956971	2892.23	284	0	2	31	2257.98	0.781	105	0.534	0	0	0
	6316.84	362	0	0	347	5772.68	0.914	290	0.844	0	0	0
	2641.42	694	1	1	151	3327.23	<i>1.260</i>	1100	<i>1.511</i>	0	0	0
	5438.21	382	1	1	34	1699.67	0.313	66	0.344	0	0	0
neos-957143	920.52	41	1	1	0	1025.69	<i>1.114</i>	52	<i>1.078</i>	0	0	0
	3612.96	318	0	1	12	1814.94	0.502	152	0.603	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	4367.13	226	0	1	118	1612.60	0.369	124	0.687	0	0	0
	3425.20	319	3	3	100	3003.98	0.877	213	0.747	0	0	0
neos-957270	1.74	1	0	0	0	1.70	0.985	1	1.000	0	0	0
	1.69	1	0	0	0	1.75	1.022	1	1.000	0	0	0
	1.74	1	0	0	0	1.70	0.985	1	1.000	0	0	0
	1.72	1	0	0	0	1.72	1.000	1	1.000	0	0	0
neos-957323	93.90	2	0	0	0	116.55	<i>1.239</i>	1	0.990	0	0	0
	267.26	18	0	0	0	199.54	0.748	14	0.966	0	0	0
	105.49	3	0	0	0	153.13	<i>1.447</i>	5	1.019	1	1	0
	77.27	2	0	0	0	60.82	0.790	1	0.990	1	1	0
neos-957389	13.28	1	0	0	0	13.28	1.000	1	1.000	0	0	0
	13.30	1	0	0	0	13.34	1.003	1	1.000	0	0	0
	13.22	1	0	0	0	13.18	0.997	1	1.000	0	0	0
	13.45	1	0	0	0	13.31	0.990	1	1.000	0	0	0
neos-960392	678.00	15	0	0	0	698.82	1.031	15	1.000	0	0	0
	802.54	28	0	0	0	822.14	1.024	28	1.000	0	0	0
	1789.93	269	0	0	39	1852.85	1.035	269	1.000	0	0	0
	1080.45	58	0	1	280	1109.19	1.027	58	1.000	0	0	0
neos-983171	limit	601	0	0	5	limit	1.000	593	0.989	0	0	0
	limit	732	0	0	22	limit	1.000	664	0.918	0	0	0
	limit	762	3	3	221	limit	1.000	766	1.005	0	0	0
	limit	474	1	0	12	limit	1.000	533	<i>1.103</i>	0	0	0
neos-984165	limit	786	0	0	149	limit	1.000	681	0.881	0	0	0
	limit	628	5	5	388	limit	1.000	1299	<i>1.922</i>	0	0	0
	limit	759	0	0	8	limit	1.000	701	0.932	0	0	0
	limit	623	4	4	2	limit	1.000	685	<i>1.086</i>	0	0	0
neos13	482.46	23323	2	2	197	474.57	0.984	23323	1.000	0	0	0
	761.63	39311	2	2	214	760.94	0.999	39311	1.000	0	0	0
	95.77	1594	1	1	2	96.33	1.006	1594	1.000	0	0	0
	530.73	23947	0	0	163	539.48	1.016	23947	1.000	0	0	0
neos18	20.63	1291	0	0	50	20.52	0.995	1291	1.000	0	0	0
	21.66	1573	0	0	76	21.69	1.001	1573	1.000	0	0	0
	19.25	1011	0	0	26	19.26	1.000	1011	1.000	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	18.67	946	0	0	9	18.39	0.986	946	1.000	0	0	0
net12	857.68	2252	0	0	621	577.95	0.674	1626	0.734	0	0	35
	758.16	1907	1	1	612	1345.64	<i>1.774</i>	2077	<i>1.085</i>	0	0	42
	2134.09	1799	0	1	481	515.95	0.242	1508	0.847	0	0	40
	3448.66	3677	1	1	627	851.71	0.247	3126	0.854	0	0	35
netdiversion	924.68	59	1	1	4	1592.73	<i>1.722</i>	175	<i>1.730</i>	0	0	0
	2209.03	66	0	0	26	3634.20	<i>1.645</i>	92	<i>1.157</i>	0	0	0
	4075.09	261	1	1	148	4527.40	<i>1.111</i>	159	0.717	0	0	0
	879.02	26	0	0	1	2058.06	<i>2.340</i>	76	<i>1.397</i>	0	0	0
newdano	6517.83	1459959	1	1	9	6565.08	1.007	1459959	1.000	0	0	0
	limit	1724750	0	0	1	limit	1.000	1713948	0.994	0	0	0
	6428.83	1316321	1	1	5	6467.54	1.006	1316321	1.000	0	0	0
	limit	1796696	2	4	12	limit	1.000	1786948	0.995	0	0	0
noswot	204.56	813210	1	1	685	204.00	0.997	813210	1.000	0	0	0
	146.65	590698	0	0	768	146.00	0.996	590698	1.000	0	0	0
	215.95	919828	0	0	1458	214.41	0.993	919828	1.000	0	0	0
	200.68	856222	0	0	864	201.04	1.002	856222	1.000	0	0	0
ns1208400	1051.70	3332	0	0	120	1045.17	0.994	3332	1.000	0	0	0
	319.22	827	0	0	86	318.38	0.997	827	1.000	0	0	0
	239.40	2522	0	0	484	239.25	0.999	2522	1.000	0	0	0
	503.66	2476	0	0	143	503.43	1.000	2476	1.000	0	0	0
ns1688347	36.78	254	0	0	10	50.86	<i>1.373</i>	432	<i>1.503</i>	0	0	54
	55.17	688	2	2	407	57.66	1.044	1558	<i>2.104</i>	0	0	0
	143.82	1063	1	1	684	158.40	<i>1.101</i>	991	0.938	0	0	81
	49.99	660	0	0	277	41.06	0.825	342	0.582	0	0	0
ns1758913	3939.24	2	0	0	0	4183.92	<i>1.062</i>	2	1.000	0	0	0
	1589.15	1	0	0	0	1588.55	1.000	1	1.000	0	0	0
	1695.14	1	0	0	0	1687.90	0.996	1	1.000	0	0	0
	1121.08	1	0	0	0	1135.71	1.013	1	1.000	0	0	0
ns1766074	596.68	889034	0	0	326	687.93	<i>1.153</i>	894838	1.007	0	0	2
	734.01	904416	0	0	554	617.77	0.842	887992	0.982	0	0	2
	608.71	901625	0	0	239	668.39	<i>1.098</i>	899355	0.997	0	0	2
	732.27	902421	0	0	447	741.87	1.013	898399	0.996	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
ns1830653	188.45	11159	1	1	1015	107.65	0.574	5799	0.524	0	0	12
	100.94	4245	1	1	547	165.12	<i>1.630</i>	8688	<i>2.023</i>	0	0	5
	136.13	7106	0	0	1075	117.70	0.866	6535	0.921	0	0	90
	140.84	4909	0	0	430	202.82	<i>1.437</i>	7919	<i>1.601</i>	0	0	5
nsa	1.74	226	0	1	0	1.72	0.993	226	1.000	0	0	0
	1.68	212	1	1	1	1.71	1.011	212	1.000	0	0	0
	1.74	191	0	1	2	1.77	1.011	191	1.000	0	0	0
	1.79	217	0	0	1	1.82	1.011	217	1.000	0	0	0
nsrand-ipx	586.58	83815	0	0	61	304.26	0.520	26960	0.322	0	0	0
	568.55	73290	0	0	44	357.04	0.629	43845	0.599	0	0	0
	877.30	113654	0	0	58	553.57	0.631	64093	0.564	0	0	0
	353.86	41859	0	0	41	544.46	<i>1.537</i>	67105	<i>1.602</i>	0	0	0
nug08	124.94	3	0	0	0	187.38	<i>1.496</i>	2	0.990	1	1	5
	80.11	2	0	0	0	84.47	<i>1.054</i>	2	1.000	1	1	0
	179.72	4	0	0	0	183.85	1.023	2	0.981	1	1	4
	116.07	2	0	0	0	105.48	0.910	2	1.000	1	1	0
nw04	21.07	6	0	0	0	26.17	<i>1.231</i>	6	1.000	0	0	68
	21.58	6	0	0	0	22.42	1.037	6	1.000	1	1	89
	23.39	6	0	0	0	22.82	0.977	6	1.000	1	1	59
	32.31	9	0	0	0	22.47	0.705	5	0.963	1	1	93
opm2-z7-s2	337.53	3782	1	1	91	209.34	0.621	1527	0.419	1	1	309
	216.00	1576	0	0	0	275.74	<i>1.275</i>	3161	<i>1.946</i>	1	1	319
	260.46	1537	0	0	179	267.55	1.027	2509	<i>1.594</i>	1	1	103
	260.69	2091	1	1	206	248.42	0.953	2470	<i>1.173</i>	1	1	142
opt1217	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
p0033	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
p0201	0.50	3	0	0	0	0.51	1.007	5	1.019	1	1	5
	0.64	9	0	0	0	0.61	0.982	7	0.982	1	1	5

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	0.67	9	0	0	0	0.66	0.994	7	0.982	0	0	11
	0.54	11	0	0	0	0.65	<i>1.071</i>	25	<i>1.126</i>	0	0	12
p0282	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	2
	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	2
	0.60	3	0	0	0	0.50	0.938	2	0.990	0	0	3
	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	2
p0548	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
p2756	4.69	5	0	0	0	3.98	0.875	12	<i>1.067</i>	1	1	2
	2.51	3	0	0	0	2.42	0.974	6	1.029	0	0	9
	3.28	27	0	0	1	3.14	0.967	14	0.898	0	0	9
	2.28	5	0	0	0	1.82	0.860	3	0.981	0	0	2
p6b	limit	736200	7	1	791	limit	1.000	727605	0.988	0	0	0
	limit	756588	3	1	525	limit	1.000	750070	0.991	0	0	0
	limit	718892	4	1	752	limit	1.000	710231	0.988	0	0	0
	limit	738033	2	1	323	limit	1.000	722445	0.979	0	0	0
pg5_34	4180.19	238659	0	0	1	4795.62	<i>1.147</i>	285214	<i>1.195</i>	1	1	3
	1165.49	236000	0	0	0	952.73	0.818	187700	0.795	1	1	2
	3500.68	225680	1	1	2	3332.84	0.952	215437	0.955	1	1	0
	2965.44	234406	1	1	1	2509.26	0.846	198989	0.849	1	1	9
pg	17.58	840	1	1	2	18.62	<i>1.056</i>	784	0.940	1	1	23
	27.09	599	1	1	2	27.47	1.014	580	0.973	1	1	13
	24.34	610	1	0	0	26.00	<i>1.066</i>	786	<i>1.248</i>	1	1	31
	15.85	195	0	0	6	21.56	<i>1.339</i>	304	<i>1.369</i>	1	1	16
pigeon-10	4549.68	13529494	0	0	2287	4525.24	0.995	13529494	1.000	0	0	0
	limit	21700928	0	0	8115	limit	1.000	21778322	1.004	0	0	0
	5295.04	13405990	0	0	6404	5311.40	1.003	13405990	1.000	0	0	0
	4440.38	13640551	0	0	2053	4422.90	0.996	13640551	1.000	0	0	0
pk1	127.38	403963	0	0	51	126.86	0.996	403963	1.000	0	0	0
	118.08	369445	0	0	46	117.84	0.998	369445	1.000	0	0	0
	117.61	366279	0	0	62	118.15	1.005	366279	1.000	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	125.50	401727	0	0	49	125.45	1.000	401727	1.000	0	0	0
pp08a	1.86	282	2	0	0	1.51	0.878	182	0.738	32	1	8
	1.65	269	8	2	2	1.54	0.958	312	<i>1.117</i>	38	3	14
	1.55	164	3	0	3	1.27	0.890	71	0.648	30	2	18
	1.14	116	3	0	2	1.30	<i>1.075</i>	227	<i>1.514</i>	26	4	17
pp08aCUTS	2.30	329	3	0	3	2.19	0.967	409	<i>1.186</i>	24	8	27
	2.20	282	7	2	7	1.63	0.822	98	0.518	25	3	9
	1.96	250	7	2	1	2.20	<i>1.081</i>	348	<i>1.280</i>	25	3	8
	2.03	226	0	0	5	2.01	0.993	253	<i>1.083</i>	31	2	5
prod1	20.42	30227	1	0	774	20.21	0.990	30227	1.000	0	0	0
	20.70	28677	1	0	913	20.54	0.993	28677	1.000	0	0	0
	15.84	22822	1	0	594	15.71	0.992	22822	1.000	0	0	0
	16.24	22930	1	0	407	16.08	0.991	22930	1.000	0	0	0
prod2	115.87	107994	2	1	584	114.96	0.992	107994	1.000	0	0	0
	80.28	71063	1	0	1046	80.05	0.997	71063	1.000	0	0	0
	86.55	91488	1	0	1006	86.03	0.994	91488	1.000	0	0	0
	108.22	108421	1	0	743	107.90	0.997	108421	1.000	0	0	0
protfold	limit	9753	0	0	745	limit	1.000	9909	1.016	0	0	0
	limit	10895	0	0	325	limit	1.000	10935	1.004	0	0	0
	limit	12737	0	1	487	limit	1.000	12779	1.003	0	0	0
	limit	20203	0	0	634	limit	1.000	19516	0.966	0	0	0
pw-myciel4	578.64	90247	1	1	8045	589.55	1.019	90247	1.000	0	0	0
	2232.67	348714	1	1	53137	2263.11	1.014	348714	1.000	0	0	0
	5814.04	645550	1	1	17899	5886.56	1.012	645550	1.000	0	0	0
	1954.66	238039	0	0	13994	1990.33	1.018	238039	1.000	0	0	0
qap10	68.39	5	0	0	0	87.20	<i>1.271</i>	5	1.000	0	0	0
	107.40	2	0	0	0	106.71	0.994	2	1.000	0	0	0
	177.29	14	0	0	0	208.39	<i>1.174</i>	12	0.982	0	0	0
	74.89	3	0	0	0	80.13	<i>1.069</i>	3	1.000	0	0	0
qiu	29.38	3841	6	2	9	29.19	0.994	3841	1.000	0	0	0
	16.49	2142	5	3	4	16.49	1.000	2142	1.000	0	0	0
	31.47	4087	18	5	18	31.67	1.006	4087	1.000	0	0	0
	36.36	4325	27	7	17	36.31	0.999	4325	1.000	0	0	0

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
qnet1	4.46	29	0	0	0	2.14	0.575	15	0.891	2	1	0
	7.41	5	0	0	0	4.71	0.679	2	0.971	0	0	13
	1.88	2	0	0	0	1.93	1.017	3	1.010	3	0	45
	4.10	24	0	0	0	2.20	0.627	7	0.863	4	1	39
qnet1.o	1.80	3	0	0	0	1.73	0.975	2	0.990	1	0	28
	2.62	12	0	0	0	2.81	<i>1.052</i>	17	1.045	0	0	0
	0.90	2	0	0	0	3.41	<i>2.321</i>	22	<i>1.196</i>	2	1	33
	1.05	1	0	0	0	1.47	<i>1.205</i>	2	1.010	4	0	20
rail507	140.85	631	0	0	0	441.23	<i>3.118</i>	1896	<i>2.731</i>	0	0	0
	171.32	807	0	0	4	210.77	<i>1.229</i>	1163	<i>1.393</i>	0	0	0
	218.31	900	0	0	4	270.79	<i>1.239</i>	1366	<i>1.466</i>	0	0	0
	186.65	847	0	0	4	183.88	0.985	938	<i>1.096</i>	0	0	0
ramos3	limit	39	0	0	0	limit	1.000	38	0.993	0	0	0
	limit	38	0	0	0	limit	1.000	37	0.993	0	0	0
	limit	43	0	0	0	limit	1.000	42	0.993	0	0	0
	limit	39	0	0	0	limit	1.000	39	1.000	0	0	0
ran14x18.disj-8	1538.55	422669	74	0	61	1402.69	0.912	345694	0.818	115	0	521
	1653.43	509529	143	0	80	1876.99	<i>1.135</i>	535668	<i>1.051</i>	125	0	646
	2687.47	791360	249	1	79	2194.19	0.817	572880	0.724	81	5	672
	3072.20	511977	184	1	125	1994.19	0.649	527306	1.030	103	0	526
ran14x18_1	1140.33	339134	167	0	47	905.95	0.795	280572	0.827	59	0	332
	1274.74	418898	104	0	52	1069.31	0.839	343078	0.819	48	0	312
	1395.02	497943	74	0	30	1069.47	0.767	402115	0.808	77	0	343
	1838.22	769180	275	0	100	1058.92	0.576	404079	0.525	47	0	228
ran16x16	78.39	14539	16	1	26	71.11	0.908	10926	0.753	48	0	100
	78.83	15549	38	0	38	89.10	<i>1.129</i>	18429	<i>1.184</i>	37	0	135
	61.78	7934	64	1	25	73.04	<i>1.179</i>	11819	<i>1.484</i>	43	0	126
	75.34	11547	83	0	57	62.20	0.828	12123	1.049	25	0	121
rd-rplusc-21	limit	566979	0	0	44	limit	1.000	465729	0.821	0	0	0
	limit	753532	1	1	56	limit	1.000	744800	0.988	0	0	0
	limit	753887	0	0	84	limit	1.000	749967	0.995	0	0	0
	limit	1078509	1	1	187	limit	1.000	1089420	1.010	0	0	0
reblock67	214.83	40539	0	0	1850	188.89	0.880	47653	<i>1.175</i>	0	0	4
	193.22	52781	1	1	4974	140.22	0.727	34966	0.663	0	0	1

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Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	227.71	53944	2	2	4273	183.53	0.807	46416	0.861	0	0	4
	214.38	56714	1	1	3330	250.87	<i>1.169</i>	42468	0.749	0	0	2
rentacar	2.22	4	0	0	0	2.26	1.012	4	1.000	0	0	0
	2.18	2	0	0	0	2.14	0.987	2	1.000	0	0	0
	2.36	16	1	1	0	2.34	0.994	16	1.000	0	0	0
	2.20	14	1	1	0	2.24	1.012	14	1.000	0	0	0
rgn	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
rlp1	limit	31721997	0	0	88574	limit	1.000	31516821	0.994	0	0	0
	limit	32287071	0	0	199633	limit	1.000	32238909	0.999	0	0	0
	limit	25125732	0	0	38722	limit	1.000	25087758	0.998	0	0	0
	limit	35299868	0	0	141520	limit	1.000	35060214	0.993	0	0	0
rmatr100-p10	157.16	820	0	1	16	156.21	0.994	820	1.000	0	0	0
	167.23	807	2	2	19	166.10	0.993	807	1.000	0	0	0
	158.15	846	1	1	6	158.33	1.001	846	1.000	0	0	0
	169.70	852	2	2	11	168.63	0.994	852	1.000	0	0	0
rmatr100-p5	277.83	365	0	0	3	282.62	1.017	365	1.000	0	0	0
	285.10	409	0	0	4	315.14	<i>1.105</i>	487	<i>1.153</i>	0	0	0
	265.27	449	0	0	4	266.07	1.003	449	1.000	0	0	0
	286.80	405	0	0	3	281.08	0.980	405	1.000	0	0	0
rmine6	790.99	76215	0	0	251	960.92	<i>1.215</i>	106821	<i>1.401</i>	1	1	593
	807.84	60737	0	0	329	772.12	0.956	73431	<i>1.209</i>	0	0	0
	1048.96	121375	0	0	754	966.67	0.922	102970	0.848	2	2	733
	848.93	101031	0	0	584	859.03	1.012	89687	0.888	1	1	536
rocII-4-11	1352.53	4087	3	3	867	1538.22	<i>1.137</i>	10075	<i>2.430</i>	0	0	0
	1250.67	4222	5	5	1286	1280.96	1.024	7351	<i>1.724</i>	0	0	0
	1658.29	7462	3	3	1479	1492.59	0.900	9528	<i>1.273</i>	0	0	0
	1763.62	13470	3	2	2493	1482.29	0.841	4070	0.307	0	0	0
rococoC10-001000	1652.90	153256	0	0	240	1086.81	0.658	63391	0.414	0	0	55
	1047.00	75594	0	0	386	690.72	0.660	46888	0.621	0	0	114
	427.91	29811	0	0	115	407.34	0.952	32107	<i>1.077</i>	0	0	99

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	914.09	56599	0	0	203	736.04	0.805	52061	0.920	0	0	92
roll3000	32.84	1664	0	0	11	46.33	<i>1.399</i>	2584	<i>1.522</i>	0	0	5
	64.07	4508	2	2	100	38.00	0.599	1373	0.320	0	0	7
	32.77	1440	0	0	26	45.61	<i>1.380</i>	2060	<i>1.403</i>	0	0	4
	79.96	4486	0	0	106	44.92	0.567	2708	0.612	0	0	7
rout	60.06	15767	2	2	233	77.41	<i>1.284</i>	21646	<i>1.371</i>	0	0	11
	78.59	19814	1	1	115	111.26	<i>1.410</i>	36853	<i>1.856</i>	1	1	464
	56.21	13029	1	1	210	51.41	0.916	13196	1.013	0	0	43
	61.31	13030	2	2	208	44.36	0.728	11848	0.910	0	0	101
roy	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	2	0	0	0	0.50	1.000	2	1.000	0	0	0
satellites1-25	943.35	2376	1	1	122	700.78	0.743	90	0.077	0	0	0
	740.49	817	1	1	62	779.41	<i>1.052</i>	273	0.407	2	2	87
	1237.17	2878	0	0	200	664.63	0.538	15	0.039	1	1	74
	1044.51	1159	1	1	38	964.13	0.923	817	0.728	2	2	118
set1ch	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	1	1	0
	0.50	2	0	0	0	0.50	1.000	2	1.000	53	3	0
seymour.disj-10	limit	78891	22	3	297	limit	1.000	78510	0.995	0	0	0
	limit	89879	18	2	284	limit	1.000	90466	1.007	0	0	0
	limit	96634	23	5	194	limit	1.000	96838	1.002	0	0	0
	limit	90321	12	2	204	limit	1.000	89977	0.996	0	0	0
seymour	limit	165661	15	3	474	limit	1.000	165633	1.000	0	0	0
	limit	271730	19	3	621	limit	1.000	270441	0.995	0	0	0
	limit	262802	11	2	430	limit	1.000	262187	0.998	0	0	0
	limit	229140	8	1	342	limit	1.000	229247	1.000	0	0	0
sp97ar	limit	29171	0	0	0	limit	1.000	30845	<i>1.057</i>	0	0	0
	limit	26740	0	0	0	limit	1.000	26461	0.990	0	0	0
	limit	33630	0	0	0	limit	1.000	31656	0.941	0	0	0
	limit	31991	0	0	0	limit	1.000	18966	0.594	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
sp97ic	limit	35605	0	0	85	limit	1.000	27668	0.778	0	0	0
	limit	57600	0	0	2	limit	1.000	53843	0.935	0	0	0
	limit	51639	0	0	4	limit	1.000	27616	0.536	0	0	0
	limit	26951	1	1	30	limit	1.000	31282	<i>1.160</i>	0	0	0
sp98ar	limit	2941	0	0	6	limit	1.000	3246	<i>1.100</i>	0	0	0
	limit	2717	1	1	4	limit	1.000	3529	<i>1.288</i>	0	0	0
	limit	2866	1	1	10	limit	1.000	3474	<i>1.205</i>	0	0	0
	limit	3091	1	1	16	limit	1.000	3279	<i>1.059</i>	0	0	0
sp98ic	limit	66210	0	0	0	limit	1.000	53121	0.803	0	0	0
	limit	45958	0	0	0	limit	1.000	50875	<i>1.107</i>	0	0	0
	limit	64998	0	0	0	limit	1.000	57426	0.884	0	0	0
	limit	57396	1	1	0	limit	1.000	67311	<i>1.172</i>	0	0	0
sp98ir	71.10	3218	0	0	103	81.48	<i>1.144</i>	5691	<i>1.745</i>	0	0	0
	66.48	4935	0	0	79	62.89	0.947	3820	0.779	0	0	0
	66.28	5009	0	0	110	61.61	0.931	3901	0.783	0	0	0
	55.54	4424	0	0	38	69.67	<i>1.250</i>	4134	0.936	0	0	0
stein27	0.70	1171	0	0	0	0.69	0.994	1171	1.000	0	0	0
	0.90	1785	0	0	0	0.85	0.974	1785	1.000	0	0	0
	0.50	537	0	0	0	0.50	1.000	537	1.000	0	0	0
	0.50	699	0	0	0	0.50	1.000	699	1.000	0	0	0
stein45	12.19	41379	1	0	0	12.16	0.998	41379	1.000	0	0	0
	12.49	40886	1	1	0	12.69	1.015	40886	1.000	0	0	0
	12.46	38979	0	0	0	12.49	1.002	38979	1.000	0	0	0
	12.72	41223	0	0	0	12.61	0.992	41223	1.000	0	0	0
stp3d	limit	17	0	0	0	limit	1.000	18	1.009	0	0	0
	limit	15	0	0	0	limit	1.000	14	0.991	0	0	0
	limit	18	0	0	0	limit	1.000	21	1.025	0	0	0
	limit	16	0	0	0	limit	1.000	14	0.983	0	0	0
swath	limit	508640	1	1	1265	limit	1.000	514879	1.012	0	0	0
	limit	379361	0	0	838	limit	1.000	628954	<i>1.658</i>	0	0	0
	limit	372015	0	0	966	limit	1.000	495371	<i>1.331</i>	0	0	0
	limit	372300	1	1	1330	limit	1.000	379923	1.020	0	0	0
t1717	limit	4315	3	0	957	limit	1.000	5305	<i>1.224</i>	0	0	45
	limit	5946	0	0	177	limit	1.000	5078	0.856	0	0	107

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	limit	5743	0	0	234	limit	1.000	5061	0.883	0	0	13
	limit	5698	1	0	672	limit	1.000	5389	0.947	0	0	13
tanglegram1	537.62	53	0	0	0	543.98	1.012	53	1.000	0	0	0
	748.76	117	0	0	47	754.80	1.008	117	1.000	0	0	0
	611.08	75	0	0	75	609.37	0.997	75	1.000	0	0	0
	521.08	61	0	0	59	519.79	0.998	61	1.000	0	0	0
tanglegram2	5.21	3	0	0	0	5.22	1.002	3	1.000	0	0	0
	4.97	3	0	0	0	4.97	1.000	3	1.000	0	0	0
	5.22	3	0	0	0	5.29	1.011	3	1.000	0	0	0
	5.31	3	0	0	0	5.33	1.003	3	1.000	0	0	0
timtab1	59.41	49976	2	2	175	57.79	0.973	46773	0.936	0	0	4
	40.73	30772	2	2	233	55.42	<i>1.352</i>	42284	<i>1.373</i>	0	0	16
	53.86	44702	4	4	295	57.94	<i>1.074</i>	43625	0.976	0	0	24
	46.05	39788	1	1	188	48.43	<i>1.051</i>	33893	0.852	0	0	5
timtab2	limit	3067980	0	0	511	limit	1.000	3081653	1.004	0	0	9
	limit	2748872	1	1	399	limit	1.000	3262820	<i>1.187</i>	0	0	8
	limit	3889940	3	0	476	limit	1.000	3122712	0.803	0	0	31
	limit	2816185	1	2	427	limit	1.000	3174571	<i>1.127</i>	0	0	4
tr12-30	795.56	520717	2	2	317	496.93	0.625	318400	0.612	0	0	10
	699.66	462981	0	2	417	499.26	0.714	325872	0.704	0	0	7
	987.48	595373	0	2	93	852.11	0.863	549538	0.923	0	0	12
	553.48	309327	0	0	99	599.30	<i>1.083</i>	344531	<i>1.114</i>	0	0	0
triptim1	1261.60	7	0	0	0	878.99	0.697	4	0.972	2	2	2
	687.77	8	0	0	0	838.17	<i>1.218</i>	11	1.028	0	0	0
	481.44	4	0	0	0	666.87	<i>1.384</i>	6	1.019	0	0	0
	881.96	41	0	0	0	253.87	0.289	1	0.716	1	1	0
unitcal_7	284.42	155	0	0	0	252.30	0.887	9	0.427	2	2	199
	374.73	356	0	0	0	254.69	0.681	9	0.239	3	3	1724
	410.88	377	1	1	8	325.55	0.793	87	0.392	1	1	209
	378.52	572	0	0	6	379.55	1.003	198	0.443	1	1	230
vpm1	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0

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Table 1: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `farkdiving` and the virtual best diving heuristic (\mathbf{F}_{virt} , \mathbf{I}_{virt} , \mathbf{C}_{virt}). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default					farkdiving						
	T	N	\mathbf{F}_{virt}	\mathbf{I}_{virt}	\mathbf{C}_{virt}	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	I	C
	0.50	1	0	0	0	0.50	1.000	1	1.000	0	0	0
vpm2	2.44	264	0	0	0	3.07	<i>1.183</i>	289	<i>1.069</i>	0	0	38
	2.22	257	0	0	6	2.53	<i>1.096</i>	360	<i>1.289</i>	0	0	24
	1.53	230	0	0	0	2.46	<i>1.368</i>	115	0.652	0	0	21
	2.36	233	0	0	11	2.27	0.973	254	<i>1.063</i>	0	0	12
vpphard	limit	2069	0	2	4489	limit	1.000	2209	<i>1.065</i>	0	0	0
	limit	2501	1	1	6040	limit	1.000	4378	<i>1.722</i>	0	0	0
	limit	5184	1	1	13377	limit	1.000	7018	<i>1.347</i>	0	0	0
	limit	7485	2	5	5348	limit	1.000	3271	0.444	0	0	0
zib54-UUE	1705.36	76321	14	13	35	1559.33	0.914	57764	0.757	71	15	34
	1200.19	46323	12	9	24	1242.27	1.035	59899	<i>1.292</i>	52	11	46
	1894.37	74518	27	14	31	2275.42	<i>1.201</i>	88909	<i>1.193</i>	82	12	53
	1630.16	88765	11	2	33	1303.98	0.800	61000	0.688	47	12	37

Table 2: Detailed computational results on the subset 'afterroot' of MMMC with up to four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default		farkdiving				farkdiving-noconfs				farkdiving-nosols			
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q
Test3	4.23	2	4.34	1.021	2	1.000	4.29	1.011	2	1.000	4.34	1.021	2	1.000
beasleyC3	45.85	378	41.76	0.913	352	0.946	44.44	0.970	341	0.923	45.49	0.992	438	<i>1.126</i>
	54.14	515	25.94	0.489	2	0.166	39.68	0.738	38	0.224	24.93	0.470	2	0.166
	44.79	170	21.82	0.498	2	0.378	47.06	1.050	441	<i>2.004</i>	26.61	0.603	4	0.385
	16.53	2	19.37	<i>1.162</i>	2	1.000	19.78	<i>1.185</i>	2	1.000	19.24	<i>1.155</i>	2	1.000
bell3a	0.70	2445	1.33	<i>1.371</i>	4756	<i>1.908</i>	1.16	<i>1.271</i>	4553	<i>1.828</i>	1.44	<i>1.435</i>	4756	<i>1.908</i>
	0.62	2184	1.52	<i>1.556</i>	5762	<i>2.567</i>	1.42	<i>1.494</i>	5890	<i>2.623</i>	1.57	<i>1.586</i>	5762	<i>2.567</i>
	0.83	3116	1.65	<i>1.448</i>	5707	<i>1.806</i>	1.27	<i>1.240</i>	4673	<i>1.484</i>	1.63	<i>1.437</i>	5707	<i>1.806</i>
	0.81	2720	1.67	<i>1.475</i>	5731	<i>2.068</i>	1.44	<i>1.348</i>	5784	<i>2.087</i>	1.63	<i>1.453</i>	5731	<i>2.068</i>
bell5	0.50	444	0.50	1.000	277	0.693	0.50	1.000	258	0.658	0.50	1.000	379	0.881
	0.50	339	0.50	1.000	395	<i>1.128</i>	0.50	1.000	399	<i>1.137</i>	0.50	1.000	395	<i>1.128</i>
	0.50	196	0.50	1.000	291	<i>1.321</i>	0.50	1.000	292	<i>1.324</i>	0.50	1.000	197	1.003
	0.50	451	0.50	1.000	126	0.410	0.50	1.000	619	<i>1.305</i>	0.50	1.000	406	0.918
binkar10.1	25.43	2435	21.85	0.865	1867	0.776	26.55	1.042	1981	0.821	22.08	0.873	1818	0.757
	37.03	2686	41.13	<i>1.108</i>	3693	<i>1.361</i>	31.27	0.849	2880	<i>1.070</i>	21.12	0.582	2020	0.761
	21.76	1927	34.29	<i>1.551</i>	2654	<i>1.359</i>	25.46	<i>1.163</i>	2580	<i>1.322</i>	19.53	0.902	1687	0.882
	35.34	4380	33.82	0.958	3972	0.909	29.06	0.827	3130	0.721	33.52	0.950	3220	0.741
blend2	0.91	832	1.21	<i>1.157</i>	1026	<i>1.208</i>	1.23	<i>1.168</i>	1035	<i>1.218</i>	0.74	0.911	707	0.866
bley_xl1	164.90	1	167.76	1.017	2	1.010	169.01	1.025	2	1.010	169.03	1.025	2	1.010
	194.10	28	195.60	1.008	42	<i>1.109</i>	196.30	1.011	42	<i>1.109</i>	197.23	1.016	38	<i>1.078</i>
cap6000	2.87	1978	3.39	<i>1.134</i>	2014	1.017	3.24	<i>1.096</i>	1856	0.941	2.84	0.992	1878	0.952
	2.65	1668	3.66	<i>1.277</i>	2486	<i>1.463</i>	3.43	<i>1.214</i>	2559	<i>1.504</i>	3.58	<i>1.255</i>	2486	<i>1.463</i>
	3.10	2113	3.66	<i>1.137</i>	2205	1.042	3.47	<i>1.090</i>	2451	<i>1.153</i>	3.61	<i>1.124</i>	2205	1.042
	3.18	2086	3.09	0.978	1646	0.799	3.34	1.038	2406	<i>1.146</i>	2.97	0.950	1646	0.799
	2.22	82	1.51	0.780	118	<i>1.198</i>	1.65	0.823	165	<i>1.456</i>	1.61	0.811	123	<i>1.225</i>
dfn-gwin-UUM	143.10	39424	89.58	0.629	21399	0.544	83.77	0.588	18236	0.464	90.41	0.634	21173	0.538
	96.16	24607	82.05	0.855	19496	0.793	80.24	0.836	19471	0.792	88.05	0.917	21407	0.870
	121.80	32723	127.31	1.045	34489	<i>1.054</i>	118.51	0.973	29139	0.891	146.92	<i>1.205</i>	37590	<i>1.148</i>
	96.94	23175	96.34	0.994	25789	<i>1.112</i>	85.15	0.880	22857	0.986	90.80	0.937	22316	0.963
eil33-2	76.61	653	62.38	0.817	603	0.934	62.94	0.824	603	0.934	82.25	<i>1.073</i>	693	<i>1.053</i>
	66.79	665	81.77	<i>1.221</i>	741	<i>1.099</i>	82.57	<i>1.233</i>	741	<i>1.099</i>	81.16	<i>1.212</i>	653	0.984
	75.19	677	64.87	0.865	517	0.794	64.51	0.860	517	0.794	67.98	0.905	651	0.967
	80.46	629	63.02	0.786	603	0.964	63.06	0.786	603	0.964	72.40	0.901	681	<i>1.071</i>

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Table 2: Detailed computational results on the subset 'afterroot' of MMMC with up to four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default		farkdiving				farkdiving-noconfs				farkdiving-nosols			
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q
eilB101	466.60	13787	327.23	0.702	9255	0.674	331.11	0.710	9255	0.674	272.58	0.585	7230	0.528
	432.96	10965	461.51	<i>1.066</i>	12556	<i>1.144</i>	481.58	<i>1.112</i>	13684	<i>1.246</i>	475.42	<i>1.098</i>	13324	<i>1.213</i>
	375.87	10774	528.13	<i>1.404</i>	16616	<i>1.537</i>	488.50	<i>1.299</i>	14447	<i>1.338</i>	315.60	0.840	9004	0.837
	497.08	15515	343.99	0.693	10412	0.673	340.19	0.685	10412	0.673	311.10	0.627	8388	0.544
fast0507	268.91	1067	148.86	0.555	726	0.708	149.90	0.559	730	0.711	125.86	0.470	605	0.604
	168.78	667	166.87	0.989	839	<i>1.224</i>	166.75	0.988	839	<i>1.224</i>	159.20	0.944	803	<i>1.177</i>
	160.64	737	136.65	0.852	618	0.858	136.80	0.853	622	0.863	146.03	0.910	682	0.934
	192.30	930	221.89	<i>1.153</i>	1065	<i>1.131</i>	218.64	<i>1.136</i>	1065	<i>1.131</i>	148.91	0.776	739	0.815
fixnet6	4.48	3	5.31	<i>1.151</i>	4	1.010	4.81	<i>1.060</i>	3	1.000	4.78	<i>1.055</i>	3	1.000
	5.82	4	5.26	0.918	3	0.990	5.10	0.894	4	1.000	5.16	0.903	3	0.990
	6.18	4	4.83	0.812	3	0.990	4.93	0.826	3	0.990	4.79	0.806	3	0.990
	4.55	3	4.61	1.011	2	0.990	4.55	1.000	2	0.990	4.57	1.004	2	0.990
gesa2-o	0.50	2	0.60	<i>1.067</i>	1	0.990	0.60	<i>1.067</i>	2	1.000	0.57	1.047	1	0.990
	0.59	2	0.71	<i>1.075</i>	2	1.000	0.72	<i>1.082</i>	2	1.000	0.68	<i>1.057</i>	2	1.000
gesa2	0.50	2	0.50	1.000	2	1.000	0.51	1.007	2	1.000	0.50	1.000	2	1.000
	0.50	2	0.53	1.020	2	1.000	0.55	1.033	2	1.000	0.55	1.033	2	1.000
gesa3	6.82	10	5.53	0.835	7	0.973	7.44	<i>1.079</i>	8	0.982	5.33	0.809	6	0.964
	5.48	7	5.72	1.037	6	0.991	7.29	<i>1.279</i>	12	1.047	5.57	1.014	7	1.000
	5.03	6	9.86	<i>1.801</i>	8	1.019	8.00	<i>1.493</i>	7	1.009	9.05	<i>1.667</i>	10	1.038
	2.19	6	3.33	<i>1.357</i>	5	0.991	2.28	1.028	6	1.000	3.34	<i>1.361</i>	7	1.009
lectsched-4-obj	60.50	857	29.41	0.494	973	<i>1.121</i>	24.61	0.416	2216	<i>2.420</i>	18.64	0.319	476	0.602
	39.21	2136	65.62	<i>1.657</i>	7311	<i>3.314</i>	39.34	1.003	2494	<i>1.160</i>	70.17	<i>1.770</i>	11582	<i>5.225</i>
mik-250-1-100-1	64.83	22968	52.86	0.818	21582	0.940	64.87	1.001	24170	<i>1.052</i>	54.43	0.842	21978	0.957
	38.86	15147	39.91	1.026	16857	<i>1.112</i>	45.35	<i>1.163</i>	16188	<i>1.068</i>	39.39	1.013	16991	<i>1.121</i>
	66.98	23266	45.03	0.677	17607	0.758	50.33	0.755	17437	0.751	43.44	0.654	17143	0.738
	100.62	34844	40.55	0.409	13152	0.379	38.73	0.391	12525	0.361	38.83	0.392	12593	0.363
mine-166-5	61.37	276	57.26	0.934	2077	<i>5.790</i>	57.65	0.940	1191	<i>3.434</i>	52.40	0.856	1157	<i>3.343</i>
	66.58	2802	68.70	1.031	147	0.085	52.44	0.791	984	0.374	61.02	0.918	1545	0.567
	46.54	2538	58.00	<i>1.241</i>	2207	0.875	54.72	<i>1.172</i>	1598	0.644	42.25	0.910	1517	0.613
	48.36	1615	50.99	<i>1.053</i>	1461	0.910	51.35	<i>1.061</i>	1069	0.682	52.05	<i>1.075</i>	3219	<i>1.935</i>
mine-90-10	397.37	38513	228.35	0.576	26592	0.691	177.19	0.447	22246	0.579	116.26	0.294	19667	0.512
	180.22	25651	203.20	<i>1.127</i>	32629	<i>1.271</i>	398.33	<i>2.204</i>	56082	<i>2.182</i>	382.80	<i>2.118</i>	42696	<i>1.662</i>
	342.60	47767	168.55	0.493	23014	0.483	372.99	<i>1.088</i>	46179	0.967	187.62	0.549	30862	0.647

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Instance	default		farkdiving				farkdiving-noconfs				farkdiving-nosols			
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q
	691.71	76187	261.14	0.378	34052	0.448	206.78	0.300	31780	0.418	213.86	0.310	30679	0.403
misc03	0.78	23	0.83	1.028	20	0.976	0.78	1.000	20	0.976	0.80	1.011	25	1.016
	0.60	29	0.66	1.038	29	1.000	0.69	<i>1.056</i>	33	1.031	0.73	<i>1.081</i>	31	1.016
misc06	0.50	3	0.55	1.033	3	1.000	0.50	1.000	3	1.000	0.53	1.020	3	1.000
	0.54	3	0.57	1.019	3	1.000	0.63	<i>1.058</i>	3	1.000	0.57	1.019	3	1.000
	0.50	3	0.53	1.020	3	1.000	0.50	1.000	3	1.000	0.52	1.013	3	1.000
	0.50	3	0.50	1.000	3	1.000	0.50	1.000	3	1.000	0.50	1.000	3	1.000
mkc1	8.84	5035	6.69	0.782	2116	0.432	6.70	0.783	2116	0.432	5.31	0.641	1411	0.294
	limit	2126006	126.57	0.018	18349	0.009	350.37	0.049	70484	0.033	1799.73	0.250	537277	0.253
mod010	89.67	12288	41.04	0.464	2868	0.240	3182.74	<i>35.113</i>	882187	<i>71.221</i>	52.33	0.588	4163	0.344
	0.50	2	0.50	1.000	2	1.000	0.50	1.000	2	1.000	0.50	1.000	2	1.000
	0.50	2	0.50	1.000	2	1.000	0.50	1.000	2	1.000	0.50	1.000	2	1.000
	0.50	2	0.54	1.027	3	1.010	0.53	1.020	3	1.010	0.54	1.027	3	1.010
modglob	0.60	2	0.50	0.938	2	1.000	0.50	0.938	2	1.000	0.60	1.000	2	1.000
	0.50	2	0.50	1.000	2	1.000	0.50	1.000	2	1.000	0.50	1.000	2	1.000
mzzv42z	0.50	2	0.50	1.000	2	1.000	0.50	1.000	2	1.000	0.50	1.000	2	1.000
	130.46	174	175.77	<i>1.345</i>	321	<i>1.536</i>	158.90	<i>1.216</i>	250	<i>1.277</i>	183.64	<i>1.405</i>	439	<i>1.967</i>
	170.99	309	138.30	0.810	251	0.858	156.25	0.914	243	0.839	160.41	0.938	275	0.917
n4-3	154.50	214	159.45	1.032	285	<i>1.226</i>	149.82	0.970	187	0.914	208.21	<i>1.345</i>	323	<i>1.347</i>
	180.34	2929	215.22	<i>1.192</i>	3479	<i>1.182</i>	200.37	<i>1.110</i>	2917	0.996	192.73	<i>1.068</i>	3089	<i>1.053</i>
	230.02	2886	165.48	0.721	2039	0.716	186.03	0.810	2383	0.832	180.31	0.785	2265	0.792
	191.70	2706	223.04	<i>1.163</i>	3166	<i>1.164</i>	231.25	<i>1.205</i>	3361	<i>1.233</i>	205.60	<i>1.072</i>	2662	0.984
neos-1061020	212.68	3225	235.73	<i>1.108</i>	3427	<i>1.061</i>	187.65	0.883	2346	0.736	286.30	<i>1.345</i>	4559	<i>1.401</i>
	311.42	1553	181.94	0.586	935	0.626	184.22	0.593	935	0.626	319.25	1.025	1229	0.804
	332.57	1699	370.39	<i>1.113</i>	1957	<i>1.143</i>	376.76	<i>1.132</i>	1957	<i>1.143</i>	177.77	0.536	646	0.415
neos-1109824	226.36	835	205.68	0.909	956	<i>1.129</i>	208.04	0.919	956	<i>1.129</i>	186.81	0.826	765	0.925
	13.43	114	16.35	<i>1.202</i>	202	<i>1.411</i>	16.37	<i>1.204</i>	202	<i>1.411</i>	13.67	1.017	115	1.005
neos-1120495	5.60	21	27.62	<i>4.336</i>	24	1.025	27.52	<i>4.321</i>	24	1.025	5.25	0.947	15	0.950
	8.07	16	8.23	1.018	13	0.974	8.21	1.015	13	0.974	19.21	<i>2.228</i>	22	<i>1.052</i>
	4.36	3	6.72	<i>1.440</i>	12	<i>1.087</i>	6.78	<i>1.451</i>	8	1.049	4.37	1.002	7	1.039
	5.03	28	5.61	<i>1.096</i>	26	0.984	5.66	<i>1.104</i>	26	0.984	7.00	<i>1.327</i>	39	<i>1.086</i>
neos-1420205	3.41	4297	5.10	<i>1.383</i>	8283	<i>1.907</i>	5.69	<i>1.517</i>	9561	<i>2.197</i>	5.08	<i>1.379</i>	8283	<i>1.907</i>

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Instance	default		farkdiving				farkdiving-noconfs				farkdiving-nosols			
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q
	3.73	4342	4.47	<i>1.156</i>	7565	<i>1.726</i>	4.04	<i>1.066</i>	8141	<i>1.855</i>	4.48	<i>1.159</i>	7565	<i>1.726</i>
	5.26	8626	1.83	0.452	1792	0.217	1.77	0.442	1792	0.217	1.75	0.439	1792	0.217
	3.07	3874	4.08	<i>1.248</i>	8118	<i>2.068</i>	4.58	<i>1.371</i>	9215	<i>2.344</i>	4.22	<i>1.283</i>	8118	<i>2.068</i>
neos-1445743	45.92	3	48.08	1.046	3	1.000	48.13	1.047	3	1.000	45.42	0.989	3	1.000
	45.04	3	45.52	1.010	3	1.000	45.31	1.006	3	1.000	45.43	1.008	3	1.000
neos-1445755	51.90	3	55.01	<i>1.059</i>	4	1.010	53.27	1.026	4	1.010	52.11	1.004	3	1.000
	48.79	3	49.18	1.008	3	1.000	51.56	<i>1.056</i>	3	1.000	48.17	0.988	3	1.000
	49.54	3	52.48	<i>1.058</i>	4	1.010	52.42	<i>1.057</i>	4	1.010	51.85	1.046	4	1.010
	57.24	4	56.88	0.994	4	1.000	55.93	0.978	4	1.000	58.94	1.029	4	1.000
neos-1445765	56.44	86	53.30	0.945	71	0.919	53.54	0.950	71	0.919	54.34	0.963	71	0.919
	68.91	3	74.04	<i>1.073</i>	5	1.019	76.63	<i>1.110</i>	5	1.019	78.52	<i>1.137</i>	6	1.029
	81.97	7	79.17	0.966	6	0.991	78.44	0.957	6	0.991	78.42	0.957	7	1.000
	55.31	91	56.40	1.019	100	1.047	56.24	1.017	100	1.047	56.71	1.025	100	1.047
neos-1489999	2.88	30	2.90	1.005	31	1.008	2.84	0.990	31	1.008	2.87	0.997	28	0.985
	2.59	23	2.80	<i>1.058</i>	25	1.016	2.78	<i>1.053</i>	25	1.016	2.83	<i>1.067</i>	21	0.984
	2.53	31	2.75	<i>1.062</i>	28	0.977	2.76	<i>1.065</i>	28	0.977	2.52	0.997	29	0.985
	2.90	26	3.06	1.041	28	1.016	2.99	1.023	28	1.016	2.99	1.023	26	1.000
neos-494568	19.68	6	17.64	0.901	7	1.009	17.49	0.894	7	1.009	16.75	0.858	6	1.000
	19.73	6	21.19	<i>1.070</i>	6	1.000	20.03	1.014	6	1.000	28.83	<i>1.439</i>	18	<i>1.113</i>
	15.52	6	21.26	<i>1.347</i>	6	1.000	21.24	<i>1.346</i>	6	1.000	22.43	<i>1.418</i>	6	1.000
neos-498623	24.80	6	26.82	<i>1.078</i>	6	1.000	26.94	<i>1.083</i>	6	1.000	21.13	0.858	6	1.000
	24.84	6	29.26	<i>1.171</i>	6	1.000	23.34	0.942	6	1.000	32.37	<i>1.291</i>	6	1.000
	45.64	21	30.51	0.676	6	0.876	30.90	0.684	7	0.884	71.18	<i>1.548</i>	176	<i>2.281</i>
neos-504815	19.49	2922	14.90	0.776	2177	0.753	14.93	0.777	2177	0.753	16.69	0.863	3034	1.037
	15.86	2964	15.88	1.001	2701	0.914	15.54	0.981	2543	0.863	15.16	0.958	2472	0.839
	17.44	3753	13.30	0.775	1561	0.431	13.64	0.794	1559	0.431	13.20	0.770	1561	0.431
	18.01	3466	15.87	0.887	2698	0.785	15.63	0.875	2613	0.761	16.74	0.933	2800	0.813
neos-522351	1.23	2	1.55	<i>1.143</i>	2	1.000	1.57	<i>1.152</i>	2	1.000	1.55	<i>1.143</i>	2	1.000
	2.54	2	2.12	0.881	1	0.990	2.16	0.893	1	0.990	5.49	<i>1.833</i>	21	<i>1.186</i>
neos-538867	68.04	23809	58.50	0.862	23137	0.972	53.98	0.796	21501	0.903	101.51	<i>1.485</i>	37172	<i>1.559</i>
	54.31	27978	64.90	<i>1.191</i>	31065	<i>1.110</i>	71.00	<i>1.302</i>	31536	<i>1.127</i>	53.61	0.987	25068	0.896
	100.49	33245	49.22	0.495	22694	0.684	51.52	0.517	22220	0.669	57.33	0.575	31366	0.944
	39.98	8110	35.66	0.895	5392	0.669	36.09	0.905	5475	0.679	27.91	0.705	3712	0.464

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Instance	default		farkdiving				farkdiving-noconfs				farkdiving-nosols			
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q
neos-555298	58.31	1100	53.14	0.913	655	0.629	52.54	0.903	682	0.652	53.14	0.913	655	0.629
	56.61	1014	51.74	0.915	685	0.705	52.63	0.931	581	0.611	67.39	<i>1.187</i>	1540	<i>1.472</i>
	45.83	582	38.27	0.839	299	0.585	66.00	<i>1.431</i>	2907	<i>4.409</i>	72.72	<i>1.574</i>	1450	<i>2.273</i>
	56.29	1091	60.88	<i>1.080</i>	638	0.620	52.32	0.931	628	0.611	47.70	0.850	468	0.477
neos-555343	262.55	13175	571.14	<i>2.171</i>	49279	<i>3.720</i>	limit	<i>27.323</i>	1858894	<i>140.037</i>	limit	<i>27.323</i>	989821	<i>74.570</i>
	limit	1098062	3912.80	0.544	303934	0.277	limit	1.000	277050	0.252	2034.76	0.283	357426	0.326
neos-555424	1948.51	433289	1107.60	0.569	96804	0.224	limit	<i>3.694</i>	1027293	<i>2.371</i>	3971.19	<i>2.038</i>	479281	<i>1.106</i>
	384.78	52136	84.69	0.222	3738	0.073	943.80	<i>2.449</i>	157763	<i>3.022</i>	359.52	0.935	57451	<i>1.102</i>
	441.68	60699	192.18	0.436	20100	0.332	164.67	0.374	16489	0.273	282.13	0.640	35648	0.588
	786.56	155876	6470.56	<i>8.217</i>	929190	<i>5.958</i>	limit	<i>9.143</i>	1191363	<i>7.639</i>	limit	<i>9.143</i>	1050562	<i>6.736</i>
neos-555694	8.26	21	3.29	0.463	2	0.843	3.05	0.437	3	0.851	3.71	0.509	4	0.860
	3.10	6	2.83	0.934	3	0.972	2.40	0.829	2	0.962	3.80	<i>1.171</i>	6	1.000
	3.37	6	3.88	<i>1.117</i>	6	1.000	3.87	<i>1.114</i>	6	1.000	3.87	<i>1.114</i>	6	1.000
neos-555771	2.74	6	3.21	<i>1.126</i>	7	1.009	3.18	<i>1.118</i>	7	1.009	4.94	<i>1.588</i>	16	<i>1.094</i>
	7.89	41	3.02	0.452	3	0.730	3.04	0.454	3	0.730	3.66	0.524	7	0.759
	2.33	6	2.01	0.904	2	0.962	2.00	0.901	2	0.962	2.42	1.027	3	0.972
	2.27	6	1.00	0.612	1	0.953	0.98	0.606	1	0.953	3.11	<i>1.257</i>	7	1.009
neos-595905	1.34	2	1.39	1.021	2	1.000	1.34	1.000	1	0.990	1.39	1.021	2	1.000
neos-603073	146.92	37727	57.64	0.396	6238	0.168	limit	<i>48.682</i>	2716184	<i>71.808</i>	250.26	<i>1.699</i>	49010	<i>1.298</i>
	6383.98	2173680	34.69	0.006	3876	0.002	83.95	0.013	12125	0.006	390.57	0.061	112493	0.052
	171.47	32941	201.97	<i>1.177</i>	35671	<i>1.083</i>	40.53	0.241	4270	0.132	1295.84	<i>7.519</i>	471155	<i>14.263</i>
neos-611838	26.61	282	28.00	<i>1.050</i>	292	1.026	27.70	1.039	292	1.026	27.64	1.037	292	1.026
	29.33	319	28.23	0.964	226	0.778	27.87	0.952	226	0.778	28.03	0.957	226	0.778
	25.72	272	25.04	0.975	197	0.798	24.77	0.964	197	0.798	24.87	0.968	197	0.798
	28.96	210	28.85	0.996	204	0.981	28.50	0.985	204	0.981	28.62	0.989	204	0.981
neos-612125	19.94	45	19.65	0.986	76	<i>1.214</i>	19.50	0.979	76	<i>1.214</i>	19.51	0.979	76	<i>1.214</i>
	23.16	154	20.96	0.909	62	0.638	20.82	0.903	62	0.638	20.84	0.904	62	0.638
	24.09	175	19.53	0.818	38	0.502	19.37	0.812	38	0.502	19.34	0.811	38	0.502
	21.59	161	26.58	<i>1.221</i>	23	0.471	26.33	<i>1.210</i>	23	0.471	26.30	<i>1.208</i>	23	0.471
neos-612143	27.24	203	26.58	0.977	216	1.043	26.28	0.966	216	1.043	26.36	0.969	216	1.043
	24.71	177	23.09	0.937	116	0.780	22.98	0.933	116	0.780	22.92	0.930	116	0.780
	32.28	170	28.07	0.873	138	0.881	27.57	0.858	138	0.881	27.74	0.864	138	0.881
	29.60	302	26.88	0.911	242	0.851	26.53	0.900	242	0.851	26.60	0.902	242	0.851

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Table 2: Detailed computational results on the subset 'afterroot' of MMMC with up to four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default		farkdiving				farkdiving-noconfs				farkdiving-nosols			
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q
neos-612162	25.00	197	23.93	0.959	173	0.919	23.58	0.945	173	0.919	23.44	0.940	173	0.919
	27.35	184	26.99	0.987	181	0.989	26.73	0.978	181	0.989	26.74	0.978	181	0.989
	21.42	219	21.04	0.983	189	0.906	20.74	0.970	189	0.906	20.69	0.967	189	0.906
	25.63	265	24.73	0.966	224	0.888	24.52	0.958	224	0.888	24.59	0.961	224	0.888
neos-662469	limit	79015	6607.85	0.918	54861	0.695	limit	1.000	75593	0.957	limit	1.000	83676	<i>1.059</i>
neos-775946	7.03	4	7.09	1.007	3	0.990	7.14	1.014	3	0.990	6.38	0.919	3	0.990
	9.01	3	8.24	0.923	3	1.000	8.19	0.918	3	1.000	7.95	0.894	7	1.039
	7.08	4	7.58	<i>1.062</i>	5	1.010	7.04	0.995	3	0.990	10.95	<i>1.479</i>	46	<i>1.404</i>
neos-780889	284.39	2	169.55	0.598	1	0.990	170.61	0.601	1	0.990	253.71	0.892	2	1.000
	185.19	864703	0.50	0.008	2	0.000	0.50	0.008	3	0.000	2.38	0.018	9426	0.011
	183.39	843360	0.50	0.008	2	0.000	0.50	0.008	2	0.000	10.36	0.062	43924	0.052
	0.50	2	0.50	1.000	3	1.010	0.50	1.000	3	1.010	0.50	1.000	3	1.010
	181.16	848510	0.50	0.008	2	0.000	0.50	0.008	2	0.000	19.85	0.114	84136	0.099
neos-807639	16.15	2595	17.09	<i>1.055</i>	2767	<i>1.064</i>	16.81	1.038	2789	<i>1.072</i>	15.83	0.981	2695	1.037
	15.63	2501	16.45	1.049	2393	0.958	14.92	0.957	2415	0.967	15.68	1.003	2518	1.007
neos-807705	26.69	3259	27.95	1.046	3928	<i>1.199</i>	28.02	1.048	3229	0.991	26.01	0.975	3131	0.962
	26.27	3762	28.09	<i>1.067</i>	3967	<i>1.053</i>	26.81	1.020	3563	0.948	23.31	0.891	3171	0.847
	27.09	3708	26.36	0.974	2998	0.814	26.06	0.963	3338	0.903	25.11	0.930	3267	0.884
neos-808072	16.06	59	17.63	<i>1.092</i>	40	0.881	17.18	<i>1.066</i>	40	0.881	15.90	0.991	12	0.704
neos-810326	50.31	1196	26.89	0.544	527	0.484	26.74	0.541	527	0.484	51.62	1.026	1407	<i>1.163</i>
	15.01	177	49.06	<i>3.127</i>	1095	<i>4.314</i>	48.91	<i>3.117</i>	1109	<i>4.365</i>	39.16	<i>2.508</i>	934	<i>3.733</i>
	35.82	851	88.79	<i>2.439</i>	1956	<i>2.162</i>	61.62	<i>1.701</i>	1246	<i>1.415</i>	55.92	<i>1.546</i>	1733	<i>1.927</i>
neos-825075	1.81	7	2.07	<i>1.093</i>	11	1.037	2.06	<i>1.089</i>	11	1.037	1.88	1.025	4	0.972
	1.77	5	2.31	<i>1.195</i>	2	0.971	2.30	<i>1.191</i>	2	0.971	1.69	0.971	3	0.981
	2.02	6	1.69	0.891	2	0.962	1.68	0.887	2	0.962	1.68	0.887	2	0.962
neos-841664	2990.72	45747	limit	<i>2.407</i>	76827	<i>1.678</i>	limit	<i>2.407</i>	27197	0.595	limit	<i>2.407</i>	32883	0.719
neos-850681	6.34	6	2.74	0.510	1	0.953	2.80	0.518	1	0.953	6.02	0.956	5	0.991
	6.52	6	7.25	<i>1.097</i>	2	0.962	7.28	<i>1.101</i>	2	0.962	8.57	<i>1.273</i>	6	1.000
	5.38	6	2.87	0.607	1	0.953	2.92	0.614	1	0.953	7.36	<i>1.310</i>	6	1.000
	9.33	7	2.53	0.342	1	0.944	2.56	0.345	1	0.944	6.51	0.727	6	0.991
neos-860300	15.23	2	19.11	<i>1.239</i>	2	1.000	18.92	<i>1.227</i>	2	1.000	18.99	<i>1.232</i>	2	1.000
	18.03	3	19.25	<i>1.064</i>	3	1.000	19.43	<i>1.074</i>	3	1.000	19.42	<i>1.073</i>	3	1.000

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Table 2: Detailed computational results on the subset 'afterroot' of MMMC with up to four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default		farkdiving				farkdiving-noconfs				farkdiving-nosols			
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q
	16.37	209	18.14	<i>1.102</i>	324	<i>1.372</i>	18.25	<i>1.108</i>	324	<i>1.372</i>	18.35	<i>1.114</i>	324	<i>1.372</i>
	12.01	4	12.58	1.044	4	1.000	12.90	<i>1.068</i>	5	1.010	9.99	0.845	4	1.000
neos-863472	48.06	42426	53.57	<i>1.112</i>	46819	<i>1.103</i>	49.19	1.023	41341	0.974	51.84	<i>1.077</i>	44510	1.049
	25.65	12053	45.27	<i>1.736</i>	31016	<i>2.560</i>	28.06	<i>1.090</i>	13141	<i>1.090</i>	34.44	<i>1.330</i>	23781	<i>1.965</i>
	34.66	23405	22.43	0.657	9438	0.406	38.67	<i>1.112</i>	28395	<i>1.212</i>	45.34	<i>1.299</i>	30347	<i>1.295</i>
neos-934531	69.55	1	107.16	<i>1.533</i>	3	1.020	107.50	<i>1.538</i>	4	1.030	121.38	<i>1.735</i>	5	1.040
	14.46	17654	11.99	0.840	15909	0.902	14.00	0.970	18984	<i>1.075</i>	46.80	<i>3.092</i>	122280	<i>6.893</i>
	12.23	17102	22.77	<i>1.797</i>	32370	<i>1.888</i>	14.79	<i>1.193</i>	16292	0.953	43.28	<i>3.347</i>	84887	<i>4.941</i>
	6.66	3797	24.57	<i>3.338</i>	43400	<i>11.162</i>	26.46	<i>3.585</i>	51583	<i>13.262</i>	17.27	<i>2.385</i>	29020	<i>7.472</i>
neos-957323	105.49	3	153.13	<i>1.447</i>	5	1.019	150.97	<i>1.427</i>	5	1.019	125.52	<i>1.188</i>	8	1.049
	77.27	2	60.82	0.790	1	0.990	60.10	0.781	1	0.990	59.33	0.771	2	1.000
nug08	124.94	3	187.38	<i>1.496</i>	2	0.990	189.70	<i>1.514</i>	2	0.990	127.64	1.021	3	1.000
	80.11	2	84.47	<i>1.054</i>	2	1.000	84.16	1.050	2	1.000	84.12	1.049	2	1.000
	179.72	4	183.85	1.023	2	0.981	182.70	1.016	2	0.981	180.12	1.002	2	0.981
	116.07	2	105.48	0.910	2	1.000	105.17	0.907	2	1.000	107.12	0.924	2	1.000
nw04	21.58	6	22.42	1.037	6	1.000	22.72	<i>1.050</i>	7	1.009	22.52	1.042	5	0.991
	23.39	6	22.82	0.977	6	1.000	21.91	0.939	5	0.991	23.30	0.996	5	0.991
	32.31	9	22.47	0.705	5	0.963	22.56	0.707	6	0.972	30.82	0.955	7	0.982
opm2-z7-s2	337.53	3782	209.34	0.621	1527	0.419	220.16	0.653	1923	0.521	223.15	0.662	1710	0.466
	216.00	1576	275.74	<i>1.275</i>	3161	<i>1.946</i>	273.50	<i>1.265</i>	3339	<i>2.052</i>	363.17	<i>1.678</i>	4211	<i>2.572</i>
	260.46	1537	267.55	1.027	2509	<i>1.594</i>	277.01	<i>1.063</i>	2846	<i>1.800</i>	277.59	<i>1.066</i>	2789	<i>1.765</i>
	260.69	2091	248.42	0.953	2470	<i>1.173</i>	263.27	1.010	3015	<i>1.422</i>	263.09	1.009	4173	<i>1.950</i>
p0201	0.50	3	0.51	1.007	5	1.019	0.51	1.007	5	1.019	0.51	1.007	5	1.019
	0.64	9	0.61	0.982	7	0.982	0.64	1.000	7	0.982	0.66	1.012	13	1.037
p2756	4.69	5	3.98	0.875	12	<i>1.067</i>	3.86	0.854	15	<i>1.095</i>	4.03	0.884	16	<i>1.105</i>
	4180.19	238659	4795.62	<i>1.147</i>	285214	<i>1.195</i>	4476.46	<i>1.071</i>	262599	<i>1.100</i>	4940.25	<i>1.182</i>	262160	<i>1.098</i>
	1165.49	236000	952.73	0.818	187700	0.795	942.62	0.809	188191	0.798	1138.65	0.977	232171	0.984
	3500.68	225680	3332.84	0.952	215437	0.955	3352.24	0.958	215437	0.955	3688.45	<i>1.054</i>	232794	1.032
	2965.44	234406	2509.26	0.846	198989	0.849	2761.66	0.931	222299	0.948	3114.85	<i>1.050</i>	240244	1.025
pg	17.58	840	18.62	<i>1.056</i>	784	0.940	17.23	0.981	755	0.910	16.97	0.967	808	0.966
	27.09	599	27.47	1.014	580	0.973	27.50	1.015	512	0.876	29.03	<i>1.069</i>	671	<i>1.103</i>
	24.34	610	26.00	<i>1.066</i>	786	<i>1.248</i>	27.57	<i>1.127</i>	628	1.025	25.59	1.049	751	<i>1.199</i>
	15.85	195	21.56	<i>1.339</i>	304	<i>1.369</i>	17.01	<i>1.069</i>	174	0.929	19.97	<i>1.245</i>	221	<i>1.088</i>

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Instance	default		farkdiving				farkdiving-noconfs				farkdiving-nosols			
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q
pp08a	1.86	282	1.51	0.878	182	0.738	1.51	0.878	227	0.856	1.60	0.909	242	0.895
	1.65	269	1.54	0.958	312	<i>1.117</i>	1.55	0.962	312	<i>1.117</i>	1.57	0.970	299	<i>1.081</i>
	1.55	164	1.27	0.890	71	0.648	1.28	0.894	60	0.606	1.37	0.929	74	0.659
	1.14	116	1.30	<i>1.075</i>	227	<i>1.514</i>	1.22	1.037	162	<i>1.213</i>	1.35	<i>1.098</i>	187	<i>1.329</i>
pp08aCUTS	2.30	329	2.19	0.967	409	<i>1.186</i>	2.34	1.012	370	<i>1.096</i>	2.17	0.961	339	1.023
	2.20	282	1.63	0.822	98	0.518	2.22	1.006	252	0.921	1.72	0.850	75	0.458
	1.96	250	2.20	<i>1.081</i>	348	<i>1.280</i>	2.26	<i>1.101</i>	348	<i>1.280</i>	2.30	<i>1.115</i>	444	<i>1.554</i>
	2.03	226	2.01	0.993	253	<i>1.083</i>	2.09	1.020	253	<i>1.083</i>	1.88	0.950	192	0.896
qnet1	4.46	29	2.14	0.575	15	0.891	2.16	0.579	15	0.891	1.25	0.412	3	0.798
	1.88	2	1.93	1.017	3	1.010	2.00	1.042	3	1.010	1.83	0.983	3	1.010
	4.10	24	2.20	0.627	7	0.863	2.23	0.633	7	0.863	4.29	1.037	16	0.935
qnet1_o	1.80	3	1.73	0.975	2	0.990	1.68	0.957	4	1.010	1.71	0.968	4	1.010
	0.90	2	3.41	<i>2.321</i>	22	<i>1.196</i>	3.54	<i>2.389</i>	24	<i>1.216</i>	1.27	<i>1.195</i>	1	0.990
	1.05	1	1.47	<i>1.205</i>	2	1.010	1.49	<i>1.215</i>	2	1.010	1.50	<i>1.220</i>	2	1.010
ran14x18.disj-8	1538.55	422669	1402.69	0.912	345694	0.818	1652.13	<i>1.074</i>	408361	0.966	1209.87	0.787	360472	0.853
	1653.43	509529	1876.99	<i>1.135</i>	535668	<i>1.051</i>	1470.52	0.889	497317	0.976	1590.51	0.962	451288	0.886
	2687.47	791360	2194.19	0.817	572880	0.724	2180.65	0.811	341276	0.431	1915.68	0.713	514968	0.651
	3072.20	511977	1994.19	0.649	527306	1.030	1910.57	0.622	528993	1.033	2091.77	0.681	511738	1.000
ran14x18_1	1140.33	339134	905.95	0.795	280572	0.827	1483.32	<i>1.301</i>	452645	<i>1.335</i>	1034.59	0.907	397884	<i>1.173</i>
	1274.74	418898	1069.31	0.839	343078	0.819	1337.75	1.049	461627	<i>1.102</i>	1129.15	0.886	367099	0.876
	1395.02	497943	1069.47	0.767	402115	0.808	1018.28	0.730	366464	0.736	1195.12	0.857	488035	0.980
	1838.22	769180	1058.92	0.576	404079	0.525	1172.44	0.638	420189	0.546	1099.20	0.598	374316	0.487
ran16x16	78.39	14539	71.11	0.908	10926	0.753	69.29	0.885	12129	0.835	73.71	0.941	12990	0.894
	78.83	15549	89.10	<i>1.129</i>	18429	<i>1.184</i>	71.35	0.906	12004	0.773	78.38	0.994	16713	<i>1.074</i>
	61.78	7934	73.04	<i>1.179</i>	11819	<i>1.484</i>	71.39	<i>1.153</i>	14566	<i>1.825</i>	54.52	0.884	7237	0.913
	75.34	11547	62.20	0.828	12123	1.049	54.48	0.727	10033	0.870	68.31	0.908	14222	<i>1.230</i>
rmine6	790.99	76215	960.92	<i>1.215</i>	106821	<i>1.401</i>	834.17	<i>1.055</i>	96163	<i>1.261</i>	597.46	0.756	75052	0.985
	1048.96	121375	966.67	0.922	102970	0.848	893.01	0.851	98039	0.808	738.72	0.705	74161	0.611
	848.93	101031	859.03	1.012	89687	0.888	815.68	0.961	92729	0.918	1003.99	<i>1.182</i>	101413	1.004
rout	78.59	19814	111.26	<i>1.410</i>	36853	<i>1.856</i>	66.75	0.851	18626	0.940	101.36	<i>1.286</i>	34535	<i>1.739</i>
	740.49	817	779.41	<i>1.052</i>	273	0.407	889.47	<i>1.201</i>	537	0.695	1057.98	<i>1.428</i>	1078	<i>1.285</i>
	1237.17	2878	664.63	0.538	15	0.039	985.14	0.796	2267	0.795	1133.98	0.917	2274	0.797
	1044.51	1159	964.13	0.923	817	0.728	941.76	0.902	2030	<i>1.692</i>	537.20	0.515	253	0.280

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Table 2: Detailed computational results on the subset 'afterroot' of MMMC with up to four random seeds. The table shows the absolute and relative numbers of solving time (\mathbf{T} , \mathbf{T}_Q) and nodes (\mathbf{N} , \mathbf{N}_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	default		farkdiving			farkdiving-noconfs				farkdiving-nosols				
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q	T	\mathbf{T}_Q	N	\mathbf{N}_Q
	0.50	2	0.50	1.000	2	1.000	0.50	1.000	2	1.000	0.50	1.000	2	1.000
triptim1	1261.60	7	878.99	0.697	4	0.972	1250.13	0.991	32	<i>1.234</i>	2511.25	<i>1.990</i>	178	<i>2.598</i>
	881.96	41	253.87	0.289	1	0.716	253.03	0.288	1	0.716	1684.67	<i>1.909</i>	78	<i>1.262</i>
unitcal_7	284.42	155	252.30	0.887	9	0.427	345.08	<i>1.213</i>	73	0.678	228.75	0.805	13	0.443
	374.73	356	254.69	0.681	9	0.239	327.60	0.875	83	0.401	220.96	0.591	6	0.232
	410.88	377	325.55	0.793	87	0.392	408.10	0.993	412	<i>1.073</i>	273.74	0.667	29	0.270
	378.52	572	379.55	1.003	198	0.443	474.13	<i>1.252</i>	426	0.783	418.37	<i>1.105</i>	356	0.679
zib54-UUE	1705.36	76321	1559.33	0.914	57764	0.757	1221.46	0.716	56944	0.746	1848.40	<i>1.084</i>	85847	<i>1.125</i>
	1200.19	46323	1242.27	1.035	59899	<i>1.292</i>	1276.65	<i>1.064</i>	56042	<i>1.209</i>	1380.46	<i>1.150</i>	60446	<i>1.304</i>
	1894.37	74518	2275.42	<i>1.201</i>	88909	<i>1.193</i>	1879.34	0.992	65292	0.876	1726.73	0.912	67890	0.911
	1630.16	88765	1303.98	0.800	61000	0.688	1733.74	<i>1.064</i>	78513	0.885	1470.62	0.902	78876	0.889

Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
10teams	23.7	359	22.8	0.963	395	<i>1.078</i>	0	13	343.0	18.3	0.782	151	0.547	0	106	65.0
	21.2	567	22.5	<i>1.058</i>	867	<i>1.450</i>	0	27	90.5	18.0	0.856	235	0.502	0	8	48.0
	4.4	5	4.4	1.000	5	1.000	0	0	0.0	4.5	1.002	5	1.000	0	0	0.0
	21.6	433	21.2	0.981	404	0.946	0	15	70.0	16.0	0.753	64	0.308	0	39	94.0
22433	3.4	3	2.9	0.890	3	1.000	0	0	0.0	3.4	1.002	3	1.000	0	0	0.0
	4.2	4	4.2	1.006	4	1.000	0	0	0.0	4.2	1.002	4	1.000	0	0	0.0
	2.6	3	2.7	1.011	3	1.000	0	0	0.0	2.6	1.000	3	1.000	0	0	0.0
	5.4	26	5.4	1.006	26	1.000	0	32	36.0	5.5	1.013	26	1.000	0	5	55.0
23588	6.0	495	5.2	0.878	495	1.000	0	0	0.0	5.7	0.947	495	1.000	0	0	0.0
	5.4	514	5.6	1.037	535	1.034	0	0	0.0	5.5	1.022	535	1.034	0	0	0.0
	4.6	336	6.4	<i>1.323</i>	730	<i>1.904</i>	0	0	0.0	6.4	<i>1.326</i>	730	<i>1.904</i>	0	0	0.0
	5.3	563	5.4	1.017	563	1.000	0	0	0.0	5.7	<i>1.065</i>	563	1.000	0	0	0.0
30n20b8	502.9	403	437.1	0.869	227	0.650	0	20	210.0	308.0	0.613	124	0.445	1	0	18.0
	244.1	96	321.8	<i>1.317</i>	144	<i>1.245</i>	0	7	373.5	258.5	<i>1.059</i>	108	<i>1.061</i>	0	16	227.0
	237.2	126	281.3	<i>1.185</i>	174	<i>1.212</i>	1	26	79.3	638.2	<i>2.683</i>	588	<i>3.044</i>	0	77	41.5
	468.5	284	683.8	<i>1.458</i>	331	<i>1.122</i>	1	19	140.0	641.3	<i>1.368</i>	373	<i>1.232</i>	1	15	41.8
Test3	5.7	4	5.5	0.975	4	1.000	0	0	0.0	5.7	0.996	4	1.000	0	0	0.0
	5.4	3	5.5	1.008	3	1.000	0	0	0.0	5.4	1.002	3	1.000	0	0	0.0
	5.5	2	5.4	0.994	2	1.000	0	0	0.0	5.5	1.002	2	1.000	0	0	0.0
	5.1	1	5.0	0.997	1	1.000	0	0	0.0	5.0	0.993	1	1.000	0	0	0.0
a1c1s1	limit	139641	limit	1.000	163793	<i>1.173</i>	0	19	54.6	limit	1.000	164552	<i>1.178</i>	0	4	27.8
	limit	162719	limit	1.000	163660	1.006	0	12	36.0	limit	1.000	201514	<i>1.238</i>	0	5	35.6
	limit	158245	limit	1.000	179111	<i>1.132</i>	0	22	37.1	limit	1.000	183541	<i>1.160</i>	0	2	37.2
	limit	161284	limit	1.000	150201	0.931	0	14	48.9	limit	1.000	137176	0.851	0	6	31.7
acc-tight5	135.3	940	129.6	0.958	744	0.812	0	257	23.5	121.8	0.901	627	0.699	0	231	25.5
	132.7	704	62.6	0.476	159	0.322	0	25	19.5	118.6	0.894	558	0.818	0	149	25.3
	118.5	498	199.9	<i>1.681</i>	1168	<i>2.120</i>	0	175	25.3	146.8	<i>1.237</i>	901	<i>1.674</i>	0	339	25.7
	109.3	599	119.9	<i>1.096</i>	645	<i>1.066</i>	0	199	21.6	130.4	<i>1.191</i>	717	<i>1.169</i>	1	243	20.1
aflow30a	34.3	751	28.0	0.821	873	<i>1.143</i>	0	0	0.0	29.4	0.860	735	0.981	0	3	31.0
	24.9	1046	23.6	0.949	503	0.526	0	0	0.0	25.3	1.015	1046	1.000	0	0	0.0
	22.0	473	25.8	<i>1.167</i>	582	<i>1.190</i>	0	0	0.0	25.9	<i>1.169</i>	657	<i>1.321</i>	0	0	0.0
	19.7	474	18.0	0.916	715	<i>1.420</i>	0	0	0.0	22.6	<i>1.142</i>	770	<i>1.516</i>	0	0	0.0

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Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
aflow40b	791.7	23244	898.5	<i>1.135</i>	24637	<i>1.060</i>	0	53	33.8	555.9	0.703	20128	0.867	0	26	82.2
	389.9	7966	732.9	<i>1.878</i>	19980	<i>2.489</i>	0	133	26.1	771.0	<i>1.975</i>	18675	<i>2.328</i>	0	28	74.0
	485.0	10919	704.6	<i>1.452</i>	22701	<i>2.069</i>	0	99	30.1	782.0	<i>1.611</i>	19320	<i>1.762</i>	0	46	55.4
	729.3	28492	491.1	0.674	9715	0.343	0	130	24.0	598.8	0.821	16816	0.592	0	0	64.4
air03	2.6	1	2.4	0.958	1	1.000	0	0	0.0	2.7	1.042	1	1.000	0	0	0.0
	2.3	1	2.2	0.973	1	1.000	0	0	0.0	2.2	0.976	1	1.000	0	0	0.0
	2.3	1	2.3	1.009	1	1.000	0	0	0.0	2.3	0.997	1	1.000	0	0	0.0
	2.3	1	2.2	0.991	1	1.000	0	0	0.0	2.3	0.997	1	1.000	0	0	0.0
air04	49.1	110	49.3	1.005	110	1.000	0	0	0.0	49.0	0.999	110	1.000	0	0	0.0
	60.6	192	60.8	1.003	192	1.000	0	15	37.0	59.9	0.989	192	1.000	0	11	58.0
	47.2	107	47.2	1.001	107	1.000	0	6	49.0	47.2	1.000	107	1.000	0	11	35.0
	71.1	179	72.1	1.014	315	<i>1.487</i>	0	0	30.0	70.8	0.995	290	<i>1.398</i>	0	13	30.0
air05	33.5	342	46.9	<i>1.391</i>	798	<i>2.032</i>	0	0	221.0	43.7	<i>1.296</i>	663	<i>1.726</i>	0	0	221.0
	44.8	743	44.8	1.000	743	1.000	0	0	0.0	44.6	0.996	743	1.000	0	0	0.0
	34.8	422	34.7	0.997	422	1.000	0	0	0.0	34.9	1.004	422	1.000	0	0	0.0
	29.9	160	29.9	1.001	160	1.000	0	0	0.0	30.0	1.005	160	1.000	0	0	0.0
aligninq	29.7	1487	42.7	<i>1.426</i>	3320	<i>2.155</i>	0	2000	64.1	28.9	0.974	1751	<i>1.166</i>	0	94	96.8
	18.7	583	37.5	<i>1.954</i>	2875	<i>4.356</i>	0	1783	85.5	39.3	<i>2.044</i>	2602	<i>3.956</i>	0	203	76.5
	34.0	1948	29.7	0.879	1700	0.879	0	1713	70.5	22.7	0.679	1097	0.584	0	0	65.0
	36.7	2535	38.9	<i>1.059</i>	3044	<i>1.193</i>	0	743	58.1	26.6	0.732	1782	0.714	0	99	76.0
app1-2	927.5	26	924.6	0.997	26	1.000	0	0	0.0	927.8	1.000	26	1.000	0	0	0.0
	826.6	26	826.4	1.000	26	1.000	0	0	0.0	828.6	1.002	26	1.000	0	0	0.0
	1159.4	42	1157.0	0.998	42	1.000	0	0	0.0	1162.1	1.002	42	1.000	0	0	0.0
	974.9	20	983.5	1.009	20	1.000	0	0	0.0	979.8	1.005	20	1.000	0	0	0.0
arki001	limit	869267	limit	1.000	963881	<i>1.109</i>	0	60	86.0	limit	1.000	1423071	<i>1.637</i>	0	35	79.0
	limit	922587	limit	1.000	961059	1.042	0	40	109.9	limit	1.000	1124028	<i>1.218</i>	0	37	82.7
	limit	710068	limit	1.000	905037	<i>1.275</i>	0	20	100.7	limit	1.000	944689	<i>1.330</i>	0	56	93.0
	limit	871129	limit	1.000	1002063	<i>1.150</i>	0	53	95.7	limit	1.000	1186261	<i>1.362</i>	0	41	83.2
ash608gpia-3col	43.0	5	43.4	1.007	5	1.000	0	0	0.0	43.3	1.005	5	1.000	0	0	0.0
	36.7	11	38.9	<i>1.060</i>	11	1.000	0	0	0.0	36.6	0.999	11	1.000	0	0	0.0
	24.1	3	24.1	1.000	3	1.000	0	0	0.0	24.1	1.000	3	1.000	0	0	0.0
	35.7	11	35.7	1.001	11	1.000	0	0	0.0	35.5	0.995	11	1.000	0	0	0.0

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Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
atlanta-ip	limit	9729	limit	1.000	12741	<i>1.306</i>	0	2638	84.2	limit	1.000	27709	<i>2.829</i>	0	425	41.4
	limit	10022	limit	1.000	10450	1.042	0	1089	64.6	limit	1.000	12117	<i>1.207</i>	0	184	40.1
	limit	8721	limit	1.000	10784	<i>1.234</i>	0	1522	71.5	limit	1.000	6675	0.768	0	307	51.0
	limit	6036	limit	1.000	10070	<i>1.657</i>	0	1284	70.3	limit	1.000	7798	<i>1.287</i>	0	158	45.9
bab5	limit	68217	limit	1.000	66855	0.980	0	726	55.3	limit	1.000	67293	0.986	0	309	88.2
	limit	72828	limit	1.000	86126	<i>1.182</i>	0	178	48.0	limit	1.000	60153	0.826	0	420	97.9
	limit	108379	limit	1.000	79575	0.734	0	169	54.3	6816.9	0.947	92316	0.852	0	526	89.0
	limit	75445	limit	1.000	71305	0.945	0	162	67.2	limit	1.000	71561	0.949	0	235	81.7
bc1	200.5	1303	298.1	<i>1.485</i>	3870	<i>2.830</i>	0	0	51.0	242.2	<i>1.207</i>	3086	<i>2.271</i>	0	0	44.0
	304.7	4540	267.1	0.877	4006	0.885	0	0	59.0	325.1	<i>1.067</i>	5000	<i>1.099</i>	0	0	36.3
	234.9	1530	235.2	1.001	1600	1.043	0	0	64.0	229.2	0.976	1290	0.853	0	1	50.0
	258.9	3516	245.1	0.947	3422	0.974	0	0	61.0	286.0	<i>1.104</i>	4610	<i>1.303</i>	0	0	64.0
bc	1379.1	14573	1114.3	0.808	11703	0.804	0	0	49.7	1266.7	0.919	12122	0.833	0	6	45.0
	1125.2	12204	1242.7	<i>1.104</i>	11588	0.950	0	5	48.0	1132.3	1.006	12713	1.041	0	6	50.7
	1460.7	16681	1143.6	0.783	13849	0.831	0	0	43.8	1178.5	0.807	12413	0.746	0	6	47.7
	1557.5	19797	1130.2	0.726	13103	0.664	0	0	58.1	1075.3	0.691	13099	0.663	0	1	47.5
beasleyC3	59.1	311	58.6	0.992	378	<i>1.163</i>	0	0	81.0	57.6	0.976	378	<i>1.163</i>	0	0	88.0
	56.9	206	68.3	<i>1.196</i>	515	<i>2.010</i>	0	2	117.0	43.3	0.765	11	0.363	0	0	0.0
	54.2	485	56.0	1.033	170	0.462	0	0	0.0	57.0	<i>1.051</i>	170	0.462	0	0	0.0
	21.9	2	21.4	0.980	2	1.000	0	0	0.0	21.9	1.003	2	1.000	0	0	0.0
bell3a	2.0	3548	1.4	0.797	2445	0.698	15	16	18.1	1.2	0.753	1693	0.492	15	3	15.3
	1.4	3440	0.9	0.808	2184	0.645	12	21	18.7	1.4	1.004	3565	1.035	12	19	18.2
	1.9	4949	1.3	0.801	3116	0.637	15	16	17.9	1.0	0.696	2001	0.416	17	9	16.5
	1.8	4568	1.2	0.795	2720	0.604	15	15	16.6	1.5	0.906	4083	0.896	15	7	17.2
bell5	0.6	415	1.0	<i>1.299</i>	444	<i>1.056</i>	11	3	11.7	0.9	<i>1.223</i>	412	0.994	8	11	11.5
	0.6	511	0.5	0.968	339	0.718	8	2	11.8	0.5	0.968	339	0.718	8	2	11.5
	0.5	206	0.5	1.000	196	0.967	6	13	13.8	0.5	1.000	198	0.974	10	6	13.8
	0.6	410	0.6	0.987	451	<i>1.080</i>	11	5	11.3	0.5	0.969	435	1.049	13	14	12.0
biella1	1178.2	4348	1566.0	<i>1.329</i>	8151	<i>1.855</i>	0	20	310.1	1624.0	<i>1.378</i>	5962	<i>1.363</i>	0	0	267.0
	1283.7	3033	1246.4	0.971	5954	<i>1.932</i>	0	10	205.8	573.0	0.447	1563	0.531	0	24	127.6
	634.4	1580	997.2	<i>1.571</i>	1975	<i>1.235</i>	0	1	195.8	759.2	<i>1.196</i>	2159	<i>1.345</i>	0	2	229.8
	806.3	1684	1223.1	<i>1.516</i>	4551	<i>2.607</i>	0	2	194.5	1153.4	<i>1.430</i>	3849	<i>2.214</i>	0	0	240.7

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Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
bienst1	204.6	25970	155.0	0.759	16090	0.621	0	22	17.7	116.0	0.569	11409	0.441	2	38	19.5
	196.8	20587	121.4	0.619	9901	0.483	0	20	17.3	123.1	0.627	10018	0.489	2	46	18.6
	153.6	13823	125.8	0.820	9304	0.675	1	53	16.9	134.5	0.877	12736	0.922	1	21	17.7
	160.2	16868	147.1	0.919	15248	0.905	0	18	18.1	174.4	<i>1.088</i>	19016	<i>1.127</i>	0	7	20.3
bienst2	812.5	88717	658.5	0.811	62497	0.705	0	19	17.3	607.4	0.748	58870	0.664	0	4	23.0
	669.8	65095	743.3	<i>1.110</i>	81035	<i>1.244</i>	0	11	17.9	658.1	0.983	67204	1.032	1	12	22.3
	704.0	73577	600.4	0.853	62789	0.854	1	23	17.8	667.4	0.948	71954	0.978	2	10	21.9
	580.0	58053	581.4	1.003	60072	1.035	0	11	17.8	518.8	0.895	50864	0.876	0	1	22.9
binkar10_1	34.6	2288	34.2	0.988	2435	<i>1.062</i>	0	0	39.4	36.4	1.049	2407	1.050	0	4	34.1
	36.9	2311	49.6	<i>1.336</i>	2686	<i>1.156</i>	0	0	37.4	50.6	<i>1.361</i>	3100	<i>1.327</i>	0	6	39.5
	66.6	4312	29.0	0.444	1927	0.459	0	6	43.1	35.2	0.536	2480	0.585	0	8	38.0
	28.8	1795	46.6	<i>1.600</i>	4380	<i>2.364</i>	0	18	42.4	36.5	<i>1.260</i>	2172	<i>1.199</i>	0	3	41.9
blend2	1.2	686	1.5	<i>1.113</i>	706	1.025	0	2	37.3	0.9	0.856	551	0.828	0	4	26.0
	1.5	1042	1.2	0.911	832	0.816	0	14	30.7	1.6	<i>1.053</i>	1170	<i>1.112</i>	0	13	23.0
	1.3	876	1.1	0.896	635	0.753	0	3	52.0	1.1	0.931	760	0.881	0	10	19.6
	1.0	692	1.1	1.030	592	0.874	0	2	53.7	0.9	0.936	613	0.900	0	4	25.5
bley_xl1	199.5	1	199.6	1.000	1	1.000	0	0	0.0	199.2	0.999	1	1.000	0	0	0.0
	239.3	28	238.2	0.996	28	1.000	0	0	0.0	238.3	0.996	28	1.000	0	0	0.0
	162.4	1	162.6	1.001	1	1.000	0	0	0.0	163.1	1.004	1	1.000	0	0	0.0
	164.6	1	164.7	1.000	1	1.000	0	0	0.0	164.7	1.001	1	1.000	0	0	0.0
bnatt350	1029.8	9977	857.7	0.833	4220	0.429	0	403	22.0	372.7	0.363	3060	0.314	0	361	21.6
	662.4	5721	1063.6	<i>1.605</i>	7468	<i>1.300</i>	0	735	20.7	849.0	<i>1.281</i>	8212	<i>1.428</i>	0	1018	19.4
	343.2	2444	538.7	<i>1.568</i>	4560	<i>1.832</i>	0	563	20.8	706.5	<i>2.056</i>	3739	<i>1.509</i>	0	814	17.8
	827.2	8260	528.2	0.639	3663	0.450	0	605	21.2	1181.5	<i>1.428</i>	9914	<i>1.198</i>	0	954	19.5
cap6000	4.4	2159	3.7	0.866	1978	0.920	5	14	18.7	4.1	0.937	1653	0.776	16	28	18.8
	3.9	2269	3.5	0.913	1668	0.746	1	27	14.4	3.4	0.895	1568	0.704	1	28	14.5
	4.5	2522	4.2	0.956	2113	0.844	6	29	17.5	4.2	0.954	2008	0.804	6	21	18.2
	4.5	2579	4.2	0.951	2086	0.816	7	44	20.5	3.9	0.882	1693	0.669	12	20	18.1
core2536-691	324.4	186	158.3	0.490	118	0.762	0	0	592.0	151.7	0.469	97	0.689	0	0	489.0
	269.9	156	152.4	0.566	174	<i>1.070</i>	0	0	533.0	173.3	0.643	92	0.750	0	0	907.0
	507.7	458	115.3	0.229	60	0.287	0	0	420.0	239.1	0.472	235	0.600	0	0	669.5
	337.2	250	120.6	0.360	126	0.646	0	0	545.0	379.4	<i>1.125</i>	281	<i>1.089</i>	0	1	641.2

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
cov1075	80.7	19859	81.9	1.015	19799	0.997	0	18	33.4	81.6	1.012	19679	0.991	0	7	39.1
	111.1	33279	111.3	1.002	32317	0.971	0	50	36.0	119.0	<i>1.070</i>	35808	<i>1.076</i>	1	16	45.4
	78.6	19252	63.5	0.809	13662	0.711	0	23	37.4	69.8	0.889	17223	0.895	1	14	39.7
	78.9	17553	94.3	<i>1.192</i>	23085	<i>1.313</i>	1	20	38.7	83.5	<i>1.058</i>	19095	<i>1.087</i>	2	8	41.2
csched010	5095.1	172718	limit	<i>1.413</i>	313276	<i>1.813</i>	0	171	82.5	6794.3	<i>1.333</i>	297025	<i>1.719</i>	0	266	72.5
	limit	336948	limit	1.000	335172	0.995	0	239	61.1	limit	1.000	348991	1.036	0	191	76.3
	2383.9	108940	4277.0	<i>1.794</i>	212064	<i>1.946</i>	0	239	71.2	3528.1	<i>1.480</i>	140492	<i>1.289</i>	0	84	88.0
	4625.1	183497	6290.6	<i>1.360</i>	271887	<i>1.481</i>	0	392	59.7	3899.8	0.843	165525	0.902	0	139	45.9
d10200	limit	949723	limit	1.000	817747	0.861	0	0	98.6	limit	1.000	1140208	<i>1.201</i>	0	0	86.2
	limit	639641	limit	1.000	728898	<i>1.140</i>	0	2	101.2	limit	1.000	1033964	<i>1.616</i>	0	0	93.9
	limit	956242	limit	1.000	725480	0.759	0	1	92.6	limit	1.000	634865	0.664	0	32	95.3
	limit	735101	limit	1.000	794308	<i>1.081</i>	0	19	96.3	limit	1.000	1074686	<i>1.462</i>	0	51	98.4
d20200	limit	245588	limit	1.000	292097	<i>1.189</i>	0	4	250.4	limit	1.000	261944	<i>1.067</i>	0	0	146.7
	limit	223033	limit	1.000	258910	<i>1.161</i>	0	18	240.9	limit	1.000	230097	1.032	0	104	137.9
	limit	236734	limit	1.000	219161	0.926	0	7	228.3	limit	1.000	204573	0.864	0	0	156.5
	limit	230081	limit	1.000	256678	<i>1.116</i>	0	14	218.9	limit	1.000	273200	<i>1.187</i>	0	108	149.2
dano3_3	153.5	18	164.8	<i>1.073</i>	18	1.000	0	0	11.0	153.6	1.001	18	1.000	0	1	12.0
	132.6	6	132.6	0.999	6	1.000	0	0	0.0	132.9	1.002	6	1.000	0	0	0.0
	147.1	14	147.2	1.001	14	1.000	0	0	0.0	147.7	1.004	14	1.000	0	0	0.0
	144.4	12	144.8	1.003	12	1.000	0	0	0.0	144.8	1.002	12	1.000	0	0	0.0
dano3_4	193.7	14	193.6	1.000	14	1.000	0	0	0.0	193.1	0.997	14	1.000	0	0	0.0
	185.6	8	183.9	0.991	8	1.000	0	0	0.0	184.4	0.994	8	1.000	0	0	0.0
	169.2	14	168.8	0.998	14	1.000	0	1	7.0	168.8	0.997	14	1.000	0	0	9.0
	140.9	24	141.7	1.006	29	1.040	0	0	8.0	139.4	0.989	23	0.992	0	1	16.0
dano3_5	377.1	165	402.2	<i>1.067</i>	185	<i>1.075</i>	0	1	17.2	452.4	<i>1.199</i>	231	<i>1.249</i>	0	1	22.5
	455.6	174	415.8	0.913	156	0.934	0	7	20.0	363.1	0.798	177	1.011	0	3	26.5
	373.7	165	363.5	0.973	132	0.875	1	2	12.0	370.5	0.991	185	<i>1.075</i>	0	4	20.3
	480.7	167	386.6	0.805	176	1.034	0	1	19.0	406.0	0.845	220	<i>1.199</i>	0	2	28.3
dano3mip	limit	1397	limit	1.000	1420	1.015	0	4	47.3	limit	1.000	1366	0.979	0	0	271.2
	limit	1009	limit	1.000	957	0.953	0	5	39.4	limit	1.000	988	0.981	0	4	289.0
	limit	861	limit	1.000	630	0.760	0	4	42.6	limit	1.000	905	1.046	0	0	0.0
	limit	1263	limit	1.000	1493	<i>1.169</i>	0	2	45.0	limit	1.000	1570	<i>1.225</i>	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
danoint	4796.5	1277825	5129.3	<i>1.069</i>	1425342	<i>1.115</i>	0	0	23.1	4346.7	0.906	1182965	0.926	0	6	25.4
	4169.9	1146923	4795.3	<i>1.150</i>	1364472	<i>1.190</i>	0	1	23.9	4222.2	1.013	1127024	0.983	0	0	29.5
	5281.1	1463654	4399.2	0.833	1195273	0.817	0	2	24.6	5483.2	1.038	1527619	1.044	0	0	29.3
	2857.8	770103	3811.9	<i>1.334</i>	1062058	<i>1.379</i>	0	3	23.4	3398.3	<i>1.189</i>	948182	<i>1.231</i>	0	0	28.8
dcmulti	3.9	52	3.6	0.945	52	1.000	0	0	0.0	3.6	0.949	52	1.000	0	0	0.0
	3.5	71	3.6	1.002	71	1.000	0	0	0.0	3.6	1.007	71	1.000	0	0	0.0
	2.8	69	2.8	1.003	69	1.000	0	0	0.0	2.8	1.016	69	1.000	0	0	0.0
	3.0	82	3.0	0.990	82	1.000	0	0	0.0	3.1	1.017	82	1.000	0	0	0.0
dfn-gwin-UUM	124.1	23097	185.2	<i>1.489</i>	39788	<i>1.720</i>	8	10	42.8	134.4	<i>1.083</i>	25605	<i>1.108</i>	5	22	43.0
	133.8	27565	126.1	0.943	24607	0.893	6	13	44.9	123.2	0.921	23743	0.862	6	14	41.5
	134.2	25438	159.6	<i>1.188</i>	32088	<i>1.260</i>	6	13	45.5	169.8	<i>1.264</i>	35447	<i>1.392</i>	6	5	44.5
	108.4	21920	134.3	<i>1.237</i>	24146	<i>1.101</i>	6	16	42.3	115.6	<i>1.066</i>	21853	0.997	9	18	47.0
disctom	6.9	1	7.0	1.004	1	1.000	0	0	0.0	7.1	1.024	1	1.000	0	0	0.0
	7.2	1	7.2	0.998	1	1.000	0	0	0.0	7.2	1.000	1	1.000	0	0	0.0
	5.8	1	5.8	0.996	1	1.000	0	0	0.0	5.8	1.000	1	1.000	0	0	0.0
	9.2	1	9.2	0.994	1	1.000	0	0	0.0	9.2	0.998	1	1.000	0	0	0.0
ds	limit	1012	limit	1.000	637	0.663	14	0	64.0	limit	1.000	1012	1.000	0	0	0.0
	limit	845	limit	1.000	978	<i>1.141</i>	3	0	67.5	limit	1.000	750	0.899	0	34	138.5
	limit	875	limit	1.000	846	0.970	17	0	67.4	limit	1.000	851	0.975	0	0	123.5
	limit	766	limit	1.000	661	0.879	12	0	50.7	limit	1.000	766	1.000	0	0	0.0
dsbmip	2.3	16	2.1	0.939	16	1.000	0	0	0.0	2.5	<i>1.067</i>	16	1.000	0	0	0.0
	1.9	46	1.6	0.914	27	0.870	1	0	19.0	1.7	0.938	30	0.890	1	0	42.0
	1.8	16	1.8	1.011	16	1.000	0	0	0.0	1.8	1.004	16	1.000	0	0	0.0
	2.1	14	2.2	1.006	14	1.000	0	0	0.0	2.1	1.000	14	1.000	0	0	0.0
egout	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
eil33-2	97.9	653	96.6	0.987	653	1.000	0	0	0.0	96.3	0.984	653	1.000	0	0	0.0
	83.8	665	83.9	1.001	665	1.000	0	0	0.0	83.9	1.001	665	1.000	0	0	0.0
	94.1	677	93.5	0.994	677	1.000	0	0	0.0	93.5	0.994	677	1.000	0	0	0.0
	101.1	629	103.2	1.021	629	1.000	0	0	0.0	100.9	0.998	629	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
eilB101	477.1	10286	597.9	<i>1.253</i>	13787	<i>1.337</i>	0	0	31.0	606.2	<i>1.270</i>	13787	<i>1.337</i>	0	0	64.0
	517.2	9113	555.0	<i>1.073</i>	10965	<i>1.201</i>	0	71	75.5	674.2	<i>1.303</i>	14104	<i>1.542</i>	0	7	97.3
	464.2	10337	491.5	<i>1.059</i>	10774	1.042	0	14	44.5	572.6	<i>1.233</i>	13036	<i>1.259</i>	0	0	36.5
	473.5	10139	649.7	<i>1.371</i>	15515	<i>1.525</i>	0	38	57.0	609.9	<i>1.288</i>	14496	<i>1.426</i>	0	27	140.0
enigma	0.5	215	0.5	1.000	215	1.000	0	0	0.0	0.5	1.000	215	1.000	0	0	0.0
	0.5	620	0.5	1.000	580	0.944	0	0	21.0	0.5	1.000	461	0.779	0	5	23.0
	0.5	863	0.5	1.007	946	<i>1.086</i>	0	3	18.0	0.7	<i>1.078</i>	1379	<i>1.536</i>	0	3	18.0
	0.8	1443	0.8	1.006	1485	1.027	0	0	26.5	0.7	0.972	1485	1.027	0	0	25.5
enlight13	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
enlight14	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
ex9	39.6	1	39.8	1.006	1	1.000	0	0	0.0	40.6	1.026	1	1.000	0	0	0.0
	39.5	1	38.6	0.979	1	1.000	0	0	0.0	38.7	0.981	1	1.000	0	0	0.0
	39.7	1	41.1	1.034	1	1.000	0	0	0.0	39.6	0.998	1	1.000	0	0	0.0
	38.3	1	38.3	1.001	1	1.000	0	0	0.0	38.0	0.993	1	1.000	0	0	0.0
fast0507	406.8	1268	353.3	0.869	1067	0.853	0	4	228.1	343.3	0.844	1066	0.852	0	2	211.5
	233.0	686	223.1	0.958	667	0.976	0	1	163.3	280.6	<i>1.203</i>	817	<i>1.167</i>	0	0	216.0
	249.7	803	213.1	0.854	737	0.927	0	1	143.0	280.9	<i>1.125</i>	985	<i>1.202</i>	0	0	223.6
	247.1	859	253.2	1.024	930	<i>1.074</i>	0	3	211.5	238.5	0.965	840	0.980	0	0	211.0
fiball	5889.6	5972	4115.7	0.699	4050	0.683	0	22	385.0	5898.8	1.002	6057	1.014	0	26	366.4
	2923.8	3006	limit	<i>2.462</i>	7911	<i>2.579</i>	0	36	192.4	limit	<i>2.462</i>	7953	<i>2.593</i>	0	45	161.5
	2771.3	2859	5454.2	<i>1.968</i>	5996	<i>2.060</i>	0	48	358.8	limit	<i>2.597</i>	7626	<i>2.611</i>	0	123	203.5
	limit	8417	3375.2	0.469	3686	0.445	0	25	273.0	limit	1.000	7241	0.862	0	88	163.5
fiber	2.9	5	3.4	<i>1.114</i>	5	1.000	0	0	0.0	2.9	1.000	5	1.000	0	0	0.0
	2.6	4	2.6	1.008	4	1.000	0	0	0.0	2.6	1.003	4	1.000	0	0	0.0
	2.8	4	2.8	1.005	4	1.000	0	0	0.0	2.8	0.995	4	1.000	0	0	0.0
	2.8	6	2.8	1.000	6	1.000	0	0	0.0	2.8	0.997	6	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
fixnet6	6.0	3	6.4	<i>1.058</i>	3	1.000	0	0	0.0	6.0	1.001	3	1.000	0	0	0.0
	7.6	4	7.5	0.988	4	1.000	0	0	0.0	7.6	0.994	4	1.000	0	0	0.0
	8.2	4	8.2	0.992	4	1.000	0	0	0.0	8.3	1.012	4	1.000	0	0	0.0
	6.2	2	6.2	1.000	3	1.010	0	0	0.0	6.2	1.006	3	1.010	0	0	0.0
flugpl	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
gen	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
germanrr	limit	3720	limit	1.000	9378	<i>2.481</i>	0	54	87.2	limit	1.000	11139	<i>2.942</i>	0	9	205.6
	limit	6208	limit	1.000	4402	0.714	0	42	97.8	limit	1.000	2325	0.384	0	0	226.7
	limit	2261	limit	1.000	7370	<i>3.164</i>	0	60	92.4	limit	1.000	3232	<i>1.411</i>	0	32	247.9
	limit	2654	limit	1.000	2576	0.972	0	47	73.4	limit	1.000	3140	<i>1.176</i>	0	5	223.9
gesa2-o	0.9	4	0.9	0.985	4	1.000	0	0	0.0	1.1	<i>1.097</i>	4	1.000	0	0	0.0
	1.2	2	1.3	1.013	2	1.000	0	0	0.0	1.2	1.000	2	1.000	0	0	0.0
	0.7	2	0.7	1.012	2	1.000	0	0	0.0	0.7	1.012	2	1.000	0	0	0.0
	0.9	2	0.9	0.995	2	1.000	0	0	0.0	0.8	0.989	2	1.000	0	0	0.0
gesa2	0.8	2	0.6	0.910	2	1.000	0	0	0.0	1.1	<i>1.152</i>	2	1.000	0	0	0.0
	0.6	2	0.6	1.006	2	1.000	0	0	0.0	0.6	1.000	2	1.000	0	0	0.0
	0.6	2	0.6	1.012	2	1.000	0	0	0.0	0.6	1.000	2	1.000	0	0	0.0
	0.6	2	0.6	1.000	2	1.000	0	0	0.0	0.6	0.988	2	1.000	0	0	0.0
gesa3	9.2	10	8.8	0.962	10	1.000	0	0	0.0	9.0	0.983	10	1.000	0	0	0.0
	6.6	5	7.8	<i>1.160</i>	6	1.010	0	0	0.0	7.7	<i>1.152</i>	6	1.010	0	0	0.0
	7.0	7	7.1	1.006	7	1.000	0	0	0.0	7.1	1.006	7	1.000	0	0	0.0
	6.6	6	6.6	1.001	6	1.000	0	0	0.0	6.5	0.995	6	1.000	0	0	0.0
gesa3_o	3.0	6	2.7	0.932	6	1.000	0	0	0.0	2.8	0.942	6	1.000	0	0	0.0
	2.9	8	2.9	1.000	8	1.000	0	0	0.0	2.9	0.997	8	1.000	0	0	0.0
	3.7	7	3.7	0.998	7	1.000	0	0	0.0	3.7	1.000	7	1.000	0	0	0.0
	2.9	6	2.9	1.000	6	1.000	0	0	0.0	2.9	0.987	6	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
glass4	2038.7	1234030	1505.5	0.739	768818	0.623	0	177	62.6	1082.5	0.531	597949	0.485	0	345	50.7
	limit	4944800	1645.2	0.229	1199730	0.243	0	382	59.2	4455.5	0.619	2757727	0.558	2	2115	50.0
	2203.8	1489727	948.9	0.431	750382	0.504	1	368	60.5	1106.3	0.502	848383	0.570	1	1064	51.5
gmu-35-40	limit	4129349	limit	1.000	3530225	0.855	0	30	52.6	limit	1.000	3505480	0.849	0	18	43.9
	limit	2881135	limit	1.000	4747242	<i>1.648</i>	0	0	49.5	limit	1.000	4252946	<i>1.476</i>	0	10	41.5
	limit	4735500	limit	1.000	4544172	0.960	0	0	56.4	limit	1.000	3276994	0.692	0	26	44.2
	limit	5006940	limit	1.000	3589279	0.717	0	0	52.3	limit	1.000	3295917	0.658	1	17	46.5
gt2	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
haprp	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
iis-100-0-cov	826.6	106529	802.7	0.971	103091	0.968	0	75	21.4	803.8	0.972	102235	0.960	0	91	22.7
	722.6	92803	720.8	0.998	92475	0.996	0	85	20.9	731.7	1.013	94037	1.013	0	93	23.8
	645.1	80389	652.0	1.011	81601	1.015	0	71	23.1	654.4	1.014	81509	1.014	0	80	23.2
	717.3	90721	692.9	0.966	86709	0.956	0	111	24.4	734.5	1.024	93707	1.033	0	96	22.8
iis-bupa-cov	2339.8	150128	2393.2	1.023	156016	1.039	0	192	46.1	2535.1	<i>1.083</i>	166890	<i>1.112</i>	0	164	45.9
	2348.4	153532	2438.5	1.038	160860	1.048	0	365	45.7	2513.4	<i>1.070</i>	154710	1.008	0	73	50.2
	2485.2	163655	2682.1	<i>1.079</i>	187396	<i>1.145</i>	0	258	45.8	2455.6	0.988	164401	1.005	0	202	46.4
	2472.3	160525	2370.4	0.959	157506	0.981	0	178	46.3	2394.1	0.968	152397	0.949	0	252	45.6
iis-pima-cov	499.6	9512	498.4	0.997	9246	0.972	0	11	77.1	510.8	1.022	9330	0.981	0	17	81.1
	498.8	9925	499.2	1.001	10062	1.014	0	18	80.6	422.5	0.847	6641	0.672	0	7	77.8
	335.6	5064	372.1	<i>1.108</i>	6479	<i>1.274</i>	0	7	75.2	348.9	1.039	5829	<i>1.148</i>	0	3	80.8
	446.8	6877	669.6	<i>1.498</i>	15737	<i>2.270</i>	0	12	76.3	421.9	0.944	7115	1.034	0	8	81.0
khh05250	0.7	2	0.7	1.018	2	1.000	0	0	0.0	0.8	<i>1.085</i>	2	1.000	0	0	0.0
	0.5	2	0.5	1.000	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
	0.5	2	0.5	1.000	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
	0.5	2	0.5	0.987	2	1.000	0	0	0.0	0.5	0.993	2	1.000	0	0	0.0
l152lav	3.0	30	3.3	<i>1.088</i>	33	1.023	0	0	0.0	3.1	1.025	33	1.023	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
	3.0	43	3.0	1.000	43	1.000	0	0	0.0	2.9	0.990	43	1.000	0	0	0.0
	3.0	39	3.0	1.002	39	1.000	0	0	0.0	3.0	0.988	39	1.000	0	0	0.0
	2.5	32	2.6	1.029	30	0.985	0	0	32.0	2.4	0.977	34	1.015	0	5	16.0
lectsched-4-obj	54.6	2296	42.4	0.780	1104	0.503	1	12	90.7	33.5	0.620	501	0.251	0	6	131.0
	158.2	4137	82.2	0.523	857	0.226	2	174	102.9	140.6	0.889	1714	0.428	2	192	86.8
	12.0	5	12.1	1.004	5	1.000	0	0	0.0	12.0	1.002	5	1.000	0	0	0.0
	12.9	5	52.4	<i>3.833</i>	2136	<i>21.295</i>	0	75	91.1	12.8	0.989	5	1.000	0	0	0.0
leo1	limit	61193	limit	1.000	85707	<i>1.400</i>	0	3	90.0	limit	1.000	52607	0.860	0	0	30.5
	limit	58114	limit	1.000	52305	0.900	0	0	138.0	limit	1.000	60950	1.049	0	2	103.2
	limit	82444	limit	1.000	88974	<i>1.079</i>	0	4	108.3	limit	1.000	76399	0.927	0	0	128.3
	limit	80955	limit	1.000	107895	<i>1.332</i>	0	0	80.0	limit	1.000	50943	0.630	0	0	66.2
leo2	limit	78564	limit	1.000	88973	<i>1.132</i>	0	0	0.0	limit	1.000	78989	1.005	0	0	0.0
	limit	83637	limit	1.000	86751	1.037	0	0	0.0	limit	1.000	86277	1.032	0	0	0.0
	limit	80728	limit	1.000	78861	0.977	0	0	0.0	limit	1.000	81464	1.009	0	0	0.0
	limit	67978	limit	1.000	74735	<i>1.099</i>	0	0	0.0	limit	1.000	68047	1.001	0	0	0.0
liu	limit	1285212	limit	1.000	1610188	<i>1.253</i>	4	107	298.4	limit	1.000	1634858	<i>1.272</i>	6	79	299.9
	limit	1917526	limit	1.000	1634197	0.852	0	71	290.5	limit	1.000	1616663	0.843	4	170	303.1
	limit	1541049	limit	1.000	1660341	<i>1.077</i>	7	171	306.3	limit	1.000	1324806	0.860	0	41	294.3
	limit	1418829	limit	1.000	1460707	1.030	12	169	296.3	limit	1.000	1418024	0.999	15	178	294.4
lrn	limit	3345	limit	1.000	2375	0.718	1	3	81.7	limit	1.000	3955	<i>1.177</i>	0	1	89.6
	limit	2502	limit	1.000	2505	1.001	0	13	72.3	limit	1.000	2907	<i>1.156</i>	0	0	74.0
	limit	1990	limit	1.000	2212	<i>1.106</i>	0	14	73.8	limit	1.000	3685	<i>1.811</i>	0	5	84.4
	limit	2880	limit	1.000	3184	<i>1.102</i>	0	20	68.4	limit	1.000	3902	<i>1.343</i>	1	10	109.0
lseu	1.0	176	1.2	<i>1.103</i>	176	1.000	0	0	0.0	1.3	<i>1.118</i>	176	1.000	0	0	0.0
	0.5	4	0.5	1.000	4	1.000	0	0	0.0	0.5	1.000	4	1.000	0	0	0.0
	0.5	70	0.5	1.007	68	0.988	0	0	0.0	0.5	1.007	70	1.000	0	0	0.0
	0.8	264	0.8	1.028	275	1.030	0	0	15.0	0.9	1.039	264	1.000	0	0	0.0
m100n500k4r1	limit	3729849	limit	1.000	4137930	<i>1.109</i>	0	16	35.7	limit	1.000	3328422	0.892	0	4	84.0
	limit	3552461	limit	1.000	3638211	1.024	0	20	46.5	limit	1.000	3552222	1.000	0	13	34.8
	limit	3736953	limit	1.000	3609052	0.966	0	0	48.2	limit	1.000	3617264	0.968	0	18	46.1
	limit	3838400	limit	1.000	3676155	0.958	0	12	52.0	limit	1.000	4033988	<i>1.051</i>	0	0	54.5
macrophage	159.1	5108	161.6	1.016	5034	0.986	0	4	171.0	154.4	0.971	5005	0.980	0	11	183.7
	172.6	5046	202.8	<i>1.174</i>	6177	<i>1.220</i>	0	5	157.5	170.6	0.988	5410	<i>1.071</i>	0	2	168.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
	228.6	8063	187.5	0.821	6176	0.769	0	63	149.1	204.3	0.894	6861	0.853	0	23	243.4
	149.5	4564	162.9	<i>1.089</i>	5602	<i>1.223</i>	0	8	149.1	163.1	<i>1.091</i>	6085	<i>1.326</i>	0	13	162.5
manna81	0.8	1	0.8	0.962	1	1.000	0	0	0.0	0.8	0.989	1	1.000	0	0	0.0
	0.6	1	0.6	0.975	1	1.000	0	0	0.0	0.6	0.994	1	1.000	0	0	0.0
	0.6	1	0.6	0.987	1	1.000	0	0	0.0	0.6	1.038	1	1.000	0	0	0.0
	0.6	1	0.6	1.019	1	1.000	0	0	0.0	0.6	1.026	1	1.000	0	0	0.0
map18	353.5	239	301.2	0.853	249	1.029	0	8	34.0	323.9	0.917	239	1.000	0	3	20.0
	253.7	255	353.9	<i>1.393</i>	273	<i>1.051</i>	0	1	22.0	289.9	<i>1.142</i>	263	1.023	0	0	28.0
	364.8	300	305.1	0.837	305	1.012	0	4	35.0	350.7	0.961	317	1.042	0	5	14.0
	370.1	255	310.3	0.839	231	0.932	0	7	35.0	284.8	0.770	257	1.006	0	3	11.0
map20	331.7	245	239.8	0.724	392	<i>1.426</i>	0	1	29.0	326.7	0.985	231	0.959	0	2	16.0
	316.5	219	318.0	1.005	237	<i>1.056</i>	0	6	37.5	322.2	1.018	213	0.981	0	6	15.0
	201.1	233	282.1	<i>1.401</i>	406	<i>1.520</i>	0	2	31.0	200.4	0.997	235	1.006	0	2	15.0
	273.6	229	278.9	1.019	247	<i>1.055</i>	0	4	37.0	241.6	0.883	223	0.982	0	2	14.0
markshare1	limit	34394997	limit	1.000	33973218	0.988	3	15	33.7	limit	1.000	32020324	0.931	0	12	33.8
	limit	34291418	limit	1.000	32839202	0.958	3	20	33.8	limit	1.000	32964973	0.961	1	11	34.1
	limit	32587792	limit	1.000	33087280	1.015	3	26	33.7	limit	1.000	33658434	1.033	0	16	33.0
	limit	33689076	limit	1.000	35371651	1.050	4	13	33.6	limit	1.000	33035891	0.981	1	25	33.9
markshare2	limit	13790121	limit	1.000	13461681	0.976	2	19	40.2	limit	1.000	14242961	1.033	1	20	39.0
	limit	15279315	limit	1.000	14370971	0.941	1	13	40.5	limit	1.000	14611841	0.956	0	8	40.1
	limit	13888399	limit	1.000	13491300	0.971	2	23	39.8	limit	1.000	14392598	1.036	1	24	38.8
	limit	14323408	limit	1.000	14420415	1.007	2	28	40.1	limit	1.000	13525381	0.944	1	24	39.0
mas74	1629.3	5182414	2004.9	<i>1.230</i>	6027541	<i>1.163</i>	0	116	26.4	1850.6	<i>1.136</i>	5686594	<i>1.097</i>	0	42	29.6
	2728.8	6183035	2714.7	0.995	6950287	<i>1.124</i>	0	92	26.9	1685.2	0.618	5711243	0.924	0	46	30.3
	1952.1	5906746	2381.2	<i>1.220</i>	7071228	<i>1.197</i>	0	95	27.4	1898.8	0.973	5844232	0.989	0	48	29.7
mas76	124.3	261470	94.9	0.765	198417	0.759	0	396	19.4	111.6	0.898	219476	0.839	0	260	21.1
	101.7	201143	153.5	<i>1.505</i>	360101	<i>1.790</i>	0	370	19.6	199.1	<i>1.948</i>	556219	<i>2.764</i>	0	381	20.3
	106.7	200421	114.2	<i>1.070</i>	246746	<i>1.231</i>	0	417	19.2	124.2	<i>1.163</i>	265676	<i>1.325</i>	0	601	19.3
	168.3	463174	112.5	0.671	209149	0.452	0	502	20.4	175.4	1.042	500161	<i>1.080</i>	0	334	21.1
mcsched	261.2	8906	241.5	0.925	7120	0.802	0	53	17.2	244.7	0.937	7751	0.872	0	26	100.9
	275.0	8523	266.4	0.969	8226	0.966	0	20	15.5	271.5	0.987	8902	1.044	0	22	94.7
	346.2	11394	373.9	<i>1.080</i>	13747	<i>1.205</i>	0	54	17.0	383.9	<i>1.109</i>	14875	<i>1.303</i>	0	34	86.7

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
	206.7	6037	209.7	1.014	6145	1.018	0	23	17.6	205.7	0.995	5956	0.987	0	9	108.1
mik-250-1-100-1	86.4	22390	87.3	1.010	22968	1.026	0	83	48.2	69.6	0.807	19057	0.852	0	68	59.1
	73.0	22060	51.5	0.710	15147	0.688	0	21	48.1	98.5	<i>1.344</i>	27644	<i>1.252</i>	0	52	57.3
	76.7	20383	89.3	<i>1.162</i>	23266	<i>1.141</i>	0	95	48.5	68.9	0.900	16878	0.829	1	141	58.1
	112.0	27190	135.1	<i>1.205</i>	34844	<i>1.280</i>	0	38	50.6	109.7	0.980	27408	1.008	0	74	48.8
mine-166-5	78.5	12	82.5	<i>1.050</i>	276	<i>3.357</i>	0	0	0.0	78.9	1.005	131	<i>2.062</i>	0	0	0.0
	82.4	2002	90.3	<i>1.095</i>	2802	<i>1.381</i>	0	38	38.5	85.3	1.036	1848	0.927	0	22	33.0
	59.0	1333	63.1	<i>1.069</i>	2538	<i>1.841</i>	1	81	54.0	58.5	0.991	1169	0.886	0	26	51.0
	64.1	1228	65.9	1.028	1615	<i>1.291</i>	1	0	37.0	68.7	<i>1.071</i>	2352	<i>1.846</i>	0	5	35.0
mine-90-10	412.8	32102	536.6	<i>1.299</i>	38513	<i>1.199</i>	0	1066	62.8	334.4	0.811	31547	0.983	0	2579	48.9
	290.0	35136	245.4	0.847	25651	0.731	1	764	52.4	460.0	<i>1.584</i>	43443	<i>1.236</i>	0	2198	60.3
	346.9	33747	467.3	<i>1.346</i>	47767	<i>1.414</i>	1	711	55.8	461.1	<i>1.328</i>	40478	<i>1.199</i>	0	1827	44.1
	353.5	31760	940.5	<i>2.656</i>	76187	<i>2.394</i>	1	2550	58.1	558.0	<i>1.577</i>	50369	<i>1.584</i>	0	3179	50.0
misc03	1.1	11	0.6	0.770	11	1.000	0	0	0.0	1.1	0.995	11	1.000	0	0	0.0
	1.0	23	1.0	1.005	23	1.000	0	0	0.0	1.1	1.025	23	1.000	0	0	0.0
	0.6	7	0.5	0.987	7	1.000	0	0	0.0	0.6	1.006	7	1.000	0	0	0.0
	0.8	29	0.8	1.000	29	1.000	0	0	0.0	0.8	1.011	29	1.000	0	0	0.0
misc06	1.0	3	0.7	0.840	3	1.000	0	0	0.0	1.2	<i>1.095</i>	3	1.000	0	0	0.0
	0.8	3	0.8	0.994	3	1.000	0	0	0.0	0.8	1.006	3	1.000	0	0	0.0
	0.6	3	0.6	1.019	3	1.000	0	0	0.0	0.6	0.994	3	1.000	0	0	0.0
	0.5	3	0.6	1.039	3	1.000	0	0	0.0	0.6	1.045	3	1.000	0	0	0.0
misc07	13.1	6038	13.3	1.018	6065	1.004	0	166	28.6	13.3	1.017	5971	0.989	0	82	31.1
	14.9	6123	15.0	1.009	6097	0.996	0	90	26.3	14.8	0.994	6084	0.994	0	79	34.5
	15.9	7464	15.9	0.999	7615	1.020	0	179	27.1	15.9	0.998	7553	1.012	0	157	26.6
	11.6	5102	11.4	0.980	5035	0.987	0	35	19.5	11.6	1.000	5102	1.000	0	42	28.6
mitre	12.0	1	12.1	1.006	1	1.000	0	0	0.0	12.2	1.017	1	1.000	0	0	0.0
	12.2	1	12.0	0.989	1	1.000	0	0	0.0	12.1	0.994	1	1.000	0	0	0.0
	12.2	1	12.1	0.994	1	1.000	0	0	0.0	12.2	1.002	1	1.000	0	0	0.0
	15.5	1	15.5	0.999	1	1.000	0	0	0.0	15.4	0.993	1	1.000	0	0	0.0
mkc1	5695.1	1704770	3438.2	0.604	951305	0.558	0	3	42.3	limit	<i>1.264</i>	1965655	<i>1.153</i>	0	86	88.1
	167.8	15636	limit	<i>42.652</i>	1703742	<i>108.277</i>	0	23	49.8	88.1	0.528	5444	0.352	0	14	44.7
	36.1	1431	109.8	<i>2.986</i>	12288	<i>8.091</i>	0	1	24.0	54.6	<i>1.498</i>	2990	<i>2.018</i>	0	1	64.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
	limit	2071458	limit	1.000	2101693	1.015	0	33	78.5	6126.8	0.851	1853553	0.895	0	35	70.3
mkc	limit	434115	limit	1.000	613580	<i>1.413</i>	0	61	90.9	limit	1.000	378715	0.872	0	172	156.8
	limit	364203	limit	1.000	508660	<i>1.397</i>	0	187	95.6	limit	1.000	406920	<i>1.117</i>	0	54	166.4
	limit	456507	limit	1.000	498346	<i>1.092</i>	1	345	98.1	limit	1.000	447731	0.981	0	21	158.4
	limit	365047	limit	1.000	608098	<i>1.666</i>	0	310	97.8	limit	1.000	408389	<i>1.119</i>	0	119	167.7
mod008	1.2	1	1.2	1.000	1	1.000	0	0	0.0	1.2	0.991	1	1.000	0	0	0.0
	1.2	1	1.2	1.004	1	1.000	0	0	0.0	1.3	1.009	1	1.000	0	0	0.0
	1.3	1	1.3	1.018	1	1.000	0	0	0.0	1.3	1.004	1	1.000	0	0	0.0
	1.2	1	1.2	0.995	1	1.000	0	0	0.0	1.1	0.991	1	1.000	0	0	0.0
mod010	0.5	2	0.5	1.020	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
	0.6	2	0.6	0.994	2	1.000	0	0	0.0	0.6	1.045	2	1.000	0	0	0.0
	0.5	2	0.5	1.007	2	1.000	0	0	0.0	0.5	0.987	2	1.000	0	0	0.0
	0.8	2	0.8	0.989	2	1.000	0	0	0.0	0.8	1.005	2	1.000	0	0	0.0
mod011	465.9	619	404.6	0.869	586	0.954	0	0	63.3	459.0	0.985	619	1.000	0	0	0.0
	667.9	661	616.0	0.922	683	1.029	0	0	36.4	671.8	1.006	661	1.000	0	0	0.0
	197.0	1136	200.3	1.017	1353	<i>1.176</i>	1	0	32.1	193.9	0.984	1136	1.000	0	0	0.0
	366.3	647	384.9	<i>1.051</i>	696	<i>1.066</i>	0	0	51.4	365.5	0.998	647	1.000	0	0	0.0
modglob	0.6	2	0.6	0.988	2	1.000	0	0	0.0	0.6	1.000	2	1.000	0	0	0.0
	0.5	2	0.5	1.000	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
	0.5	2	0.5	1.000	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
momentum1	limit	10878	limit	1.000	32726	<i>2.990</i>	0	0	89.2	limit	1.000	22201	<i>2.031</i>	0	0	46.3
	limit	37872	limit	1.000	51213	<i>1.351</i>	0	39	54.9	limit	1.000	86613	<i>2.284</i>	0	2	39.6
	limit	18088	limit	1.000	18136	1.003	0	3	72.5	limit	1.000	28862	<i>1.592</i>	0	31	36.1
	limit	85587	limit	1.000	12387	0.146	0	52	52.9	limit	1.000	36856	0.431	0	60	43.4
momentum3	limit	217	limit	1.000	195	0.931	1	84	769.5	limit	1.000	131	0.729	0	0	147.0
	limit	370	limit	1.000	449	<i>1.168</i>	2	139	457.2	limit	1.000	186	0.609	0	7	89.0
	limit	294	limit	1.000	281	0.967	0	59	332.3	limit	1.000	234	0.848	0	0	327.0
	limit	286	limit	1.000	1104	<i>3.119</i>	0	124	397.7	limit	1.000	1178	<i>3.311</i>	0	180	292.1
msc98-ip	limit	4385	limit	1.000	4373	0.997	0	1847	84.7	limit	1.000	6869	<i>1.554</i>	0	1199	90.4
	limit	4452	limit	1.000	3593	0.811	0	886	80.9	limit	1.000	3727	0.841	0	1334	44.5
	limit	5053	limit	1.000	4995	0.989	0	1166	85.3	limit	1.000	12282	<i>2.403</i>	0	2008	55.0
	limit	3524	limit	1.000	6482	<i>1.816</i>	0	437	74.1	limit	1.000	3716	<i>1.053</i>	0	1612	37.7

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
mspp16	460.5	3	461.1	1.001	3	1.000	0	0	0.0	458.9	0.997	3	1.000	0	0	0.0
	463.5	5	457.6	0.987	5	1.000	0	0	0.0	458.2	0.989	5	1.000	0	0	0.0
	446.9	5	441.7	0.988	5	1.000	0	0	0.0	440.7	0.986	5	1.000	0	0	0.0
	416.6	5	413.7	0.993	5	1.000	0	0	0.0	414.8	0.996	5	1.000	0	0	0.0
mzzv11	310.1	2020	369.8	<i>1.192</i>	2672	<i>1.308</i>	0	10	47.0	371.0	<i>1.196</i>	2540	<i>1.245</i>	0	29	38.0
	252.6	833	450.2	<i>1.779</i>	2212	<i>2.478</i>	0	7	127.7	307.8	<i>1.218</i>	1007	<i>1.186</i>	0	18	166.0
	401.2	2039	406.6	1.013	2189	<i>1.070</i>	0	0	187.0	485.6	<i>1.210</i>	3120	<i>1.505</i>	0	60	80.8
	343.1	1629	362.4	<i>1.056</i>	1922	<i>1.169</i>	0	11	36.2	260.2	0.759	968	0.618	0	6	81.3
mzzv42z	200.8	319	157.2	0.784	174	0.654	0	1	74.0	232.8	<i>1.159</i>	387	<i>1.162</i>	1	8	49.0
	202.5	283	207.5	1.024	309	<i>1.068</i>	0	2	27.0	183.3	0.905	236	0.877	0	10	34.0
	186.4	214	188.2	1.010	214	1.000	0	4	60.0	186.3	0.999	214	1.000	0	8	87.0
	169.6	136	224.1	<i>1.319</i>	514	<i>2.602</i>	1	0	33.0	197.2	<i>1.162</i>	204	<i>1.288</i>	0	4	23.0
n3div36	limit	167851	limit	1.000	165867	0.988	0	7	107.0	limit	1.000	164205	0.978	0	12	126.4
	limit	170420	limit	1.000	168468	0.989	0	2	111.1	limit	1.000	168094	0.986	0	4	78.0
	limit	169332	limit	1.000	177416	1.048	0	1	128.0	limit	1.000	179559	<i>1.060</i>	0	19	115.7
	limit	166614	limit	1.000	161986	0.972	0	7	113.0	limit	1.000	165397	0.993	0	5	120.5
n3seq24	limit	274	limit	1.000	257	0.955	0	0	396.3	limit	1.000	307	<i>1.088</i>	0	0	112.0
	limit	795	limit	1.000	1472	<i>1.756</i>	0	0	254.2	limit	1.000	1393	<i>1.668</i>	0	0	63.8
	limit	650	limit	1.000	363	0.617	0	0	351.7	limit	1.000	538	0.851	0	0	74.2
	limit	279	limit	1.000	1313	<i>3.728</i>	1	0	192.9	limit	1.000	673	<i>2.040</i>	0	0	78.9
n4-3	230.6	2733	227.3	0.986	2929	<i>1.069</i>	9	49	32.4	258.1	<i>1.119</i>	3349	<i>1.217</i>	10	41	29.2
	245.6	2239	289.1	<i>1.177</i>	2886	<i>1.277</i>	8	40	40.1	223.0	0.908	1945	0.874	8	28	33.4
	247.6	2467	241.0	0.974	2706	<i>1.093</i>	10	19	32.8	302.6	<i>1.221</i>	3717	<i>1.487</i>	10	48	46.7
	280.5	3101	266.0	0.949	3225	1.039	14	26	34.7	216.2	0.771	2374	0.773	2	24	31.7
nag	limit	48570	limit	1.000	48829	1.005	0	99	115.9	limit	1.000	146194	<i>3.006</i>	0	316	93.7
	limit	74420	limit	1.000	55849	0.751	0	77	132.5	limit	1.000	89041	<i>1.196</i>	0	149	83.3
	limit	105272	limit	1.000	99246	0.943	0	66	85.1	limit	1.000	138843	<i>1.319</i>	1	257	78.8
	limit	31182	limit	1.000	23427	0.752	0	103	111.8	limit	1.000	51567	<i>1.652</i>	0	100	109.4
neos-1053234	4265.2	645570	limit	<i>1.688</i>	1058036	<i>1.639</i>	0	19	60.7	1376.9	0.323	660701	1.023	0	25	32.0
	4338.0	1047806	3184.5	0.734	1208017	<i>1.153</i>	0	23	57.3	441.6	0.102	119766	0.114	0	15	33.3
	952.6	66600	2190.9	<i>2.298</i>	377762	<i>5.665</i>	0	4	63.0	1606.0	<i>1.685</i>	305277	<i>4.578</i>	0	34	32.1
	limit	1179819	limit	1.000	437738	0.371	0	8	59.2	4402.5	0.612	1155822	0.980	0	171	45.7

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-1053591	6.5	2800	5.6	0.878	2493	0.894	1	6	14.5	6.9	<i>1.055</i>	3626	<i>1.285</i>	0	3	15.0
	6.8	5404	3.4	0.567	1568	0.303	0	8	16.0	4.2	0.665	2824	0.531	0	3	18.7
	3.1	1208	3.2	1.030	1364	<i>1.119</i>	0	7	19.0	3.6	<i>1.140</i>	1559	<i>1.268</i>	0	4	16.3
	21.1	17022	23.6	<i>1.113</i>	19713	<i>1.157</i>	0	75	25.8	22.2	1.049	16891	0.992	0	60	26.8
neos-1056905	limit	13652151	limit	1.000	11244197	0.824	0	840	106.5	limit	1.000	7318375	0.536	0	2796	79.4
	limit	12271513	limit	1.000	5416542	0.441	0	2051	75.2	4168.5	0.579	2915687	0.238	0	2577	69.6
	limit	14313346	limit	1.000	12919505	0.903	0	342	82.9	limit	1.000	15101004	<i>1.055</i>	0	2974	79.9
	limit	15601603	limit	1.000	9340429	0.599	0	969	63.4	limit	1.000	12408534	0.795	0	456	72.3
neos-1058477	0.6	1	0.9	<i>1.197</i>	1	1.000	0	0	0.0	0.6	1.000	1	1.000	0	0	0.0
	0.6	1	0.6	0.994	1	1.000	0	0	0.0	0.6	1.019	1	1.000	0	0	0.0
	1.0	1	1.0	1.000	1	1.000	0	0	0.0	1.0	1.010	1	1.000	0	0	0.0
	0.6	1	0.7	<i>1.069</i>	1	1.000	0	0	0.0	0.6	1.000	1	1.000	0	0	0.0
neos-1061020	428.3	2130	374.4	0.874	1553	0.741	0	20	40.8	320.2	0.748	1179	0.574	0	3	120.0
	136.7	547	388.6	<i>2.831</i>	1265	<i>2.110</i>	0	15	60.2	310.6	<i>2.264</i>	1210	<i>2.025</i>	0	46	62.6
	168.9	484	272.5	<i>1.610</i>	841	<i>1.611</i>	0	39	247.5	5373.3	<i>31.631</i>	31152	<i>53.514</i>	0	135	101.3
	328.9	1485	230.7	0.702	857	0.604	0	2	284.3	341.4	1.038	1802	<i>1.200</i>	0	15	119.0
neos-1062641	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
neos-1067731	limit	200544	limit	1.000	196705	0.981	0	65	229.3	limit	1.000	176165	0.878	0	79	220.0
	limit	196399	limit	1.000	186253	0.948	0	61	209.1	limit	1.000	189997	0.967	0	64	173.7
	limit	196617	limit	1.000	208200	<i>1.059</i>	0	90	206.5	limit	1.000	142437	0.725	0	69	165.5
	limit	222043	limit	1.000	146151	0.658	0	48	222.9	limit	1.000	137743	0.621	0	45	205.7
neos-1096528	2267.5	3276	2228.9	0.983	3228	0.986	0	9	34.5	2166.6	0.956	3181	0.972	0	74	23.5
	1873.9	1052	1851.1	0.988	1052	1.000	0	0	0.0	1854.0	0.989	1052	1.000	0	0	0.0
	1629.1	1706	1630.7	1.001	1698	0.996	0	9	35.0	1629.2	1.000	1702	0.998	0	31	23.0
	2108.7	3610	2126.7	1.009	3715	1.028	0	19	55.3	2097.9	0.995	3621	1.003	0	45	28.0
neos-1109824	15.4	110	15.3	0.994	110	1.000	0	0	0.0	15.6	1.008	110	1.000	0	0	0.0
	18.5	114	18.5	1.001	114	1.000	0	0	0.0	18.5	1.000	114	1.000	0	0	0.0
	38.0	388	21.8	0.584	145	0.502	0	6	85.0	26.8	0.713	238	0.693	0	9	10.0
	14.9	64	14.8	0.996	64	1.000	0	0	0.0	15.1	1.014	64	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-1120495	8.0	21	7.8	0.977	21	1.000	0	0	0.0	8.1	1.013	21	1.000	0	0	0.0
	6.3	8	6.3	1.004	8	1.000	0	0	0.0	6.2	0.993	8	1.000	0	0	0.0
	10.9	16	11.0	1.006	16	1.000	0	0	0.0	10.9	1.002	16	1.000	0	0	0.0
	6.3	3	6.2	0.988	3	1.000	0	0	0.0	6.2	0.988	3	1.000	0	0	0.0
neos-1121679	limit	34300440	limit	1.000	33391098	0.973	3	15	33.7	limit	1.000	30534646	0.890	0	12	33.8
	limit	33976691	limit	1.000	32954649	0.970	3	20	33.8	limit	1.000	32978643	0.971	1	11	34.1
	limit	32507153	limit	1.000	33037996	1.016	3	26	33.7	limit	1.000	33788327	1.039	0	16	33.0
	limit	33739808	limit	1.000	35358763	1.048	4	13	33.6	limit	1.000	34521648	1.023	1	25	33.9
neos-1122047	7.1	1	6.9	0.974	1	1.000	0	0	0.0	7.1	1.000	1	1.000	0	0	0.0
	7.0	1	6.6	0.959	1	1.000	0	0	0.0	7.1	1.018	1	1.000	0	0	0.0
	7.0	1	7.0	0.989	1	1.000	0	0	0.0	7.2	1.015	1	1.000	0	0	0.0
	7.2	1	6.9	0.972	1	1.000	0	0	0.0	7.0	0.977	1	1.000	0	0	0.0
neos-1126860	627.4	4187	605.3	0.965	4681	<i>1.115</i>	1	5	20.8	639.7	1.020	4171	0.996	1	58	19.2
	619.8	4406	593.0	0.957	4431	1.006	0	0	20.4	611.1	0.986	4610	1.045	0	17	17.2
	621.7	4401	612.1	0.985	4090	0.931	0	0	21.6	654.5	<i>1.053</i>	4396	0.999	1	58	20.3
	602.8	4417	619.1	1.027	4175	0.946	0	1	21.0	614.6	1.019	4420	1.001	0	26	16.5
neos-1151496	29.7	67	23.4	0.795	89	<i>1.132</i>	0	0	240.0	26.0	0.880	81	<i>1.084</i>	0	0	13.0
	21.7	64	21.6	0.996	64	1.000	0	0	0.0	21.6	0.997	64	1.000	0	0	0.0
	3.1	1	3.2	1.002	1	1.000	0	0	0.0	3.2	1.005	1	1.000	0	0	0.0
	37.9	98	35.9	0.948	81	0.914	0	0	236.0	37.5	0.991	91	0.965	0	0	9.0
neos-1171448	10.4	1	11.2	<i>1.073</i>	1	1.000	0	0	0.0	10.4	1.002	1	1.000	0	0	0.0
	845.0	104	80.0	0.096	120	<i>1.078</i>	0	0	580.0	845.2	1.000	104	1.000	0	0	0.0
	11.7	1	11.0	0.943	1	1.000	0	0	0.0	11.7	0.998	1	1.000	0	0	0.0
	11.4	1	75.6	<i>6.156</i>	89	<i>1.871</i>	0	0	598.0	11.4	0.994	1	1.000	0	0	0.0
neos-1171692	593.8	256	37.5	0.065	241	0.958	0	0	199.0	648.0	<i>1.091</i>	256	1.000	0	0	114.0
	25.9	41	1009.4	<i>37.632</i>	271	<i>2.631</i>	0	1	274.0	25.7	0.995	41	1.000	0	0	0.0
	644.5	143	5.3	0.010	1	0.416	0	0	0.0	177.0	0.276	36	0.560	0	0	0.0
	1017.8	327	90.4	0.090	38	0.323	0	0	0.0	1237.5	<i>1.216</i>	385	<i>1.136</i>	0	0	178.0
neos-1171737	limit	3483	limit	1.000	3256	0.937	0	36	199.2	limit	1.000	3621	1.039	0	0	110.8
	limit	5773	limit	1.000	3809	0.666	0	51	263.0	limit	1.000	5849	1.013	0	93	138.3
	limit	4327	limit	1.000	3713	0.861	0	98	211.9	limit	1.000	8936	<i>2.041</i>	0	161	116.2
	limit	3592	limit	1.000	5451	<i>1.504</i>	0	81	252.2	limit	1.000	3947	<i>1.096</i>	0	41	102.8

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T_Q	N	N_Q	F	C	D_\emptyset	T	T_Q	N	N_Q	F	C	D_\emptyset
neos-1173026	0.6	1	0.5	0.968	1	1.000	0	0	0.0	0.5	0.968	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
neos-1200887	15.3	7506	16.6	<i>1.079</i>	7621	1.015	0	17	33.2	17.3	<i>1.123</i>	7047	0.940	0	0	26.0
	10.4	3101	9.8	0.946	2934	0.948	0	16	36.2	11.4	<i>1.086</i>	3138	1.012	1	17	23.4
	25.8	11277	25.9	1.003	11880	<i>1.053</i>	0	26	33.3	27.6	<i>1.065</i>	11680	1.035	0	45	28.6
	12.6	3179	12.4	0.989	3646	<i>1.142</i>	0	0	32.2	11.2	0.903	3020	0.952	0	18	22.8
neos-1208069	94.6	1710	152.3	<i>1.603</i>	2294	<i>1.323</i>	0	633	73.4	76.6	0.812	1282	0.764	0	109	161.0
	56.7	1079	54.0	0.953	784	0.750	0	9	311.0	79.0	<i>1.386</i>	3291	<i>2.876</i>	0	1125	81.3
	86.7	3420	258.7	<i>2.961</i>	7099	<i>2.045</i>	0	229	201.4	122.5	<i>1.408</i>	4302	<i>1.251</i>	0	969	82.5
	103.6	2677	101.1	0.976	2881	<i>1.073</i>	0	657	121.4	83.2	0.805	2432	0.912	0	226	139.2
neos-1208135	183.7	4128	433.4	<i>2.352</i>	10513	<i>2.510</i>	0	199	233.2	195.4	<i>1.063</i>	2369	0.584	0	56	260.6
	209.4	7144	424.3	<i>2.022</i>	2838	0.406	0	149	293.0	192.4	0.920	1993	0.289	0	50	198.0
	469.5	6178	426.0	0.908	10535	<i>1.694</i>	0	0	228.2	239.9	0.512	3011	0.496	0	17	189.2
	351.1	6358	366.6	1.044	2554	0.411	0	91	180.2	84.4	0.243	665	0.118	0	21	238.3
neos-1211578	7.7	10541	7.5	0.979	10174	0.966	0	74	21.3	6.5	0.872	8858	0.842	0	81	19.6
	1.9	1371	2.1	<i>1.079</i>	1363	0.995	0	28	19.0	2.0	1.017	1353	0.988	0	11	19.8
	4.0	4482	4.7	<i>1.134</i>	5493	<i>1.221</i>	0	100	21.2	4.3	<i>1.070</i>	4651	1.037	0	42	19.6
	5.1	7154	5.6	<i>1.075</i>	7782	<i>1.087</i>	0	77	20.7	5.4	<i>1.052</i>	6991	0.978	0	36	20.3
neos-1215259	43.5	731	61.3	<i>1.399</i>	1123	<i>1.472</i>	0	153	118.3	53.4	<i>1.223</i>	883	<i>1.183</i>	0	27	46.8
	80.8	1522	69.8	0.866	1337	0.886	0	14	76.6	75.8	0.939	1186	0.793	0	100	38.7
	122.2	2871	71.9	0.592	1577	0.564	0	15	112.0	58.4	0.482	1488	0.535	0	43	31.0
	74.9	1683	93.6	<i>1.246</i>	2353	<i>1.376</i>	0	154	51.3	78.7	1.049	1435	0.861	0	42	47.8
neos-1215891	815.2	7858	634.7	0.779	4997	0.640	0	23	414.5	756.2	0.928	8688	<i>1.104</i>	1	160	70.2
	557.4	3360	333.6	0.599	3221	0.960	0	12	471.0	526.2	0.944	3683	<i>1.093</i>	0	434	77.6
	454.3	2260	515.5	<i>1.134</i>	3240	<i>1.415</i>	0	16	458.8	509.9	<i>1.122</i>	3208	<i>1.402</i>	0	142	52.4
	334.1	2777	526.5	<i>1.574</i>	3148	<i>1.129</i>	0	22	378.5	634.0	<i>1.895</i>	5627	<i>1.991</i>	0	299	59.2
neos-1223462	158.7	35	178.6	<i>1.124</i>	67	<i>1.237</i>	0	0	523.0	158.7	1.000	56	<i>1.156</i>	0	0	524.0
	215.3	318	402.4	<i>1.865</i>	565	<i>1.591</i>	0	39	58.0	204.8	0.952	86	0.445	0	11	52.0
	168.6	155	171.9	1.019	155	1.000	0	0	0.0	170.1	1.008	155	1.000	0	0	0.0
	161.8	95	235.9	<i>1.455</i>	705	<i>4.128</i>	0	42	119.0	257.4	<i>1.587</i>	526	<i>3.210</i>	0	9	44.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-1224597	24.9	21	24.9	1.001	21	1.000	0	0	0.0	24.7	0.993	21	1.000	0	0	0.0
	1.1	1	1.2	1.009	1	1.000	0	0	0.0	1.2	1.005	1	1.000	0	0	0.0
	62.1	102	61.9	0.996	102	1.000	0	0	0.0	62.1	1.000	102	1.000	0	0	0.0
	2.5	1	2.5	0.989	1	1.000	0	0	0.0	2.6	1.006	1	1.000	0	0	0.0
neos-1228986	12.1	17883	15.6	<i>1.267</i>	22116	<i>1.235</i>	0	383	23.3	15.2	<i>1.237</i>	23160	<i>1.293</i>	0	206	21.8
	33.2	65779	30.8	0.928	58746	0.893	0	416	24.6	25.5	0.774	43260	0.658	0	334	23.1
	53.6	127626	70.4	<i>1.307</i>	179182	<i>1.404</i>	0	1027	27.1	65.8	<i>1.224</i>	164399	<i>1.288</i>	0	945	24.7
	36.5	79395	24.3	0.675	48140	0.607	0	476	24.4	21.0	0.587	32793	0.414	0	231	22.4
neos-1281048	4.5	10	4.8	1.047	10	1.000	0	0	0.0	4.8	<i>1.064</i>	10	1.000	0	0	0.0
	10.9	162	10.9	1.003	162	1.000	0	0	0.0	10.9	1.001	162	1.000	0	0	0.0
	9.2	56	9.2	0.998	56	1.000	0	0	0.0	9.2	1.003	56	1.000	0	0	0.0
	6.6	28	6.6	1.003	28	1.000	0	0	0.0	6.6	1.003	28	1.000	0	0	0.0
neos-1311124	limit	11591653	limit	1.000	11203516	0.967	0	10654	81.9	limit	1.000	11106201	0.958	0	10500	77.8
	limit	10124593	limit	1.000	11496954	<i>1.136</i>	0	3025	76.7	limit	1.000	10473413	1.034	0	8104	75.7
	limit	10081351	limit	1.000	11180459	<i>1.109</i>	0	5803	82.3	limit	1.000	10963895	<i>1.088</i>	0	5327	76.0
	limit	10687235	limit	1.000	11214017	1.049	0	5214	77.1	limit	1.000	11975561	<i>1.121</i>	0	3332	76.1
neos-1324574	3397.4	26704	2607.7	0.768	16740	0.628	0	51	576.4	991.0	0.292	6301	0.239	0	169	42.6
	3077.0	23757	2740.5	0.891	21201	0.893	0	62	550.1	2962.3	0.963	26844	<i>1.129</i>	0	245	52.1
	333.5	2413	219.2	0.658	1212	0.522	0	10	486.5	230.2	0.691	1173	0.507	0	39	23.0
	1691.1	13365	1781.5	<i>1.053</i>	12780	0.957	0	19	468.3	791.0	0.468	5789	0.437	0	54	41.1
neos-1330346	limit	241496	4998.7	0.694	212094	0.878	0	4718	313.0	4615.9	0.641	211068	0.874	0	1782	79.9
	limit	228497	5874.8	0.816	241604	<i>1.057</i>	0	7163	312.4	4642.9	0.645	185844	0.813	0	12664	82.1
	4985.4	206094	limit	<i>1.444</i>	267956	<i>1.300</i>	0	822	309.0	3598.8	0.722	177559	0.862	0	8273	60.3
	6586.1	210422	5543.4	0.842	228558	<i>1.086</i>	0	4314	314.5	4299.5	0.653	230499	<i>1.095</i>	0	7416	61.1
neos-1330635	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
neos-1337307	limit	550624	limit	1.000	519092	0.943	0	766	72.6	limit	1.000	572372	1.039	0	530	46.2
	limit	540197	limit	1.000	520962	0.964	0	682	74.3	limit	1.000	281332	0.521	0	339	44.5
	limit	623318	limit	1.000	616758	0.989	0	866	69.8	limit	1.000	621340	0.997	0	922	49.2
	limit	604681	limit	1.000	628491	1.039	0	630	68.9	limit	1.000	581707	0.962	0	592	48.3

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-1346382	limit	12652088	limit	1.000	11436191	0.904	0	36595	48.2	limit	1.000	12060292	0.953	0	17286	42.3
	limit	11564496	limit	1.000	9700966	0.839	0	75197	46.2	limit	1.000	10088400	0.872	0	60486	43.5
	limit	13197521	limit	1.000	11557335	0.876	0	28211	45.9	limit	1.000	11090665	0.840	0	33805	42.6
	limit	10929778	limit	1.000	11427824	1.046	0	31876	46.1	limit	1.000	9877437	0.904	0	77951	44.9
neos-1354092	limit	294	limit	1.000	192	0.741	0	4	672.7	limit	1.000	191	0.739	0	5	421.0
	limit	567	limit	1.000	1911	<i>3.015</i>	0	4	614.5	limit	1.000	1048	<i>1.721</i>	0	2	547.2
	limit	182	limit	1.000	101	0.713	0	7	598.3	limit	1.000	164	0.936	0	6	510.2
	limit	441	limit	1.000	879	<i>1.810</i>	0	2	618.0	limit	1.000	672	<i>1.427</i>	0	9	527.7
neos-1367061	27.8	1	27.9	1.005	1	1.000	0	0	0.0	28.4	1.022	1	1.000	0	0	0.0
	30.2	1	30.2	0.999	1	1.000	0	0	0.0	30.2	0.998	1	1.000	0	0	0.0
	31.6	1	31.7	1.001	1	1.000	0	0	0.0	31.6	1.000	1	1.000	0	0	0.0
	32.1	1	32.2	1.003	1	1.000	0	0	0.0	32.3	1.005	1	1.000	0	0	0.0
neos-1396125	89.5	12253	168.3	<i>1.870</i>	15392	<i>1.254</i>	0	40	32.1	74.7	0.837	9564	0.782	0	14	21.0
	195.8	14783	127.6	0.653	8226	0.559	0	86	28.3	217.4	<i>1.110</i>	11058	0.750	0	24	23.5
	94.6	9731	123.5	<i>1.303</i>	10313	<i>1.059</i>	0	25	25.9	102.3	<i>1.081</i>	12153	<i>1.246</i>	0	93	26.2
	158.3	18443	158.3	1.000	12053	0.655	0	70	32.5	192.6	<i>1.215</i>	10429	0.568	0	63	27.5
neos-1407044	limit	68	limit	1.000	81	<i>1.077</i>	0	0	1213.5	limit	1.000	80	<i>1.071</i>	0	0	1303.0
	limit	80	limit	1.000	80	1.000	0	0	1278.0	limit	1.000	77	0.983	0	0	708.0
	limit	65	limit	1.000	89	<i>1.145</i>	0	0	272.0	limit	1.000	70	1.030	0	0	241.0
	limit	90	limit	1.000	78	0.937	0	0	1083.0	limit	1.000	72	0.905	0	0	1080.0
neos-1413153	6.4	3	6.4	1.007	3	1.000	0	0	0.0	6.3	0.999	3	1.000	0	0	0.0
	3.8	2	3.8	0.996	2	1.000	0	0	0.0	3.8	0.998	2	1.000	0	0	0.0
	4.1	2	4.0	0.990	2	1.000	0	0	0.0	4.0	0.992	2	1.000	0	0	0.0
	3.6	2	3.6	1.002	2	1.000	0	0	0.0	3.6	1.002	2	1.000	0	0	0.0
neos-1415183	7.3	2	7.3	0.994	2	1.000	0	0	0.0	7.5	1.025	2	1.000	0	0	0.0
	6.9	2	6.9	1.003	2	1.000	0	0	0.0	6.9	1.001	2	1.000	0	0	0.0
	8.0	2	7.9	0.993	2	1.000	0	0	0.0	7.9	0.991	2	1.000	0	0	0.0
	5.5	1	5.5	0.997	1	1.000	0	0	0.0	5.5	1.002	1	1.000	0	0	0.0
neos-1417043	1732.0	1	1733.6	1.001	1	1.000	0	0	0.0	1731.2	1.000	1	1.000	0	0	0.0
	1531.1	1	1530.4	1.000	1	1.000	0	0	0.0	1531.1	1.000	1	1.000	0	0	0.0
	1617.7	1	1619.8	1.001	1	1.000	0	0	0.0	1624.8	1.004	1	1.000	0	0	0.0
	1503.7	1	1505.2	1.001	1	1.000	0	0	0.0	1506.5	1.002	1	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-1420205	10.1	14141	4.9	0.530	4297	0.309	0	38	29.1	6.2	0.645	6862	0.489	0	44	26.4
	3.5	2689	5.0	<i>1.341</i>	4342	<i>1.593</i>	0	39	28.2	3.1	0.922	2699	1.004	0	23	26.7
	7.3	10217	7.1	0.985	8626	0.846	0	59	27.7	6.7	0.926	8135	0.798	0	98	28.6
	3.4	2902	4.2	<i>1.176</i>	3874	<i>1.324</i>	0	11	28.2	4.6	<i>1.260</i>	5732	<i>1.943</i>	0	18	28.2
neos-1420546	limit	2239	limit	1.000	5848	<i>2.543</i>	0	0	545.0	limit	1.000	2289	1.021	0	0	0.0
	limit	4374	limit	1.000	5479	<i>1.247</i>	0	0	547.5	limit	1.000	4566	1.043	0	0	0.0
	limit	1462	limit	1.000	1935	<i>1.303</i>	0	0	554.1	limit	1.000	1462	1.000	0	0	0.0
	limit	4072	limit	1.000	2687	0.668	0	0	470.4	limit	1.000	4073	1.000	0	0	0.0
neos-1420790	limit	127573	limit	1.000	148296	<i>1.162</i>	0	0	110.8	limit	1.000	134481	<i>1.054</i>	0	0	294.3
	limit	154632	limit	1.000	139648	0.903	0	128	110.3	limit	1.000	117577	0.761	0	0	247.0
	limit	138001	limit	1.000	112886	0.818	0	0	107.4	limit	1.000	111161	0.806	0	0	286.2
	limit	122735	limit	1.000	98065	0.799	0	0	118.0	limit	1.000	106706	0.870	0	0	304.8
neos-1423785	limit	26391	limit	1.000	10681	0.407	0	36	101.2	limit	1.000	38374	<i>1.452</i>	0	19	423.4
	limit	39756	limit	1.000	43289	<i>1.089</i>	0	35	186.7	limit	1.000	31905	0.803	1	58	490.5
	limit	56141	limit	1.000	51489	0.917	0	66	278.2	limit	1.000	48203	0.859	1	56	474.8
	limit	27109	limit	1.000	41725	<i>1.537</i>	0	41	375.1	limit	1.000	27609	1.018	1	55	457.4
neos-1425699	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
neos-1426662	limit	4566559	limit	1.000	4436654	0.972	0	366	68.3	limit	1.000	5672903	<i>1.242</i>	0	920	45.4
	limit	6339847	limit	1.000	5314944	0.838	0	3000	67.6	limit	1.000	6127507	0.967	0	2093	45.3
	limit	6062638	limit	1.000	5602191	0.924	1	1315	66.9	limit	1.000	5393236	0.890	0	4105	43.8
	limit	3031571	limit	1.000	3582059	<i>1.182</i>	1	150	81.9	limit	1.000	3619012	<i>1.194</i>	0	1159	51.4
neos-1427181	2392.6	1395555	5010.0	<i>2.094</i>	1573037	<i>1.127</i>	0	419	72.4	942.3	0.394	675951	0.484	0	926	44.7
	2203.4	2076899	5096.5	<i>2.312</i>	4245564	<i>2.044</i>	0	404	68.5	1603.8	0.728	1346043	0.648	0	843	48.5
	limit	5068437	2838.0	0.394	1890627	0.373	0	521	74.5	4035.7	0.561	2300556	0.454	0	319	44.5
	limit	4777442	1043.4	0.145	874110	0.183	0	398	72.8	1075.3	0.149	817993	0.171	0	397	46.3
neos-1427261	limit	2115433	limit	1.000	1019996	0.482	0	345	95.3	limit	1.000	1809640	0.855	0	271	63.1
	limit	1135306	limit	1.000	2720384	<i>2.396</i>	0	300	93.5	limit	1.000	1086258	0.957	0	387	66.0
	limit	1716909	limit	1.000	1147552	0.668	0	317	93.0	limit	1.000	923048	0.538	0	315	63.6
	limit	4123449	limit	1.000	980822	0.238	0	282	88.4	limit	1.000	2643123	0.641	0	604	66.4

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-1429185	limit	5003699	limit	1.000	5404203	<i>1.080</i>	0	503	62.1	limit	1.000	5700379	<i>1.139</i>	0	524	53.5
	limit	5148536	limit	1.000	5512169	<i>1.071</i>	0	867	60.8	limit	1.000	5223286	1.015	0	432	56.6
	limit	5026739	limit	1.000	5816431	<i>1.157</i>	0	249	62.3	limit	1.000	4907189	0.976	0	443	56.6
	limit	5886519	limit	1.000	4875509	0.828	0	469	66.0	limit	1.000	5559729	0.944	0	1471	60.8
neos-1429212	limit	4635	limit	1.000	11363	<i>2.421</i>	0	277	156.7	limit	1.000	5216	<i>1.123</i>	0	0	990.5
	limit	8876	limit	1.000	5609	0.636	0	237	122.0	limit	1.000	4439	0.506	0	13	852.5
	limit	5837	limit	1.000	5412	0.928	0	599	341.0	limit	1.000	5559	0.953	0	3	945.5
	limit	3919	limit	1.000	5018	<i>1.273</i>	0	291	312.0	limit	1.000	4876	<i>1.238</i>	0	3	929.5
neos-1429461	limit	6714639	limit	1.000	6749722	1.005	0	24315	51.1	limit	1.000	6889826	1.026	0	18217	47.8
	limit	6899835	limit	1.000	7244667	1.050	0	14506	50.9	limit	1.000	6016141	0.872	0	25338	49.2
	limit	7824921	limit	1.000	6369347	0.814	0	39033	52.1	limit	1.000	7053914	0.901	0	33962	47.0
	limit	6403242	limit	1.000	6205480	0.969	0	22537	53.2	limit	1.000	6089830	0.951	0	19390	50.1
neos-1430701	35.4	35157	31.0	0.879	31119	0.885	0	205	29.5	38.5	<i>1.087</i>	40077	<i>1.140</i>	0	316	26.1
	19.0	18768	20.1	<i>1.058</i>	16303	0.869	0	161	30.6	17.6	0.932	15586	0.831	0	258	25.2
	37.2	38753	26.8	0.729	26433	0.683	0	205	28.0	42.2	<i>1.132</i>	49210	<i>1.269</i>	1	472	27.2
	11.2	6707	13.8	<i>1.211</i>	11121	<i>1.648</i>	0	131	27.4	10.8	0.966	6120	0.914	0	128	23.6
neos-1430811	limit	986	limit	1.000	1548	<i>1.517</i>	0	187	931.2	limit	1.000	1041	<i>1.051</i>	0	0	1099.7
	limit	1003	limit	1.000	2058	<i>1.956</i>	0	85	743.4	limit	1.000	831	0.844	0	0	1091.7
	limit	1305	limit	1.000	1351	1.033	0	91	909.9	limit	1.000	985	0.772	0	0	1140.5
	limit	1262	limit	1.000	1525	<i>1.193</i>	0	183	901.7	limit	1.000	1266	1.003	0	0	1176.0
neos-1436709	limit	3493688	limit	1.000	4082734	<i>1.169</i>	0	5576	58.5	limit	1.000	3584478	1.026	0	5950	54.8
	limit	3544380	limit	1.000	3732642	<i>1.053</i>	0	5069	59.1	limit	1.000	3463675	0.977	0	3924	55.1
	limit	3429387	limit	1.000	3657279	<i>1.066</i>	0	8364	60.0	limit	1.000	3460216	1.009	0	4599	55.6
	limit	3617777	limit	1.000	3439058	0.951	0	8075	60.3	limit	1.000	3738664	1.033	0	4285	54.0
neos-1436713	limit	948971	limit	1.000	1050114	<i>1.107</i>	0	160	120.4	limit	1.000	1213222	<i>1.278</i>	0	239	79.3
	limit	1599280	limit	1.000	1714856	<i>1.072</i>	0	271	110.5	limit	1.000	825047	0.516	0	127	79.8
	limit	1354564	limit	1.000	2378033	<i>1.756</i>	0	178	110.0	limit	1.000	638916	0.472	0	254	76.0
	limit	1689187	limit	1.000	1308644	0.775	0	184	116.2	limit	1.000	1096796	0.649	0	208	77.9
neos-1437164	1.1	1	1.0	0.967	1	1.000	0	0	0.0	0.7	0.796	1	1.000	0	0	0.0
	0.7	1	0.7	0.994	1	1.000	0	0	0.0	0.7	0.988	1	1.000	0	0	0.0
	1.1	2	1.1	1.005	2	1.000	0	0	0.0	1.1	0.995	2	1.000	0	0	0.0
	0.7	1	0.7	1.006	1	1.000	0	0	0.0	0.7	1.000	1	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-1439395	128.6	160501	142.1	<i>1.104</i>	193227	<i>1.204</i>	0	1052	34.2	75.5	0.590	91643	0.571	0	483	30.7
	694.8	1021619	640.2	0.922	969820	0.949	0	3176	37.6	569.5	0.820	881350	0.863	0	2566	35.3
	127.0	175742	109.9	0.866	155192	0.883	1	693	33.2	111.2	0.876	155004	0.882	0	613	32.0
	287.9	408814	245.1	0.852	366979	0.898	0	964	36.6	561.7	<i>1.948</i>	878489	<i>2.149</i>	0	2360	35.8
neos-1440225	67.7	2790	35.5	0.532	1345	0.500	0	10	26.0	39.5	0.590	1574	0.579	0	10	74.0
	62.9	2558	79.4	<i>1.258</i>	3402	<i>1.318</i>	0	7	119.0	44.1	0.706	1690	0.673	0	8	158.0
	5.3	3	5.3	1.003	3	1.000	0	0	0.0	5.3	1.003	3	1.000	0	0	0.0
	17.3	259	17.2	0.995	259	1.000	0	0	0.0	17.3	0.998	259	1.000	0	0	0.0
neos-1440447	7.2	4124	8.1	<i>1.108</i>	5142	<i>1.241</i>	0	63	26.4	7.3	1.020	3658	0.890	0	34	21.3
	4.7	2415	3.7	0.821	2105	0.877	0	23	25.9	3.5	0.782	2043	0.852	0	33	21.6
	10.5	7098	10.5	0.997	8147	<i>1.146</i>	0	81	26.9	12.4	<i>1.159</i>	10245	<i>1.437</i>	0	127	23.3
	3.1	1074	3.1	0.995	1249	<i>1.149</i>	0	19	27.6	3.2	1.007	1286	<i>1.181</i>	0	4	24.2
neos-1440457	limit	2742825	limit	1.000	2943940	<i>1.073</i>	0	5460	72.3	limit	1.000	2911141	<i>1.061</i>	0	7097	68.5
	limit	2967055	limit	1.000	2384549	0.804	0	5377	74.3	limit	1.000	2794608	0.942	0	3653	69.9
	limit	3243350	limit	1.000	3023907	0.932	0	6574	70.6	limit	1.000	2905620	0.896	0	8602	68.0
	limit	2484400	limit	1.000	3283815	<i>1.322</i>	0	6399	74.2	limit	1.000	2940017	<i>1.183</i>	0	4679	65.7
neos-1440460	4609.2	5856899	3378.4	0.733	4260679	0.727	0	6886	47.8	3213.2	0.697	4362569	0.745	2	9935	44.4
	limit	9224720	limit	1.000	8139980	0.882	0	15506	49.1	limit	1.000	6606527	0.716	0	24145	47.5
	limit	7027860	limit	1.000	7243157	1.031	0	11676	49.7	limit	1.000	7834504	<i>1.115</i>	0	15653	46.1
	limit	6734276	limit	1.000	6945870	1.031	1	23662	49.7	limit	1.000	7432642	<i>1.104</i>	0	14317	45.6
neos-1441553	2.8	1	2.7	0.987	1	1.000	0	0	0.0	3.1	<i>1.101</i>	1	1.000	0	0	0.0
	3.3	2	3.2	0.979	2	1.000	0	0	0.0	3.2	0.977	2	1.000	0	0	0.0
	4.5	2	4.5	1.000	2	1.000	0	0	0.0	4.5	0.996	2	1.000	0	0	0.0
	2.8	5	2.7	0.997	5	1.000	0	0	0.0	2.8	1.013	5	1.000	0	0	0.0
neos-1442119	limit	2744293	limit	1.000	2895614	<i>1.055</i>	0	9739	63.0	limit	1.000	2783214	1.014	0	3072	57.2
	limit	2701271	limit	1.000	2570477	0.952	0	6508	63.5	limit	1.000	2431827	0.900	0	3809	58.7
	limit	2816183	limit	1.000	2480552	0.881	0	7197	64.4	limit	1.000	2675359	0.950	0	4846	63.0
	limit	2765828	limit	1.000	2577423	0.932	0	4785	65.7	limit	1.000	2583663	0.934	0	2957	58.3
neos-1442657	limit	3999231	limit	1.000	3425428	0.857	0	12637	57.0	limit	1.000	3677872	0.920	1	11021	52.3
	limit	3302164	limit	1.000	3034775	0.919	0	8948	57.3	limit	1.000	3483745	<i>1.055</i>	0	15353	53.2
	limit	3647668	limit	1.000	3967245	<i>1.088</i>	0	12284	56.6	limit	1.000	3631569	0.996	1	16053	52.4
	limit	3627019	limit	1.000	3637813	1.003	0	18633	56.5	limit	1.000	3308716	0.912	0	14235	53.5

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T_Q	N	N_Q	F	C	D_\emptyset	T	T_Q	N	N_Q	F	C	D_\emptyset
neos-1445532	limit	1351	limit	1.000	1671	<i>1.221</i>	0	136	63.9	limit	1.000	939	0.716	1	271	48.6
	limit	508	limit	1.000	444	0.895	0	240	57.1	limit	1.000	624	<i>1.191</i>	1	546	55.8
	limit	657	limit	1.000	745	<i>1.116</i>	1	84	80.1	limit	1.000	647	0.987	1	113	47.8
	limit	868	limit	1.000	1309	<i>1.456</i>	1	63	58.7	limit	1.000	1013	<i>1.150</i>	1	932	65.1
neos-1445738	limit	20423	limit	1.000	22762	<i>1.114</i>	0	40	98.0	limit	1.000	15661	0.768	1	44	52.3
	limit	18575	limit	1.000	18994	1.022	2	121	80.2	limit	1.000	17291	0.931	5	390	56.9
	limit	14035	limit	1.000	13782	0.982	1	84	100.7	limit	1.000	13213	0.942	1	101	61.9
	limit	26942	limit	1.000	29902	<i>1.109</i>	0	0	108.5	limit	1.000	26232	0.974	0	21	51.9
neos-1445743	52.8	3	54.2	1.026	3	1.000	0	0	0.0	52.7	0.999	3	1.000	0	0	0.0
	62.1	3	62.2	1.002	3	1.000	0	0	0.0	61.8	0.995	3	1.000	0	0	0.0
	52.2	3	52.7	1.010	3	1.000	0	0	0.0	52.3	1.003	3	1.000	0	0	0.0
	63.4	3	63.5	1.002	3	1.000	0	0	0.0	64.5	1.017	3	1.000	0	0	0.0
neos-1445755	60.7	3	61.0	1.004	3	1.000	0	0	0.0	61.1	1.007	3	1.000	0	0	0.0
	56.6	3	56.7	1.001	3	1.000	0	0	0.0	56.5	0.998	3	1.000	0	0	0.0
	58.2	3	57.9	0.995	3	1.000	0	0	0.0	57.5	0.987	3	1.000	0	0	0.0
	67.0	4	67.7	1.010	4	1.000	0	0	0.0	67.1	1.001	4	1.000	0	0	0.0
neos-1445765	67.4	86	67.5	1.002	86	1.000	0	0	0.0	66.9	0.993	86	1.000	0	0	0.0
	83.5	3	83.4	0.999	3	1.000	0	0	0.0	82.2	0.985	3	1.000	0	0	0.0
	97.6	7	99.6	1.020	7	1.000	0	0	0.0	97.3	0.997	7	1.000	0	0	0.0
	67.6	91	65.8	0.974	91	1.000	0	0	0.0	67.3	0.996	91	1.000	0	0	0.0
neos-1451294	1581.4	3462	593.7	0.376	886	0.277	0	169	89.1	450.5	0.285	393	0.138	0	21	124.5
	2230.7	6352	3493.6	<i>1.566</i>	5972	0.941	0	147	60.5	2596.9	<i>1.164</i>	4692	0.743	0	166	87.3
	1322.4	3693	1096.2	0.829	2965	0.808	0	443	45.6	1517.6	<i>1.148</i>	3916	<i>1.059</i>	0	123	118.5
	3620.2	20251	1661.2	0.459	5308	0.266	0	286	73.5	2005.2	0.554	11750	0.582	0	292	78.7
neos-1456979	limit	22764	limit	1.000	95857	<i>4.197</i>	0	618	60.4	limit	1.000	38892	<i>1.705</i>	0	378	53.1
	limit	22013	limit	1.000	32133	<i>1.458</i>	0	344	71.6	limit	1.000	120914	<i>5.473</i>	0	1221	45.5
	limit	27195	3303.3	0.459	120347	<i>4.413</i>	0	786	52.1	limit	1.000	31847	<i>1.170</i>	0	259	42.9
	6417.5	116850	limit	<i>1.122</i>	35691	0.306	0	193	85.0	limit	<i>1.122</i>	31539	0.271	0	336	41.4
neos-1460246	limit	3801136	limit	1.000	4514836	<i>1.188</i>	0	1473	49.4	limit	1.000	5135211	<i>1.351</i>	0	2539	50.3
	limit	5280019	limit	1.000	3517950	0.666	0	679	52.2	limit	1.000	4377264	0.829	0	433	53.5
	limit	3388568	limit	1.000	3919735	<i>1.157</i>	0	780	52.4	limit	1.000	4038543	<i>1.192</i>	0	743	49.5
	limit	3701943	limit	1.000	4559471	<i>1.232</i>	0	714	50.1	limit	1.000	3680684	0.994	0	1435	55.6

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-1460265	10.1	341	7.3	0.750	60	0.363	0	1	102.0	7.1	0.729	121	0.501	0	1	58.0
	5.9	83	6.5	<i>1.082</i>	94	<i>1.060</i>	0	7	40.0	7.7	<i>1.251</i>	96	<i>1.071</i>	0	0	0.0
	3.0	1	3.2	1.030	1	1.000	0	0	0.0	3.1	1.020	1	1.000	0	0	0.0
	7.3	120	5.1	0.736	42	0.645	0	0	0.0	5.0	0.722	42	0.645	0	0	0.0
neos-1460543	limit	20801	limit	1.000	17296	0.832	0	0	413.7	limit	1.000	16343	0.787	0	0	448.0
	limit	7875	limit	1.000	19330	<i>2.436</i>	0	0	419.9	limit	1.000	33230	<i>4.179</i>	0	0	461.0
	limit	16144	limit	1.000	31158	<i>1.924</i>	0	0	419.5	limit	1.000	12253	0.760	0	0	441.7
	limit	22114	limit	1.000	14494	0.657	0	0	430.4	limit	1.000	15622	0.708	0	4	365.0
neos-1460641	limit	585894	limit	1.000	699788	<i>1.194</i>	0	596	158.8	limit	1.000	585364	0.999	0	449	215.1
	limit	524768	limit	1.000	627871	<i>1.196</i>	0	452	149.5	limit	1.000	659017	<i>1.256</i>	0	544	209.9
	limit	615102	limit	1.000	616282	1.002	0	450	160.1	limit	1.000	518992	0.844	0	291	247.0
	limit	617955	limit	1.000	687210	<i>1.112</i>	0	386	173.6	limit	1.000	425191	0.688	0	313	229.4
neos-1461051	39.8	3694	40.7	1.021	3960	<i>1.070</i>	0	5	18.0	37.2	0.935	3542	0.960	0	3	18.0
	36.8	2539	36.8	1.001	2539	1.000	0	0	0.0	36.6	0.995	2539	1.000	0	0	0.0
	48.2	4164	48.0	0.997	4164	1.000	0	0	0.0	48.1	0.999	4164	1.000	0	0	0.0
	40.5	3816	40.6	1.003	3816	1.000	0	0	0.0	40.6	1.002	3816	1.000	0	0	0.0
neos-1464762	limit	790473	limit	1.000	918081	<i>1.161</i>	0	406	302.5	limit	1.000	725833	0.918	0	1226	167.9
	limit	704985	limit	1.000	764406	<i>1.084</i>	0	289	379.0	limit	1.000	968249	<i>1.373</i>	0	903	171.8
	limit	870777	limit	1.000	403902	0.464	0	1231	259.6	limit	1.000	484279	0.556	0	3179	164.2
	limit	499124	limit	1.000	686472	<i>1.375</i>	0	372	287.3	limit	1.000	476782	0.955	0	3315	168.6
neos-1467067	limit	9290197	limit	1.000	9384002	1.010	0	10085	46.8	limit	1.000	9719434	1.046	0	10961	41.3
	limit	10490236	limit	1.000	10612547	1.012	0	15841	46.3	limit	1.000	10638389	1.014	0	20529	41.5
	limit	10106933	limit	1.000	9015310	0.892	0	13986	45.5	limit	1.000	10415056	1.030	0	11168	40.0
	limit	8401202	limit	1.000	10787940	<i>1.284</i>	0	23324	45.5	limit	1.000	9148285	<i>1.089</i>	0	12384	41.1
neos-1467371	limit	605077	limit	1.000	951942	<i>1.573</i>	0	543	261.1	limit	1.000	829215	<i>1.370</i>	0	589	160.5
	limit	466861	limit	1.000	906973	<i>1.943</i>	0	433	257.9	limit	1.000	629307	<i>1.348</i>	0	733	160.2
	limit	662648	limit	1.000	690069	1.041	0	415	267.5	limit	1.000	254522	0.384	0	950	153.3
	limit	414250	limit	1.000	591462	<i>1.428</i>	0	251	289.5	limit	1.000	732426	<i>1.768</i>	0	2425	175.9
neos-1467467	limit	187492	limit	1.000	185504	0.989	0	100	375.5	limit	1.000	148781	0.794	0	381	153.8
	limit	141831	limit	1.000	180971	<i>1.276</i>	0	96	407.5	limit	1.000	197746	<i>1.394</i>	0	240	155.3
	limit	252598	limit	1.000	152842	0.605	0	157	375.1	limit	1.000	159141	0.630	0	249	149.8
	limit	189118	limit	1.000	178289	0.943	0	58	458.2	limit	1.000	152865	0.808	0	95	172.6

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-1480121	3.1	6441	4.0	<i>1.226</i>	8588	<i>1.328</i>	0	0	41.9	3.3	1.049	7190	<i>1.115</i>	0	0	41.6
	0.6	41	0.6	1.038	106	<i>1.461</i>	0	0	0.0	0.6	1.019	107	<i>1.468</i>	0	0	0.0
	16.6	207	16.4	0.990	207	1.000	0	0	0.0	16.5	0.994	207	1.000	0	0	0.0
	2.2	3109	1.1	0.659	858	0.299	0	5	18.8	1.1	0.663	1321	0.443	0	6	23.2
neos-1489999	3.9	30	3.9	0.998	30	1.000	0	0	0.0	4.2	<i>1.076</i>	30	1.000	0	0	0.0
	3.4	23	3.4	1.000	23	1.000	0	0	0.0	3.5	1.009	23	1.000	0	0	0.0
	3.4	31	3.4	1.014	31	1.000	0	0	0.0	3.4	1.007	31	1.000	0	0	0.0
	4.0	26	3.9	0.988	26	1.000	0	0	0.0	3.8	0.972	26	1.000	0	0	0.0
neos-1516309	0.9	1	0.6	0.824	1	1.000	0	0	0.0	0.5	0.814	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
neos-1582420	39.6	494	42.8	<i>1.079</i>	712	<i>1.367</i>	0	11	52.0	29.4	0.751	198	0.502	0	6	165.0
	34.5	460	34.2	0.990	460	1.000	0	0	0.0	34.3	0.994	460	1.000	0	0	0.0
	41.6	234	35.4	0.853	237	1.009	0	0	0.0	34.4	0.831	225	0.973	0	0	0.0
	46.6	14	46.5	0.999	14	1.000	0	0	0.0	46.2	0.991	14	1.000	0	0	0.0
neos-1593097	limit	63397	limit	1.000	48493	0.765	0	554	296.1	limit	1.000	53881	0.850	0	1174	104.0
	limit	37108	limit	1.000	36296	0.978	0	575	229.8	limit	1.000	43824	<i>1.180</i>	0	1307	88.9
	limit	61059	limit	1.000	46014	0.754	0	872	228.6	limit	1.000	57185	0.937	0	2052	113.3
	limit	34145	limit	1.000	44450	<i>1.301</i>	0	1228	204.7	limit	1.000	41328	<i>1.210</i>	0	331	91.5
neos-1595230	299.6	45171	289.4	0.966	38974	0.863	0	125	89.3	273.4	0.913	36783	0.815	0	285	30.9
	1022.8	202417	412.8	0.404	63703	0.315	0	121	88.0	1073.6	1.050	217973	<i>1.077</i>	0	158	29.9
	255.8	39419	248.3	0.971	35227	0.894	0	50	88.3	292.9	<i>1.144</i>	47002	<i>1.192</i>	0	197	38.6
	681.5	97082	696.6	1.022	99743	1.027	0	50	99.0	666.0	0.977	105447	<i>1.086</i>	0	111	33.6
neos-1597104	237.9	5	240.3	1.010	5	1.000	0	0	0.0	237.8	0.999	5	1.000	0	0	0.0
	234.3	5	232.6	0.993	5	1.000	0	0	0.0	232.5	0.992	5	1.000	0	0	0.0
	245.1	5	245.8	1.003	5	1.000	0	0	0.0	242.5	0.990	5	1.000	0	0	0.0
	335.6	12	335.7	1.000	12	1.000	0	0	0.0	319.9	0.954	6	0.946	0	0	0.0
neos-1599274	1.2	1	1.3	1.018	1	1.000	0	0	0.0	1.3	1.013	1	1.000	0	0	0.0
	1.1	1	1.1	0.991	1	1.000	0	0	0.0	1.1	1.005	1	1.000	0	0	0.0
	0.9	1	0.9	1.038	1	1.000	0	0	0.0	0.9	1.016	1	1.000	0	0	0.0
	1.0	1	1.1	1.020	1	1.000	0	0	0.0	1.0	1.000	1	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-1601936	6810.1	7493	3807.7	0.559	5687	0.762	0	150	293.2	4029.8	0.592	5844	0.783	0	4	375.4
	limit	6513	limit	1.000	7280	<i>1.116</i>	0	373	317.3	limit	1.000	12104	<i>1.845</i>	0	57	320.1
	3382.5	5888	5916.6	<i>1.749</i>	12107	<i>2.039</i>	0	1558	181.9	3205.3	0.948	5537	0.941	0	213	284.8
	limit	22784	2278.2	0.317	1106	0.053	0	240	255.4	2586.9	0.359	3658	0.164	0	232	249.0
neos-1603512	3.1	13	2.9	0.954	13	1.000	0	0	0.0	3.0	0.973	13	1.000	0	0	0.0
	2.2	14	2.2	1.003	14	1.000	0	0	0.0	2.3	1.015	14	1.000	0	0	0.0
	3.5	23	3.5	1.011	23	1.000	0	21	21.0	2.8	0.859	8	0.878	1	0	58.0
	2.5	11	2.5	0.989	11	1.000	0	0	0.0	2.6	1.006	11	1.000	0	0	0.0
neos-1603518	8.3	26	7.8	0.950	27	1.008	0	33	26.0	8.8	<i>1.060</i>	32	1.048	0	2	31.0
	8.3	31	8.3	0.999	31	1.000	0	0	0.0	8.4	1.001	31	1.000	0	0	0.0
	9.5	44	9.4	0.997	44	1.000	0	0	0.0	9.5	1.005	44	1.000	0	0	0.0
	8.7	31	9.3	<i>1.063</i>	35	1.031	0	39	23.0	10.9	<i>1.231</i>	48	<i>1.130</i>	0	8	93.0
neos-1605061	limit	875	limit	1.000	862	0.987	0	13	478.4	limit	1.000	592	0.710	0	4	237.0
	limit	872	limit	1.000	849	0.976	0	16	495.5	limit	1.000	987	<i>1.118</i>	0	22	162.5
	limit	805	limit	1.000	963	<i>1.175</i>	0	27	455.5	limit	1.000	705	0.890	0	5	299.8
	limit	796	limit	1.000	652	0.839	0	4	376.4	limit	1.000	790	0.993	0	28	274.0
neos-1605075	limit	3792	4995.2	0.694	1724	0.469	0	42	379.8	7004.0	0.973	3460	0.915	0	569	216.0
	limit	8303	6666.6	0.926	7388	0.891	0	124	296.6	limit	1.000	10799	<i>1.297</i>	0	326	231.6
	4402.8	1754	limit	<i>1.635</i>	5106	<i>2.808</i>	0	253	342.2	limit	<i>1.635</i>	5838	<i>3.203</i>	0	184	222.4
	limit	4353	limit	1.000	2908	0.675	0	110	386.8	limit	1.000	2071	0.488	0	88	412.8
neos-1616732	5630.2	1355685	4503.3	0.800	1006387	0.742	0	0	35.8	5626.3	0.999	1355685	1.000	0	0	0.0
	5096.6	1368476	4623.3	0.907	1126050	0.823	0	0	35.8	5082.6	0.997	1368476	1.000	0	0	0.0
	4106.7	1166055	4010.5	0.977	1193963	1.024	0	0	38.4	4130.2	1.006	1166055	1.000	0	0	0.0
	3857.7	1010100	3837.7	0.995	968298	0.959	0	0	37.3	3866.4	1.002	1010100	1.000	0	0	0.0
neos-1620770	limit	1534346	limit	1.000	1802725	<i>1.175</i>	0	46836	33.3	limit	1.000	1370375	0.893	0	35417	33.8
	limit	1861794	limit	1.000	1786068	0.959	0	51068	34.0	limit	1.000	1574495	0.846	0	99493	29.9
	limit	1500316	limit	1.000	1252537	0.835	0	227888	32.5	limit	1.000	1729156	<i>1.153</i>	0	83548	31.8
	limit	1675101	limit	1.000	1433144	0.856	0	65667	33.4	limit	1.000	1639501	0.979	0	30571	32.6
neos-1620807	9.0	2668	9.2	1.020	2706	1.014	0	100	19.5	9.0	1.007	2696	1.010	0	83	17.3
	6.4	665	5.6	0.896	665	1.000	0	0	0.0	5.6	0.896	665	1.000	0	0	0.0
	8.3	1432	8.4	1.007	1388	0.971	0	143	20.6	8.4	1.007	1398	0.978	0	141	18.7
	8.5	355	8.5	1.001	355	1.000	0	0	0.0	8.4	0.991	355	1.000	0	0	0.0

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Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-1622252	2841.1	774122	5207.4	<i>1.833</i>	1285515	<i>1.661</i>	0	115234	33.4	limit	<i>2.534</i>	1554272	<i>2.008</i>	0	291014	33.2
	2561.8	699877	2651.7	1.035	716449	1.024	0	97447	31.7	3614.5	<i>1.411</i>	964131	<i>1.378</i>	0	126843	30.7
	limit	1415241	limit	1.000	1298991	0.918	0	496675	38.8	limit	1.000	1120971	0.792	0	405818	35.9
	limit	1529176	3292.9	0.457	976272	0.638	0	153624	35.5	2323.9	0.323	719028	0.470	0	103400	29.0
neos-430149	42.0	32482	41.4	0.986	31870	0.981	0	86	36.7	33.5	0.804	23998	0.740	0	93	30.9
	49.3	44565	45.3	0.920	37959	0.852	0	90	32.6	36.5	0.745	30015	0.674	0	78	28.0
	34.0	26559	35.7	1.049	28281	<i>1.065</i>	0	66	36.5	34.5	1.013	27640	1.041	0	118	31.1
	40.5	31132	34.2	0.847	25965	0.835	0	111	34.1	28.8	0.718	21817	0.702	0	82	29.5
neos-476283	170.2	476	174.0	1.022	405	0.877	0	5	24.5	177.3	1.041	386	0.844	0	7	26.0
	174.9	338	173.6	0.992	444	<i>1.242</i>	0	0	20.0	181.4	1.037	444	<i>1.242</i>	0	0	20.0
	247.1	684	224.6	0.909	505	0.772	0	3	30.0	248.6	1.006	623	0.922	0	12	30.5
	173.9	488	149.2	0.858	321	0.716	0	7	19.5	179.6	1.033	454	0.942	0	9	27.3
neos-480878	70.4	12806	85.0	<i>1.205</i>	19056	<i>1.484</i>	0	100	33.1	46.6	0.667	8490	0.666	0	75	31.7
	68.6	15473	61.2	0.895	9831	0.638	1	53	33.5	77.0	<i>1.121</i>	14191	0.918	1	106	31.2
	48.2	9983	67.1	<i>1.385</i>	12219	<i>1.222</i>	0	85	32.8	55.1	<i>1.140</i>	10050	1.007	0	71	31.6
	54.5	10095	62.3	<i>1.141</i>	12264	<i>1.213</i>	1	65	35.6	63.9	<i>1.169</i>	12038	<i>1.191</i>	1	94	30.4
neos-494568	19.9	6	20.0	1.003	6	1.000	0	0	0.0	19.6	0.986	6	1.000	0	0	0.0
	29.1	6	25.5	0.880	6	1.000	0	0	0.0	21.4	0.744	6	1.000	0	0	0.0
	29.1	6	25.6	0.882	6	1.000	0	0	0.0	27.2	0.936	6	1.000	0	0	0.0
	20.0	6	20.2	1.010	6	1.000	0	0	0.0	19.1	0.954	6	1.000	0	0	0.0
neos-495307	limit	116210	limit	1.000	136803	<i>1.177</i>	83	3	563.2	limit	1.000	153035	<i>1.317</i>	5	32	257.3
	limit	151387	limit	1.000	116123	0.767	45	4	351.9	limit	1.000	177932	<i>1.175</i>	44	137	141.8
	limit	168639	limit	1.000	198298	<i>1.176</i>	45	15	332.0	limit	1.000	155163	0.920	45	119	139.8
	limit	137174	limit	1.000	156616	<i>1.142</i>	10	4	702.8	limit	1.000	175271	<i>1.278</i>	5	25	204.8
neos-498623	34.4	6	32.5	0.945	6	1.000	0	0	0.0	26.1	0.766	6	1.000	0	0	0.0
	30.1	6	32.5	<i>1.077</i>	6	1.000	0	0	0.0	44.5	<i>1.464</i>	8	1.019	0	0	46.0
	39.8	8	59.5	<i>1.485</i>	21	<i>1.120</i>	0	0	0.0	58.8	<i>1.467</i>	21	<i>1.120</i>	0	0	0.0
	52.9	17	43.5	0.826	14	0.974	0	0	0.0	32.9	0.630	6	0.906	0	0	0.0
neos-501453	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0

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Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T_Q	N	N_Q	F	C	D_\emptyset	T	T_Q	N	N_Q	F	C	D_\emptyset
neos-501474	0.5	2	0.5	1.000	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
	0.5	2	0.5	1.000	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
	0.5	2	0.5	1.000	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
	0.8	4	0.8	1.023	4	1.000	0	0	0.0	0.8	1.006	4	1.000	0	0	0.0
neos-503737	329.2	6452	749.4	<i>2.273</i>	28994	<i>4.440</i>	0	194	101.9	310.3	0.943	4762	0.742	0	148	171.6
	432.2	12109	802.1	<i>1.854</i>	39762	<i>3.265</i>	0	923	86.7	219.5	0.509	4241	0.356	0	542	75.4
	42.2	204	179.8	<i>4.182</i>	2168	<i>7.461</i>	0	367	93.7	153.8	<i>3.583</i>	1409	<i>4.964</i>	0	0	242.2
	139.8	2236	171.2	<i>1.223</i>	2987	<i>1.321</i>	0	205	105.8	93.5	0.671	982	0.463	0	44	147.8
neos-504674	58.8	6658	71.0	<i>1.203</i>	7974	<i>1.195</i>	1	29	25.8	62.3	<i>1.057</i>	6948	1.043	0	28	25.0
	43.9	4584	61.0	<i>1.381</i>	9049	<i>1.953</i>	1	30	24.9	50.8	<i>1.154</i>	4696	1.024	0	7	24.9
	45.8	5412	50.8	<i>1.106</i>	7268	<i>1.337</i>	0	38	24.2	40.7	0.891	5876	<i>1.084</i>	0	12	26.8
	45.6	4839	49.7	<i>1.088</i>	5572	<i>1.148</i>	0	10	19.6	48.1	<i>1.055</i>	5271	<i>1.087</i>	0	19	24.4
neos-504815	21.5	2382	25.7	<i>1.187</i>	2922	<i>1.218</i>	1	10	21.0	26.0	<i>1.203</i>	3293	<i>1.367</i>	0	17	23.2
	21.1	2737	20.5	0.969	2964	<i>1.080</i>	0	10	25.0	22.8	<i>1.075</i>	3168	<i>1.152</i>	1	11	24.2
	21.7	2555	22.6	1.040	3753	<i>1.451</i>	2	18	24.1	20.1	0.929	2533	0.992	0	10	17.5
	22.6	2749	23.3	1.030	3466	<i>1.252</i>	0	19	21.7	21.2	0.941	2799	1.018	0	14	16.0
neos-506422	48.2	2953	56.6	<i>1.171</i>	4863	<i>1.626</i>	0	10	33.4	62.2	<i>1.286</i>	5415	<i>1.806</i>	1	88	25.1
	114.0	12171	82.5	0.727	5962	0.494	0	24	29.9	70.0	0.617	5012	0.417	0	32	23.7
	78.2	5728	80.3	1.026	6295	<i>1.097</i>	0	19	32.8	71.2	0.911	5440	0.951	0	31	27.2
	76.5	6311	63.9	0.837	4681	0.746	0	15	29.8	27.9	0.372	1231	0.208	0	8	24.8
neos-506428	4208.3	492	3851.7	0.915	291	0.660	0	122	45.3	4928.6	<i>1.171</i>	250	0.591	0	70	29.0
	4046.8	280	5524.3	<i>1.365</i>	230	0.868	0	138	39.0	6529.4	<i>1.613</i>	250	0.921	0	124	25.3
	3102.7	261	5933.1	<i>1.912</i>	669	<i>2.130</i>	0	132	29.2	4698.6	<i>1.514</i>	640	<i>2.050</i>	0	93	44.7
	limit	823	4832.6	0.671	494	0.644	0	2	30.0	limit	1.000	668	0.832	0	2	5.0
neos-512201	36.3	3078	35.6	0.983	3009	0.978	0	14	29.6	43.6	<i>1.197</i>	3912	<i>1.262</i>	0	13	25.8
	28.4	2478	30.4	<i>1.068</i>	2635	<i>1.061</i>	1	5	28.8	28.1	0.993	2155	0.875	0	8	25.8
	25.6	1679	29.9	<i>1.163</i>	3373	<i>1.952</i>	0	7	25.7	32.5	<i>1.257</i>	4201	<i>2.418</i>	0	4	29.3
	30.6	2408	29.6	0.969	2500	1.037	0	7	22.3	29.0	0.949	2137	0.892	0	5	30.7
neos-522351	2.2	1	2.1	0.969	1	1.000	0	0	0.0	2.1	0.963	1	1.000	0	0	0.0
	2.1	1	2.1	1.000	1	1.000	0	0	0.0	2.1	0.997	1	1.000	0	0	0.0
	1.7	2	1.7	1.007	2	1.000	0	0	0.0	1.7	1.011	2	1.000	0	0	0.0
	1.2	1	1.2	0.991	1	1.000	0	0	0.0	1.2	0.987	1	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-525149	2.6	1	2.5	0.994	1	1.000	0	0	0.0	2.5	0.994	1	1.000	0	0	0.0
	3.0	1	3.0	0.998	1	1.000	0	0	0.0	3.0	0.988	1	1.000	0	0	0.0
	3.4	2	3.4	0.989	2	1.000	0	0	0.0	3.4	0.993	2	1.000	0	0	0.0
	2.0	1	2.0	1.013	1	1.000	0	0	0.0	1.9	0.987	1	1.000	0	0	0.0
neos-530627	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
neos-538867	80.0	23039	96.3	<i>1.201</i>	23809	1.033	0	280	38.9	107.4	<i>1.338</i>	29331	<i>1.272</i>	0	405	36.4
	133.2	35879	112.8	0.848	32887	0.917	0	124	46.3	145.2	<i>1.089</i>	36335	1.013	0	122	44.2
	55.2	20539	75.6	<i>1.363</i>	27978	<i>1.360</i>	0	292	34.7	80.7	<i>1.453</i>	28003	<i>1.362</i>	0	263	38.6
	113.9	28014	141.0	<i>1.236</i>	33245	<i>1.186</i>	0	157	41.2	144.3	<i>1.265</i>	34801	<i>1.241</i>	0	127	34.4
neos-538916	41.2	5447	41.2	0.999	5488	1.007	0	60	29.6	40.7	0.989	5554	1.019	1	74	37.9
	33.5	3623	33.3	0.993	3728	1.028	0	64	26.1	33.2	0.992	3918	<i>1.079</i>	0	97	28.1
	49.3	8663	36.6	0.747	6245	0.724	0	67	38.8	45.1	0.916	7424	0.859	0	163	36.2
	69.8	11679	58.0	0.833	8110	0.697	0	151	31.5	53.7	0.772	7954	0.684	0	132	32.8
neos-544324	51.4	97	63.6	<i>1.232</i>	206	<i>1.553</i>	0	0	327.0	64.7	<i>1.253</i>	205	<i>1.548</i>	0	83	27.0
	54.9	119	54.3	0.989	119	1.000	0	0	0.0	54.8	0.998	119	1.000	0	0	0.0
	46.8	21	52.7	<i>1.123</i>	54	<i>1.273</i>	0	0	0.0	47.3	1.009	21	1.000	0	0	0.0
	51.0	46	51.2	1.005	46	1.000	0	0	0.0	51.6	1.011	46	1.000	0	0	0.0
neos-547911	25.2	158	25.1	0.998	158	1.000	0	0	0.0	24.8	0.986	158	1.000	0	0	0.0
	82.0	1207	22.2	0.280	133	0.178	0	7	136.0	21.2	0.267	129	0.175	0	13	25.0
	24.4	122	24.6	1.006	122	1.000	0	0	0.0	24.8	1.012	122	1.000	0	0	0.0
	9.5	3	9.3	0.988	3	1.000	0	0	0.0	9.1	0.965	3	1.000	0	0	0.0
neos-548047	limit	45273	limit	1.000	33893	0.749	0	73	366.4	limit	1.000	43426	0.959	0	117	60.7
	limit	27321	limit	1.000	31074	<i>1.137</i>	0	25	359.2	limit	1.000	30006	<i>1.098</i>	0	251	71.8
	limit	35950	limit	1.000	40213	<i>1.118</i>	0	120	337.7	limit	1.000	32726	0.911	0	229	46.2
	limit	26322	limit	1.000	47646	<i>1.807</i>	0	80	462.3	limit	1.000	44383	<i>1.684</i>	0	335	53.7
neos-548251	limit	2966027	limit	1.000	3219640	<i>1.086</i>	0	337	85.7	limit	1.000	3422153	<i>1.154</i>	0	356	76.9
	limit	3522835	limit	1.000	3288402	0.933	0	252	91.5	limit	1.000	3254071	0.924	0	561	76.7
	limit	3098822	limit	1.000	2885353	0.931	0	493	104.9	limit	1.000	2756627	0.890	0	372	69.6
	limit	2874265	limit	1.000	2977842	1.036	0	347	95.6	limit	1.000	2911441	1.013	0	254	79.8

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-551991	151.6	523	176.0	<i>1.160</i>	615	<i>1.148</i>	0	40	103.4	178.7	<i>1.178</i>	556	<i>1.053</i>	0	48	23.2
	150.3	522	130.8	0.871	665	<i>1.230</i>	0	30	100.7	217.2	<i>1.442</i>	813	<i>1.468</i>	0	158	29.5
	159.5	589	182.6	<i>1.144</i>	575	0.980	0	27	98.4	190.6	<i>1.194</i>	675	<i>1.125</i>	0	63	38.3
	227.2	902	344.6	<i>1.515</i>	1527	<i>1.624</i>	0	35	105.8	290.4	<i>1.277</i>	1541	<i>1.638</i>	0	65	38.4
neos-555001	1.9	1	1.6	0.884	1	1.000	0	0	0.0	1.8	0.952	1	1.000	0	0	0.0
	1.0	1	0.9	0.990	1	1.000	0	0	0.0	0.9	0.980	1	1.000	0	0	0.0
	1.1	1	1.1	1.015	1	1.000	0	0	0.0	1.1	1.005	1	1.000	0	0	0.0
	1.4	1	1.4	1.013	1	1.000	0	0	0.0	1.3	0.996	1	1.000	0	0	0.0
neos-555298	97.2	1845	77.5	0.799	1100	0.617	0	0	267.0	105.1	<i>1.080</i>	1721	0.936	1	8	214.0
	65.6	471	75.2	<i>1.144</i>	1014	<i>1.951</i>	0	1	202.0	70.4	<i>1.073</i>	729	<i>1.452</i>	0	0	201.0
	64.1	602	62.1	0.970	582	0.972	0	18	271.0	50.6	0.793	502	0.858	0	0	208.0
	47.0	233	74.2	<i>1.568</i>	1091	<i>3.577</i>	0	5	286.0	56.0	<i>1.189</i>	382	<i>1.447</i>	0	1	177.0
neos-555343	limit	259436	332.3	0.046	13175	0.051	0	89	297.5	4252.6	0.591	488299	<i>1.882</i>	0	9539	225.2
	2863.8	265195	limit	<i>2.514</i>	880538	<i>3.319</i>	0	3822	221.9	1333.5	0.466	122100	0.461	0	155	240.3
	2132.4	186702	1551.3	0.728	185371	0.993	0	725	244.8	1486.3	0.697	116570	0.625	0	180	253.5
	limit	312205	1639.2	0.228	158908	0.509	0	676	267.1	1476.7	0.205	179845	0.576	1	767	272.5
neos-555424	limit	840135	2552.0	0.355	433289	0.516	0	1718	262.1	273.9	0.038	20865	0.025	0	972	246.2
	656.0	86674	508.1	0.775	52136	0.602	0	233	334.0	2097.6	<i>3.194</i>	308098	<i>3.552</i>	0	4251	270.4
	549.7	53244	584.6	<i>1.063</i>	60699	<i>1.140</i>	0	966	271.5	609.9	<i>1.109</i>	61003	<i>1.145</i>	0	886	254.0
	99.6	5538	1029.5	<i>10.243</i>	155876	<i>27.665</i>	0	1910	230.6	156.0	<i>1.560</i>	7845	<i>1.409</i>	0	359	237.3
neos-555694	11.3	21	11.3	1.000	21	1.000	0	0	0.0	11.3	1.002	21	1.000	0	0	0.0
	4.3	6	4.2	0.992	6	1.000	0	0	0.0	4.2	0.998	6	1.000	0	0	0.0
	4.6	6	4.6	1.009	6	1.000	0	0	0.0	4.6	1.009	6	1.000	0	0	0.0
	3.7	6	3.7	1.006	6	1.000	0	0	0.0	3.8	1.019	6	1.000	0	0	0.0
neos-555771	3.8	6	3.7	0.985	6	1.000	0	0	0.0	4.1	<i>1.076</i>	6	1.000	0	0	0.0
	4.2	6	10.5	<i>2.185</i>	41	<i>1.330</i>	0	0	0.0	4.2	0.998	6	1.000	0	0	0.0
	3.1	6	3.2	1.007	6	1.000	0	0	0.0	3.2	1.012	6	1.000	0	0	0.0
	3.1	6	3.1	0.990	6	1.000	0	0	0.0	3.1	0.983	6	1.000	0	0	0.0
neos-555884	limit	659884	limit	1.000	651284	0.987	0	2620	155.4	limit	1.000	574424	0.871	0	4335	92.3
	limit	660539	limit	1.000	713985	<i>1.081</i>	0	2747	150.6	limit	1.000	790727	<i>1.197</i>	0	5357	108.7
	limit	714134	limit	1.000	763903	<i>1.070</i>	0	1976	164.4	limit	1.000	802513	<i>1.124</i>	0	7485	99.0
	limit	682004	limit	1.000	715418	1.049	0	4627	141.1	limit	1.000	715816	1.050	0	6328	104.4

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-555927	limit	1707440	limit	1.000	1759692	1.031	0	31983	97.2	limit	1.000	1511523	0.885	0	9402	90.6
	limit	1884757	limit	1.000	1753634	0.930	0	34513	95.0	limit	1.000	1675846	0.889	0	11230	88.7
	limit	1505351	limit	1.000	1727969	<i>1.148</i>	0	13987	94.3	limit	1.000	1684911	<i>1.119</i>	0	5738	83.9
	limit	1729037	limit	1.000	1810226	1.047	0	8830	101.4	limit	1.000	1731024	1.001	0	8637	88.5
neos-565672	3740.3	35	3527.7	0.943	34	0.993	0	0	0.0	3606.2	0.964	21	0.896	0	0	0.0
	4551.6	6	5095.5	<i>1.119</i>	22	<i>1.151</i>	0	0	0.0	5665.0	<i>1.245</i>	40	<i>1.321</i>	0	0	0.0
	3975.2	10	3959.2	0.996	10	1.000	0	0	0.0	4022.2	1.012	10	1.000	0	0	0.0
	5249.6	18	5148.3	0.981	20	1.017	0	0	0.0	5673.2	<i>1.081</i>	45	<i>1.229</i>	0	1	41.0
neos-565815	13.5	1	13.4	0.991	1	1.000	0	0	0.0	13.7	1.017	1	1.000	0	0	0.0
	14.4	1	14.4	0.996	1	1.000	0	0	0.0	14.6	1.007	1	1.000	0	0	0.0
	10.7	1	10.8	1.003	1	1.000	0	0	0.0	10.7	0.998	1	1.000	0	0	0.0
	12.3	1	12.2	0.998	1	1.000	0	0	0.0	12.2	0.995	1	1.000	0	0	0.0
neos-570431	12.9	327	12.6	0.979	277	0.883	0	10	90.0	15.6	<i>1.191</i>	417	<i>1.211</i>	0	12	30.0
	15.2	375	14.1	0.930	375	1.000	0	0	0.0	15.1	0.994	373	0.996	0	6	43.0
	12.6	293	12.4	0.990	285	0.980	0	0	0.0	13.4	<i>1.059</i>	361	<i>1.173</i>	0	0	35.0
	13.6	347	13.5	0.999	285	0.861	0	0	0.0	13.1	0.968	267	0.821	0	0	0.0
neos-574665	limit	9936179	limit	1.000	8759223	0.882	0	396	42.0	limit	1.000	9256586	0.932	0	334	35.2
	limit	7612103	limit	1.000	6004116	0.789	0	263	44.1	limit	1.000	6633237	0.871	0	184	39.2
	limit	6938581	limit	1.000	5345467	0.770	0	231	38.6	limit	1.000	6552313	0.944	0	128	36.7
	limit	6767736	limit	1.000	8163765	<i>1.206</i>	0	311	39.4	limit	1.000	7815923	<i>1.155</i>	0	77	36.6
neos-578379	221.0	1	221.4	1.002	1	1.000	0	0	0.0	220.6	0.998	1	1.000	0	0	0.0
	223.8	1	224.0	1.001	1	1.000	0	0	0.0	223.9	1.001	1	1.000	0	0	0.0
	235.4	3	235.7	1.001	3	1.000	0	0	0.0	235.6	1.001	3	1.000	0	0	0.0
	222.3	1	221.1	0.994	1	1.000	0	0	0.0	222.5	1.000	1	1.000	0	0	0.0
neos-582605	limit	1059514	limit	1.000	1080287	1.020	0	354	128.1	limit	1.000	887119	0.837	0	404	120.7
	limit	932645	limit	1.000	942324	1.010	0	316	129.8	limit	1.000	900289	0.965	0	264	131.2
	limit	994133	limit	1.000	1009924	1.016	0	269	126.6	limit	1.000	989997	0.996	0	314	128.5
	limit	1034396	limit	1.000	956019	0.924	0	195	135.3	limit	1.000	921904	0.891	0	366	120.0
neos-583731	11.7	29	11.8	1.015	29	1.000	0	0	0.0	12.1	1.034	29	1.000	0	0	0.0
	9.5	17	9.4	0.991	17	1.000	0	0	0.0	9.4	0.995	17	1.000	0	0	0.0
	15.4	42	15.5	1.006	42	1.000	0	0	0.0	15.5	1.007	42	1.000	0	0	0.0
	9.2	19	9.1	0.991	19	1.000	0	0	0.0	9.2	1.000	19	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-584146	limit	1323112	limit	1.000	1634281	<i>1.235</i>	0	38	115.4	limit	1.000	1769849	<i>1.338</i>	0	484	98.2
	limit	1835270	limit	1.000	1797087	0.979	0	57	112.2	limit	1.000	1848803	1.007	0	611	94.1
	limit	1242980	limit	1.000	1227340	0.987	0	35	116.8	limit	1.000	1434564	<i>1.154</i>	0	316	96.2
	limit	1813463	limit	1.000	1981732	<i>1.093</i>	0	71	113.9	limit	1.000	1767071	0.974	0	211	107.7
neos-584851	9.9	7	9.9	1.004	7	1.000	0	0	0.0	9.9	1.003	7	1.000	0	0	0.0
	22.4	70	22.4	1.000	70	1.000	0	0	0.0	22.4	0.997	70	1.000	0	0	0.0
	18.0	7	18.0	1.003	7	1.000	0	0	0.0	18.1	1.005	7	1.000	0	0	0.0
	18.1	28	18.2	1.001	28	1.000	0	0	0.0	18.2	1.004	28	1.000	0	0	0.0
neos-584866	limit	189709	limit	1.000	193364	1.019	0	232	127.2	limit	1.000	180436	0.951	0	83	187.5
	limit	205018	limit	1.000	194889	0.951	0	24	195.0	limit	1.000	213061	1.039	0	444	189.5
	limit	229030	limit	1.000	194054	0.847	0	87	86.2	limit	1.000	225496	0.985	0	169	373.6
	limit	203326	limit	1.000	214239	<i>1.054</i>	0	0	100.7	limit	1.000	231699	<i>1.139</i>	0	470	168.5
neos-585192	21.3	406	21.5	1.007	406	1.000	0	0	0.0	21.2	0.994	406	1.000	0	0	0.0
	26.2	676	26.2	1.001	676	1.000	0	0	0.0	25.8	0.986	648	0.964	0	0	0.0
	25.1	359	25.2	1.001	359	1.000	0	0	0.0	25.1	0.998	359	1.000	0	0	0.0
	26.0	606	26.1	1.003	606	1.000	0	0	0.0	25.9	0.996	606	1.000	0	0	0.0
neos-585467	14.0	91	14.1	1.004	91	1.000	0	0	0.0	12.5	0.902	72	0.901	0	0	0.0
	12.5	93	12.5	1.001	93	1.000	0	0	0.0	12.5	0.998	93	1.000	0	0	0.0
	13.9	108	9.2	0.683	39	0.668	0	0	0.0	14.0	1.005	108	1.000	0	0	0.0
	11.9	89	11.9	1.004	89	1.000	0	0	0.0	11.9	0.998	89	1.000	0	0	0.0
neos-593853	455.6	213158	74.8	0.166	34081	0.160	2	159	36.2	64.3	0.143	28866	0.136	0	503	40.2
	159.8	54020	246.0	<i>1.536</i>	67870	<i>1.256</i>	1	153	41.7	55.5	0.351	18974	0.352	0	120	47.9
	71.9	20186	137.3	<i>1.898</i>	59663	<i>2.946</i>	0	160	45.4	175.9	<i>2.428</i>	58925	<i>2.910</i>	0	216	45.1
	78.8	27349	130.0	<i>1.642</i>	34312	<i>1.254</i>	0	130	39.7	66.0	0.841	22952	0.840	0	166	40.6
neos-595904	14.6	3	14.7	1.002	3	1.000	0	0	0.0	14.2	0.972	3	1.000	0	0	0.0
	24.3	4	24.1	0.994	4	1.000	0	0	0.0	24.2	0.995	4	1.000	0	0	0.0
	21.6	4	21.5	0.995	4	1.000	0	0	0.0	21.6	0.999	4	1.000	0	0	0.0
	24.8	5	26.4	<i>1.061</i>	5	1.000	0	0	0.0	24.8	0.999	5	1.000	0	0	0.0
neos-595905	2.4	2	2.5	<i>1.050</i>	2	1.000	0	0	0.0	2.5	1.045	2	1.000	0	0	0.0
	2.6	3	2.7	1.008	3	1.000	0	0	0.0	2.6	0.992	3	1.000	0	0	0.0
	1.8	2	1.9	1.011	2	1.000	0	0	0.0	1.9	1.011	2	1.000	0	0	0.0
	2.0	2	2.1	1.020	2	1.000	0	0	0.0	2.0	0.997	2	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-595925	17.2	593	13.3	0.783	465	0.815	0	0	0.0	13.3	0.783	465	0.815	0	0	0.0
	20.1	791	27.3	<i>1.340</i>	1856	<i>2.195</i>	0	0	40.0	26.8	<i>1.319</i>	1241	<i>1.505</i>	0	131	15.0
	33.9	1970	13.7	0.421	262	0.175	0	0	0.0	14.9	0.455	336	0.211	0	0	0.0
	19.8	363	19.8	1.000	363	1.000	0	0	0.0	13.5	0.700	130	0.497	0	0	0.0
neos-598183	8.4	6	6.9	0.838	4	0.981	0	0	0.0	8.1	0.962	5	0.991	0	0	0.0
	6.4	9	9.0	<i>1.345</i>	6	0.972	0	0	0.0	8.8	<i>1.316</i>	5	0.963	0	0	0.0
	8.7	11	8.3	0.961	11	1.000	0	0	0.0	6.4	0.771	45	<i>1.306</i>	0	0	15.0
	6.6	20	7.7	<i>1.138</i>	7	0.892	0	0	0.0	7.9	<i>1.171</i>	4	0.867	0	0	0.0
neos-603073	6855.4	1457555	193.4	0.028	37727	0.026	0	0	43.7	171.2	0.025	19608	0.014	0	32	51.0
	745.9	170233	312.3	0.419	46627	0.274	0	19	48.5	251.2	0.338	43774	0.258	0	14	43.0
	115.7	13204	limit	<i>61.684</i>	1918916	<i>144.244</i>	0	38	52.9	166.2	<i>1.432</i>	23050	<i>1.740</i>	0	39	37.3
	556.2	88538	224.8	0.405	32941	0.373	0	14	56.6	limit	<i>12.924</i>	1652722	<i>18.647</i>	0	42	48.2
neos-611135	limit	162781	limit	1.000	207112	<i>1.272</i>	0	1055	39.8	limit	1.000	157797	0.969	0	439	44.4
	limit	174965	limit	1.000	160153	0.915	0	616	94.9	limit	1.000	150091	0.858	1	469	57.3
	limit	164893	limit	1.000	146325	0.887	1	351	50.5	limit	1.000	160277	0.972	0	572	74.9
	limit	121174	limit	1.000	128697	<i>1.062</i>	0	698	61.3	limit	1.000	136600	<i>1.127</i>	0	945	66.2
neos-611838	41.5	241	36.7	0.889	282	<i>1.120</i>	0	0	26.0	36.2	0.876	282	<i>1.120</i>	0	0	26.0
	40.4	319	40.1	0.992	319	1.000	0	0	25.0	40.2	0.995	319	1.000	0	0	25.0
	34.0	251	33.5	0.987	272	<i>1.060</i>	0	0	20.5	33.6	0.989	272	<i>1.060</i>	0	0	20.5
	37.6	210	38.6	1.027	210	1.000	0	0	18.0	37.5	0.999	210	1.000	0	0	0.0
neos-612125	26.6	45	27.7	1.039	45	1.000	0	0	23.0	26.3	0.989	45	1.000	0	0	23.0
	31.1	154	31.1	1.000	154	1.000	0	0	23.0	31.2	1.003	154	1.000	0	0	23.0
	31.3	175	31.4	1.004	175	1.000	0	0	20.0	31.5	1.007	175	1.000	0	0	20.0
	28.8	161	29.1	1.010	161	1.000	0	0	31.0	28.8	0.999	161	1.000	0	0	31.0
neos-612143	35.9	213	36.6	1.019	203	0.968	0	0	28.0	36.7	1.023	213	1.000	0	0	28.0
	32.2	172	32.8	1.018	177	1.018	0	0	25.0	33.0	1.022	177	1.018	0	0	25.0
	42.5	170	43.9	1.033	170	1.000	0	0	26.0	43.9	1.032	170	1.000	0	0	26.0
	39.0	302	39.1	1.003	302	1.000	0	0	29.0	39.3	1.006	302	1.000	0	0	29.0
neos-612162	37.4	197	34.6	0.926	197	1.000	0	0	14.0	34.4	0.921	197	1.000	0	0	14.0
	37.1	184	37.1	1.001	184	1.000	0	0	25.0	37.4	1.008	184	1.000	0	0	25.0
	28.9	219	29.2	1.008	219	1.000	0	0	23.0	29.1	1.005	219	1.000	0	0	23.0
	34.5	265	33.9	0.984	265	1.000	0	0	27.0	33.9	0.984	265	1.000	0	0	27.0

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Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-619167	limit	100	limit	1.000	161	<i>1.305</i>	0	9	80.0	limit	1.000	69	0.845	0	2	166.0
	limit	148	limit	1.000	148	1.000	0	0	0.0	limit	1.000	148	1.000	0	0	0.0
	limit	54	limit	1.000	107	<i>1.344</i>	0	3	93.0	limit	1.000	167	<i>1.734</i>	0	2	158.0
	limit	102	limit	1.000	102	1.000	0	0	0.0	limit	1.000	102	1.000	0	0	0.0
neos-631164	limit	323115	limit	1.000	408802	<i>1.265</i>	0	0	213.3	limit	1.000	371492	<i>1.150</i>	0	0	255.7
	limit	213333	limit	1.000	224576	<i>1.053</i>	0	0	250.2	limit	1.000	359413	<i>1.684</i>	0	0	258.4
	limit	460027	limit	1.000	426195	0.926	0	31	215.0	limit	1.000	534245	<i>1.161</i>	0	0	242.3
	limit	517751	limit	1.000	320508	0.619	0	26	236.3	limit	1.000	549421	<i>1.061</i>	0	55	223.2
neos-631517	limit	803071	limit	1.000	383942	0.478	0	0	225.0	limit	1.000	658819	0.820	0	0	247.0
	limit	361289	limit	1.000	414404	<i>1.147</i>	0	0	215.0	limit	1.000	392674	<i>1.087</i>	0	0	240.5
	limit	351827	limit	1.000	647686	<i>1.841</i>	0	11	209.2	limit	1.000	307236	0.873	0	0	242.6
	limit	627858	limit	1.000	473556	0.754	0	0	224.2	limit	1.000	654293	1.042	0	0	259.6
neos-631694	limit	675050	limit	1.000	700417	1.038	0	1113	125.3	limit	1.000	706702	1.047	0	3444	98.9
	limit	675799	limit	1.000	474828	0.703	0	653	131.8	limit	1.000	504509	0.747	0	2655	83.0
	limit	568437	300.9	0.042	8911	0.016	0	147	189.9	limit	1.000	502345	0.884	0	2859	89.3
	limit	706590	limit	1.000	819670	<i>1.160</i>	0	532	134.0	limit	1.000	850369	<i>1.203</i>	0	3654	89.9
neos-631709	limit	3864	limit	1.000	4252	<i>1.098</i>	0	0	649.5	limit	1.000	3152	0.820	0	0	119.5
	limit	700	limit	1.000	443	0.679	0	0	520.0	limit	1.000	492	0.740	0	150	84.5
	limit	263	limit	1.000	260	0.992	0	0	465.0	limit	1.000	227	0.901	0	0	102.0
	limit	155	limit	1.000	128	0.894	0	0	426.0	limit	1.000	159	1.016	0	193	86.0
neos-631710	limit	1	limit	1.000	1	1.000	0	0	0.0	limit	1.000	1	1.000	0	0	0.0
	limit	3	limit	1.000	3	1.000	0	0	0.0	limit	1.000	3	1.000	0	0	0.0
	limit	1	limit	1.000	1	1.000	0	0	0.0	limit	1.000	1	1.000	0	0	0.0
	limit	1	limit	1.000	1	1.000	0	0	0.0	limit	1.000	1	1.000	0	0	0.0
neos-631784	4226.3	154351	limit	<i>1.703</i>	168015	<i>1.088</i>	0	189	257.3	limit	<i>1.703</i>	286725	<i>1.857</i>	0	8590	84.6
	1597.5	58460	2854.0	<i>1.786</i>	82947	<i>1.418</i>	0	237	287.8	1703.6	<i>1.066</i>	47570	0.814	0	2583	83.6
	limit	404754	limit	1.000	288158	0.712	1	1046	167.7	limit	1.000	331961	0.820	0	15363	80.7
	4420.3	145938	5000.6	<i>1.131</i>	159799	<i>1.095</i>	0	316	183.7	5334.4	<i>1.207</i>	204465	<i>1.401</i>	0	3844	88.0
neos-632335	13.6	193	13.5	0.990	193	1.000	0	0	0.0	13.5	0.996	193	1.000	0	0	0.0
	13.3	193	13.4	1.003	193	1.000	0	0	0.0	13.3	0.994	193	1.000	0	0	0.0
	13.3	193	13.3	1.002	193	1.000	0	0	0.0	13.3	1.001	193	1.000	0	0	0.0
	13.6	197	13.5	0.992	197	1.000	0	0	0.0	13.6	1.003	197	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-633273	14.2	259	14.2	0.995	259	1.000	0	0	0.0	14.2	0.999	259	1.000	0	0	0.0
	13.9	259	13.9	1.001	259	1.000	0	0	0.0	14.1	1.009	259	1.000	0	0	0.0
	13.7	253	13.6	0.995	253	1.000	0	0	0.0	13.7	0.999	253	1.000	0	0	0.0
	13.9	259	14.0	1.006	259	1.000	0	0	0.0	13.9	0.999	259	1.000	0	0	0.0
neos-655508	0.6	1	0.6	0.957	1	1.000	0	0	0.0	0.7	1.030	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
neos-662469	limit	56606	limit	1.000	20973	0.372	1	695	111.3	limit	1.000	35231	0.623	0	182	278.1
	limit	47738	limit	1.000	33181	0.696	0	414	109.2	limit	1.000	23154	0.486	0	314	246.6
	limit	53221	limit	1.000	64928	<i>1.220</i>	1	1095	129.5	limit	1.000	45010	0.846	0	904	265.6
	limit	32406	limit	1.000	21646	0.669	2	1533	132.0	limit	1.000	36531	<i>1.127</i>	0	247	291.7
neos-686190	206.9	13509	124.2	0.602	5703	0.426	0	569	36.0	113.7	0.552	4657	0.350	0	142	38.5
	197.9	11514	203.2	1.027	13529	<i>1.173</i>	0	132	38.2	122.1	0.619	6495	0.568	0	89	39.3
	145.9	8789	159.9	<i>1.095</i>	8992	1.023	0	474	40.0	137.6	0.944	8222	0.936	0	213	34.8
	190.8	11046	324.7	<i>1.699</i>	21982	<i>1.981</i>	0	2562	41.1	127.4	0.669	6798	0.619	0	197	33.1
neos-691058	limit	6179	limit	1.000	4407	0.718	0	55	264.1	limit	1.000	4322	0.704	0	81	79.2
	limit	4906	limit	1.000	5899	<i>1.198</i>	0	9	309.9	limit	1.000	5515	<i>1.122</i>	0	11	179.8
	limit	7229	limit	1.000	9326	<i>1.286</i>	0	53	254.8	limit	1.000	23983	<i>3.286</i>	0	259	94.7
	limit	5929	limit	1.000	4485	0.760	0	28	281.3	limit	1.000	5128	0.867	0	170	87.8
neos-691073	limit	13845	limit	1.000	19895	<i>1.434</i>	0	94	256.9	limit	1.000	8723	0.633	0	45	112.7
	limit	22067	limit	1.000	11181	0.509	0	26	270.4	limit	1.000	11460	0.521	0	105	90.8
	limit	10232	limit	1.000	8799	0.861	0	62	184.2	limit	1.000	10122	0.989	0	58	71.7
	limit	7700	limit	1.000	8946	<i>1.160</i>	0	108	240.6	limit	1.000	8258	<i>1.072</i>	1	223	94.9
neos-693347	limit	55024	1734.2	0.241	12433	0.227	0	128	136.5	1861.5	0.259	8535	0.157	0	2544	55.7
	2238.8	17100	2356.6	<i>1.053</i>	17666	1.033	0	4621	65.0	1858.2	0.830	15792	0.924	0	1035	47.3
	5122.1	31274	7053.2	<i>1.377</i>	74565	<i>2.380</i>	0	1716	66.4	2814.4	0.550	10210	0.329	0	789	54.7
	4900.7	34909	4295.3	0.876	46192	<i>1.322</i>	0	495	69.5	2443.8	0.499	15087	0.434	0	3126	46.4
neos-702280	limit	3798	limit	1.000	3728	0.982	0	0	399.8	limit	1.000	3929	1.034	0	0	387.0
	limit	3731	limit	1.000	3435	0.923	0	0	397.2	limit	1.000	3495	0.938	0	0	397.2
	limit	3958	limit	1.000	3703	0.937	0	0	411.2	limit	1.000	3776	0.955	0	0	417.8
	limit	4210	limit	1.000	3833	0.913	0	0	409.0	limit	1.000	3748	0.893	0	0	412.5

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-709469	0.5	13	0.6	<i>1.093</i>	13	1.000	0	0	0.0	0.5	1.000	13	1.000	0	0	0.0
	0.7	99	0.9	<i>1.145</i>	377	<i>2.397</i>	0	6	26.0	1.4	<i>1.461</i>	1433	<i>7.704</i>	0	58	32.5
	0.6	120	0.6	0.988	120	1.000	0	0	0.0	0.6	0.994	120	1.000	0	0	0.0
	0.8	240	0.8	1.023	315	<i>1.221</i>	0	3	34.0	0.6	0.886	68	0.494	0	4	30.0
neos-717614	16.2	4611	26.7	<i>1.611</i>	7251	<i>1.560</i>	0	4	132.7	36.0	<i>2.153</i>	18882	<i>4.029</i>	0	13	450.5
	15.2	2169	44.5	<i>2.802</i>	19659	<i>8.708</i>	0	2	225.5	19.5	<i>1.264</i>	4136	<i>1.867</i>	0	14	84.2
	60.3	35953	4321.0	<i>70.471</i>	1782616	<i>49.447</i>	0	4	326.3	15.4	0.267	1858	0.054	0	16	74.1
	50.8	24048	58.3	<i>1.146</i>	38062	<i>1.580</i>	0	12	107.4	48.0	0.946	30789	<i>1.279</i>	0	7	141.3
neos-738098	limit	727	limit	1.000	532	0.764	0	24	383.7	limit	1.000	563	0.802	0	188	111.3
	limit	254	limit	1.000	261	1.020	0	0	156.0	limit	1.000	596	<i>1.966</i>	0	254	166.0
	limit	413	limit	1.000	378	0.932	0	194	306.7	limit	1.000	447	<i>1.066</i>	0	68	127.0
	limit	1416	limit	1.000	663	0.503	0	79	383.2	limit	1.000	735	0.551	0	138	120.0
neos-775946	9.3	5	9.9	<i>1.064</i>	4	0.990	0	0	0.0	12.4	<i>1.304</i>	5	1.000	0	0	0.0
	16.4	44	16.6	1.007	44	1.000	0	0	0.0	14.9	0.913	28	0.889	0	0	0.0
	8.3	3	12.2	<i>1.428</i>	3	1.000	0	0	0.0	12.6	<i>1.468</i>	13	<i>1.097</i>	0	0	0.0
	12.1	5	9.8	0.823	4	0.990	0	0	0.0	9.5	0.802	7	1.019	0	0	0.0
neos-780889	359.6	2	361.5	1.005	2	1.000	0	0	0.0	359.7	1.000	2	1.000	0	0	0.0
	62.5	1	62.6	1.001	1	1.000	0	0	0.0	62.7	1.003	1	1.000	0	0	0.0
	53.3	1	53.5	1.004	1	1.000	0	0	0.0	54.3	1.019	1	1.000	0	0	0.0
	57.0	1	53.8	0.946	1	1.000	0	0	0.0	54.1	0.951	1	1.000	0	0	0.0
neos-785899	3.1	22	2.9	0.949	22	1.000	0	0	0.0	2.9	0.954	22	1.000	0	0	0.0
	5.6	35	5.6	1.011	35	1.000	0	0	0.0	5.6	1.006	35	1.000	0	0	0.0
	4.7	39	4.6	0.996	39	1.000	0	0	0.0	4.7	1.014	39	1.000	0	0	0.0
	3.6	37	3.5	0.991	37	1.000	0	0	0.0	3.5	0.993	37	1.000	0	0	0.0
neos-785912	53.9	384	54.0	1.001	384	1.000	0	0	0.0	54.5	1.011	384	1.000	0	0	0.0
	44.9	227	44.7	0.997	227	1.000	0	0	0.0	44.9	1.001	227	1.000	0	0	0.0
	46.4	331	46.8	1.009	331	1.000	0	0	0.0	46.2	0.997	331	1.000	0	0	0.0
	95.8	264	100.7	1.050	290	<i>1.071</i>	0	11	325.0	102.7	<i>1.071</i>	306	<i>1.115</i>	0	19	21.0
neos-785914	11.1	16	11.2	1.007	16	1.000	0	0	0.0	11.4	1.023	16	1.000	0	0	0.0
	11.4	14	11.1	0.978	14	1.000	0	0	0.0	11.3	0.990	14	1.000	0	0	0.0
	6.3	16	6.3	1.000	16	1.000	0	0	0.0	6.3	0.995	16	1.000	0	0	0.0
	7.1	18	7.0	0.990	18	1.000	0	0	0.0	7.0	0.988	18	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-787933	1.6	1	1.6	0.996	1	1.000	0	0	0.0	1.6	0.977	1	1.000	0	0	0.0
	1.6	1	1.6	1.000	1	1.000	0	0	0.0	1.6	1.004	1	1.000	0	0	0.0
	1.6	1	1.6	0.992	1	1.000	0	0	0.0	1.7	1.027	1	1.000	0	0	0.0
	1.6	1	1.6	1.004	1	1.000	0	0	0.0	1.6	1.008	1	1.000	0	0	0.0
neos-791021	585.4	95	517.1	0.884	89	0.969	0	18	291.0	641.9	<i>1.096</i>	127	<i>1.164</i>	0	3	18.0
	479.5	66	473.9	0.988	91	<i>1.151</i>	0	9	438.0	487.7	1.017	66	1.000	0	0	0.0
	436.5	60	359.0	0.823	47	0.919	0	0	263.0	439.8	1.008	68	<i>1.050</i>	0	0	26.0
	645.2	120	524.8	0.814	81	0.823	0	5	293.0	745.1	<i>1.155</i>	121	1.005	0	4	45.0
neos-796608	251.8	843587	262.9	1.044	864703	1.025	0	13	23.2	258.4	1.026	864751	1.025	0	18	24.5
	257.2	841119	257.3	1.000	843360	1.003	0	37	22.9	260.1	1.011	854539	1.016	0	11	20.2
	0.5	2	0.5	1.000	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
	255.0	861013	252.4	0.990	848510	0.985	0	66	22.7	252.0	0.988	843913	0.980	0	74	22.5
neos-799838	41.5	1	42.1	1.014	1	1.000	0	0	0.0	41.5	1.000	1	1.000	0	0	0.0
	32.8	1	32.5	0.991	1	1.000	0	0	0.0	32.7	0.998	1	1.000	0	0	0.0
	121.9	10	121.8	0.999	10	1.000	0	0	0.0	122.2	1.002	10	1.000	0	0	0.0
	33.6	1	33.4	0.995	1	1.000	0	0	0.0	33.4	0.995	1	1.000	0	0	0.0
neos-801834	52.0	159	52.4	1.007	159	1.000	0	0	0.0	51.5	0.991	159	1.000	0	0	0.0
	50.5	175	49.9	0.989	175	1.000	0	0	0.0	50.5	1.000	175	1.000	0	0	0.0
	60.3	217	60.0	0.995	217	1.000	0	0	0.0	60.5	1.004	217	1.000	0	0	0.0
	44.4	155	44.8	1.009	155	1.000	0	0	0.0	44.1	0.995	155	1.000	0	0	0.0
neos-803219	39.9	11596	50.0	<i>1.246</i>	13044	<i>1.124</i>	0	342	23.4	45.2	<i>1.131</i>	11433	0.986	0	369	23.7
	48.8	13052	41.3	0.851	10451	0.802	1	304	20.9	53.1	<i>1.087</i>	14339	<i>1.098</i>	0	496	23.2
	47.2	13060	36.1	0.771	11087	0.850	0	143	25.5	36.2	0.773	10272	0.788	0	226	21.4
	32.7	8341	38.9	<i>1.185</i>	9805	<i>1.173</i>	0	295	23.9	42.5	<i>1.293</i>	11541	<i>1.379</i>	0	322	21.9
neos-803220	109.2	47940	109.6	1.004	46306	0.966	1	758	24.0	108.2	0.991	46456	0.969	0	444	24.2
	99.0	43166	99.5	1.004	41753	0.967	1	760	24.1	109.3	<i>1.103</i>	47046	<i>1.090</i>	0	465	23.1
	94.5	41738	87.9	0.931	38753	0.929	0	508	23.8	102.6	<i>1.085</i>	43146	1.034	5	966	25.9
	97.9	42934	104.9	<i>1.070</i>	43474	1.013	3	1003	25.6	98.4	1.005	41075	0.957	2	898	25.1
neos-806323	40.3	5993	42.1	1.044	5789	0.967	1	498	21.3	41.7	1.034	5886	0.982	1	510	21.0
	52.3	8199	56.1	<i>1.072</i>	9542	<i>1.162</i>	0	281	20.8	51.0	0.976	7878	0.961	0	183	28.6
	47.0	6985	47.9	1.019	7845	<i>1.121</i>	0	410	23.9	40.4	0.863	5727	0.822	0	123	27.2
	47.5	8553	45.9	0.968	7734	0.905	0	281	22.0	42.1	0.889	6935	0.813	0	179	24.7

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-807454	3.1	1	3.2	1.032	1	1.000	0	0	0.0	3.2	1.029	1	1.000	0	0	0.0
	3.1	1	3.1	0.993	1	1.000	0	0	0.0	3.0	0.988	1	1.000	0	0	0.0
	3.0	1	2.9	0.982	1	1.000	0	0	0.0	2.9	0.987	1	1.000	0	0	0.0
	2.5	1	2.5	0.986	1	1.000	0	0	0.0	2.5	0.994	1	1.000	0	0	0.0
neos-807639	22.1	2750	23.2	1.049	2824	1.026	0	399	15.2	22.2	1.007	2611	0.951	0	303	15.3
	23.2	2615	22.8	0.984	2595	0.993	0	365	15.6	22.7	0.978	2630	1.006	0	327	14.7
	17.2	1930	21.7	<i>1.246</i>	2501	<i>1.281</i>	0	307	16.3	19.8	<i>1.142</i>	2196	<i>1.131</i>	0	260	14.6
	24.0	2838	24.4	1.016	2933	1.032	0	352	16.4	24.6	1.024	2944	1.036	0	398	15.4
neos-807705	33.6	3595	38.0	<i>1.128</i>	3259	0.909	0	145	24.4	32.1	0.957	2977	0.833	0	155	19.9
	40.8	3291	49.7	<i>1.214</i>	4408	<i>1.329</i>	1	283	21.6	34.9	0.859	3132	0.953	0	181	20.1
	32.7	3490	36.3	<i>1.105</i>	3762	<i>1.076</i>	0	95	22.1	41.0	<i>1.246</i>	3753	<i>1.073</i>	1	247	21.0
	36.2	3871	37.5	1.036	3708	0.959	2	366	25.2	32.1	0.891	2775	0.724	1	327	18.6
neos-808072	41.4	334	34.6	0.840	411	<i>1.177</i>	0	0	127.0	46.0	<i>1.107</i>	308	0.940	0	246	56.0
	24.3	85	36.3	<i>1.475</i>	235	<i>1.811</i>	0	6	154.0	22.3	0.921	62	0.876	0	21	45.0
	20.7	59	20.6	0.998	59	1.000	0	0	0.0	20.7	1.002	59	1.000	0	0	0.0
	26.6	176	26.0	0.979	176	1.000	0	0	0.0	26.0	0.978	176	1.000	0	0	0.0
neos-808214	27.9	1091	29.5	<i>1.054</i>	902	0.841	0	102	117.0	26.4	0.948	793	0.750	0	245	40.5
	23.7	854	22.6	0.956	836	0.981	0	86	122.0	28.3	<i>1.187</i>	1375	<i>1.546</i>	0	217	37.8
	21.1	500	21.4	1.016	581	<i>1.135</i>	0	6	168.0	22.5	<i>1.064</i>	605	<i>1.175</i>	0	2	37.0
	32.5	1192	28.7	0.886	1488	<i>1.229</i>	0	118	127.0	28.9	0.893	1467	<i>1.213</i>	0	91	79.2
neos-810286	26.0	5	26.8	1.030	5	1.000	0	0	0.0	26.1	1.001	5	1.000	0	0	0.0
	312.4	745	279.1	0.894	474	0.679	0	36	354.5	110.4	0.356	61	0.191	0	0	15.0
	313.1	575	373.5	<i>1.192</i>	781	<i>1.305</i>	0	56	237.8	275.8	0.881	473	0.849	0	287	60.7
	159.4	362	305.8	<i>1.913</i>	1026	<i>2.437</i>	0	584	256.2	356.9	<i>2.231</i>	784	<i>1.913</i>	0	292	76.8
neos-810326	57.3	864	67.5	<i>1.175</i>	1196	<i>1.344</i>	0	20	59.7	48.8	0.854	853	0.989	1	79	73.1
	20.1	177	20.0	0.997	177	1.000	0	0	0.0	20.0	0.997	177	1.000	0	0	0.0
	49.4	765	47.8	0.967	851	<i>1.099</i>	0	144	76.9	40.3	0.820	640	0.855	0	64	37.0
	58.1	945	51.2	0.884	882	0.940	0	103	73.6	84.1	<i>1.440</i>	1551	<i>1.580</i>	0	158	53.2
neos-820146	limit	1780665	limit	1.000	1732674	0.973	0	31671	35.3	limit	1.000	1629186	0.915	0	38327	35.9
	limit	1650897	limit	1.000	1201855	0.728	0	21839	34.7	limit	1.000	2416318	<i>1.464</i>	0	34654	37.5
	limit	2728646	limit	1.000	2598857	0.952	0	40856	35.6	limit	1.000	2257699	0.827	0	42338	37.3
	limit	2189111	limit	1.000	2007483	0.917	0	49727	36.0	limit	1.000	2205407	1.007	0	51545	37.9

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-820157	limit	1888549	limit	1.000	1552521	0.822	0	42382	34.9	limit	1.000	1587072	0.840	0	49625	35.3
	limit	1731099	limit	1.000	1663695	0.961	0	55339	36.0	limit	1.000	1616913	0.934	0	46602	35.1
	limit	1502000	limit	1.000	1298681	0.865	0	41409	35.2	limit	1.000	1737485	<i>1.157</i>	0	37876	36.4
	limit	1851270	limit	1.000	1911218	1.032	0	53628	34.6	limit	1.000	2095346	<i>1.132</i>	0	42615	35.5
neos-820879	51.7	393	62.1	<i>1.197</i>	31	0.266	0	0	0.0	79.2	<i>1.522</i>	411	1.037	0	0	0.0
	56.1	27	64.1	<i>1.140</i>	411	<i>4.024</i>	0	0	0.0	63.6	<i>1.132</i>	383	<i>3.803</i>	0	0	0.0
	52.0	32	52.2	1.004	32	1.000	0	0	0.0	51.9	0.998	32	1.000	0	0	0.0
	69.7	205	69.6	0.999	205	1.000	0	0	0.0	69.6	0.999	205	1.000	0	0	0.0
neos-824661	1229.9	87	1329.2	<i>1.081</i>	46	0.781	0	9	373.0	1228.4	0.999	62	0.866	0	0	0.0
	945.7	25	1027.7	<i>1.087</i>	37	<i>1.096</i>	0	16	462.0	1167.4	<i>1.234</i>	68	<i>1.344</i>	0	14	153.0
	1120.7	33	1228.1	<i>1.096</i>	85	<i>1.391</i>	0	3	441.0	1189.7	<i>1.062</i>	71	<i>1.286</i>	0	29	135.0
	1848.1	42	1884.7	1.020	43	1.007	0	0	348.0	1900.5	1.028	39	0.979	0	5	109.0
neos-824695	435.8	41	650.6	<i>1.492</i>	67	<i>1.184</i>	0	0	491.0	481.1	<i>1.104</i>	47	1.043	0	22	116.0
	599.4	98	357.9	0.598	31	0.662	0	0	314.0	431.1	0.720	26	0.636	1	9	135.0
	392.8	31	512.4	<i>1.304</i>	37	1.046	0	0	144.0	398.1	1.013	79	<i>1.366</i>	0	72	91.0
	416.5	31	319.6	0.768	19	0.908	0	0	189.0	394.2	0.946	28	0.977	0	0	62.0
neos-825075	2.0	1	1.5	0.841	1	1.000	0	0	0.0	2.0	0.993	1	1.000	0	0	0.0
	2.4	7	2.5	1.018	7	1.000	0	0	0.0	2.4	1.006	7	1.000	0	0	0.0
	2.4	5	2.4	1.018	5	1.000	0	0	0.0	2.4	1.003	5	1.000	0	0	0.0
	2.6	6	2.7	1.016	6	1.000	0	0	0.0	2.7	1.008	6	1.000	0	0	0.0
neos-826224	84.3	1	86.0	1.021	1	1.000	0	0	0.0	84.3	1.001	1	1.000	0	0	0.0
	235.1	35	288.4	<i>1.226</i>	45	<i>1.074</i>	0	0	342.0	364.8	<i>1.549</i>	26	0.933	0	29	362.0
	19.5	1	19.5	0.998	1	1.000	0	0	0.0	19.5	0.999	1	1.000	0	0	0.0
	13.2	1	13.2	0.996	1	1.000	0	0	0.0	13.3	1.008	1	1.000	0	0	0.0
neos-826250	229.9	24	210.3	0.915	18	0.952	0	0	403.0	210.8	0.917	18	0.952	0	0	75.0
	253.2	26	266.8	<i>1.053</i>	24	0.984	0	0	334.0	296.6	<i>1.171</i>	28	1.016	0	0	67.0
	50.1	1	49.7	0.992	1	1.000	0	0	0.0	344.4	<i>6.766</i>	32	<i>1.307</i>	0	0	74.0
	220.8	41	221.3	1.002	41	1.000	0	0	0.0	221.9	1.005	41	1.000	0	0	0.0
neos-826650	limit	17212	limit	1.000	27954	<i>1.620</i>	0	234	266.3	limit	1.000	25126	<i>1.457</i>	0	654	122.7
	limit	63302	limit	1.000	40743	0.644	0	520	213.2	limit	1.000	45266	0.716	0	771	216.2
	limit	15524	limit	1.000	13471	0.869	0	831	267.9	limit	1.000	16022	1.032	0	681	175.5
	limit	26608	limit	1.000	45403	<i>1.704</i>	0	465	265.4	limit	1.000	21687	0.816	0	350	182.6

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-826694	367.3	64	274.2	0.747	24	0.756	0	0	0.0	275.6	0.751	24	0.756	0	0	0.0
	335.9	41	499.9	<i>1.487</i>	57	<i>1.113</i>	0	0	727.0	368.7	<i>1.097</i>	57	<i>1.113</i>	0	2	109.0
	426.4	77	534.9	<i>1.254</i>	201	<i>1.701</i>	0	0	0.0	533.6	<i>1.251</i>	201	<i>1.701</i>	0	0	0.0
	258.4	34	328.2	<i>1.269</i>	71	<i>1.276</i>	0	0	727.0	320.3	<i>1.239</i>	74	<i>1.299</i>	0	0	667.0
neos-826812	33.0	1	32.4	0.982	1	1.000	0	0	0.0	32.2	0.978	1	1.000	0	0	0.0
	55.3	1	249.6	<i>4.450</i>	18	<i>1.168</i>	0	0	206.0	354.2	<i>6.308</i>	38	<i>1.366</i>	0	0	121.0
	156.7	5	156.8	1.001	5	1.000	0	0	0.0	157.3	1.004	5	1.000	0	0	0.0
	172.5	6	252.9	<i>1.463</i>	7	1.009	0	0	0.0	172.5	1.000	6	1.000	0	0	0.0
neos-826841	limit	131065	limit	1.000	181273	<i>1.383</i>	0	509	210.8	limit	1.000	156159	<i>1.191</i>	0	865	76.7
	limit	162202	limit	1.000	103819	0.640	0	705	170.5	limit	1.000	108936	0.672	0	1756	82.5
	limit	164972	limit	1.000	123409	0.748	0	276	249.1	limit	1.000	206451	<i>1.251</i>	0	1552	100.9
	limit	297953	limit	1.000	108801	0.365	0	599	180.7	limit	1.000	133860	0.449	0	976	82.3
neos-827015	1312.8	357	1492.8	<i>1.137</i>	337	0.956	0	86	72.0	1091.9	0.832	235	0.733	0	25	44.5
	1038.0	252	1473.0	<i>1.419</i>	301	<i>1.139</i>	0	126	107.8	1259.5	<i>1.213</i>	180	0.795	0	34	32.7
	2067.0	304	3856.2	<i>1.865</i>	924	<i>2.535</i>	1	112	65.3	1342.9	0.650	251	0.869	0	7	25.0
	1027.1	213	848.4	0.826	174	0.875	0	32	132.5	1201.7	<i>1.170</i>	284	<i>1.227</i>	0	108	36.8
neos-827175	7.6	1	7.3	0.967	1	1.000	0	0	0.0	7.3	0.971	1	1.000	0	0	0.0
	9.9	1	9.9	1.001	1	1.000	0	0	0.0	9.9	0.997	1	1.000	0	0	0.0
	8.0	1	8.1	1.008	1	1.000	0	0	0.0	8.1	1.012	1	1.000	0	0	0.0
	40.0	1	40.2	1.004	1	1.000	0	0	0.0	40.1	1.002	1	1.000	0	0	0.0
neos-829552	347.8	244	313.3	0.901	179	0.811	0	1	95.0	336.7	0.968	164	0.767	0	0	37.0
	565.4	510	327.6	0.580	249	0.572	0	30	70.0	277.4	0.491	142	0.397	1	0	29.0
	413.5	268	331.8	0.803	230	0.897	0	30	49.0	353.1	0.854	258	0.973	1	0	30.0
	405.6	332	472.5	<i>1.164</i>	419	<i>1.201</i>	0	61	78.3	487.3	<i>1.201</i>	349	1.039	0	35	34.0
neos-830439	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
neos-831188	245.3	1813	319.2	<i>1.300</i>	2585	<i>1.404</i>	0	298	61.9	241.2	0.983	1666	0.923	0	53	31.5
	327.3	2365	354.4	<i>1.083</i>	2749	<i>1.156</i>	0	528	42.2	270.2	0.826	2025	0.862	0	98	28.7
	294.0	2396	407.3	<i>1.384</i>	3119	<i>1.290</i>	0	280	59.2	330.9	<i>1.125</i>	2320	0.970	0	59	28.0
	336.9	2683	388.7	<i>1.154</i>	2773	1.032	0	595	49.2	343.9	1.021	2754	1.026	0	140	34.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-839838	3102.5	106988	1865.2	0.601	55355	0.518	0	70	86.6	831.7	0.268	19434	0.182	0	71	79.5
	1099.9	28382	1174.7	<i>1.068</i>	35500	<i>1.250</i>	0	0	78.6	1141.0	1.037	27895	0.983	0	0	73.0
	738.1	15857	1691.1	<i>2.289</i>	45773	<i>2.875</i>	0	33	72.2	1041.3	<i>1.410</i>	25840	<i>1.626</i>	0	7	82.0
	1320.6	44833	910.6	0.690	26284	0.587	2	142	81.5	1432.2	<i>1.084</i>	42461	0.947	0	0	82.6
neos-839859	52.7	2140	51.5	0.977	1834	0.863	0	0	48.0	51.8	0.984	1834	0.863	0	0	55.0
	54.3	2493	56.9	1.047	2550	1.022	0	15	47.5	53.6	0.988	2354	0.946	0	0	39.0
	58.3	2565	59.8	1.024	2538	0.990	0	0	56.0	59.7	1.023	2538	0.990	0	14	42.5
	57.3	2354	86.4	<i>1.499</i>	4753	<i>1.978</i>	0	4	32.7	69.6	<i>1.211</i>	3492	<i>1.464</i>	0	14	43.2
neos-839894	limit	200	limit	1.000	139	0.797	0	0	19.0	limit	1.000	244	<i>1.147</i>	0	87	70.5
	limit	236	limit	1.000	137	0.705	0	0	22.0	limit	1.000	676	<i>2.310</i>	0	0	93.0
	limit	170	limit	1.000	147	0.915	0	0	12.0	limit	1.000	55	0.574	0	24	36.0
	limit	324	limit	1.000	123	0.526	0	0	48.0	limit	1.000	435	<i>1.262</i>	0	40	80.0
neos-841664	limit	65663	limit	1.000	71284	<i>1.085</i>	4	200	78.7	limit	1.000	119949	<i>1.825</i>	5	1276	74.7
	3312.8	30581	limit	<i>2.173</i>	102166	<i>3.333</i>	0	55	61.1	limit	<i>2.173</i>	56229	<i>1.836</i>	6	252	94.9
	limit	89023	3668.7	0.510	45747	0.514	0	85	71.3	limit	1.000	141483	<i>1.589</i>	2	451	80.1
	limit	58603	limit	1.000	61327	1.046	3	135	75.2	limit	1.000	72314	<i>1.234</i>	3	240	83.6
neos-847051	limit	2403164	limit	1.000	1941245	0.808	1	1	72.4	limit	1.000	2021897	0.841	0	0	61.9
	3693.6	1209906	limit	<i>1.949</i>	2104682	<i>1.739</i>	0	41	38.2	4256.5	<i>1.152</i>	1442266	<i>1.192</i>	0	50	29.7
	limit	2326051	limit	1.000	1010762	0.435	0	27	32.0	limit	1.000	1945762	0.837	0	21	31.8
	limit	2259979	limit	1.000	2492817	<i>1.103</i>	0	0	40.8	limit	1.000	2156972	0.954	0	1	35.5
neos-847302	limit	230337	limit	1.000	219054	0.951	0	63	81.7	limit	1.000	257418	<i>1.118</i>	0	310	60.1
	limit	189560	limit	1.000	203966	<i>1.076</i>	0	54	87.2	limit	1.000	188202	0.993	0	121	81.8
	limit	179917	limit	1.000	192625	<i>1.071</i>	0	138	95.1	limit	1.000	199265	<i>1.107</i>	0	171	82.2
	limit	149332	limit	1.000	266935	<i>1.787</i>	0	207	86.8	limit	1.000	257096	<i>1.721</i>	0	199	70.0
neos-848150	16.2	26	15.0	0.929	23	0.976	0	3	226.0	15.4	0.952	27	1.008	0	6	16.0
	15.9	22	15.7	0.987	22	1.000	0	0	0.0	15.8	0.991	22	1.000	0	0	0.0
	1.4	1	1.4	0.996	1	1.000	0	0	0.0	1.4	1.000	1	1.000	0	0	0.0
	17.4	30	17.4	1.001	30	1.000	0	0	0.0	17.4	0.999	30	1.000	0	0	0.0
neos-848198	limit	1522	limit	1.000	1109	0.745	0	14	53.6	limit	1.000	1304	0.866	2	53	55.0
	limit	1377	limit	1.000	1132	0.834	0	14	53.1	limit	1.000	1288	0.940	2	58	57.3
	limit	2743	limit	1.000	1923	0.712	0	16	71.9	limit	1.000	1400	0.528	0	26	57.3
	limit	1290	limit	1.000	2441	<i>1.828</i>	0	21	83.5	limit	1.000	1916	<i>1.450</i>	2	33	62.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-848589	3390.2	120	3198.0	0.943	117	0.986	0	0	31.0	3427.8	1.011	120	1.000	0	0	27.0
	2241.4	45	2470.7	<i>1.102</i>	45	1.000	0	0	21.0	2256.3	1.007	45	1.000	0	0	35.0
	1473.2	23	1472.0	0.999	23	1.000	0	0	0.0	1467.7	0.996	23	1.000	0	0	0.0
	1341.7	49	1439.4	<i>1.073</i>	49	1.000	0	0	55.0	1341.4	1.000	49	1.000	0	0	0.0
neos-848845	2655.1	136105	1161.7	0.438	54283	0.399	0	81	141.4	533.4	0.201	20967	0.155	0	117	167.2
	146.2	1709	648.9	<i>4.414</i>	29867	<i>16.566</i>	0	443	55.3	633.0	<i>4.306</i>	28259	<i>15.677</i>	0	174	89.1
	166.1	1614	173.4	1.044	2323	<i>1.414</i>	0	73	141.8	605.2	<i>3.628</i>	24342	<i>14.260</i>	0	110	128.6
	4445.6	244106	224.4	0.051	3297	0.014	0	91	22.0	966.5	0.218	48282	0.198	0	267	56.9
neos-849702	179.9	5441	316.7	<i>1.756</i>	12631	<i>2.298</i>	0	209	95.5	198.5	<i>1.103</i>	6913	<i>1.266</i>	0	90	43.3
	109.6	2429	130.4	<i>1.188</i>	3749	<i>1.522</i>	0	160	58.0	191.4	<i>1.739</i>	6739	<i>2.704</i>	0	275	43.5
	445.8	18527	3214.3	<i>7.197</i>	192391	<i>10.334</i>	0	289	159.0	728.5	<i>1.633</i>	35387	<i>1.905</i>	0	243	124.2
	237.4	7748	105.7	0.447	1786	0.240	0	121	102.0	2227.5	<i>9.347</i>	101149	<i>12.901</i>	0	1330	51.2
neos-850681	11.7	6	8.7	0.763	6	1.000	0	0	0.0	11.5	0.984	6	1.000	0	0	0.0
	8.8	6	8.9	1.008	6	1.000	0	0	0.0	8.8	0.997	6	1.000	0	0	0.0
	7.4	6	7.4	1.004	6	1.000	0	0	0.0	7.5	1.005	6	1.000	0	0	0.0
	12.8	7	12.8	0.993	7	1.000	0	0	0.0	13.0	1.011	7	1.000	0	0	0.0
neos-856059	limit	249641	limit	1.000	290602	<i>1.164</i>	0	1212	45.5	limit	1.000	311747	<i>1.249</i>	0	1014	49.8
	limit	310287	5991.4	0.832	259764	0.837	0	1919	36.0	3738.5	0.519	148544	0.479	0	774	50.1
	2337.2	120655	5903.2	<i>2.525</i>	250654	<i>2.077</i>	0	1461	43.5	6366.6	<i>2.723</i>	270323	<i>2.239</i>	0	1556	46.7
	5440.9	223611	6813.7	<i>1.252</i>	285239	<i>1.275</i>	1	624	35.2	2356.7	0.433	103861	0.465	0	629	44.1
neos-859770	167.8	1	168.0	1.001	1	1.000	0	0	0.0	167.7	0.999	1	1.000	0	0	0.0
	189.8	1	192.2	1.012	1	1.000	0	0	0.0	196.0	1.032	1	1.000	0	0	0.0
	165.0	1	165.2	1.001	1	1.000	0	0	0.0	166.5	1.009	1	1.000	0	0	0.0
	173.9	1	174.0	1.000	1	1.000	0	0	0.0	175.9	1.011	1	1.000	0	0	0.0
neos-860244	6.1	1	6.1	0.999	1	1.000	0	0	0.0	6.2	1.011	1	1.000	0	0	0.0
	6.7	1	6.6	0.993	1	1.000	0	0	0.0	6.6	0.992	1	1.000	0	0	0.0
	6.8	1	6.9	1.001	1	1.000	0	0	0.0	6.8	0.999	1	1.000	0	0	0.0
	5.3	1	5.4	1.016	1	1.000	0	0	0.0	5.3	1.002	1	1.000	0	0	0.0
neos-860300	22.7	2	22.8	1.001	2	1.000	0	0	0.0	22.9	1.007	2	1.000	0	0	0.0
	20.5	2	20.6	1.004	2	1.000	0	0	0.0	20.4	0.997	2	1.000	0	0	0.0
	24.0	3	24.1	1.003	3	1.000	0	0	0.0	24.1	1.003	3	1.000	0	0	0.0
	21.0	2	21.0	1.001	2	1.000	0	0	0.0	21.0	1.000	2	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-862348	17.8	185	19.0	<i>1.064</i>	166	0.933	0	0	0.0	17.6	0.990	184	0.996	0	0	0.0
	9.8	38	9.7	0.993	38	1.000	0	0	0.0	9.7	0.993	38	1.000	0	0	0.0
	27.3	710	22.0	0.814	209	0.381	0	0	0.0	22.1	0.817	209	0.381	0	0	0.0
	16.5	4	16.6	1.007	4	1.000	0	0	0.0	16.8	1.015	4	1.000	0	0	0.0
neos-863472	76.3	49643	62.5	0.822	42426	0.855	0	289	27.0	69.8	0.916	46547	0.938	0	499	26.8
	66.3	43405	68.2	1.029	48044	<i>1.107</i>	0	421	29.1	54.9	0.830	37887	0.873	0	485	26.6
	44.1	28602	48.2	<i>1.093</i>	30659	<i>1.072</i>	0	213	31.4	43.8	0.993	27863	0.974	0	353	28.2
	61.8	41542	61.7	0.997	44326	<i>1.067</i>	0	292	30.6	54.9	0.889	38730	0.932	0	372	28.9
neos-872648	limit	10	limit	1.000	9	0.991	0	0	0.0	limit	1.000	10	1.000	0	0	0.0
	limit	222	limit	1.000	213	0.972	0	2	275.3	limit	1.000	210	0.963	0	2	275.3
	limit	30	limit	1.000	29	0.992	0	0	0.0	limit	1.000	30	1.000	0	0	0.0
	limit	219	limit	1.000	204	0.953	0	0	246.5	limit	1.000	204	0.953	0	0	246.5
neos-873061	limit	6397	limit	1.000	1511	0.248	0	2	350.4	limit	1.000	992	0.168	0	0	360.0
	limit	10067	limit	1.000	7959	0.793	0	4	309.3	limit	1.000	9194	0.914	0	2	319.8
	limit	996	limit	1.000	1414	<i>1.381</i>	0	2	265.2	limit	1.000	1003	1.006	0	0	318.4
	limit	7157	limit	1.000	7853	<i>1.096</i>	0	0	319.2	limit	1.000	4949	0.696	0	0	314.0
neos-876808	limit	19	limit	1.000	20	1.008	0	0	0.0	limit	1.000	19	1.000	0	0	0.0
	limit	13	limit	1.000	13	1.000	0	0	0.0	limit	1.000	13	1.000	0	0	0.0
	limit	2	limit	1.000	2	1.000	0	0	0.0	limit	1.000	2	1.000	0	0	0.0
	limit	1	limit	1.000	1	1.000	0	0	0.0	limit	1.000	1	1.000	0	0	0.0
neos-880324	1.1	12	1.1	0.953	12	1.000	0	0	0.0	1.1	0.967	12	1.000	0	0	0.0
	1.4	8	1.4	1.004	8	1.000	0	0	0.0	1.4	1.000	8	1.000	0	0	0.0
	1.0	4	0.9	0.961	4	1.000	0	0	0.0	1.0	1.000	4	1.000	0	0	0.0
	1.3	19	1.3	0.979	19	1.000	0	0	0.0	1.3	0.983	19	1.000	0	0	0.0
neos-881765	4.3	54	4.3	0.993	54	1.000	0	0	0.0	4.4	1.007	54	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	2.9	22	3.0	1.010	22	1.000	0	0	0.0	3.0	1.013	22	1.000	0	0	0.0
	3.1	23	3.1	1.010	23	1.000	0	0	0.0	3.1	1.010	23	1.000	0	0	0.0
neos-885086	6516.2	530	1800.0	0.276	236	0.533	0	0	458.0	limit	<i>1.105</i>	872	<i>1.543</i>	0	1	213.0
	4611.0	201	limit	<i>1.561</i>	837	<i>3.113</i>	0	0	353.0	4601.3	0.998	201	1.000	0	0	0.0
	2076.7	82	limit	<i>3.466</i>	659	<i>4.170</i>	0	0	383.0	2073.7	0.999	82	1.000	0	0	0.0
	2004.7	78	3713.7	<i>1.852</i>	272	<i>2.090</i>	0	0	372.0	3740.5	<i>1.865</i>	201	<i>1.691</i>	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-885524	limit	1352	77.8	0.011	401	0.345	0	0	595.0	470.6	0.065	615	0.492	0	3	38.5
	25.7	25	25.1	0.976	25	1.000	0	0	0.0	25.1	0.978	25	1.000	0	0	0.0
	limit	3709	limit	1.000	4998	<i>1.338</i>	0	0	828.0	limit	1.000	4075	<i>1.096</i>	0	11	72.6
	limit	3152	limit	1.000	4396	<i>1.383</i>	0	6	323.7	5691.0	0.790	3237	1.026	0	2	67.2
neos-886822	4163.4	442088	3310.3	0.795	211217	0.478	0	455	77.4	3417.5	0.821	281362	0.637	0	393	88.5
	3276.4	320443	2028.5	0.619	150024	0.468	0	142	79.1	2557.0	0.780	215630	0.673	0	223	100.2
	2347.8	168397	3381.1	<i>1.440</i>	197060	<i>1.170</i>	0	540	69.4	4144.7	<i>1.765</i>	319303	<i>1.896</i>	0	321	90.1
	4379.5	523770	3085.8	0.705	235585	0.450	0	116	78.4	1805.5	0.412	160715	0.307	0	275	78.8
neos-892255	96.6	823	92.9	0.962	751	0.922	0	2	73.0	85.8	0.889	696	0.862	0	4	95.0
	107.7	477	117.0	<i>1.086</i>	487	1.017	0	5	18.0	86.7	0.807	408	0.880	0	0	45.0
	102.3	313	98.4	0.962	298	0.964	0	9	30.0	69.9	0.686	292	0.949	0	4	49.0
	52.5	290	52.6	1.002	290	1.000	0	0	0.0	52.7	1.004	290	1.000	0	0	0.0
neos-905856	382.4	28341	24.8	0.067	375	0.017	0	43	56.0	103.3	0.272	3718	0.134	0	110	27.6
	271.0	23676	125.8	0.466	7861	0.335	0	360	45.7	253.8	0.937	29537	<i>1.247</i>	0	249	37.9
	380.1	35578	167.4	0.442	9876	0.280	0	217	59.4	257.7	0.679	17384	0.490	0	516	34.3
	278.0	16427	754.5	<i>2.708</i>	52807	<i>3.201</i>	0	543	51.9	1037.1	<i>3.720</i>	83690	<i>5.070</i>	0	944	31.6
neos-906865	158.2	22295	135.9	0.860	17218	0.773	0	47	45.8	87.0	0.553	12330	0.555	0	53	50.8
	222.0	35672	174.6	0.787	24206	0.679	0	18	44.9	174.0	0.785	24329	0.683	0	198	41.5
	177.3	22778	177.0	0.998	27518	<i>1.207</i>	0	14	41.9	168.2	0.949	23344	1.025	0	124	46.5
	98.5	16324	142.5	<i>1.442</i>	22634	<i>1.384</i>	0	31	52.2	72.5	0.738	10074	0.619	0	134	39.4
neos-911880	1543.2	729520	419.1	0.272	166853	0.229	0	44	83.1	544.9	0.354	263970	0.362	0	12	64.2
	limit	4609415	limit	1.000	4427319	0.960	0	291	80.4	limit	1.000	5596963	<i>1.214</i>	0	254	78.3
	limit	5990982	limit	1.000	1649172	0.275	0	77	76.1	limit	1.000	3803581	0.635	0	127	84.4
	limit	4309531	limit	1.000	5869887	<i>1.362</i>	0	214	80.0	limit	1.000	3712764	0.862	0	200	63.9
neos-911970	161.1	95396	limit	<i>44.437</i>	5090332	<i>53.305</i>	0	276	94.6	199.9	<i>1.240</i>	82333	0.863	0	9	60.0
	limit	3329130	limit	1.000	5084186	<i>1.527</i>	0	582	82.0	limit	1.000	5349928	<i>1.607</i>	0	1061	88.0
	limit	7208332	limit	1.000	4048264	0.562	0	109	84.8	limit	1.000	3777856	0.524	0	80	68.3
	limit	6609750	366.5	0.051	111525	0.017	0	14	93.5	limit	1.000	6038030	0.914	0	371	91.7
neos-912015	9.9	28	10.0	1.001	28	1.000	0	0	0.0	10.0	1.005	28	1.000	0	0	0.0
	6.1	21	6.0	0.987	21	1.000	0	0	0.0	6.2	1.008	21	1.000	0	0	0.0
	17.6	845	18.4	1.040	567	0.706	0	19	40.0	18.9	<i>1.072</i>	943	<i>1.104</i>	0	22	20.0
	9.5	29	9.6	1.009	29	1.000	0	0	0.0	9.6	1.007	29	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-912023	11.0	20	11.0	1.004	20	1.000	0	0	0.0	10.7	0.980	20	1.000	0	0	0.0
	6.2	5	6.3	1.024	5	1.000	0	0	0.0	6.3	1.024	5	1.000	0	0	0.0
	8.3	22	8.4	1.005	22	1.000	0	0	0.0	8.3	0.997	22	1.000	0	0	0.0
	11.9	99	11.8	0.998	99	1.000	0	0	0.0	11.8	0.995	99	1.000	0	0	0.0
neos-913984	2.8	1	2.7	0.979	1	1.000	0	0	0.0	2.8	1.005	1	1.000	0	0	0.0
	2.7	1	2.7	1.003	1	1.000	0	0	0.0	2.7	1.005	1	1.000	0	0	0.0
	2.7	1	2.7	1.014	1	1.000	0	0	0.0	2.8	1.025	1	1.000	0	0	0.0
	2.7	1	2.7	1.000	1	1.000	0	0	0.0	2.7	1.000	1	1.000	0	0	0.0
neos-914441	8.8	1	8.9	1.005	1	1.000	0	0	0.0	8.9	1.005	1	1.000	0	0	0.0
	4.6	1	4.6	0.989	1	1.000	0	0	0.0	4.6	0.995	1	1.000	0	0	0.0
	17.2	2	17.1	0.997	2	1.000	0	0	0.0	17.1	0.995	2	1.000	0	0	0.0
	10.4	2	10.4	1.004	2	1.000	0	0	0.0	10.5	1.011	2	1.000	0	0	0.0
neos-916173	115.8	10892	105.9	0.916	10649	0.978	0	12	58.2	119.7	1.033	11472	<i>1.053</i>	0	54	59.4
	149.6	14771	88.2	0.593	7774	0.529	0	4	59.7	139.9	0.936	13490	0.914	0	26	56.8
	181.3	19965	154.8	0.855	12392	0.623	0	11	57.2	205.0	<i>1.130</i>	24962	<i>1.249</i>	0	35	54.8
	122.7	13274	104.7	0.854	8603	0.651	0	25	57.7	108.5	0.885	10810	0.816	0	13	60.9
neos-916792	1020.9	103012	1368.2	<i>1.340</i>	138606	<i>1.345</i>	0	84	71.2	1374.5	<i>1.346</i>	161197	<i>1.564</i>	0	24	73.9
	1101.8	124932	1431.2	<i>1.299</i>	161126	<i>1.289</i>	1	394	69.9	957.5	0.869	99827	0.799	0	257	67.2
	2288.4	236234	965.7	0.422	87110	0.369	0	53	65.4	761.6	0.333	67235	0.285	0	92	66.1
	850.2	70920	1863.8	<i>2.191</i>	230216	<i>3.243</i>	0	78	68.8	2148.7	<i>2.526</i>	213105	<i>3.002</i>	0	253	70.1
neos-930752	limit	2977	limit	1.000	2309	0.783	0	0	95.3	limit	1.000	2102	0.716	0	150	87.1
	limit	2298	limit	1.000	2382	1.035	0	0	99.0	limit	1.000	2122	0.927	0	123	88.4
	limit	1557	limit	1.000	2423	<i>1.523</i>	0	41	109.9	limit	1.000	3746	<i>2.321</i>	0	43	128.9
	limit	2497	limit	1.000	2478	0.993	0	44	114.3	limit	1.000	2530	1.013	0	106	100.0
neos-931517	limit	1984	limit	1.000	1484	0.760	0	0	835.1	limit	1.000	1476	0.756	0	0	100.7
	limit	1298	limit	1.000	1609	<i>1.222</i>	0	0	850.7	limit	1.000	1248	0.964	0	0	226.4
	limit	903	limit	1.000	1070	<i>1.167</i>	0	0	850.7	limit	1.000	833	0.930	0	0	142.8
	limit	1211	limit	1.000	1283	<i>1.055</i>	0	0	852.0	limit	1.000	1188	0.982	0	0	190.7
neos-931538	90.2	5	75.7	0.841	5	1.000	0	0	0.0	72.1	0.801	5	1.000	0	0	0.0
	93.3	5	93.7	1.004	5	1.000	0	0	0.0	93.9	1.006	5	1.000	0	0	0.0
	115.9	5	102.1	0.882	5	1.000	0	0	0.0	115.6	0.997	5	1.000	0	0	0.0
	115.1	5	100.7	0.876	5	1.000	0	0	0.0	96.5	0.840	5	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-932721	3.7	1	3.7	1.002	1	1.000	0	0	0.0	3.7	1.006	1	1.000	0	0	0.0
	3.0	1	2.9	0.970	1	1.000	0	0	0.0	3.0	1.007	1	1.000	0	0	0.0
	2.9	1	2.9	0.990	1	1.000	0	0	0.0	2.9	0.985	1	1.000	0	0	0.0
	2.6	1	2.5	0.986	1	1.000	0	0	0.0	2.5	0.989	1	1.000	0	0	0.0
neos-932816	limit	2390	limit	1.000	1101	0.482	0	3	628.5	limit	1.000	1072	0.471	0	0	654.1
	2672.5	414	3130.2	<i>1.171</i>	582	<i>1.327</i>	0	18	701.4	3078.3	<i>1.152</i>	594	<i>1.350</i>	0	15	699.1
	1375.8	201	1326.2	0.964	191	0.967	0	0	847.0	1372.4	0.998	201	1.000	0	0	0.0
	3406.9	577	2808.0	0.824	566	0.984	0	6	780.2	3186.0	0.935	534	0.936	0	27	357.4
neos-933364	38.5	7312	34.1	0.888	4170	0.576	0	3	45.4	32.6	0.851	2151	0.304	0	0	37.7
	39.1	5010	65.8	<i>1.667</i>	20459	<i>4.023</i>	0	2	52.0	43.3	<i>1.106</i>	4598	0.919	0	0	47.2
	36.4	9857	34.4	0.948	5057	0.518	0	0	40.6	40.5	<i>1.109</i>	10120	1.026	0	4	42.2
	64.2	11640	119.1	<i>1.844</i>	32533	<i>2.780</i>	0	7	61.6	72.1	<i>1.121</i>	16270	<i>1.394</i>	0	8	53.2
neos-933550	4.8	27	4.7	0.979	27	1.000	0	0	0.0	4.7	0.990	27	1.000	0	0	0.0
	4.8	28	4.7	0.988	28	1.000	0	0	0.0	4.6	0.981	28	1.000	0	0	0.0
	4.7	31	4.8	1.007	31	1.000	0	0	0.0	4.8	1.009	31	1.000	0	0	0.0
	4.3	25	4.2	0.994	25	1.000	0	0	0.0	4.3	1.000	25	1.000	0	0	0.0
neos-933562	limit	37510	limit	1.000	34409	0.918	0	89	237.5	limit	1.000	41331	<i>1.102</i>	0	2995	65.3
	limit	33828	limit	1.000	63570	<i>1.877</i>	0	88	233.4	limit	1.000	45204	<i>1.335</i>	0	283	129.1
	limit	21832	limit	1.000	22068	1.011	0	45	228.3	limit	1.000	21847	1.001	0	448	82.6
	limit	56026	limit	1.000	39648	0.708	0	62	228.7	limit	1.000	70192	<i>1.252</i>	0	156	88.5
neos-933638	4352.1	737	limit	<i>1.654</i>	887	<i>1.179</i>	0	4	855.5	1456.6	0.335	178	0.332	0	0	0.0
	limit	949	2894.7	0.402	246	0.330	0	0	936.0	5504.6	0.765	485	0.558	0	0	1132.5
	3010.8	477	5837.4	<i>1.939</i>	907	<i>1.745</i>	0	4	676.5	limit	<i>2.391</i>	629	<i>1.263</i>	0	39	400.5
	limit	427	4284.9	0.595	767	<i>1.645</i>	0	10	912.5	4837.9	0.672	526	<i>1.188</i>	0	88	84.3
neos-933815	23.9	2843	34.6	<i>1.428</i>	12053	<i>4.129</i>	0	45	36.8	89.0	<i>3.606</i>	60746	<i>20.675</i>	0	55	40.5
	31.6	13520	44.7	<i>1.400</i>	23405	<i>1.726</i>	0	11	42.4	78.6	<i>2.438</i>	56757	<i>4.175</i>	0	64	40.7
	222.3	74601	40.2	0.185	15872	0.214	0	16	46.3	50.0	0.228	17179	0.231	0	14	48.2
	23.7	4924	36.4	<i>1.515</i>	15493	<i>3.104</i>	0	40	48.1	37.4	<i>1.557</i>	20155	<i>4.032</i>	0	17	39.1
neos-933966	1498.2	366	limit	<i>4.803</i>	2065	<i>4.646</i>	0	41	804.4	3389.0	<i>2.261</i>	1422	<i>3.266</i>	0	70	525.8
	4877.1	1243	1793.5	0.368	114	0.159	0	2	878.5	1980.2	0.406	231	0.246	0	0	1242.0
	1450.1	385	5337.8	<i>3.679</i>	1618	<i>3.542</i>	0	4	708.7	5495.6	<i>3.788</i>	993	<i>2.254</i>	0	167	593.8
	1965.8	121	2847.3	<i>1.448</i>	1091	<i>5.389</i>	0	0	666.5	1203.5	0.612	58	0.715	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T_Q	N	N_Q	F	C	D_\emptyset	T	T_Q	N	N_Q	F	C	D_\emptyset
neos-934278	limit	1892	limit	1.000	715	0.409	0	0	834.4	limit	1.000	519	0.311	0	0	676.0
	limit	1155	limit	1.000	1827	<i>1.535</i>	0	12	710.0	limit	1.000	3141	<i>2.582</i>	0	356	255.9
	limit	1745	limit	1.000	462	0.305	0	0	825.2	limit	1.000	890	0.537	0	68	100.8
	limit	802	7122.1	0.989	2652	<i>3.051</i>	0	226	475.1	limit	1.000	1545	<i>1.824</i>	0	64	363.9
neos-934441	limit	595	limit	1.000	597	1.003	0	0	857.7	limit	1.000	740	<i>1.209</i>	0	16	80.0
	limit	1585	limit	1.000	1757	<i>1.102</i>	0	28	588.4	limit	1.000	1671	<i>1.051</i>	0	42	483.5
	limit	486	limit	1.000	533	<i>1.080</i>	0	0	840.0	limit	1.000	653	<i>1.285</i>	0	0	69.0
	limit	1803	limit	1.000	774	0.459	0	20	644.0	limit	1.000	700	0.420	0	0	466.0
neos-934531	95.5	1	95.3	0.999	1	1.000	0	0	0.0	97.4	1.020	1	1.000	0	0	0.0
	138.6	2	138.5	0.999	2	1.000	0	0	0.0	138.4	0.999	2	1.000	0	0	0.0
	173.1	12	173.2	1.000	12	1.000	0	0	0.0	174.3	1.007	12	1.000	0	0	0.0
	133.8	10	134.3	1.004	10	1.000	0	0	0.0	133.1	0.995	10	1.000	0	0	0.0
neos-935234	limit	485	limit	1.000	1093	<i>2.039</i>	0	48	716.9	limit	1.000	672	<i>1.320</i>	0	7	419.1
	limit	773	limit	1.000	445	0.624	0	0	826.7	limit	1.000	441	0.620	0	12	108.7
	limit	606	limit	1.000	721	<i>1.163</i>	0	0	1049.0	limit	1.000	583	0.967	0	14	390.0
	limit	505	limit	1.000	984	<i>1.792</i>	0	0	896.4	limit	1.000	485	0.967	0	24	120.8
neos-935348	limit	678	limit	1.000	441	0.695	0	1	845.6	limit	1.000	422	0.671	0	1	84.2
	limit	551	limit	1.000	506	0.931	0	1	693.2	limit	1.000	328	0.657	0	22	50.7
	limit	497	limit	1.000	458	0.935	0	0	801.7	limit	1.000	532	<i>1.059</i>	0	1	286.5
	limit	489	limit	1.000	461	0.952	0	0	823.3	limit	1.000	1106	<i>2.048</i>	0	0	355.0
neos-935496	limit	1191133	limit	1.000	1255774	<i>1.054</i>	0	629	103.3	limit	1.000	1080735	0.907	0	147	121.8
	limit	788283	limit	1.000	846160	<i>1.073</i>	0	219	153.8	limit	1.000	873923	<i>1.109</i>	0	459	105.1
	limit	733418	limit	1.000	799364	<i>1.090</i>	0	210	119.8	limit	1.000	806205	<i>1.099</i>	0	208	112.5
	limit	971382	limit	1.000	1252686	<i>1.290</i>	0	241	122.8	limit	1.000	867303	0.893	0	378	101.0
neos-935627	limit	516	limit	1.000	522	1.010	0	0	836.0	limit	1.000	471	0.927	0	6	254.7
	limit	2367	limit	1.000	541	0.260	0	0	968.2	limit	1.000	454	0.225	0	3	73.8
	limit	513	limit	1.000	660	<i>1.240</i>	0	0	813.7	limit	1.000	520	1.011	0	1	263.8
	limit	464	limit	1.000	601	<i>1.243</i>	0	0	835.0	limit	1.000	530	<i>1.117</i>	0	0	290.5
neos-935674	limit	534034	limit	1.000	616393	<i>1.154</i>	0	2041	93.6	limit	1.000	701621	<i>1.314</i>	0	1430	105.2
	limit	867257	limit	1.000	876808	1.011	0	366	140.0	limit	1.000	980052	<i>1.130</i>	0	1164	111.3
	limit	743414	limit	1.000	849350	<i>1.142</i>	0	478	164.8	limit	1.000	647251	0.871	0	1219	98.0
	limit	1086771	limit	1.000	1184963	<i>1.090</i>	0	6481	81.2	limit	1.000	865566	0.796	0	2097	82.7

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
neos-935769	limit	2983	limit	1.000	934	0.335	0	21	668.4	limit	1.000	773	0.283	0	5	270.4
	limit	1066	6361.8	0.884	4126	<i>3.624</i>	0	56	303.5	2635.1	0.366	331	0.370	0	2	98.7
	limit	2240	limit	1.000	677	0.332	0	18	546.2	2426.6	0.337	305	0.173	0	8	72.5
	6573.5	2397	3427.1	0.521	417	0.207	0	1	551.0	limit	<i>1.095</i>	1049	0.460	0	6	90.0
neos-936660	limit	615	limit	1.000	724	<i>1.152</i>	0	1	784.5	limit	1.000	795	<i>1.252</i>	0	5	346.8
	limit	1419	limit	1.000	410	0.336	0	1	845.3	limit	1.000	529	0.414	0	4	118.0
	7050.4	1769	limit	1.021	1127	0.657	0	0	427.3	limit	1.021	1072	0.627	0	97	425.2
	limit	462	limit	1.000	1261	<i>2.422</i>	0	0	383.0	limit	1.000	1018	<i>1.989</i>	0	84	98.2
neos-937446	3015.9	771	1355.6	0.450	263	0.417	0	0	209.0	limit	<i>2.387</i>	1996	<i>2.406</i>	0	224	165.8
	limit	1682	limit	1.000	1309	0.791	0	0	146.8	5265.7	0.731	534	0.356	0	2	109.5
	limit	955	limit	1.000	1248	<i>1.278</i>	0	35	372.5	4558.4	0.633	1436	<i>1.456</i>	0	3	172.4
	limit	1482	limit	1.000	1731	<i>1.157</i>	0	98	282.4	2927.3	0.407	413	0.324	0	0	1278.0
neos-937511	limit	663	5476.3	0.761	1866	<i>2.577</i>	0	54	300.0	4956.1	0.688	1095	<i>1.566</i>	0	1	610.3
	limit	761	3879.0	0.539	896	<i>1.157</i>	0	72	731.5	2824.6	0.392	206	0.355	0	2	58.5
	6362.0	687	limit	<i>1.132</i>	1162	<i>1.604</i>	0	91	539.3	4721.1	0.742	1121	<i>1.551</i>	0	67	192.8
	4683.4	1441	6594.8	<i>1.408</i>	2031	<i>1.383</i>	0	116	368.6	1469.5	0.314	163	0.171	0	0	149.0
neos-937815	limit	663	limit	1.000	789	<i>1.165</i>	0	0	969.6	limit	1.000	2328	<i>3.182</i>	0	45	465.2
	limit	771	limit	1.000	717	0.938	0	1	976.9	limit	1.000	1689	<i>2.054</i>	0	2	365.8
	limit	657	limit	1.000	661	1.005	0	0	977.2	limit	1.000	1110	<i>1.598</i>	0	9	394.3
	limit	1242	limit	1.000	1793	<i>1.411</i>	0	1	858.7	limit	1.000	734	0.621	0	12	136.2
neos-941262	limit	792	limit	1.000	608	0.794	0	0	786.2	limit	1.000	1315	<i>1.586</i>	0	64	191.7
	limit	743	limit	1.000	723	0.976	0	1	621.4	limit	1.000	527	0.744	0	67	513.1
	limit	711	limit	1.000	841	<i>1.160</i>	0	0	1033.0	limit	1.000	738	1.033	0	3	500.6
	limit	807	limit	1.000	722	0.906	0	0	762.2	limit	1.000	659	0.837	0	36	260.5
neos-941313	limit	171	limit	1.000	178	1.026	0	11	505.3	4273.7	0.594	56	0.576	0	9	121.0
	1369.2	5	1390.2	1.015	5	1.000	0	0	0.0	1370.6	1.001	5	1.000	0	0	0.0
	1523.3	5	835.0	0.548	6	1.010	0	0	0.0	4772.2	<i>3.131</i>	350	<i>4.286</i>	0	2	58.0
	5887.8	201	5719.1	0.971	185	0.947	0	0	489.0	6868.4	<i>1.167</i>	274	<i>1.243</i>	0	18	216.0
neos-941698	26.7	953	23.4	0.883	483	0.554	0	19	25.5	26.2	0.984	836	0.889	0	49	30.5
	11.2	71	11.1	0.998	71	1.000	0	0	0.0	11.2	0.999	71	1.000	0	0	0.0
	16.9	123	16.7	0.991	123	1.000	0	0	0.0	16.7	0.990	123	1.000	0	0	0.0
	14.8	99	14.7	0.997	99	1.000	0	0	0.0	14.7	0.999	99	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-941717	limit	788323	limit	1.000	940263	<i>1.193</i>	0	251	167.6	limit	1.000	871332	<i>1.105</i>	0	696	115.8
	limit	679140	limit	1.000	631355	0.930	0	157	189.9	limit	1.000	772858	<i>1.138</i>	0	130	184.1
	limit	983858	limit	1.000	1101893	<i>1.120</i>	0	99	174.3	limit	1.000	1052585	<i>1.070</i>	0	668	86.5
	limit	737191	limit	1.000	807380	<i>1.095</i>	0	246	138.4	limit	1.000	959423	<i>1.301</i>	0	2016	79.5
neos-941782	limit	1376577	limit	1.000	1328870	0.965	0	1912	116.1	limit	1.000	1282289	0.932	0	2918	91.0
	limit	1328103	limit	1.000	1087049	0.819	0	397	132.9	limit	1.000	929692	0.700	0	637	90.3
	limit	940019	limit	1.000	1339107	<i>1.425</i>	0	606	146.3	limit	1.000	1139969	<i>1.213</i>	0	1182	86.4
	limit	1266159	limit	1.000	1366871	<i>1.080</i>	0	2941	100.1	limit	1.000	1495457	<i>1.181</i>	0	9847	65.7
neos-942323	4.8	30	4.8	1.002	30	1.000	0	0	0.0	4.6	0.967	30	1.000	0	0	0.0
	8.9	490	8.8	0.980	490	1.000	0	0	0.0	8.8	0.989	490	1.000	0	0	0.0
	5.9	97	5.8	0.997	97	1.000	0	0	0.0	5.8	0.997	97	1.000	0	0	0.0
	9.3	714	9.2	0.988	714	1.000	0	0	0.0	9.3	0.997	714	1.000	0	0	0.0
neos-942830	1711.8	470887	1442.4	0.843	384859	0.817	0	1416	75.4	998.8	0.584	240739	0.511	0	1236	44.3
	1148.5	345134	824.3	0.718	243577	0.706	0	1459	79.1	2329.1	<i>2.027</i>	669215	<i>1.939</i>	0	4134	53.0
	514.8	95831	687.8	<i>1.335</i>	182134	<i>1.900</i>	0	485	74.1	1360.2	<i>2.639</i>	420629	<i>4.386</i>	0	1661	44.4
	2406.5	621947	1458.3	0.606	308675	0.496	0	659	100.0	2724.8	<i>1.132</i>	823956	<i>1.325</i>	0	1897	52.6
neos-942886	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.6	1.047	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
neos-948126	limit	753	limit	1.000	653	0.883	0	0	669.5	limit	1.000	672	0.905	0	14	57.8
	limit	960	limit	1.000	1579	<i>1.584</i>	0	0	832.0	limit	1.000	775	0.825	0	7	656.0
	limit	637	limit	1.000	717	<i>1.109</i>	0	0	659.2	limit	1.000	897	<i>1.353</i>	0	0	727.6
	limit	904	limit	1.000	1001	<i>1.097</i>	0	0	806.7	limit	1.000	692	0.789	0	6	577.5
neos-948268	11.7	1	11.4	0.980	1	1.000	0	0	0.0	11.8	1.011	1	1.000	0	0	0.0
	15.2	1	15.3	1.003	1	1.000	0	0	0.0	15.2	0.998	1	1.000	0	0	0.0
	10.1	1	10.0	0.994	1	1.000	0	0	0.0	10.0	0.996	1	1.000	0	0	0.0
	13.4	1	13.4	0.997	1	1.000	0	0	0.0	13.3	0.997	1	1.000	0	0	0.0
neos-948346	limit	80	limit	1.000	81	1.006	0	0	318.0	limit	1.000	81	1.006	0	6	48.0
	limit	142	limit	1.000	250	<i>1.446</i>	0	46	84.7	limit	1.000	82	0.752	0	0	47.0
	limit	104	limit	1.000	264	<i>1.784</i>	2	9	261.3	limit	1.000	155	<i>1.250</i>	0	175	298.0
	limit	152	limit	1.000	110	0.833	0	0	117.0	limit	1.000	113	0.845	0	12	28.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
neos-950242	635.2	156	430.0	0.678	137	0.926	0	0	349.3	420.7	0.663	78	0.695	0	41	145.7
	247.7	49	292.9	<i>1.182</i>	62	<i>1.087</i>	0	0	367.0	268.9	<i>1.085</i>	58	<i>1.060</i>	0	30	78.0
	309.8	103	263.6	0.851	39	0.685	0	0	560.0	311.0	1.004	70	0.837	0	31	124.0
	385.3	59	741.4	<i>1.922</i>	194	<i>1.849</i>	0	0	220.0	560.8	<i>1.454</i>	114	<i>1.346</i>	0	118	67.0
neos-952987	limit	13	limit	1.000	13	1.000	0	0	2685.0	limit	1.000	12	0.991	0	0	0.0
	limit	19	limit	1.000	19	1.000	0	0	2591.0	limit	1.000	19	1.000	0	0	0.0
	limit	7	limit	1.000	7	1.000	0	0	0.0	limit	1.000	8	1.009	0	0	0.0
	limit	28	limit	1.000	27	0.992	0	0	2473.0	limit	1.000	27	0.992	0	0	0.0
neos-953928	489.7	73	516.2	<i>1.054</i>	97	<i>1.139</i>	0	0	128.0	555.8	<i>1.135</i>	89	<i>1.092</i>	0	0	101.0
	460.4	70	452.9	0.984	72	1.012	0	0	126.0	432.6	0.940	53	0.900	0	48	76.0
	673.5	49	662.8	0.984	43	0.960	1	0	28.0	551.7	0.819	27	0.852	0	0	36.0
	442.3	34	855.9	<i>1.933</i>	69	<i>1.261</i>	0	0	174.3	548.1	<i>1.239</i>	46	<i>1.090</i>	0	0	86.0
neos-954925	5325.6	119	6805.4	<i>1.278</i>	326	<i>1.945</i>	0	0	125.2	2207.4	0.415	92	0.877	0	0	291.0
	2744.2	81	3209.6	<i>1.170</i>	93	<i>1.066</i>	0	0	39.0	2872.2	1.047	155	<i>1.409</i>	0	0	324.0
	4097.1	252	3631.8	0.886	160	0.739	0	0	182.3	4117.2	1.005	191	0.827	0	3	104.0
	3339.2	78	2834.6	0.849	41	0.792	0	0	0.0	4337.6	<i>1.299</i>	882	<i>5.517</i>	0	0	149.0
neos-955215	42.5	61981	18.9	0.458	17654	0.286	0	62	25.4	21.1	0.507	21699	0.351	0	100	24.6
	22.1	20031	16.2	0.743	7955	0.400	0	77	23.3	12.6	0.589	9325	0.468	0	45	25.5
	16.9	12998	16.0	0.951	17102	<i>1.313</i>	0	84	24.3	14.0	0.840	10838	0.835	0	60	24.4
	12.0	7728	8.9	0.761	3797	0.498	0	26	20.8	10.4	0.880	5507	0.716	0	34	24.0
neos-955800	93.1	2717	74.1	0.798	2143	0.796	0	111	66.4	70.0	0.754	2098	0.780	0	50	36.7
	42.9	851	47.9	<i>1.115</i>	998	<i>1.155</i>	0	54	59.6	50.4	<i>1.172</i>	1054	<i>1.213</i>	1	160	28.5
	50.1	854	39.5	0.793	707	0.846	0	0	65.0	55.5	<i>1.106</i>	1181	<i>1.343</i>	0	86	22.2
	78.6	2357	60.3	0.771	1323	0.579	0	94	77.4	64.3	0.820	1467	0.638	0	106	37.5
neos-956971	4945.3	1140	3847.5	0.778	284	0.310	0	0	62.8	2208.6	0.447	107	0.167	0	0	424.0
	limit	1472	limit	1.000	219	0.203	0	0	32.0	limit	1.000	385	0.309	0	46	98.2
	2337.2	72	3483.1	<i>1.490</i>	694	<i>4.616</i>	0	0	98.5	2380.5	1.019	67	0.971	0	0	102.0
	limit	821	limit	1.000	372	0.512	0	15	58.2	limit	1.000	1182	<i>1.392</i>	1	132	187.7
neos-957143	4960.7	1625	1233.4	0.249	41	0.082	0	0	32.0	1343.2	0.271	74	0.101	0	70	117.5
	53.2	1	4919.6	<i>90.854</i>	318	<i>4.139</i>	0	0	62.0	52.0	0.979	1	1.000	0	0	0.0
	2918.2	112	5666.3	<i>1.941</i>	226	<i>1.538</i>	0	28	100.0	3158.4	<i>1.082</i>	289	<i>1.835</i>	0	5	190.5
	2824.8	130	4441.3	<i>1.572</i>	319	<i>1.822</i>	0	33	58.5	2797.3	0.990	201	<i>1.309</i>	0	36	39.8

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T_Q	N	N_Q	F	C	D_\emptyset	T	T_Q	N	N_Q	F	C	D_\emptyset
neos-957270	2.6	1	2.4	0.966	1	1.000	0	0	0.0	2.5	0.978	1	1.000	0	0	0.0
	2.4	1	2.5	1.015	1	1.000	0	0	0.0	2.4	0.997	1	1.000	0	0	0.0
	2.4	1	2.4	0.994	1	1.000	0	0	0.0	2.4	0.994	1	1.000	0	0	0.0
	2.4	1	2.4	1.003	1	1.000	0	0	0.0	2.4	1.000	1	1.000	0	0	0.0
neos-957323	123.8	2	123.8	1.001	2	1.000	0	0	0.0	77.6	0.630	2	1.000	0	0	0.0
	322.2	17	356.1	<i>1.105</i>	18	1.009	0	0	0.0	354.6	<i>1.100</i>	18	1.009	0	0	0.0
	136.2	3	136.2	1.000	3	1.000	0	0	0.0	137.0	1.006	3	1.000	0	0	0.0
	96.3	2	100.6	1.044	2	1.000	0	0	0.0	96.3	1.000	2	1.000	0	0	0.0
neos-957389	17.4	1	17.6	1.011	1	1.000	0	0	0.0	17.3	0.997	1	1.000	0	0	0.0
	17.4	1	17.5	1.005	1	1.000	0	0	0.0	17.5	1.005	1	1.000	0	0	0.0
	17.4	1	17.4	1.000	1	1.000	0	0	0.0	17.3	0.998	1	1.000	0	0	0.0
	17.4	1	17.4	1.002	1	1.000	0	0	0.0	17.8	1.021	1	1.000	0	0	0.0
neos-960392	849.9	15	849.6	1.000	15	1.000	0	0	0.0	851.7	1.002	15	1.000	0	0	0.0
	1671.7	98	1009.2	0.604	28	0.646	0	0	86.0	1040.6	0.623	34	0.677	0	1	56.0
	1067.4	69	2211.1	<i>2.070</i>	269	<i>2.183</i>	0	1	198.0	1603.8	<i>1.502</i>	156	<i>1.515</i>	0	1	57.0
	1244.5	38	1346.2	<i>1.082</i>	58	<i>1.145</i>	0	0	170.0	2098.0	<i>1.685</i>	298	<i>2.884</i>	0	217	104.7
neos-983171	limit	573	limit	1.000	451	0.819	0	0	733.8	limit	1.000	389	0.727	0	0	1088.7
	limit	618	limit	1.000	556	0.914	0	0	856.9	limit	1.000	454	0.772	0	0	1086.0
	limit	853	limit	1.000	608	0.743	0	0	741.6	limit	1.000	499	0.629	0	0	1095.0
	limit	455	limit	1.000	326	0.768	0	0	737.0	limit	1.000	404	0.908	0	0	998.6
neos-984165	limit	1405	limit	1.000	611	0.472	0	0	733.7	limit	1.000	636	0.489	0	0	1064.5
	limit	561	limit	1.000	482	0.880	0	0	726.1	limit	1.000	518	0.935	0	0	937.9
	limit	512	limit	1.000	586	<i>1.121</i>	0	0	725.8	limit	1.000	554	<i>1.069</i>	0	1	826.5
	limit	823	limit	1.000	516	0.667	0	0	723.8	limit	1.000	639	0.801	0	5	847.2
neos13	251.9	10896	504.0	<i>1.997</i>	23323	<i>2.130</i>	0	118	99.8	158.2	0.629	5088	0.472	0	4	38.0
	144.5	4884	785.3	<i>5.403</i>	39311	<i>7.908</i>	0	118	98.9	116.7	0.809	2858	0.593	0	2	52.0
	560.5	27179	101.5	0.182	1594	0.062	1	0	18.0	977.9	<i>1.743</i>	55783	<i>2.049</i>	2	109	92.2
	659.1	33273	560.5	0.851	23947	0.721	0	40	119.0	498.3	0.756	28274	0.850	0	109	103.2
neos18	28.4	1195	30.1	<i>1.060</i>	1291	<i>1.074</i>	0	50	19.3	28.4	1.000	1193	0.998	0	44	24.0
	41.4	2800	31.0	0.755	1573	0.577	0	76	21.4	30.6	0.747	1512	0.556	0	83	17.4
	29.9	1130	28.0	0.939	1011	0.903	0	25	40.0	26.8	0.899	857	0.778	1	61	50.0
	26.5	941	26.3	0.993	946	1.005	0	9	27.0	25.8	0.976	928	0.988	0	9	10.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T_Q	N	N_Q	F	C	D_\emptyset	T	T_Q	N	N_Q	F	C	D_\emptyset
net12	831.6	1539	1036.3	<i>1.246</i>	2252	<i>1.435</i>	0	117	55.3	965.4	<i>1.161</i>	1925	<i>1.236</i>	1	371	30.6
	931.5	1656	923.5	0.991	1907	<i>1.143</i>	0	243	35.4	922.5	0.990	1914	<i>1.147</i>	1	221	29.1
	2372.8	1571	2562.6	<i>1.080</i>	1799	<i>1.136</i>	0	257	32.0	2643.2	<i>1.114</i>	2724	<i>1.690</i>	0	365	26.3
	1908.0	2158	4152.5	<i>2.176</i>	3677	<i>1.673</i>	0	378	38.4	767.1	0.402	1462	0.692	0	88	27.0
netdiversion	1107.0	55	1104.4	0.998	59	1.026	1	0	993.0	1553.8	<i>1.403</i>	68	<i>1.084</i>	0	0	993.0
	2874.7	75	2575.6	0.896	66	0.949	0	0	187.0	2568.8	0.894	66	0.949	0	0	166.0
	6390.9	149	4748.0	0.743	261	<i>1.450</i>	1	13	898.7	6359.6	0.995	140	0.964	0	11	1083.0
	1042.8	27	1044.2	1.001	26	0.992	0	1	9.0	1054.8	1.011	27	1.000	0	3	11.0
newdano	limit	1264180	limit	1.000	1232571	0.975	0	9	21.9	limit	1.000	1286241	1.017	0	3	31.2
	limit	1124180	limit	1.000	1299616	<i>1.156</i>	0	1	22.1	limit	1.000	1175614	1.046	0	1	30.6
	limit	1151118	limit	1.000	1138354	0.989	0	5	21.8	limit	1.000	1114040	0.968	1	2	27.2
	limit	1368041	limit	1.000	1346166	0.984	2	12	21.6	limit	1.000	1487867	<i>1.088</i>	0	1	30.1
noswot	319.4	930332	283.1	0.887	813210	0.874	0	521	29.6	255.1	0.799	775820	0.834	0	372	30.3
	209.1	638764	197.4	0.944	590698	0.925	0	580	29.2	197.8	0.946	627162	0.982	0	341	29.5
	368.2	1222044	291.7	0.793	919828	0.753	0	1458	27.9	133.5	0.364	384877	0.315	0	703	26.3
	184.9	547512	272.9	<i>1.473</i>	856222	<i>1.564</i>	0	752	28.1	190.9	1.032	574094	1.049	0	678	27.7
ns1208400	852.0	2184	1315.5	<i>1.543</i>	3332	<i>1.503</i>	0	46	209.0	315.3	0.371	407	0.222	0	10	38.2
	1039.1	2266	399.3	0.385	827	0.392	0	8	376.5	595.8	0.574	1887	0.840	0	217	58.0
	356.4	2042	302.3	0.849	2522	<i>1.224</i>	0	443	157.9	214.8	0.604	587	0.321	0	135	90.0
	1540.7	3819	632.8	0.411	2476	0.657	0	31	363.6	1972.6	<i>1.280</i>	7823	<i>2.022</i>	0	159	128.2
ns1688347	46.7	239	47.1	1.009	254	1.044	0	10	23.0	46.7	0.999	219	0.941	0	14	36.0
	85.9	945	70.2	0.820	688	0.754	0	339	36.6	68.7	0.802	693	0.759	0	393	20.4
	195.5	1567	182.9	0.936	1063	0.698	0	599	31.9	177.3	0.907	980	0.648	0	344	27.0
	55.2	454	63.9	<i>1.156</i>	660	<i>1.372</i>	0	160	35.4	56.3	1.019	487	<i>1.060</i>	0	91	18.6
ns1758913	5203.3	2	5142.5	0.988	2	1.000	0	0	0.0	5158.0	0.991	2	1.000	0	0	0.0
	2089.2	1	2115.3	1.012	1	1.000	0	0	0.0	2084.0	0.997	1	1.000	0	0	0.0
	2234.6	1	2219.4	0.993	1	1.000	0	0	0.0	2201.7	0.985	1	1.000	0	0	0.0
	1487.7	1	1490.2	1.002	1	1.000	0	0	0.0	1491.3	1.002	1	1.000	0	0	0.0
ns1766074	816.4	890073	806.8	0.988	889034	0.999	0	184	31.1	818.2	1.002	887883	0.998	0	343	29.6
	880.1	899379	916.1	1.041	904416	1.006	0	417	29.9	900.5	1.023	898389	0.999	0	453	30.2
	807.0	902001	807.6	1.001	901625	1.000	0	154	29.8	800.5	0.992	901502	0.999	0	226	30.8
	910.7	901843	902.7	0.991	902421	1.001	0	363	30.2	935.2	1.027	902125	1.000	0	353	30.9

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Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
ns1830653	358.9	19335	245.5	0.685	11159	0.579	0	973	30.7	201.9	0.564	9374	0.487	0	1789	21.9
	164.9	5757	132.1	0.802	4245	0.742	1	547	42.6	142.7	0.866	4047	0.708	1	328	26.6
	132.0	5316	177.6	<i>1.343</i>	7106	<i>1.331</i>	0	1026	37.1	155.6	<i>1.177</i>	5127	0.965	0	965	25.0
	193.9	8257	183.2	0.945	4909	0.599	0	370	40.8	134.6	0.696	4326	0.530	0	563	23.4
nsa	2.3	232	2.6	<i>1.110</i>	226	0.982	0	0	10.0	2.3	1.009	232	1.000	0	0	0.0
	2.3	198	2.2	0.963	212	1.047	0	0	9.5	2.4	1.027	198	1.000	0	0	9.0
	2.3	209	2.2	0.997	191	0.942	0	0	10.0	2.3	1.000	209	1.000	0	0	0.0
	2.3	203	2.4	1.033	217	1.046	0	0	9.0	2.4	1.009	203	1.000	0	0	9.0
nsrand-idx	632.3	65551	720.5	<i>1.139</i>	83815	<i>1.278</i>	0	19	84.4	361.5	0.572	36235	0.553	0	8	115.8
	766.8	84144	712.2	0.929	73290	0.871	0	36	92.0	722.3	0.942	59686	0.710	0	24	132.7
	455.1	40237	1094.1	<i>2.401</i>	113654	<i>2.820</i>	0	52	93.9	376.5	0.828	32679	0.813	0	10	122.2
	750.3	70493	444.8	0.593	41859	0.594	0	29	80.9	590.4	0.787	57642	0.818	0	11	123.0
nug08	146.4	3	146.1	0.998	3	1.000	0	0	0.0	146.1	0.998	3	1.000	0	0	0.0
	93.7	2	93.5	0.999	2	1.000	0	0	0.0	93.4	0.997	2	1.000	0	0	0.0
	209.9	4	209.3	0.997	4	1.000	0	0	0.0	209.3	0.997	4	1.000	0	0	0.0
	136.2	2	136.3	1.001	2	1.000	0	0	0.0	136.1	0.999	2	1.000	0	0	0.0
nw04	25.0	6	25.0	1.001	6	1.000	0	0	0.0	25.1	1.003	6	1.000	0	0	0.0
	25.8	6	25.8	1.001	6	1.000	0	0	0.0	25.9	1.004	6	1.000	0	0	0.0
	25.2	4	27.5	<i>1.088</i>	6	1.019	0	0	0.0	25.2	1.000	4	1.000	0	0	0.0
	38.6	9	38.7	1.001	9	1.000	0	0	0.0	39.0	1.009	9	1.000	0	0	0.0
opm2-z7-s2	344.2	2699	418.8	<i>1.216</i>	3782	<i>1.387</i>	0	91	39.9	388.2	<i>1.127</i>	3063	<i>1.130</i>	0	0	42.2
	321.9	1726	269.8	0.839	1576	0.918	0	0	18.0	265.2	0.825	1651	0.959	0	17	41.3
	330.0	2369	323.0	0.979	1537	0.663	0	179	49.5	403.2	<i>1.221</i>	3830	<i>1.592</i>	1	58	58.4
	298.2	1934	323.2	<i>1.084</i>	2091	<i>1.077</i>	0	122	46.5	274.1	0.920	1800	0.934	0	28	47.8
opt1217	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
p0033	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0

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Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
p0201	0.7	3	0.6	0.988	3	1.000	0	0	0.0	0.7	0.994	3	1.000	0	0	0.0
	0.9	9	0.9	1.005	9	1.000	0	0	0.0	0.9	1.010	9	1.000	0	0	0.0
	0.9	9	0.9	0.990	9	1.000	0	0	0.0	0.9	1.005	9	1.000	0	0	0.0
	0.8	11	0.8	1.023	11	1.000	0	0	0.0	0.8	1.034	11	1.000	0	0	0.0
p0282	0.7	2	0.6	0.970	2	1.000	0	0	0.0	0.7	1.048	2	1.000	0	0	0.0
	0.6	2	0.6	1.019	2	1.000	0	0	0.0	0.6	1.038	2	1.000	0	0	0.0
	0.8	3	0.9	1.039	3	1.000	0	0	0.0	0.8	1.022	3	1.000	0	0	0.0
	0.8	2	0.7	0.956	2	1.000	0	0	0.0	0.7	0.961	2	1.000	0	0	0.0
p0548	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
p2756	5.4	8	6.3	<i>1.148</i>	5	0.972	0	0	0.0	4.2	0.819	17	<i>1.083</i>	0	1	16.0
	4.3	14	3.4	0.823	3	0.904	0	0	0.0	3.6	0.874	24	<i>1.088</i>	0	0	26.0
	4.3	30	4.5	1.028	27	0.977	0	1	11.0	4.2	0.972	19	0.915	0	0	0.0
	3.1	2	3.2	1.032	5	1.029	0	0	0.0	2.6	0.889	2	1.000	0	0	0.0
p6b	limit	512757	limit	1.000	550754	<i>1.074</i>	1	560	26.5	limit	1.000	510159	0.995	0	201	26.9
	limit	596175	limit	1.000	576187	0.966	3	233	28.6	limit	1.000	599594	1.006	0	139	28.5
	limit	620224	limit	1.000	550144	0.887	3	299	32.7	limit	1.000	561442	0.905	0	166	32.2
	limit	581618	limit	1.000	557843	0.959	0	62	25.5	limit	1.000	510044	0.877	0	118	27.0
pg5_34	5628.2	252176	5920.9	<i>1.052</i>	238659	0.946	0	1	51.5	5625.5	1.000	228356	0.906	0	1	31.9
	1281.3	221050	1478.6	<i>1.154</i>	236000	<i>1.068</i>	0	0	48.1	1458.4	<i>1.138</i>	233600	<i>1.057</i>	0	0	29.7
	3294.3	202592	4595.4	<i>1.395</i>	225680	<i>1.114</i>	0	0	43.3	4017.6	<i>1.219</i>	227448	<i>1.123</i>	0	0	33.4
	4094.8	223003	4039.3	0.986	234406	<i>1.051</i>	1	0	46.7	3654.1	0.892	221932	0.995	0	0	32.0
pg	20.0	688	22.2	<i>1.106</i>	840	<i>1.193</i>	0	0	29.0	22.1	<i>1.097</i>	834	<i>1.185</i>	0	1	29.1
	31.6	516	34.1	<i>1.076</i>	599	<i>1.135</i>	0	0	24.0	33.5	<i>1.057</i>	615	<i>1.161</i>	0	0	33.9
	29.3	584	30.7	1.044	610	1.038	0	0	34.4	27.9	0.953	518	0.904	0	1	29.0
	19.5	182	19.9	1.018	195	1.046	0	2	24.3	19.8	1.015	189	1.025	0	2	19.3
pigeon-10	limit	15401832	5879.0	0.817	13529494	0.878	0	1986	29.1	5880.0	0.817	13430733	0.872	0	2043	30.0
	limit	17278475	limit	1.000	16585536	0.960	0	4725	29.4	limit	1.000	16371694	0.948	0	4323	28.3
	5952.4	13415056	7093.8	<i>1.192</i>	13405990	0.999	0	6026	26.9	5979.6	1.005	13639826	1.017	0	2499	27.6
	5829.3	13635194	5763.9	0.989	13640551	1.000	0	1794	27.5	5714.8	0.980	13623257	0.999	0	1539	27.7

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
pk1	130.7	329300	126.3	0.967	328666	0.998	0	55	28.3	131.3	1.004	341221	1.036	0	44	26.4
	120.2	316905	136.0	<i>1.130</i>	344203	<i>1.086</i>	0	37	27.5	118.8	0.988	310944	0.981	0	38	27.9
	117.3	298403	124.4	<i>1.060</i>	319169	<i>1.070</i>	0	45	28.1	132.8	<i>1.131</i>	348833	<i>1.169</i>	0	29	29.1
	115.7	299208	134.9	<i>1.165</i>	342753	<i>1.145</i>	0	62	27.5	134.5	<i>1.161</i>	334026	<i>1.116</i>	0	41	28.8
pp08a	2.3	257	2.9	<i>1.188</i>	282	<i>1.070</i>	0	0	26.0	2.5	<i>1.052</i>	282	<i>1.070</i>	0	0	26.0
	2.1	287	2.2	1.025	269	0.953	0	2	26.0	2.2	1.022	269	0.953	0	2	26.0
	2.3	207	2.1	0.940	164	0.860	1	3	26.0	2.1	0.922	164	0.860	1	3	26.0
	1.6	118	1.5	0.992	116	0.991	0	2	26.0	1.6	1.020	116	0.991	0	2	26.0
pp08aCUTS	2.6	180	3.4	<i>1.204</i>	329	<i>1.532</i>	0	2	23.0	3.0	<i>1.096</i>	329	<i>1.532</i>	0	2	23.0
	2.7	164	3.0	<i>1.090</i>	282	<i>1.447</i>	0	4	29.0	2.9	<i>1.071</i>	282	<i>1.447</i>	0	4	30.0
	2.5	252	2.5	1.006	250	0.994	0	1	26.0	2.6	1.023	325	<i>1.207</i>	1	2	35.0
	2.8	291	2.8	0.984	226	0.834	0	5	24.0	2.7	0.963	226	0.834	0	3	24.0
prod1	32.2	35022	27.3	0.852	30227	0.863	0	573	36.6	25.6	0.801	28403	0.812	0	422	34.9
	28.5	28250	27.7	0.972	28677	1.015	0	657	35.7	32.6	<i>1.138</i>	33204	<i>1.175</i>	0	797	35.2
	22.6	22944	20.9	0.929	22822	0.995	0	348	36.8	20.8	0.925	23358	1.018	0	424	37.8
	21.1	22434	21.6	1.023	22930	1.022	0	322	37.0	21.5	1.021	22738	1.013	0	408	35.9
prod2	152.7	112488	148.7	0.974	107994	0.960	0	465	46.0	134.8	0.883	92635	0.824	0	789	45.8
	limit	2189138	104.4	0.015	71063	0.033	0	860	44.5	105.8	0.015	81993	0.037	0	492	45.7
	113.6	95391	110.4	0.971	91488	0.959	0	824	44.8	148.0	<i>1.300</i>	111992	<i>1.174</i>	0	358	44.8
	164.1	123369	138.6	0.846	108421	0.879	0	743	45.2	135.2	0.825	101941	0.826	0	513	45.5
protfold	limit	11471	limit	1.000	8197	0.717	0	188	49.3	limit	1.000	8675	0.758	0	147	196.5
	limit	10374	limit	1.000	8406	0.812	0	325	35.6	limit	1.000	9150	0.883	0	186	215.2
	limit	14631	limit	1.000	11977	0.820	0	261	37.7	limit	1.000	10005	0.686	0	41	105.0
	limit	12858	limit	1.000	15524	<i>1.206</i>	0	493	45.1	limit	1.000	9325	0.727	0	280	178.2
pw-myciel4	1359.7	161995	749.7	0.552	90247	0.557	1	6613	45.4	940.7	0.692	113552	0.701	0	8979	29.3
	1778.5	188895	2870.5	<i>1.614</i>	348714	<i>1.846</i>	1	25218	54.9	2390.3	<i>1.344</i>	234994	<i>1.244</i>	1	5679	40.3
	5296.8	456333	limit	<i>1.359</i>	591631	<i>1.296</i>	1	13939	60.2	limit	<i>1.359</i>	701701	<i>1.538</i>	1	17500	36.8
	4087.4	395115	2575.4	0.630	238039	0.603	0	12511	61.7	2323.8	0.569	217796	0.551	0	7173	36.3
qap10	87.5	5	87.0	0.995	5	1.000	0	0	0.0	86.9	0.993	5	1.000	0	0	0.0
	132.8	2	133.0	1.001	2	1.000	0	0	0.0	133.1	1.003	2	1.000	0	0	0.0
	220.3	14	220.2	1.000	14	1.000	0	0	18.0	220.3	1.000	14	1.000	0	0	18.0
	95.8	3	94.8	0.989	3	1.000	0	0	0.0	94.6	0.988	3	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
qiu	37.0	3988	38.8	1.045	3841	0.964	1	9	22.5	38.8	1.045	3897	0.978	3	6	26.6
	20.2	1911	21.4	<i>1.059</i>	2142	<i>1.115</i>	2	4	25.3	20.1	0.997	1961	1.025	3	3	28.0
	40.5	3815	40.9	1.012	4087	<i>1.069</i>	3	12	27.5	43.2	<i>1.067</i>	4127	<i>1.080</i>	3	14	22.5
	46.2	4295	47.1	1.021	4325	1.007	0	7	22.2	56.8	<i>1.226</i>	5273	<i>1.223</i>	2	11	29.7
qnet1	5.2	24	6.3	<i>1.181</i>	29	1.040	0	0	108.0	5.9	<i>1.110</i>	29	1.040	0	0	108.0
	9.8	5	9.8	1.007	5	1.000	0	0	0.0	9.8	1.007	5	1.000	0	0	0.0
	2.4	2	2.6	<i>1.062</i>	2	1.000	0	0	0.0	2.4	0.994	2	1.000	0	0	0.0
	5.5	24	5.6	1.011	24	1.000	0	0	0.0	5.5	0.997	24	1.000	0	0	0.0
qnet1_o	2.9	3	2.4	0.886	3	1.000	0	0	0.0	2.7	0.966	3	1.000	0	0	0.0
	3.5	12	3.5	0.987	12	1.000	0	0	0.0	3.5	0.991	12	1.000	0	0	0.0
	1.2	2	1.2	0.991	2	1.000	0	0	0.0	1.3	1.018	2	1.000	0	0	0.0
	1.4	1	1.4	1.004	1	1.000	0	0	0.0	1.4	0.992	1	1.000	0	0	0.0
rail507	215.7	651	187.3	0.869	631	0.973	0	0	206.0	210.5	0.976	679	1.037	0	1	225.5
	240.8	828	227.2	0.944	807	0.977	0	0	193.5	239.6	0.995	801	0.971	0	0	222.0
	276.1	999	288.9	1.046	900	0.910	0	1	215.5	248.2	0.899	863	0.876	0	1	207.2
	259.9	930	247.0	0.951	847	0.919	0	3	220.5	322.4	<i>1.240</i>	1024	<i>1.091</i>	0	3	224.8
ramos3	limit	29	limit	1.000	29	1.000	0	0	337.0	limit	1.000	29	1.000	0	0	0.0
	limit	31	limit	1.000	29	0.985	0	0	337.0	limit	1.000	31	1.000	0	0	0.0
	limit	32	limit	1.000	32	1.000	0	0	337.0	limit	1.000	32	1.000	0	0	0.0
	limit	29	limit	1.000	29	1.000	0	0	337.0	limit	1.000	29	1.000	0	0	0.0
ran14x18.disj-8	2238.1	628002	2069.9	0.925	422669	0.673	0	23	55.2	2456.9	<i>1.098</i>	549355	0.875	0	44	58.8
	2357.4	572434	2209.9	0.937	509529	0.890	0	28	58.1	2460.1	1.044	566927	0.990	0	23	57.0
	2509.8	608217	3662.1	<i>1.459</i>	791360	<i>1.301</i>	0	35	57.4	4002.8	<i>1.595</i>	789688	<i>1.298</i>	0	50	55.7
	2282.1	430341	4787.8	<i>2.098</i>	511977	<i>1.190</i>	0	31	55.5	3561.4	<i>1.560</i>	780869	<i>1.814</i>	0	33	57.2
ran14x18_1	1312.9	322042	1492.9	<i>1.137</i>	339134	<i>1.053</i>	0	39	55.4	2070.9	<i>1.577</i>	489131	<i>1.519</i>	0	34	57.1
	1495.9	385773	1704.0	<i>1.139</i>	418898	<i>1.086</i>	0	29	51.7	1829.4	<i>1.223</i>	513172	<i>1.330</i>	0	55	54.7
	1345.7	408436	1837.9	<i>1.365</i>	497943	<i>1.219</i>	0	30	52.7	1239.7	0.921	361065	0.884	0	46	52.4
	1413.1	549906	2404.9	<i>1.701</i>	769180	<i>1.399</i>	0	55	56.6	2942.5	<i>2.082</i>	827086	<i>1.504</i>	0	59	58.8
ran16x16	114.4	12752	104.2	0.911	14539	<i>1.139</i>	0	26	47.3	129.6	<i>1.131</i>	17386	<i>1.361</i>	0	8	46.5
	103.6	14523	104.6	1.009	15549	<i>1.070</i>	0	23	42.8	103.0	0.994	11000	0.759	0	32	45.2
	77.6	8834	81.3	1.047	7934	0.899	0	10	44.9	87.6	<i>1.127</i>	10745	<i>1.214</i>	0	20	47.4
	86.5	12562	98.9	<i>1.142</i>	11547	0.920	0	22	48.9	93.7	<i>1.082</i>	8170	0.653	0	30	44.6

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Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
rd-rplusc-21	limit	367652	limit	1.000	567874	<i>1.544</i>	0	39	83.8	limit	1.000	550245	<i>1.497</i>	0	25	70.2
	limit	687233	limit	1.000	721961	<i>1.051</i>	0	16	106.4	limit	1.000	599858	0.873	0	0	93.5
	limit	658620	limit	1.000	650647	0.988	0	35	89.3	limit	1.000	556992	0.846	0	134	65.8
	limit	941736	limit	1.000	1062288	<i>1.128</i>	0	178	78.1	limit	1.000	939185	0.997	0	352	76.2
reblock67	283.4	34650	287.8	1.015	40539	<i>1.169</i>	0	1634	48.3	330.1	<i>1.164</i>	41226	<i>1.189</i>	1	2128	50.0
	208.5	42286	254.6	<i>1.220</i>	52781	<i>1.248</i>	0	4012	43.9	316.5	<i>1.516</i>	71874	<i>1.698</i>	0	1290	38.5
	295.1	55204	308.0	1.044	53944	0.977	0	3655	45.2	248.8	0.844	44733	0.811	1	1004	46.3
	276.9	52907	282.9	1.022	56714	<i>1.072</i>	1	2447	43.9	276.3	0.998	55239	1.044	1	2872	42.1
rentacar	3.1	4	2.8	0.917	4	1.000	0	0	0.0	3.2	1.032	4	1.000	0	0	0.0
	2.7	2	2.8	1.014	2	1.000	0	0	0.0	2.7	0.995	2	1.000	0	0	0.0
	3.0	16	3.0	0.998	16	1.000	1	0	7.0	3.0	0.993	16	1.000	1	0	7.0
	2.8	14	2.8	1.019	14	1.000	1	0	5.0	2.8	1.008	14	1.000	1	0	5.0
rgn	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.6	1.033	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
rlp1	limit	24200467	limit	1.000	23496354	0.971	0	29897	60.5	limit	1.000	22282217	0.921	0	23571	59.3
	limit	23816302	limit	1.000	23862299	1.002	0	37447	60.9	limit	1.000	23340880	0.980	0	40321	59.9
	limit	19651080	limit	1.000	19988711	1.017	0	30309	60.2	limit	1.000	19684912	1.002	0	30257	56.4
	limit	24955525	limit	1.000	26058509	1.044	0	35346	59.1	limit	1.000	26734290	<i>1.071</i>	0	23220	58.7
rmatr100-p10	192.0	790	186.2	0.970	820	1.034	0	2	38.7	184.7	0.962	806	1.018	0	4	40.0
	198.4	779	197.8	0.997	807	1.032	0	5	35.6	194.6	0.981	822	1.049	0	3	41.1
	185.8	787	189.3	1.019	846	<i>1.067</i>	0	2	31.7	189.8	1.021	835	<i>1.054</i>	0	9	39.2
	192.3	769	201.2	1.046	852	<i>1.096</i>	0	3	38.6	195.0	1.014	774	1.006	0	5	38.8
rmatr100-p5	332.3	383	344.6	1.037	365	0.963	0	2	44.0	339.9	1.023	361	0.954	0	1	35.5
	309.6	417	344.6	<i>1.113</i>	409	0.985	0	1	33.7	370.5	<i>1.196</i>	435	1.035	0	2	29.0
	346.1	427	324.9	0.939	449	1.042	0	2	37.0	355.7	1.028	433	1.011	0	0	34.3
	311.0	407	347.9	<i>1.119</i>	405	0.996	0	0	40.5	327.0	<i>1.051</i>	381	0.949	0	0	38.5
rmine6	1101.5	80935	1034.2	0.939	76215	0.942	0	249	58.4	1054.6	0.957	76454	0.945	0	173	58.4
	980.5	67361	1077.5	<i>1.099</i>	60737	0.902	0	16	62.8	959.3	0.978	73889	<i>1.097</i>	0	427	50.1
	857.8	74032	1372.4	<i>1.599</i>	121375	<i>1.639</i>	0	485	63.1	1199.9	<i>1.398</i>	105615	<i>1.426</i>	0	648	59.9
	972.7	86062	1116.4	<i>1.148</i>	101031	<i>1.174</i>	0	258	59.4	1036.3	<i>1.065</i>	75633	0.879	0	336	55.7

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
rocII-4-11	1830.1	6754	1738.5	0.950	4087	0.611	0	302	35.8	2167.3	<i>1.184</i>	14126	<i>2.076</i>	2	1773	21.0
	2128.2	11498	1606.1	0.755	4222	0.373	5	907	24.8	1911.8	0.898	6571	0.575	0	236	20.4
	2186.4	11600	2148.4	0.983	7462	0.646	3	840	28.1	2230.2	1.020	12526	<i>1.079</i>	0	918	20.7
	2494.6	12543	2263.4	0.907	13470	<i>1.073</i>	0	203	33.5	2078.1	0.833	10869	0.868	1	755	18.8
rococoC10-001000	2167.2	204524	2090.1	0.964	153256	0.749	0	182	125.9	1839.0	0.849	125976	0.616	0	298	106.8
	1204.4	70056	1301.2	<i>1.080</i>	75594	<i>1.079</i>	0	220	110.9	828.0	0.688	50620	0.723	0	219	109.5
	765.6	40706	534.1	0.698	29811	0.733	0	115	101.2	1254.8	<i>1.638</i>	67377	<i>1.654</i>	0	419	99.9
	715.7	40137	1136.7	<i>1.587</i>	56599	<i>1.409</i>	0	21	109.6	970.0	<i>1.355</i>	53645	<i>1.336</i>	0	2	87.0
roll3000	43.2	1323	42.1	0.974	1664	<i>1.240</i>	0	3	39.0	42.8	0.990	1591	<i>1.188</i>	0	13	67.0
	71.0	3118	82.4	<i>1.158</i>	4508	<i>1.432</i>	0	43	82.2	84.2	<i>1.183</i>	4305	<i>1.369</i>	0	70	65.6
	56.9	2433	41.7	0.737	1440	0.608	0	15	85.5	50.1	0.882	1846	0.768	0	28	78.5
	69.5	3012	101.8	<i>1.459</i>	4486	<i>1.474</i>	0	98	88.7	87.5	<i>1.256</i>	3336	<i>1.104</i>	0	62	76.1
rout	72.3	13008	79.0	<i>1.090</i>	15767	<i>1.210</i>	0	32	36.6	88.4	<i>1.219</i>	16241	<i>1.247</i>	0	132	27.1
	96.0	17125	102.1	<i>1.062</i>	20064	<i>1.171</i>	0	19	43.2	86.1	0.897	16862	0.985	0	149	32.7
	80.0	15827	73.6	0.921	13081	0.828	0	41	40.8	91.7	<i>1.145</i>	17858	<i>1.128</i>	0	40	31.5
	58.5	10429	78.1	<i>1.329</i>	12730	<i>1.219</i>	1	53	41.3	66.6	<i>1.136</i>	14419	<i>1.379</i>	3	446	30.4
roy	0.5	2	0.5	1.000	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	2	0.5	1.000	2	1.000	0	0	0.0	0.5	1.000	2	1.000	0	0	0.0
satellites1-25	1054.5	2416	1105.4	1.048	2376	0.984	1	7	17.2	818.9	0.777	1145	0.495	0	18	16.5
	1372.8	2322	860.8	0.627	817	0.379	1	11	25.0	1254.0	0.913	1451	0.640	0	8	18.0
	1191.4	1235	1441.9	<i>1.210</i>	2878	<i>2.231</i>	0	41	21.5	1613.4	<i>1.354</i>	3475	<i>2.678</i>	0	60	27.8
	1404.7	1753	1187.2	0.845	1159	0.679	1	38	32.0	956.2	0.681	569	0.361	0	16	28.7
set1ch	0.9	1	0.8	0.989	1	1.000	0	0	0.0	0.9	1.000	1	1.000	0	0	0.0
	0.7	1	0.6	0.976	1	1.000	0	0	0.0	0.6	0.976	1	1.000	0	0	0.0
	0.6	1	0.6	1.006	1	1.000	0	0	0.0	0.6	1.006	1	1.000	0	0	0.0
	0.7	2	0.6	0.970	2	1.000	0	0	0.0	0.7	1.000	2	1.000	0	0	0.0
seymour.disj-10	limit	69639	limit	1.000	62861	0.903	0	24	102.2	limit	1.000	75331	<i>1.082</i>	0	51	106.3
	limit	73827	limit	1.000	70642	0.957	0	96	107.5	limit	1.000	72132	0.977	0	21	107.9
	limit	75099	limit	1.000	75736	1.008	0	82	107.8	limit	1.000	57540	0.766	0	20	118.4
	limit	60045	limit	1.000	73003	<i>1.215</i>	0	121	103.4	limit	1.000	65272	<i>1.087</i>	0	24	111.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T _Q	N	N _Q	F	C	D _∅	T	T _Q	N	N _Q	F	C	D _∅
seymour	limit	191497	limit	1.000	125851	0.657	0	298	92.0	limit	1.000	188464	0.984	0	474	93.7
	limit	199159	limit	1.000	209286	<i>1.051</i>	0	259	88.3	limit	1.000	202546	1.017	0	168	99.2
	limit	199729	limit	1.000	202751	1.015	0	72	85.1	limit	1.000	183033	0.916	0	626	90.9
	limit	166399	limit	1.000	177194	<i>1.065</i>	0	149	88.1	limit	1.000	196212	<i>1.179</i>	0	396	109.2
sp97ar	limit	16135	limit	1.000	20888	<i>1.293</i>	0	0	0.0	limit	1.000	18942	<i>1.173</i>	0	0	0.0
	limit	19101	limit	1.000	17965	0.941	0	0	0.0	limit	1.000	18484	0.968	0	0	0.0
	limit	23655	limit	1.000	23126	0.978	0	0	0.0	limit	1.000	21789	0.921	0	0	0.0
	limit	16608	limit	1.000	22922	<i>1.378</i>	0	0	0.0	limit	1.000	18305	<i>1.102</i>	0	0	0.0
sp97ic	limit	23572	limit	1.000	26114	<i>1.107</i>	0	13	44.8	limit	1.000	36904	<i>1.563</i>	0	12	148.2
	limit	41029	limit	1.000	43908	<i>1.070</i>	0	0	50.0	limit	1.000	35236	0.859	0	0	116.5
	limit	49004	limit	1.000	39496	0.806	0	0	11.0	limit	1.000	21333	0.436	0	12	101.2
	limit	21935	limit	1.000	21179	0.966	0	14	37.8	limit	1.000	32024	<i>1.458</i>	0	30	133.0
sp98ar	limit	2151	limit	1.000	2459	<i>1.137</i>	0	0	104.0	limit	1.000	2451	<i>1.133</i>	0	0	271.0
	limit	2442	limit	1.000	2326	0.954	1	0	90.5	limit	1.000	2621	<i>1.070</i>	0	5	352.0
	limit	2458	limit	1.000	2384	0.971	1	0	74.5	limit	1.000	2688	<i>1.090</i>	0	3	257.5
	limit	3508	limit	1.000	2469	0.712	1	0	90.0	limit	1.000	2457	0.709	0	2	114.0
sp98ic	limit	45351	limit	1.000	50578	<i>1.115</i>	0	0	148.0	limit	1.000	49042	<i>1.081</i>	0	0	79.0
	limit	49103	limit	1.000	35833	0.730	0	0	74.0	limit	1.000	34379	0.701	0	0	118.2
	limit	63125	limit	1.000	49177	0.779	0	0	18.0	limit	1.000	36765	0.583	0	0	136.0
	limit	34818	limit	1.000	45789	<i>1.314</i>	0	0	154.7	limit	1.000	39709	<i>1.140</i>	0	0	124.2
sp98ir	72.7	3543	90.6	<i>1.243</i>	3218	0.911	0	16	30.6	95.2	<i>1.307</i>	5250	<i>1.469</i>	0	21	55.0
	93.8	3831	84.8	0.906	4935	<i>1.281</i>	0	79	39.5	84.2	0.899	4342	<i>1.130</i>	0	0	43.8
	62.6	3212	83.7	<i>1.332</i>	5009	<i>1.543</i>	0	58	40.6	88.7	<i>1.411</i>	4559	<i>1.407</i>	1	0	60.2
	90.8	5440	70.5	0.779	4424	0.817	0	12	37.2	71.7	0.792	3477	0.646	0	25	48.0
stein27	1.2	1155	1.2	1.023	1171	1.013	0	0	14.3	1.3	1.041	1191	1.029	0	0	14.7
	1.3	1729	1.3	0.991	1785	1.031	0	0	13.9	1.4	1.030	1819	1.049	0	0	14.6
	0.6	515	0.6	0.975	537	1.036	0	0	14.8	0.6	0.988	555	<i>1.065</i>	0	0	15.2
	0.7	597	0.7	1.030	699	<i>1.146</i>	0	0	15.3	0.7	1.024	673	<i>1.109</i>	0	0	14.6
stein45	17.3	39479	17.9	1.032	41379	1.048	0	0	15.8	17.4	1.008	39479	1.000	0	0	0.0
	17.3	37653	18.2	1.050	40886	<i>1.086</i>	0	0	16.4	17.6	1.019	37653	1.000	0	0	0.0
	18.2	39670	18.0	0.988	38979	0.983	0	0	16.0	18.4	1.009	39670	1.000	0	0	0.0
	18.1	40621	18.9	1.043	41223	1.015	0	0	15.4	19.0	1.047	40621	1.000	0	0	0.0

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Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset	T	\mathbf{T}_Q	N	\mathbf{N}_Q	F	C	\mathbf{D}_\emptyset
stp3d	limit	15	limit	1.000	15	1.000	0	0	0.0	limit	1.000	15	1.000	0	0	0.0
	limit	13	limit	1.000	12	0.991	0	0	0.0	limit	1.000	13	1.000	0	0	0.0
	limit	15	limit	1.000	15	1.000	0	0	0.0	limit	1.000	15	1.000	0	0	0.0
	limit	14	limit	1.000	14	1.000	0	0	0.0	limit	1.000	14	1.000	0	0	0.0
swath	limit	531431	limit	1.000	409009	0.770	0	31	55.2	limit	1.000	630971	<i>1.187</i>	0	165	62.2
	limit	637741	limit	1.000	318991	0.500	0	15	82.1	limit	1.000	494509	0.775	0	248	52.7
	limit	569638	limit	1.000	314999	0.553	0	306	64.7	limit	1.000	430119	0.755	0	206	61.7
	limit	377720	limit	1.000	310822	0.823	0	101	65.0	limit	1.000	364533	0.965	0	275	55.7
t1717	limit	3781	limit	1.000	3114	0.828	0	0	429.7	limit	1.000	4131	<i>1.090</i>	0	356	61.3
	limit	3685	limit	1.000	4269	<i>1.154</i>	0	0	418.0	limit	1.000	4077	<i>1.104</i>	0	425	86.1
	limit	4215	limit	1.000	4129	0.980	0	0	422.7	limit	1.000	4274	1.014	0	912	79.5
	limit	3775	limit	1.000	4126	<i>1.091</i>	0	0	392.5	limit	1.000	3451	0.916	0	397	103.2
tanglegram1	686.7	53	717.6	1.045	53	1.000	0	0	1118.0	687.7	1.001	53	1.000	0	0	18.0
	1006.3	113	1022.2	1.016	117	1.019	0	0	17.0	1022.7	1.016	117	1.019	0	0	83.0
	845.5	71	830.6	0.982	75	1.023	0	11	16.0	840.8	0.994	71	1.000	0	0	130.0
	696.5	61	694.5	0.997	61	1.000	0	0	23.0	701.2	1.007	61	1.000	0	0	105.0
tanglegram2	7.4	3	7.3	0.987	3	1.000	0	0	0.0	7.3	0.988	3	1.000	0	0	0.0
	6.7	3	6.7	1.009	3	1.000	0	0	0.0	6.8	1.017	3	1.000	0	0	0.0
	7.0	3	7.0	1.001	3	1.000	0	0	0.0	7.0	0.998	3	1.000	0	0	0.0
	7.2	3	7.1	0.999	3	1.000	0	0	0.0	7.1	0.999	3	1.000	0	0	0.0
timtab1	61.5	37362	77.8	<i>1.260</i>	49976	<i>1.337</i>	0	76	40.8	69.5	<i>1.127</i>	43028	<i>1.151</i>	0	56	39.7
	56.9	30500	53.0	0.933	30772	1.009	0	77	38.4	76.0	<i>1.330</i>	49194	<i>1.611</i>	1	204	31.8
	64.2	42359	70.0	<i>1.088</i>	44702	<i>1.055</i>	1	112	39.4	71.8	<i>1.116</i>	45146	<i>1.066</i>	0	127	34.1
	60.2	41683	59.8	0.992	39788	0.955	0	66	40.2	59.6	0.989	36689	0.880	1	236	33.8
timtab2	limit	2568006	limit	1.000	2405695	0.937	0	252	43.5	limit	1.000	2428579	0.946	1	423	45.3
	limit	2239971	limit	1.000	2161489	0.965	0	242	44.1	limit	1.000	2467893	<i>1.102</i>	0	291	40.6
	limit	2796654	limit	1.000	3063738	<i>1.095</i>	0	237	46.0	limit	1.000	2281198	0.816	0	237	44.0
	limit	3340774	limit	1.000	2201097	0.659	0	294	45.4	limit	1.000	2374633	0.711	0	356	41.4
tr12-30	783.0	365013	1031.9	<i>1.317</i>	520717	<i>1.426</i>	0	172	48.4	1034.2	<i>1.320</i>	519436	<i>1.423</i>	0	131	50.1
	692.3	357383	923.2	<i>1.333</i>	462981	<i>1.295</i>	0	417	52.1	737.5	<i>1.065</i>	359200	1.005	0	255	52.6
	680.8	293580	1275.8	<i>1.873</i>	595373	<i>2.028</i>	0	88	54.7	836.0	<i>1.228</i>	369143	<i>1.257</i>	0	67	58.5
	670.3	248694	718.1	<i>1.071</i>	309327	<i>1.244</i>	0	83	49.4	872.5	<i>1.301</i>	385231	<i>1.549</i>	0	46	52.4

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Table 3: Detailed computational results on MMMC over four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q), as well as the average length of diving paths (\mathbf{D}_\emptyset). In addition, the number of feasible and improving solutions (\mathbf{F} , \mathbf{I}), and conflict constraints (\mathbf{C}) found by `coefdiving` and `confdiving` is shown, respectively. Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving							confdiving						
	T	N	T	T_Q	N	N_Q	F	C	D_\emptyset	T	T_Q	N	N_Q	F	C	D_\emptyset
triptim1	1558.8	7	1552.9	0.996	7	1.000	0	0	0.0	1562.1	1.002	7	1.000	0	0	0.0
	841.2	8	839.4	0.998	8	1.000	0	0	0.0	839.0	0.997	8	1.000	0	0	0.0
	590.6	4	586.5	0.993	4	1.000	0	0	0.0	588.5	0.996	4	1.000	0	0	0.0
	1579.5	151	1074.9	0.681	41	0.562	0	0	37.0	1187.8	0.752	41	0.562	0	8	38.0
unitcal_7	416.0	149	367.9	0.885	155	1.024	0	0	21.0	425.3	1.022	143	0.976	0	0	24.0
	437.7	294	508.6	<i>1.162</i>	356	<i>1.157</i>	0	0	40.7	346.3	0.792	196	0.751	0	0	22.0
	573.5	580	564.2	0.984	377	0.701	0	0	51.5	391.9	0.684	182	0.415	0	0	22.0
	664.6	815	506.7	0.763	572	0.734	0	3	46.7	585.0	0.880	742	0.920	0	0	33.8
vpm1	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
	0.5	1	0.5	1.000	1	1.000	0	0	0.0	0.5	1.000	1	1.000	0	0	0.0
vpm2	3.0	232	3.5	<i>1.122</i>	264	<i>1.096</i>	0	0	0.0	4.6	<i>1.400</i>	285	<i>1.160</i>	0	5	15.0
	3.0	330	3.0	1.003	257	0.830	0	4	20.0	2.9	0.992	316	0.967	0	0	20.0
	2.4	141	2.1	0.901	230	<i>1.369</i>	0	0	0.0	2.1	0.915	98	0.822	0	0	0.0
	2.9	256	3.1	<i>1.062</i>	233	0.935	0	9	17.0	3.5	<i>1.157</i>	206	0.860	0	0	24.0
vpphard	limit	1242	limit	1.000	1502	<i>1.194</i>	0	3	579.5	limit	1.000	3177	<i>2.442</i>	3	3868	145.0
	limit	3319	limit	1.000	2191	0.670	0	7	597.6	limit	1.000	3042	0.919	0	2005	220.4
	limit	3061	limit	1.000	2756	0.904	0	0	570.2	limit	1.000	3833	<i>1.244</i>	0	1843	174.3
	limit	5091	limit	1.000	4061	0.802	0	8	611.0	limit	1.000	3090	0.615	0	1759	140.7
zib54-UUE	1758.3	73640	2091.8	<i>1.190</i>	76321	1.036	0	7	39.2	1538.5	0.875	63958	0.869	0	20	36.1
	1669.6	54829	1470.9	0.881	46323	0.845	0	12	35.0	2142.4	<i>1.283</i>	78209	<i>1.426</i>	0	23	32.9
	2375.8	79882	2338.4	0.984	74518	0.933	0	24	29.3	2181.3	0.918	60072	0.752	0	23	31.0
	2579.9	106384	1983.6	0.769	88765	0.835	1	33	33.0	1398.2	0.542	53450	0.503	1	26	39.3

Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
10teams	23.7	359	0.963	<i>1.078</i>	0.782	0.547	1.007	<i>1.490</i>	0.779	0.547
	21.2	567	<i>1.058</i>	<i>1.450</i>	0.856	0.502	1.037	<i>1.063</i>	0.872	0.502
	21.6	433	0.981	0.946	0.753	0.308	0.881	0.820	0.771	0.308
30n20b8	502.9	403	0.869	0.650	0.613	0.445	0.619	0.445	0.761	0.521
	244.1	96	<i>1.317</i>	<i>1.245</i>	<i>1.059</i>	<i>1.061</i>	<i>1.116</i>	<i>1.480</i>	<i>1.057</i>	<i>1.061</i>
	237.2	126	<i>1.185</i>	<i>1.212</i>	<i>2.683</i>	<i>3.044</i>	<i>1.776</i>	<i>2.801</i>	<i>2.710</i>	<i>3.044</i>
acc-tight5	468.5	284	<i>1.458</i>	<i>1.122</i>	<i>1.368</i>	<i>1.232</i>	0.919	0.779	<i>1.442</i>	<i>1.440</i>
	135.3	940	0.958	0.812	0.901	0.699	<i>1.359</i>	<i>1.072</i>	0.903	0.699
	132.7	704	0.476	0.322	0.894	0.818	0.716	0.617	0.898	0.818
aflow30a	118.5	498	<i>1.681</i>	<i>2.120</i>	<i>1.237</i>	<i>1.674</i>	0.717	0.686	<i>1.242</i>	<i>1.674</i>
	109.3	599	<i>1.096</i>	<i>1.066</i>	<i>1.191</i>	<i>1.169</i>	<i>1.789</i>	<i>2.322</i>	<i>1.218</i>	<i>1.182</i>
	34.3	751	0.821	<i>1.143</i>	0.860	0.981	0.778	<i>1.063</i>	0.860	0.981
aflow40b	24.9	1046	0.949	0.526	1.015	1.000	0.748	0.571	1.034	1.000
	22.0	473	<i>1.167</i>	<i>1.190</i>	<i>1.169</i>	<i>1.321</i>	<i>1.227</i>	<i>1.230</i>	<i>1.164</i>	<i>1.321</i>
	19.7	474	0.916	<i>1.420</i>	<i>1.142</i>	<i>1.516</i>	<i>1.227</i>	<i>1.242</i>	<i>1.167</i>	<i>1.516</i>
air04	791.7	23244	<i>1.135</i>	<i>1.060</i>	0.703	0.867	<i>1.682</i>	<i>1.413</i>	0.702	0.867
	389.9	7966	<i>1.878</i>	<i>2.489</i>	<i>1.975</i>	<i>2.328</i>	<i>1.355</i>	<i>1.992</i>	<i>2.055</i>	<i>2.315</i>
	485.0	10919	<i>1.452</i>	<i>2.069</i>	<i>1.611</i>	<i>1.762</i>	0.973	<i>1.236</i>	<i>1.600</i>	<i>1.762</i>
air05	729.3	28492	0.674	0.343	0.821	0.592	0.837	0.728	0.820	0.592
	60.6	192	1.003	1.000	0.989	1.000	0.999	1.000	0.991	1.000
	47.2	107	1.001	1.000	1.000	1.000	1.012	1.000	1.004	1.000
air05	71.1	179	1.014	<i>1.487</i>	0.995	<i>1.398</i>	1.041	<i>1.487</i>	0.998	<i>1.398</i>
	33.5	342	<i>1.391</i>	<i>2.032</i>	<i>1.296</i>	<i>1.726</i>	<i>1.310</i>	<i>1.726</i>	<i>1.294</i>	<i>1.726</i>
	29.7	1487	<i>1.426</i>	<i>2.155</i>	0.974	<i>1.166</i>	0.930	0.932	0.993	<i>1.166</i>
bab5	18.7	583	<i>1.954</i>	<i>4.356</i>	<i>2.044</i>	<i>3.956</i>	<i>1.432</i>	0.183	<i>2.059</i>	<i>3.956</i>
	34.0	1948	0.879	0.879	0.679	0.584	0.708	0.584	0.696	0.584
	36.7	2535	<i>1.059</i>	<i>1.193</i>	0.732	0.714	0.752	0.632	0.736	0.714
bc1	limit	108379	1.000	0.734	0.947	0.852	1.000	0.727	1.000	0.864
bc	200.5	1303	<i>1.485</i>	<i>2.830</i>	<i>1.207</i>	<i>2.271</i>	<i>1.198</i>	<i>2.143</i>	<i>1.241</i>	<i>2.271</i>
	304.7	4540	0.877	0.885	<i>1.067</i>	<i>1.099</i>	<i>1.074</i>	<i>1.099</i>	<i>1.073</i>	<i>1.099</i>
	234.9	1530	1.001	1.043	0.976	0.853	0.979	0.853	0.981	0.853
258.9	3516	0.947	0.974	<i>1.104</i>	<i>1.303</i>	<i>1.112</i>	<i>1.303</i>	<i>1.103</i>	<i>1.303</i>	
bc	1379.1	14573	0.808	0.804	0.919	0.833	0.916	0.837	0.918	0.833

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (N , N_Q) and solving time (T , T_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	1125.2	12204	<i>1.104</i>	0.950	1.006	1.041	<i>1.082</i>	<i>1.157</i>	1.001	1.041
	1460.7	16681	0.783	0.831	0.807	0.746	0.810	0.750	0.800	0.746
	1557.5	19797	0.726	0.664	0.691	0.663	0.710	0.698	0.686	0.663
beasleyC3	59.1	311	0.992	<i>1.163</i>	0.976	<i>1.163</i>	0.970	<i>1.163</i>	0.976	<i>1.163</i>
	56.9	206	<i>1.196</i>	<i>2.010</i>	0.765	0.363	<i>1.077</i>	<i>1.608</i>	0.778	0.363
	54.2	485	1.033	0.462	<i>1.051</i>	0.462	0.958	0.629	<i>1.058</i>	0.462
	21.9	2	0.980	1.000	1.003	1.000	1.003	1.000	1.010	1.000
bell3a	2.0	3548	0.797	0.698	0.753	0.492	0.902	1.021	0.740	0.492
	1.4	3440	0.808	0.645	1.004	1.035	0.988	0.968	0.983	1.035
	1.9	4949	0.801	0.637	0.696	0.416	0.825	0.535	0.696	0.416
	1.8	4568	0.795	0.604	0.906	0.896	0.982	0.814	1.014	0.896
bell5	0.6	415	<i>1.299</i>	<i>1.056</i>	<i>1.223</i>	0.994	0.968	0.977	0.981	0.994
	0.6	511	0.968	0.718	0.968	0.718	<i>1.161</i>	0.718	<i>1.213</i>	0.718
	0.5	206	1.000	0.967	1.000	0.974	1.013	0.974	1.000	0.974
	0.6	410	0.987	<i>1.080</i>	0.969	1.049	<i>1.252</i>	<i>1.051</i>	<i>1.270</i>	1.049
biella1	1178.2	4348	<i>1.329</i>	<i>1.855</i>	<i>1.378</i>	<i>1.363</i>	<i>1.387</i>	<i>1.259</i>	<i>1.402</i>	<i>1.363</i>
	1283.7	3033	0.971	<i>1.932</i>	0.447	0.531	0.931	<i>1.802</i>	0.435	0.531
	634.4	1580	<i>1.571</i>	<i>1.235</i>	<i>1.196</i>	<i>1.345</i>	<i>2.000</i>	<i>3.371</i>	<i>1.210</i>	<i>1.345</i>
	806.3	1684	<i>1.516</i>	<i>2.607</i>	<i>1.430</i>	<i>2.214</i>	0.913	0.998	<i>1.473</i>	<i>2.214</i>
bienst1	204.6	25970	0.759	0.621	0.569	0.441	0.643	0.477	0.637	0.483
	196.8	20587	0.619	0.483	0.627	0.489	0.708	0.616	0.757	0.661
	153.6	13823	0.820	0.675	0.877	0.922	0.861	1.011	0.837	0.718
	160.2	16868	0.919	0.905	<i>1.088</i>	<i>1.127</i>	0.958	0.869	<i>1.093</i>	<i>1.127</i>
bienst2	812.5	88717	0.811	0.705	0.748	0.664	0.858	0.857	0.751	0.664
	669.8	65095	<i>1.110</i>	<i>1.244</i>	0.983	1.032	0.897	<i>1.090</i>	0.972	<i>1.074</i>
	704.0	73577	0.853	0.854	0.948	0.978	0.720	0.846	0.851	0.824
	580.0	58053	1.003	1.035	0.895	0.876	0.743	0.705	0.897	0.876
binkar10_1	34.6	2288	0.988	<i>1.062</i>	1.049	1.050	1.038	<i>1.076</i>	1.036	1.050
	36.9	2311	<i>1.336</i>	<i>1.156</i>	<i>1.361</i>	<i>1.327</i>	<i>1.285</i>	<i>1.284</i>	0.965	0.946
	66.6	4312	0.444	0.459	0.536	0.585	0.593	0.633	0.538	0.585
	28.8	1795	<i>1.600</i>	<i>2.364</i>	<i>1.260</i>	<i>1.199</i>	<i>1.233</i>	<i>1.214</i>	<i>1.245</i>	<i>1.199</i>
blend2	1.2	686	<i>1.113</i>	1.025	0.856	0.828	0.815	0.828	0.820	0.828
	1.5	1042	0.911	0.816	<i>1.053</i>	<i>1.112</i>	1.033	1.037	1.000	<i>1.112</i>
	1.3	876	0.896	0.753	0.931	0.881	<i>1.061</i>	0.882	0.939	0.881

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	1.0	692	1.030	0.874	0.936	0.900	<i>1.317</i>	<i>1.384</i>	0.926	0.900
bnatt350	1029.8	9977	0.833	0.429	0.363	0.314	0.354	0.255	0.364	0.314
	662.4	5721	<i>1.605</i>	<i>1.300</i>	<i>1.281</i>	<i>1.428</i>	<i>1.056</i>	<i>1.068</i>	<i>1.279</i>	<i>1.428</i>
	343.2	2444	<i>1.568</i>	<i>1.832</i>	<i>2.056</i>	<i>1.509</i>	<i>3.073</i>	<i>2.678</i>	<i>2.054</i>	<i>1.509</i>
	827.2	8260	0.639	0.450	<i>1.428</i>	<i>1.198</i>	1.042	<i>1.055</i>	<i>1.419</i>	<i>1.198</i>
cap6000	4.4	2159	0.866	0.920	0.937	0.776	0.936	0.720	0.895	0.776
	3.9	2269	0.913	0.746	0.895	0.704	0.897	0.715	0.947	0.704
	4.5	2522	0.956	0.844	0.954	0.804	0.976	0.789	0.938	0.804
	4.5	2579	0.951	0.816	0.882	0.669	0.936	0.687	0.893	0.669
core2536-691	324.4	186	0.490	0.762	0.469	0.689	<i>1.240</i>	<i>1.269</i>	0.469	0.689
	269.9	156	0.566	<i>1.070</i>	0.643	0.750	0.914	<i>1.059</i>	0.652	0.750
	507.7	458	0.229	0.287	0.472	0.600	0.349	0.430	0.473	0.600
	337.2	250	0.360	0.646	<i>1.125</i>	<i>1.089</i>	<i>1.070</i>	0.931	<i>1.123</i>	<i>1.089</i>
cov1075	80.7	19859	1.015	0.997	1.012	0.991	1.000	0.984	1.017	0.991
	111.1	33279	1.002	0.971	<i>1.070</i>	<i>1.076</i>	<i>1.080</i>	<i>1.064</i>	<i>1.112</i>	<i>1.098</i>
	78.6	19252	0.809	0.711	0.889	0.895	0.965	0.968	0.900	0.904
	78.9	17553	<i>1.192</i>	<i>1.313</i>	<i>1.058</i>	<i>1.087</i>	<i>1.073</i>	<i>1.143</i>	1.034	<i>1.058</i>
csched010	5095.1	172718	<i>1.413</i>	<i>1.813</i>	<i>1.333</i>	<i>1.719</i>	1.039	<i>1.221</i>	<i>1.339</i>	<i>1.735</i>
	2383.9	108940	<i>1.794</i>	<i>1.946</i>	<i>1.480</i>	<i>1.289</i>	<i>1.835</i>	<i>1.864</i>	<i>1.552</i>	<i>1.458</i>
	4625.1	183497	<i>1.360</i>	<i>1.481</i>	0.843	0.902	0.831	0.906	0.845	0.905
dano3_3	153.5	18	<i>1.073</i>	1.000	1.001	1.000	1.000	1.000	1.001	1.000
	169.2	14	0.998	1.000	0.997	1.000	0.999	1.000	1.011	1.000
	140.9	24	1.006	1.040	0.989	0.992	1.012	1.040	0.995	0.992
dano3_5	377.1	165	<i>1.067</i>	<i>1.075</i>	<i>1.199</i>	<i>1.249</i>	1.005	<i>1.109</i>	<i>1.205</i>	<i>1.249</i>
	455.6	174	0.913	0.934	0.798	1.011	0.889	1.015	0.807	1.011
	373.7	165	0.973	0.875	0.991	<i>1.075</i>	0.917	<i>1.068</i>	1.013	<i>1.075</i>
	480.7	167	0.805	1.034	0.845	<i>1.199</i>	0.847	<i>1.199</i>	0.848	<i>1.199</i>
danoint	4796.5	1277825	<i>1.069</i>	<i>1.115</i>	0.906	0.926	<i>1.129</i>	<i>1.194</i>	0.922	0.926
	4169.9	1146923	<i>1.150</i>	<i>1.190</i>	1.013	0.983	<i>1.170</i>	<i>1.136</i>	1.014	0.983
	5281.1	1463654	0.833	0.817	1.038	1.044	0.874	0.857	<i>1.057</i>	1.044
	2857.8	770103	<i>1.334</i>	<i>1.379</i>	<i>1.189</i>	<i>1.231</i>	<i>1.240</i>	<i>1.291</i>	<i>1.174</i>	<i>1.222</i>
dfn-gwin-UUM	124.1	23097	<i>1.489</i>	<i>1.720</i>	<i>1.083</i>	<i>1.108</i>	0.882	0.876	1.004	0.994
	133.8	27565	0.943	0.893	0.921	0.862	0.732	0.701	0.770	0.731

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (N , N_Q) and solving time (T , T_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	134.2	25438	<i>1.188</i>	<i>1.260</i>	<i>1.264</i>	<i>1.392</i>	0.978	1.016	1.014	<i>1.114</i>
	108.4	21920	<i>1.237</i>	<i>1.101</i>	<i>1.066</i>	0.997	0.907	0.891	0.892	0.795
dsbmip	1.9	46	0.914	0.870	0.938	0.890	1.021	0.890	<i>1.090</i>	0.986
eilB101	477.1	10286	<i>1.253</i>	<i>1.337</i>	<i>1.270</i>	<i>1.337</i>	<i>1.253</i>	<i>1.337</i>	<i>1.252</i>	<i>1.337</i>
	517.2	9113	<i>1.073</i>	<i>1.201</i>	<i>1.303</i>	<i>1.542</i>	<i>1.304</i>	<i>1.542</i>	<i>1.307</i>	<i>1.542</i>
	464.2	10337	<i>1.059</i>	1.042	<i>1.233</i>	<i>1.259</i>	<i>1.059</i>	0.987	<i>1.253</i>	<i>1.259</i>
	473.5	10139	<i>1.371</i>	<i>1.525</i>	<i>1.288</i>	<i>1.426</i>	<i>1.290</i>	<i>1.426</i>	<i>1.301</i>	<i>1.426</i>
enigma	0.5	620	1.000	0.944	1.000	0.779	1.000	0.854	<i>1.133</i>	0.779
	0.5	863	1.007	<i>1.086</i>	<i>1.078</i>	<i>1.536</i>	1.020	<i>1.262</i>	<i>1.333</i>	<i>1.536</i>
	0.8	1443	1.006	1.027	0.972	1.027	0.960	1.027	<i>1.159</i>	1.027
fast0507	406.8	1268	0.869	0.853	0.844	0.852	0.866	0.885	0.847	0.852
	233.0	686	0.958	0.976	<i>1.203</i>	<i>1.167</i>	<i>1.284</i>	<i>1.235</i>	<i>1.209</i>	<i>1.167</i>
	249.7	803	0.854	0.927	<i>1.125</i>	<i>1.202</i>	<i>1.096</i>	<i>1.190</i>	<i>1.095</i>	<i>1.202</i>
	247.1	859	1.024	<i>1.074</i>	0.965	0.980	0.815	0.869	0.978	0.980
fiball	5889.6	5972	0.699	0.683	1.002	1.014	0.212	0.215	1.029	1.014
	2923.8	3006	<i>2.462</i>	<i>2.579</i>	<i>2.462</i>	<i>2.593</i>	<i>2.462</i>	<i>2.624</i>	<i>2.462</i>	<i>2.634</i>
	2771.3	2859	<i>1.968</i>	<i>2.060</i>	<i>2.597</i>	<i>2.611</i>	<i>2.597</i>	<i>2.659</i>	<i>2.597</i>	<i>2.530</i>
	limit	8417	0.469	0.445	1.000	0.862	1.000	0.815	1.000	0.841
fixnet6	8.2	4	0.992	1.000	1.012	1.000	1.035	1.000	<i>1.057</i>	1.000
	6.2	2	1.000	1.010	1.006	1.010	<i>1.079</i>	1.010	1.008	1.010
gesa3	6.6	5	<i>1.160</i>	1.010	<i>1.152</i>	1.010	<i>1.209</i>	1.010	<i>1.189</i>	1.010
glass4	2038.7	1234030	0.739	0.623	0.531	0.485	0.349	0.361	0.802	0.757
	limit	4944800	0.229	0.243	0.619	0.558	0.380	0.416	0.263	0.280
	2203.8	1489727	0.431	0.504	0.502	0.570	<i>1.363</i>	<i>1.383</i>	0.414	0.479
iis-100-0-cov	826.6	106529	0.971	0.968	0.972	0.960	1.005	0.999	0.975	0.960
	722.6	92803	0.998	0.996	1.013	1.013	1.018	1.027	1.010	1.013
	645.1	80389	1.011	1.015	1.014	1.014	1.033	1.017	1.019	1.014
	717.3	90721	0.966	0.956	1.024	1.033	0.990	0.992	1.027	1.033
iis-bupa-cov	2339.8	150128	1.023	1.039	<i>1.083</i>	<i>1.112</i>	<i>1.082</i>	<i>1.113</i>	<i>1.087</i>	<i>1.112</i>
	2348.4	153532	1.038	1.048	<i>1.070</i>	1.008	1.037	1.042	1.015	1.008
	2485.2	163655	<i>1.079</i>	<i>1.145</i>	0.988	1.005	0.947	0.945	0.991	1.005
	2472.3	160525	0.959	0.981	0.968	0.949	0.951	0.939	0.978	0.949

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	\mathbf{T}	\mathbf{N}	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q
iis-pima-cov	499.6	9512	0.997	0.972	1.022	0.981	1.000	0.981	1.002	0.981
	498.8	9925	1.001	1.014	0.847	0.672	0.832	0.672	0.832	0.672
	335.6	5064	<i>1.108</i>	<i>1.274</i>	1.039	<i>1.148</i>	1.041	<i>1.148</i>	1.040	<i>1.148</i>
	446.8	6877	<i>1.498</i>	<i>2.270</i>	0.944	1.034	<i>1.103</i>	<i>1.327</i>	0.943	1.034
l152lav	3.0	30	<i>1.088</i>	1.023	1.025	1.023	<i>1.053</i>	1.000	<i>1.081</i>	1.023
	2.5	32	1.029	0.985	0.977	1.015	<i>1.072</i>	1.015	1.040	1.015
lectsched-4-obj	54.6	2296	0.780	0.503	0.620	0.251	0.921	0.764	<i>1.148</i>	<i>1.275</i>
	158.2	4137	0.523	0.226	0.889	0.428	0.559	0.343	0.849	0.458
	12.9	5	<i>3.833</i>	<i>21.295</i>	0.989	1.000	1.008	1.000	<i>3.430</i>	<i>19.543</i>
lseu	0.5	70	1.007	0.988	1.007	1.000	<i>1.320</i>	1.000	<i>1.287</i>	1.000
	0.8	264	1.028	1.030	1.039	1.000	<i>1.178</i>	1.000	<i>1.261</i>	1.000
macrophage	159.1	5108	1.016	0.986	0.971	0.980	1.024	<i>1.115</i>	0.968	0.980
	172.6	5046	<i>1.174</i>	<i>1.220</i>	0.988	<i>1.071</i>	1.003	<i>1.134</i>	0.989	<i>1.071</i>
	228.6	8063	0.821	0.769	0.894	0.853	0.772	0.685	0.893	0.853
	149.5	4564	<i>1.089</i>	<i>1.223</i>	<i>1.091</i>	<i>1.326</i>	<i>1.102</i>	<i>1.161</i>	<i>1.086</i>	<i>1.326</i>
map18	353.5	239	0.853	1.029	0.917	1.000	1.050	1.006	0.917	1.000
	253.7	255	<i>1.393</i>	<i>1.051</i>	<i>1.142</i>	1.023	<i>1.139</i>	1.023	<i>1.141</i>	1.023
	364.8	300	0.837	1.012	0.961	1.042	0.946	1.032	0.957	1.042
	370.1	255	0.839	0.932	0.770	1.006	0.766	1.006	0.769	1.006
map20	331.7	245	0.724	<i>1.426</i>	0.985	0.959	0.976	0.959	0.986	0.959
	316.5	219	1.005	<i>1.056</i>	1.018	0.981	1.030	0.981	1.014	0.981
	201.1	233	<i>1.401</i>	<i>1.520</i>	0.997	1.006	0.998	1.006	0.992	1.006
	273.6	229	1.019	<i>1.055</i>	0.883	0.982	0.854	0.982	0.880	0.982
mas74	1629.3	5182414	<i>1.230</i>	<i>1.163</i>	<i>1.136</i>	<i>1.097</i>	<i>1.401</i>	<i>1.152</i>	<i>1.137</i>	<i>1.097</i>
	2728.8	6183035	0.995	<i>1.124</i>	0.618	0.924	0.679	0.931	0.632	0.924
	1952.1	5906746	<i>1.220</i>	<i>1.197</i>	0.973	0.989	0.977	1.003	0.976	0.989
mas76	124.3	261470	0.765	0.759	0.898	0.839	0.997	0.947	0.893	0.839
	101.7	201143	<i>1.505</i>	<i>1.790</i>	<i>1.948</i>	<i>2.764</i>	<i>1.131</i>	<i>1.178</i>	<i>1.960</i>	<i>2.764</i>
	106.7	200421	<i>1.070</i>	<i>1.231</i>	<i>1.163</i>	<i>1.325</i>	1.032	1.001	<i>1.161</i>	<i>1.325</i>
	168.3	463174	0.671	0.452	1.042	<i>1.080</i>	<i>1.202</i>	<i>1.262</i>	<i>1.054</i>	<i>1.080</i>
mcsched	261.2	8906	0.925	0.802	0.937	0.872	0.975	0.922	0.937	0.872
	275.0	8523	0.969	0.966	0.987	1.044	1.022	<i>1.108</i>	0.989	1.044
	346.2	11394	<i>1.080</i>	<i>1.205</i>	<i>1.109</i>	<i>1.303</i>	<i>1.072</i>	<i>1.157</i>	<i>1.105</i>	<i>1.303</i>

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	\mathbf{T}	\mathbf{N}	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q
	206.7	6037	1.014	1.018	0.995	0.987	0.992	1.002	0.996	0.987
mik-250-1-100-1	86.4	22390	1.010	1.026	0.807	0.852	0.913	0.971	0.803	0.852
	73.0	22060	0.710	0.688	<i>1.344</i>	<i>1.252</i>	<i>1.224</i>	<i>1.137</i>	<i>1.348</i>	<i>1.252</i>
	76.7	20383	<i>1.162</i>	<i>1.141</i>	0.900	0.829	0.987	0.948	0.917	0.829
	112.0	27190	<i>1.205</i>	<i>1.280</i>	0.980	1.008	0.831	0.870	0.978	1.008
mine-166-5	78.5	12	<i>1.050</i>	<i>3.357</i>	1.005	<i>2.062</i>	<i>1.088</i>	<i>5.357</i>	1.013	<i>2.062</i>
	82.4	2002	<i>1.095</i>	<i>1.381</i>	1.036	0.927	1.009	0.853	1.039	0.927
	59.0	1333	<i>1.069</i>	<i>1.841</i>	0.991	0.886	1.031	0.939	0.991	0.886
	64.1	1228	1.028	<i>1.291</i>	<i>1.071</i>	<i>1.846</i>	1.024	<i>1.120</i>	<i>1.077</i>	<i>1.846</i>
mine-90-10	412.8	32102	<i>1.299</i>	<i>1.199</i>	0.811	0.983	0.933	0.943	0.639	0.658
	290.0	35136	0.847	0.731	<i>1.584</i>	<i>1.236</i>	0.844	0.697	<i>1.401</i>	<i>1.118</i>
	346.9	33747	<i>1.346</i>	<i>1.414</i>	<i>1.328</i>	<i>1.199</i>	0.818	0.786	<i>1.067</i>	0.722
	353.5	31760	<i>2.656</i>	<i>2.394</i>	<i>1.577</i>	<i>1.584</i>	<i>1.400</i>	<i>1.174</i>	<i>1.570</i>	<i>1.584</i>
misc07	13.1	6038	1.018	1.004	1.017	0.989	1.000	0.999	1.028	0.989
	14.9	6123	1.009	0.996	0.994	0.994	1.003	0.985	1.009	0.994
	15.9	7464	0.999	1.020	0.998	1.012	1.018	1.021	1.007	1.012
	11.6	5102	0.980	0.987	1.000	1.000	1.024	1.000	1.012	1.000
mkc1	5695.1	1704770	0.604	0.558	<i>1.264</i>	<i>1.153</i>	0.328	0.268	<i>1.264</i>	<i>1.186</i>
	167.8	15636	<i>4.652</i>	<i>108.277</i>	0.528	0.352	0.308	0.138	0.537	0.352
	36.1	1431	<i>2.986</i>	<i>8.091</i>	<i>1.498</i>	<i>2.018</i>	<i>2.500</i>	<i>5.086</i>	<i>1.482</i>	<i>2.018</i>
	limit	2071458	1.000	1.015	0.851	0.895	1.000	0.960	0.828	0.895
mod011	465.9	619	0.869	0.954	0.985	1.000	0.983	1.000	0.994	1.000
	667.9	661	0.922	1.029	1.006	1.000	0.961	0.980	0.960	0.980
	197.0	1136	1.017	<i>1.176</i>	0.984	1.000	1.046	0.994	0.790	0.675
	366.3	647	<i>1.051</i>	<i>1.066</i>	0.998	1.000	0.960	0.984	0.962	0.984
mzzv11	310.1	2020	<i>1.192</i>	<i>1.308</i>	<i>1.196</i>	<i>1.245</i>	1.004	0.899	<i>1.198</i>	<i>1.245</i>
	252.6	833	<i>1.779</i>	<i>2.478</i>	<i>1.218</i>	<i>1.186</i>	<i>1.220</i>	<i>1.594</i>	<i>1.273</i>	<i>1.580</i>
	401.2	2039	1.013	<i>1.070</i>	<i>1.210</i>	<i>1.505</i>	0.989	0.979	<i>1.133</i>	<i>1.234</i>
	343.1	1629	<i>1.056</i>	<i>1.169</i>	0.759	0.618	<i>1.110</i>	<i>1.194</i>	0.762	0.618
mzzv42z	200.8	319	0.784	0.654	<i>1.159</i>	<i>1.162</i>	0.813	0.716	<i>1.097</i>	<i>1.088</i>
	202.5	283	1.024	<i>1.068</i>	0.905	0.877	0.956	<i>1.057</i>	0.902	0.877
	169.6	136	<i>1.319</i>	<i>2.602</i>	<i>1.162</i>	<i>1.288</i>	<i>1.153</i>	<i>1.275</i>	<i>1.162</i>	<i>1.288</i>
n4-3	230.6	2733	0.986	<i>1.069</i>	<i>1.119</i>	<i>1.217</i>	<i>1.114</i>	<i>1.243</i>	<i>1.132</i>	<i>1.253</i>

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	\mathbf{T}	\mathbf{N}	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q
	245.6	2239	<i>1.177</i>	<i>1.277</i>	0.908	0.874	0.999	<i>1.081</i>	0.917	0.918
	247.6	2467	0.974	<i>1.093</i>	<i>1.221</i>	<i>1.487</i>	<i>1.238</i>	<i>1.612</i>	<i>1.192</i>	<i>1.439</i>
	280.5	3101	0.949	1.039	0.771	0.773	0.801	0.808	0.832	0.854
neos-1053234	4265.2	645570	<i>1.688</i>	<i>1.639</i>	0.323	1.023	<i>1.688</i>	0.995	0.323	1.023
	4338.0	1047806	0.734	<i>1.153</i>	0.102	0.114	0.221	0.169	0.103	0.114
	952.6	66600	<i>2.298</i>	<i>5.665</i>	<i>1.685</i>	<i>4.578</i>	<i>7.551</i>	<i>21.744</i>	<i>1.327</i>	<i>4.508</i>
	limit	1179819	1.000	0.371	0.612	0.980	1.000	<i>1.738</i>	0.929	1.027
neos-1053591	6.5	2800	0.878	0.894	<i>1.055</i>	<i>1.285</i>	0.926	<i>1.150</i>	1.027	<i>1.285</i>
	6.8	5404	0.567	0.303	0.665	0.531	0.704	0.541	0.646	0.531
	3.1	1208	1.030	<i>1.119</i>	<i>1.140</i>	<i>1.268</i>	<i>1.143</i>	<i>1.382</i>	<i>1.310</i>	<i>1.570</i>
	21.1	17022	<i>1.113</i>	<i>1.157</i>	1.049	0.992	1.034	<i>1.160</i>	1.009	0.984
neos-1056905	limit	12271513	1.000	0.441	0.579	0.238	0.227	0.115	0.474	0.306
neos-1061020	428.3	2130	0.874	0.741	0.748	0.574	0.573	0.485	0.746	0.574
	136.7	547	<i>2.831</i>	<i>2.110</i>	<i>2.264</i>	<i>2.025</i>	<i>1.395</i>	<i>1.196</i>	<i>2.252</i>	<i>2.025</i>
	168.9	484	<i>1.610</i>	<i>1.611</i>	<i>31.631</i>	<i>53.514</i>	<i>1.326</i>	<i>1.416</i>	<i>25.220</i>	<i>48.911</i>
	328.9	1485	0.702	0.604	1.038	<i>1.200</i>	0.981	0.878	1.045	<i>1.200</i>
neos-1096528	2267.5	3276	0.983	0.986	0.956	0.972	1.017	1.000	0.951	0.972
	1629.1	1706	1.001	0.996	1.000	0.998	0.995	1.000	0.996	0.998
	2108.7	3610	1.009	1.028	0.995	1.003	0.998	1.000	0.984	1.003
neos-1109824	38.0	388	0.584	0.502	0.713	0.693	0.701	0.680	0.706	0.693
neos-1126860	627.4	4187	0.965	<i>1.115</i>	1.020	0.996	1.018	<i>1.054</i>	1.009	<i>1.086</i>
	619.8	4406	0.957	1.006	0.986	1.045	1.048	1.020	0.981	1.045
	621.7	4401	0.985	0.931	<i>1.053</i>	0.999	1.027	0.996	1.025	1.011
	602.8	4417	1.027	0.946	1.019	1.001	1.019	1.026	1.019	1.001
neos-1151496	29.7	67	0.795	<i>1.132</i>	0.880	<i>1.084</i>	0.871	<i>1.084</i>	0.871	<i>1.084</i>
	37.9	98	0.948	0.914	0.991	0.965	0.992	0.965	0.993	0.965
neos-1171448	845.0	104	0.096	<i>1.078</i>	1.000	1.000	0.999	1.000	1.000	1.000
	11.4	1	<i>6.156</i>	<i>1.871</i>	0.994	1.000	0.989	1.000	0.990	1.000
neos-1171692	593.8	256	0.065	0.958	<i>1.091</i>	1.000	<i>1.112</i>	1.000	<i>1.105</i>	1.000
	25.9	41	<i>37.632</i>	<i>2.631</i>	0.995	1.000	1.048	1.000	0.999	1.000
	644.5	143	0.010	0.416	0.276	0.560	0.277	0.560	0.276	0.560
	1017.8	327	0.090	0.323	<i>1.216</i>	<i>1.136</i>	<i>7.068</i>	<i>18.557</i>	<i>1.737</i>	<i>1.590</i>

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (N , N_Q) and solving time (T , T_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
neos-1200887	15.3	7506	<i>1.079</i>	1.015	<i>1.123</i>	0.940	<i>1.083</i>	0.971	<i>1.100</i>	0.940
	10.4	3101	0.946	0.948	<i>1.086</i>	1.012	<i>1.114</i>	<i>1.057</i>	<i>1.142</i>	<i>1.275</i>
	25.8	11277	1.003	<i>1.053</i>	<i>1.065</i>	1.035	<i>1.100</i>	1.004	<i>1.076</i>	1.035
	12.6	3179	0.989	<i>1.142</i>	0.903	0.952	0.938	0.952	0.915	0.952
neos-1208069	94.6	1710	<i>1.603</i>	<i>1.323</i>	0.812	0.764	<i>1.125</i>	<i>1.220</i>	0.814	0.764
	56.7	1079	0.953	0.750	<i>1.386</i>	<i>2.876</i>	<i>1.130</i>	<i>1.349</i>	<i>1.396</i>	<i>2.876</i>
	86.7	3420	<i>2.961</i>	<i>2.045</i>	<i>1.408</i>	<i>1.251</i>	0.877	0.502	<i>1.411</i>	<i>1.251</i>
	103.6	2677	0.976	<i>1.073</i>	0.805	0.912	<i>1.182</i>	<i>1.111</i>	0.808	0.912
neos-1208135	183.7	4128	<i>2.352</i>	<i>2.510</i>	<i>1.063</i>	0.584	<i>5.663</i>	<i>4.880</i>	<i>1.074</i>	0.584
	209.4	7144	<i>2.022</i>	0.406	0.920	0.289	<i>1.236</i>	0.620	0.927	0.289
	469.5	6178	0.908	<i>1.694</i>	0.512	0.496	0.475	0.704	0.513	0.496
	351.1	6358	1.044	0.411	0.243	0.118	<i>1.396</i>	<i>1.090</i>	0.244	0.118
neos-1211578	7.7	10541	0.979	0.966	0.872	0.842	0.797	0.693	0.902	0.842
	1.9	1371	<i>1.079</i>	0.995	1.017	0.988	<i>1.137</i>	0.947	<i>1.158</i>	0.988
	4.0	4482	<i>1.134</i>	<i>1.221</i>	<i>1.070</i>	1.037	0.948	0.911	<i>1.142</i>	1.037
	5.1	7154	<i>1.075</i>	<i>1.087</i>	<i>1.052</i>	0.978	0.962	0.860	<i>1.126</i>	0.978
neos-1215259	43.5	731	<i>1.399</i>	<i>1.472</i>	<i>1.223</i>	<i>1.183</i>	<i>1.321</i>	<i>1.331</i>	<i>1.232</i>	<i>1.183</i>
	80.8	1522	0.866	0.886	0.939	0.793	0.868	0.774	0.945	0.793
	122.2	2871	0.592	0.564	0.482	0.535	0.418	0.386	0.485	0.535
	74.9	1683	<i>1.246</i>	<i>1.376</i>	1.049	0.861	<i>1.436</i>	<i>1.386</i>	1.045	0.861
neos-1215891	815.2	7858	0.779	0.640	0.928	<i>1.104</i>	0.824	<i>1.137</i>	0.778	0.705
	557.4	3360	0.599	0.960	0.944	<i>1.093</i>	0.953	<i>1.110</i>	0.943	<i>1.093</i>
	454.3	2260	<i>1.134</i>	<i>1.415</i>	<i>1.122</i>	<i>1.402</i>	0.980	<i>1.165</i>	<i>1.119</i>	<i>1.402</i>
	334.1	2777	<i>1.574</i>	<i>1.129</i>	<i>1.895</i>	<i>1.991</i>	<i>2.205</i>	<i>1.575</i>	<i>1.896</i>	<i>1.991</i>
neos-1223462	158.7	35	<i>1.124</i>	<i>1.237</i>	1.000	<i>1.156</i>	1.002	<i>1.156</i>	1.005	<i>1.156</i>
	215.3	318	<i>1.865</i>	<i>1.591</i>	0.952	0.445	0.902	0.840	0.954	0.445
	161.8	95	<i>1.455</i>	<i>4.128</i>	<i>1.587</i>	<i>3.210</i>	<i>1.551</i>	<i>2.703</i>	<i>1.587</i>	<i>3.210</i>
neos-1228986	12.1	17883	<i>1.267</i>	<i>1.235</i>	<i>1.237</i>	<i>1.293</i>	<i>1.052</i>	<i>1.069</i>	<i>1.231</i>	<i>1.293</i>
	33.2	65779	0.928	0.893	0.774	0.658	0.691	0.558	0.773	0.658
	53.6	127626	<i>1.307</i>	<i>1.404</i>	<i>1.224</i>	<i>1.288</i>	<i>1.216</i>	<i>1.333</i>	<i>1.208</i>	<i>1.288</i>
	36.5	79395	0.675	0.607	0.587	0.414	0.548	0.426	0.574	0.414
neos-1324574	3397.4	26704	0.768	0.628	0.292	0.239	0.326	0.286	0.290	0.239
	3077.0	23757	0.891	0.893	0.963	<i>1.129</i>	<i>1.104</i>	<i>1.270</i>	0.953	<i>1.129</i>
	333.5	2413	0.658	0.522	0.691	0.507	0.592	0.448	0.685	0.507

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	1691.1	13365	<i>1.053</i>	0.957	0.468	0.437	0.591	0.686	0.464	0.437
neos-1330346	limit	241496	0.694	0.878	0.641	0.874	0.988	<i>1.186</i>	0.642	0.874
	limit	228497	0.816	<i>1.057</i>	0.645	0.813	0.607	0.870	0.646	0.813
	4985.4	206094	<i>1.444</i>	<i>1.300</i>	0.722	0.862	0.968	0.925	0.719	0.862
	6586.1	210422	0.842	<i>1.086</i>	0.653	<i>1.095</i>	0.619	1.001	0.651	<i>1.095</i>
neos-1396125	89.5	12253	<i>1.870</i>	<i>1.254</i>	0.837	0.782	<i>1.166</i>	0.872	0.838	0.782
	195.8	14783	0.653	0.559	<i>1.110</i>	0.750	0.747	<i>1.463</i>	<i>1.121</i>	0.750
	94.6	9731	<i>1.303</i>	<i>1.059</i>	<i>1.081</i>	<i>1.246</i>	<i>1.459</i>	<i>1.287</i>	<i>1.086</i>	<i>1.246</i>
	158.3	18443	1.000	0.655	<i>1.215</i>	0.568	<i>1.764</i>	0.673	<i>1.214</i>	0.568
neos-1420205	10.1	14141	0.530	0.309	0.645	0.489	0.748	0.685	0.632	0.489
	3.5	2689	<i>1.341</i>	<i>1.593</i>	0.922	1.004	1.013	<i>1.171</i>	1.002	1.004
	7.3	10217	0.985	0.846	0.926	0.798	0.977	0.825	0.996	0.798
	3.4	2902	<i>1.176</i>	<i>1.324</i>	<i>1.260</i>	<i>1.943</i>	<i>1.581</i>	<i>2.889</i>	<i>1.353</i>	<i>1.943</i>
neos-1427181	2392.6	1395555	<i>2.094</i>	<i>1.127</i>	0.394	0.484	0.433	0.631	0.389	0.484
	2203.4	2076899	<i>2.312</i>	<i>2.044</i>	0.728	0.648	<i>1.785</i>	0.779	0.734	0.648
	limit	5068437	0.394	0.373	0.561	0.454	0.321	0.341	0.563	0.454
	limit	4777442	0.145	0.183	0.149	0.171	0.155	0.159	0.149	0.171
neos-1430701	35.4	35157	0.879	0.885	<i>1.087</i>	<i>1.140</i>	0.836	0.781	<i>1.079</i>	<i>1.140</i>
	19.0	18768	<i>1.058</i>	0.869	0.932	0.831	<i>1.267</i>	<i>1.339</i>	0.948	0.831
	37.2	38753	0.729	0.683	<i>1.132</i>	<i>1.269</i>	<i>1.059</i>	<i>1.137</i>	0.974	0.985
	11.2	6707	<i>1.211</i>	<i>1.648</i>	0.966	0.914	0.846	0.714	1.000	0.914
neos-1439395	128.6	160501	<i>1.104</i>	<i>1.204</i>	0.590	0.571	0.865	0.937	0.587	0.571
	694.8	1021619	0.922	0.949	0.820	0.863	<i>1.100</i>	<i>1.131</i>	0.820	0.863
	127.0	175742	0.866	0.883	0.876	0.882	<i>1.117</i>	<i>1.137</i>	0.879	0.882
	287.9	408814	0.852	0.898	<i>1.948</i>	<i>2.149</i>	<i>1.619</i>	<i>1.759</i>	<i>1.940</i>	<i>2.149</i>
neos-1440225	67.7	2790	0.532	0.500	0.590	0.579	<i>1.161</i>	<i>1.254</i>	0.607	0.579
	62.9	2558	<i>1.258</i>	<i>1.318</i>	0.706	0.673	1.000	0.978	0.715	0.673
neos-1440447	7.2	4124	<i>1.108</i>	<i>1.241</i>	1.020	0.890	0.982	0.921	1.015	0.890
	4.7	2415	0.821	0.877	0.782	0.852	0.815	0.880	0.863	0.852
	10.5	7098	0.997	<i>1.146</i>	<i>1.159</i>	<i>1.437</i>	0.983	1.039	<i>1.183</i>	<i>1.437</i>
	3.1	1074	0.995	<i>1.149</i>	1.007	<i>1.181</i>	<i>1.075</i>	<i>1.243</i>	<i>1.109</i>	<i>1.181</i>
neos-1440460	4609.2	5856899	0.733	0.727	0.697	0.745	0.537	0.577	0.736	0.778
	1581.4	3462	0.376	0.277	0.285	0.138	0.784	0.501	0.286	0.138

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q
	2230.7	6352	<i>1.566</i>	0.941	<i>1.164</i>	0.743	<i>2.269</i>	<i>2.981</i>	<i>1.157</i>	0.743
	1322.4	3693	0.829	0.808	<i>1.148</i>	<i>1.059</i>	<i>1.611</i>	<i>1.371</i>	<i>1.146</i>	<i>1.059</i>
	3620.2	20251	0.459	0.266	0.554	0.582	<i>1.164</i>	0.979	0.562	0.582
neos-1456979	limit	27195	0.459	<i>4.413</i>	1.000	<i>1.170</i>	1.000	<i>1.427</i>	1.000	<i>1.172</i>
	6417.5	116850	<i>1.122</i>	0.306	<i>1.122</i>	0.271	<i>1.122</i>	0.315	<i>1.122</i>	0.271
neos-1460265	10.1	341	0.750	0.363	0.729	0.501	0.889	0.667	0.766	0.501
	5.9	83	<i>1.082</i>	<i>1.060</i>	<i>1.251</i>	<i>1.071</i>	<i>1.238</i>	<i>1.131</i>	<i>1.291</i>	<i>1.071</i>
	7.3	120	0.736	0.645	0.722	0.645	<i>1.416</i>	<i>1.809</i>	0.544	0.459
neos-1461051	39.8	3694	1.021	<i>1.070</i>	0.935	0.960	<i>1.064</i>	0.991	0.929	0.960
	3.1	6441	<i>1.226</i>	<i>1.328</i>	1.049	<i>1.115</i>	<i>1.056</i>	<i>1.115</i>	<i>1.073</i>	<i>1.115</i>
	0.6	41	1.038	<i>1.461</i>	1.019	<i>1.468</i>	<i>1.250</i>	<i>1.468</i>	<i>1.218</i>	<i>1.468</i>
	2.2	3109	0.659	0.299	0.663	0.443	0.526	0.163	0.663	0.443
neos-1582420	39.6	494	<i>1.079</i>	<i>1.367</i>	0.751	0.502	0.767	0.502	0.750	0.502
	41.6	234	0.853	1.009	0.831	0.973	0.832	0.973	0.835	0.973
neos-1595230	299.6	45171	0.966	0.863	0.913	0.815	<i>1.055</i>	0.924	0.910	0.815
	1022.8	202417	0.404	0.315	1.050	<i>1.077</i>	<i>1.128</i>	<i>1.091</i>	<i>1.056</i>	<i>1.077</i>
	255.8	39419	0.971	0.894	<i>1.144</i>	<i>1.192</i>	1.045	<i>1.081</i>	<i>1.145</i>	<i>1.192</i>
	681.5	97082	1.022	1.027	0.977	<i>1.086</i>	1.035	<i>1.147</i>	0.973	<i>1.086</i>
neos-1597104	234.3	5	0.993	1.000	0.992	1.000	0.997	1.000	0.992	1.000
	245.1	5	1.003	1.000	0.990	1.000	0.991	1.000	0.988	1.000
	335.6	12	1.000	1.000	0.954	0.946	0.999	1.000	0.948	0.946
neos-1601936	6810.1	7493	0.559	0.762	0.592	0.783	<i>1.057</i>	<i>1.591</i>	0.592	0.783
	3382.5	5888	<i>1.749</i>	<i>2.039</i>	0.948	0.941	<i>1.117</i>	<i>1.097</i>	0.931	0.941
	limit	22784	0.317	0.053	0.359	0.164	0.216	0.051	0.358	0.164
neos-1603512	3.5	23	1.011	1.000	0.859	0.878	0.913	0.878	<i>1.098</i>	1.024
neos-1603518	8.3	26	0.950	1.008	<i>1.060</i>	1.048	<i>1.242</i>	<i>1.135</i>	1.031	1.048
	8.7	31	<i>1.063</i>	1.031	<i>1.231</i>	<i>1.130</i>	<i>1.261</i>	<i>1.298</i>	<i>1.240</i>	<i>1.130</i>
neos-1605075	limit	3792	0.694	0.469	0.973	0.915	1.000	0.796	0.973	0.915
	limit	8303	0.926	0.891	1.000	<i>1.297</i>	1.000	0.780	1.000	<i>1.297</i>
	4402.8	1754	<i>1.635</i>	<i>2.808</i>	<i>1.635</i>	<i>3.203</i>	<i>1.635</i>	<i>2.885</i>	<i>1.635</i>	<i>3.196</i>
neos-1616732	5630.2	1355685	0.800	0.742	0.999	1.000	0.996	1.000	1.000	1.000
	5096.6	1368476	0.907	0.823	0.997	1.000	1.002	1.000	0.999	1.000

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (N , N_Q) and solving time (T , T_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	4106.7	1166055	0.977	1.024	1.006	1.000	1.005	1.000	0.997	1.000
	3857.7	1010100	0.995	0.959	1.002	1.000	1.003	1.000	1.007	1.000
neos-1620807	9.0	2668	1.020	1.014	1.007	1.010	1.030	1.028	0.990	1.010
	8.3	1432	1.007	0.971	1.007	0.978	1.005	0.992	1.001	0.978
neos-1622252	2841.1	774122	<i>1.833</i>	<i>1.661</i>	<i>2.534</i>	<i>2.008</i>	<i>1.382</i>	<i>1.468</i>	<i>2.534</i>	<i>2.021</i>
	2561.8	699877	1.035	1.024	<i>1.411</i>	<i>1.378</i>	0.981	1.016	<i>1.389</i>	<i>1.378</i>
	limit	1529176	0.457	0.638	0.323	0.470	0.386	0.547	0.274	0.424
neos-430149	42.0	32482	0.986	0.981	0.804	0.740	0.785	0.728	0.797	0.771
	49.3	44565	0.920	0.852	0.745	0.674	0.911	0.854	0.760	0.674
	34.0	26559	1.049	<i>1.065</i>	1.013	1.041	1.024	<i>1.131</i>	1.030	1.041
	40.5	31132	0.847	0.835	0.718	0.702	0.789	0.710	0.715	0.702
neos-476283	170.2	476	1.022	0.877	1.041	0.844	0.997	0.929	1.041	0.844
	174.9	338	0.992	<i>1.242</i>	1.037	<i>1.242</i>	1.015	<i>1.242</i>	1.028	<i>1.242</i>
	247.1	684	0.909	0.772	1.006	0.922	0.921	0.772	1.004	0.922
	173.9	488	0.858	0.716	1.033	0.942	0.976	0.971	1.034	0.942
neos-480878	70.4	12806	<i>1.205</i>	<i>1.484</i>	0.667	0.666	0.903	<i>1.064</i>	0.669	0.666
	68.6	15473	0.895	0.638	<i>1.121</i>	0.918	<i>1.072</i>	0.940	0.613	0.497
	48.2	9983	<i>1.385</i>	<i>1.222</i>	<i>1.140</i>	1.007	<i>1.385</i>	<i>1.111</i>	<i>1.143</i>	1.007
	54.5	10095	<i>1.141</i>	<i>1.213</i>	<i>1.169</i>	<i>1.191</i>	<i>1.087</i>	1.036	<i>1.178</i>	<i>1.169</i>
neos-494568	29.1	6	0.880	1.000	0.744	1.000	0.972	1.047	0.743	1.000
	29.1	6	0.882	1.000	0.936	1.000	0.874	1.000	0.946	1.000
	20.0	6	1.010	1.000	0.954	1.000	<i>1.188</i>	1.000	0.972	1.000
neos-498623	34.4	6	0.945	1.000	0.766	1.000	0.756	1.000	0.856	1.000
	30.1	6	<i>1.077</i>	1.000	<i>1.464</i>	1.019	1.032	1.000	<i>1.479</i>	1.019
	39.8	8	<i>1.485</i>	<i>1.120</i>	<i>1.467</i>	<i>1.120</i>	<i>2.520</i>	<i>3.796</i>	<i>1.467</i>	<i>1.120</i>
	52.9	17	0.826	0.974	0.630	0.906	0.761	0.983	0.630	0.906
neos-503737	329.2	6452	<i>2.273</i>	<i>4.440</i>	0.943	0.742	<i>1.223</i>	<i>1.367</i>	0.935	0.742
	432.2	12109	<i>1.854</i>	<i>3.265</i>	0.509	0.356	0.165	0.052	0.523	0.356
	42.2	204	<i>4.182</i>	<i>7.461</i>	<i>3.583</i>	<i>4.964</i>	<i>18.783</i>	<i>82.336</i>	<i>3.546</i>	<i>4.964</i>
	139.8	2236	<i>1.223</i>	<i>1.321</i>	0.671	0.463	0.720	0.479	0.668	0.463
neos-504674	58.8	6658	<i>1.203</i>	<i>1.195</i>	<i>1.057</i>	1.043	<i>1.072</i>	<i>1.081</i>	<i>1.057</i>	1.043
	43.9	4584	<i>1.381</i>	<i>1.953</i>	<i>1.154</i>	1.024	<i>1.155</i>	<i>1.067</i>	<i>1.165</i>	1.024
	45.8	5412	<i>1.106</i>	<i>1.337</i>	0.891	<i>1.084</i>	0.891	<i>1.051</i>	0.902	<i>1.084</i>

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	\mathbf{T}	\mathbf{N}	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q
	45.6	4839	<i>1.088</i>	<i>1.148</i>	<i>1.055</i>	<i>1.087</i>	<i>1.084</i>	<i>1.151</i>	1.048	<i>1.087</i>
neos-504815	21.5	2382	<i>1.187</i>	<i>1.218</i>	<i>1.203</i>	<i>1.367</i>	<i>1.151</i>	<i>1.376</i>	<i>1.204</i>	<i>1.367</i>
	21.1	2737	0.969	<i>1.080</i>	<i>1.075</i>	<i>1.152</i>	<i>1.075</i>	<i>1.118</i>	<i>1.075</i>	<i>1.152</i>
	21.7	2555	1.040	<i>1.451</i>	0.929	0.992	0.936	1.010	0.991	<i>1.313</i>
	22.6	2749	1.030	<i>1.252</i>	0.941	1.018	0.922	1.027	0.948	1.018
neos-506422	48.2	2953	<i>1.171</i>	<i>1.626</i>	<i>1.286</i>	<i>1.806</i>	<i>1.130</i>	<i>1.352</i>	<i>1.424</i>	<i>1.990</i>
	114.0	12171	0.727	0.494	0.617	0.417	1.020	0.929	0.612	0.417
	78.2	5728	1.026	<i>1.097</i>	0.911	0.951	0.984	<i>1.159</i>	0.901	0.951
	76.5	6311	0.837	0.746	0.372	0.208	0.720	0.680	0.375	0.208
neos-506428	4208.3	492	0.915	0.660	<i>1.171</i>	0.591	<i>1.244</i>	0.880	<i>1.151</i>	0.591
	4046.8	280	<i>1.365</i>	0.868	<i>1.613</i>	0.921	<i>1.353</i>	1.005	<i>1.592</i>	0.921
	3102.7	261	<i>1.912</i>	<i>2.130</i>	<i>1.514</i>	<i>2.050</i>	<i>1.774</i>	<i>2.042</i>	<i>1.509</i>	<i>2.050</i>
	limit	823	0.671	0.644	1.000	0.832	0.940	0.948	1.000	0.833
neos-512201	36.3	3078	0.983	0.978	<i>1.197</i>	<i>1.262</i>	<i>1.142</i>	1.038	<i>1.253</i>	<i>1.262</i>
	28.4	2478	<i>1.068</i>	<i>1.061</i>	0.993	0.875	1.031	0.996	1.007	0.875
	25.6	1679	<i>1.163</i>	<i>1.952</i>	<i>1.257</i>	<i>2.418</i>	<i>1.260</i>	<i>2.301</i>	<i>1.116</i>	<i>1.870</i>
	30.6	2408	0.969	1.037	0.949	0.892	0.902	0.784	0.951	0.892
neos-538867	80.0	23039	<i>1.201</i>	1.033	<i>1.338</i>	<i>1.272</i>	<i>1.206</i>	<i>1.086</i>	<i>1.323</i>	<i>1.272</i>
	133.2	35879	0.848	0.917	<i>1.089</i>	1.013	0.945	0.926	<i>1.083</i>	1.013
	55.2	20539	<i>1.363</i>	<i>1.360</i>	<i>1.453</i>	<i>1.362</i>	<i>1.313</i>	<i>1.207</i>	<i>1.447</i>	<i>1.362</i>
	113.9	28014	<i>1.236</i>	<i>1.186</i>	<i>1.265</i>	<i>1.241</i>	<i>1.230</i>	<i>1.235</i>	<i>1.256</i>	<i>1.241</i>
neos-538916	41.2	5447	0.999	1.007	0.989	1.019	<i>1.098</i>	<i>1.137</i>	0.999	1.019
	33.5	3623	0.993	1.028	0.992	<i>1.079</i>	0.955	0.997	0.988	<i>1.079</i>
	49.3	8663	0.747	0.724	0.916	0.859	0.849	0.919	0.911	0.859
	69.8	11679	0.833	0.697	0.772	0.684	0.809	0.732	0.773	0.684
neos-544324	51.4	97	<i>1.232</i>	<i>1.553</i>	<i>1.253</i>	<i>1.548</i>	0.999	0.990	<i>1.253</i>	<i>1.548</i>
	46.8	21	<i>1.123</i>	<i>1.273</i>	1.009	1.000	1.007	1.000	1.002	1.000
neos-547911	82.0	1207	0.280	0.178	0.267	0.175	0.272	0.175	0.270	0.175
neos-551991	151.6	523	<i>1.160</i>	<i>1.148</i>	<i>1.178</i>	<i>1.053</i>	0.916	0.854	<i>2.047</i>	<i>2.034</i>
	150.3	522	0.871	<i>1.230</i>	<i>1.442</i>	<i>1.468</i>	<i>1.986</i>	<i>2.333</i>	<i>1.446</i>	<i>1.468</i>
	159.5	589	<i>1.144</i>	0.980	<i>1.194</i>	<i>1.125</i>	<i>1.848</i>	<i>2.536</i>	<i>1.201</i>	<i>1.125</i>
	227.2	902	<i>1.515</i>	<i>1.624</i>	<i>1.277</i>	<i>1.638</i>	0.900	0.760	<i>1.156</i>	<i>1.320</i>

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	\mathbf{T}	\mathbf{N}	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q
neos-555001	1.9	1	0.884	1.000	0.952	1.000	0.997	1.000	<i>1.051</i>	1.000
	97.2	1845	0.799	0.617	<i>1.080</i>	0.936	<i>1.187</i>	<i>1.179</i>	<i>1.370</i>	<i>1.816</i>
	65.6	471	<i>1.144</i>	<i>1.951</i>	<i>1.073</i>	<i>1.452</i>	0.837	<i>1.144</i>	<i>1.088</i>	<i>1.452</i>
	64.1	602	0.970	0.972	0.793	0.858	0.782	0.858	0.784	0.858
	47.0	233	<i>1.568</i>	<i>3.577</i>	<i>1.189</i>	<i>1.447</i>	<i>1.115</i>	<i>1.508</i>	1.005	<i>1.180</i>
neos-555343	limit	259436	0.046	0.051	0.591	<i>1.882</i>	0.465	<i>1.171</i>	0.064	0.131
	2863.8	265195	<i>2.514</i>	<i>3.319</i>	0.466	0.461	<i>2.514</i>	0.549	0.467	0.461
	2132.4	186702	0.728	0.993	0.697	0.625	0.688	0.643	0.689	0.625
	limit	312205	0.228	0.509	0.205	0.576	1.000	<i>3.001</i>	0.193	0.449
	limit	840135	0.355	0.516	0.038	0.025	0.054	0.038	0.038	0.025
neos-555424	656.0	86674	0.775	0.602	<i>3.194</i>	<i>3.552</i>	<i>2.488</i>	<i>3.235</i>	0.833	0.756
	549.7	53244	<i>1.063</i>	<i>1.140</i>	<i>1.109</i>	<i>1.145</i>	<i>4.315</i>	<i>8.388</i>	<i>2.090</i>	<i>2.501</i>
	99.6	5538	<i>10.243</i>	<i>27.665</i>	<i>1.560</i>	<i>1.409</i>	<i>59.962</i>	<i>159.463</i>	1.006	0.583
	limit	259436	0.046	0.051	0.591	<i>1.882</i>	0.465	<i>1.171</i>	0.064	0.131
neos-555771	4.2	6	<i>2.185</i>	<i>1.330</i>	0.998	1.000	0.990	1.000	<i>1.051</i>	1.000
	3740.3	35	0.943	0.993	0.964	0.896	0.981	0.874	0.974	0.896
	4551.6	6	<i>1.119</i>	<i>1.151</i>	<i>1.245</i>	<i>1.321</i>	<i>1.234</i>	<i>1.321</i>	<i>1.231</i>	<i>1.321</i>
neos-565672	5249.6	18	0.981	1.017	<i>1.081</i>	<i>1.229</i>	<i>1.054</i>	<i>1.119</i>	<i>1.073</i>	<i>1.229</i>
	12.9	327	0.979	0.883	<i>1.191</i>	<i>1.211</i>	<i>1.218</i>	<i>1.234</i>	<i>1.195</i>	<i>1.211</i>
	15.2	375	0.930	1.000	0.994	0.996	1.018	1.017	1.017	0.996
	12.6	293	0.990	0.980	<i>1.059</i>	<i>1.173</i>	<i>1.098</i>	<i>1.346</i>	<i>1.100</i>	<i>1.173</i>
neos-570431	13.6	347	0.999	0.861	0.968	0.821	1.003	0.821	1.003	0.821
	26.2	676	1.001	1.000	0.986	0.964	0.997	0.964	0.997	0.964
	14.0	91	1.004	1.000	0.902	0.901	0.922	0.901	0.922	0.901
neos-585192	13.9	108	0.683	0.668	1.005	1.000	1.005	1.000	<i>1.086</i>	1.000
	455.6	213158	0.166	0.160	0.143	0.136	0.181	0.159	0.180	0.156
	159.8	54020	<i>1.536</i>	<i>1.256</i>	0.351	0.352	0.866	0.723	0.390	0.292
neos-593853	71.9	20186	<i>1.898</i>	<i>2.946</i>	<i>2.428</i>	<i>2.910</i>	<i>1.943</i>	<i>3.005</i>	<i>3.122</i>	<i>3.272</i>
	78.8	27349	<i>1.642</i>	<i>1.254</i>	0.841	0.840	<i>2.300</i>	<i>2.857</i>	1.001	0.793
	24.8	5	<i>1.061</i>	1.000	0.999	1.000	1.009	1.000	1.004	1.000
	17.2	593	0.783	0.815	0.783	0.815	<i>1.066</i>	<i>1.900</i>	0.771	0.815
neos-595925	20.1	791	<i>1.340</i>	<i>2.195</i>	<i>1.319</i>	<i>1.505</i>	<i>1.332</i>	<i>2.195</i>	<i>1.347</i>	<i>1.505</i>
	33.9	1970	0.421	0.175	0.455	0.211	0.439	0.134	0.460	0.211

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	19.8	363	1.000	1.000	0.700	0.497	1.016	1.000	0.708	0.497
neos-598183	8.4	6	0.838	0.981	0.962	0.991	<i>1.135</i>	0.991	0.947	0.991
	6.4	9	<i>1.345</i>	0.972	<i>1.316</i>	0.963	<i>1.507</i>	0.963	<i>1.360</i>	0.963
	8.7	11	0.961	1.000	0.771	<i>1.306</i>	0.891	0.991	0.802	<i>1.306</i>
	6.6	20	<i>1.138</i>	0.892	<i>1.171</i>	0.867	<i>1.422</i>	0.867	<i>1.161</i>	0.867
neos-603073	6855.4	1457555	0.028	0.026	0.025	0.014	0.023	0.013	0.025	0.014
	745.9	170233	0.419	0.274	0.338	0.258	0.450	0.398	0.343	0.258
	115.7	13204	<i>61.684</i>	<i>144.244</i>	<i>1.432</i>	<i>1.740</i>	<i>1.249</i>	<i>1.322</i>	0.657	0.853
	556.2	88538	0.405	0.373	<i>12.924</i>	<i>18.647</i>	<i>7.018</i>	<i>11.938</i>	<i>12.924</i>	<i>18.575</i>
neos-611838	41.5	241	0.889	<i>1.120</i>	0.876	<i>1.120</i>	0.889	<i>1.120</i>	0.889	<i>1.120</i>
	34.0	251	0.987	<i>1.060</i>	0.989	<i>1.060</i>	1.001	<i>1.060</i>	0.995	<i>1.060</i>
neos-612143	35.9	213	1.019	0.968	1.023	1.000	1.015	1.000	1.044	1.000
	32.2	172	1.018	1.018	1.022	1.018	1.028	1.018	1.036	1.018
neos-612162	37.4	197	0.926	1.000	0.921	1.000	0.927	1.000	0.932	1.000
	28.9	219	1.008	1.000	1.005	1.000	1.016	1.000	1.042	1.000
	limit	568437	0.042	0.016	1.000	0.884	1.000	0.669	1.000	0.886
neos-631784	4226.3	154351	<i>1.703</i>	<i>1.088</i>	<i>1.703</i>	<i>1.857</i>	0.968	0.827	<i>1.703</i>	<i>1.866</i>
	1597.5	58460	<i>1.786</i>	<i>1.418</i>	<i>1.066</i>	0.814	<i>1.430</i>	<i>1.180</i>	<i>1.065</i>	0.814
	4420.3	145938	<i>1.131</i>	<i>1.095</i>	<i>1.207</i>	<i>1.401</i>	<i>1.629</i>	<i>1.727</i>	<i>1.207</i>	<i>1.401</i>
neos-686190	206.9	13509	0.602	0.426	0.552	0.350	0.477	0.293	0.538	0.350
	197.9	11514	1.027	<i>1.173</i>	0.619	0.568	<i>1.291</i>	<i>1.526</i>	0.610	0.568
	145.9	8789	<i>1.095</i>	1.023	0.944	0.936	<i>1.059</i>	1.019	0.937	0.936
	190.8	11046	<i>1.699</i>	<i>1.981</i>	0.669	0.619	<i>1.448</i>	<i>2.151</i>	0.657	0.619
neos-693347	limit	55024	0.241	0.227	0.259	0.157	0.431	0.542	0.259	0.157
	2238.8	17100	<i>1.053</i>	1.033	0.830	0.924	<i>3.215</i>	<i>2.020</i>	0.838	0.924
	5122.1	31274	<i>1.377</i>	<i>2.380</i>	0.550	0.329	0.399	0.173	0.551	0.329
	4900.7	34909	0.876	<i>1.322</i>	0.499	0.434	0.717	0.743	0.500	0.434
neos-709469	0.7	99	<i>1.145</i>	<i>2.397</i>	<i>1.461</i>	<i>7.704</i>	<i>1.461</i>	<i>3.925</i>	<i>1.764</i>	<i>7.704</i>
	0.8	240	1.023	<i>1.221</i>	0.886	0.494	0.909	0.494	0.898	0.494
neos-717614	16.2	4611	<i>1.611</i>	<i>1.560</i>	<i>2.153</i>	<i>4.029</i>	0.784	0.366	<i>2.154</i>	<i>4.029</i>
	15.2	2169	<i>2.802</i>	<i>8.708</i>	<i>1.264</i>	<i>1.867</i>	<i>7.484</i>	<i>31.975</i>	<i>4.558</i>	<i>25.664</i>
	60.3	35953	<i>70.471</i>	<i>49.447</i>	0.267	0.054	<i>2.099</i>	<i>2.249</i>	0.271	0.054

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (N , N_Q) and solving time (T , T_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	50.8	24048	<i>1.146</i>	<i>1.580</i>	0.946	<i>1.279</i>	<i>1.843</i>	<i>2.332</i>	0.933	<i>1.279</i>
neos-775946	9.3	5	<i>1.064</i>	0.990	<i>1.304</i>	1.000	0.995	1.000	<i>1.318</i>	1.000
	16.4	44	1.007	1.000	0.913	0.889	0.924	0.889	0.915	0.889
	8.3	3	<i>1.428</i>	1.000	<i>1.468</i>	<i>1.097</i>	1.028	1.000	<i>1.497</i>	<i>1.097</i>
	12.1	5	0.823	0.990	0.802	1.019	1.028	1.019	0.808	1.019
	95.8	264	1.050	<i>1.071</i>	<i>1.071</i>	<i>1.115</i>	<i>1.071</i>	1.047	<i>1.068</i>	<i>1.115</i>
neos-791021	585.4	95	0.884	0.969	<i>1.096</i>	<i>1.164</i>	<i>1.097</i>	<i>1.164</i>	<i>1.097</i>	<i>1.164</i>
	479.5	66	0.988	<i>1.151</i>	1.017	1.000	1.016	1.000	1.010	1.000
	436.5	60	0.823	0.919	1.008	<i>1.050</i>	0.989	<i>1.050</i>	0.993	<i>1.050</i>
	645.2	120	0.814	0.823	<i>1.155</i>	1.005	<i>1.155</i>	0.986	<i>1.158</i>	1.005
neos-796608	251.8	843587	1.044	1.025	1.026	1.025	1.020	1.026	1.026	1.025
	257.2	841119	1.000	1.003	1.011	1.016	1.000	1.013	1.007	1.016
	255.0	861013	0.990	0.985	0.988	0.980	0.974	0.977	0.976	0.980
neos-803219	39.9	11596	<i>1.246</i>	<i>1.124</i>	<i>1.131</i>	0.986	1.041	0.940	<i>1.127</i>	0.986
	48.8	13052	0.851	0.802	<i>1.087</i>	<i>1.098</i>	<i>1.123</i>	<i>1.079</i>	<i>1.144</i>	<i>1.167</i>
	47.2	13060	0.771	0.850	0.773	0.788	0.998	0.945	0.774	0.788
	32.7	8341	<i>1.185</i>	<i>1.173</i>	<i>1.293</i>	<i>1.379</i>	<i>1.280</i>	<i>1.297</i>	<i>1.287</i>	<i>1.379</i>
neos-803220	109.2	47940	1.004	0.966	0.991	0.969	0.957	0.933	0.989	0.969
	99.0	43166	1.004	0.967	<i>1.103</i>	<i>1.090</i>	0.973	0.981	<i>1.097</i>	<i>1.090</i>
	94.5	41738	0.931	0.929	<i>1.085</i>	1.034	1.009	0.978	<i>1.097</i>	<i>1.078</i>
	97.9	42934	<i>1.070</i>	1.013	1.005	0.957	1.048	0.988	1.007	0.981
neos-806323	40.3	5993	1.044	0.967	1.034	0.982	<i>1.110</i>	<i>1.051</i>	<i>1.147</i>	<i>1.168</i>
	52.3	8199	<i>1.072</i>	<i>1.162</i>	0.976	0.961	0.833	0.701	0.978	0.961
	47.0	6985	1.019	<i>1.121</i>	0.863	0.822	0.915	0.820	0.862	0.822
	47.5	8553	0.968	0.905	0.889	0.813	0.954	0.889	0.896	0.813
neos-807639	22.1	2750	1.049	1.026	1.007	0.951	0.963	0.954	1.012	0.951
	23.2	2615	0.984	0.993	0.978	1.006	1.000	1.021	0.994	1.006
	17.2	1930	<i>1.246</i>	<i>1.281</i>	<i>1.142</i>	<i>1.131</i>	<i>1.234</i>	<i>1.261</i>	<i>1.157</i>	<i>1.131</i>
	24.0	2838	1.016	1.032	1.024	1.036	<i>1.053</i>	1.009	1.032	1.036
neos-807705	33.6	3595	<i>1.128</i>	0.909	0.957	0.833	0.939	0.930	0.990	0.833
	40.8	3291	<i>1.214</i>	<i>1.329</i>	0.859	0.953	0.974	1.046	0.851	0.953
	32.7	3490	<i>1.105</i>	<i>1.076</i>	<i>1.246</i>	<i>1.073</i>	<i>1.250</i>	1.034	<i>1.164</i>	<i>1.227</i>
	36.2	3871	1.036	0.959	0.891	0.724	0.930	0.815	0.934	0.837

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
neos-808072	41.4	334	0.840	<i>1.177</i>	<i>1.107</i>	0.940	<i>1.097</i>	0.885	<i>1.107</i>	0.940
	24.3	85	<i>1.475</i>	<i>1.811</i>	0.921	0.876	0.926	0.822	0.926	0.876
neos-808214	27.9	1091	<i>1.054</i>	0.841	0.948	0.750	1.040	0.977	0.953	0.750
	23.7	854	0.956	0.981	<i>1.187</i>	<i>1.546</i>	<i>1.077</i>	1.044	<i>1.193</i>	<i>1.546</i>
	21.1	500	1.016	<i>1.135</i>	<i>1.064</i>	<i>1.175</i>	1.037	1.033	<i>1.091</i>	<i>1.175</i>
	32.5	1192	0.886	<i>1.229</i>	0.893	<i>1.213</i>	1.023	<i>1.409</i>	0.906	<i>1.213</i>
neos-810286	312.4	745	0.894	0.679	0.356	0.191	0.343	0.191	0.356	0.191
	313.1	575	<i>1.192</i>	<i>1.305</i>	0.881	0.849	0.932	0.874	0.892	0.849
	159.4	362	<i>1.913</i>	<i>2.437</i>	<i>2.231</i>	<i>1.913</i>	<i>1.938</i>	<i>1.712</i>	<i>2.231</i>	<i>1.913</i>
neos-810326	57.3	864	<i>1.175</i>	<i>1.344</i>	0.854	0.989	0.851	0.950	<i>1.056</i>	<i>1.189</i>
	49.4	765	0.967	<i>1.099</i>	0.820	0.855	0.934	1.027	0.818	0.855
	58.1	945	0.884	0.940	<i>1.440</i>	<i>1.580</i>	0.808	0.742	<i>1.446</i>	<i>1.580</i>
neos-820879	51.7	393	<i>1.197</i>	0.266	<i>1.522</i>	1.037	1.014	1.000	<i>1.527</i>	1.037
	56.1	27	<i>1.140</i>	<i>4.024</i>	<i>1.132</i>	<i>3.803</i>	<i>1.141</i>	<i>3.803</i>	<i>1.129</i>	<i>3.803</i>
neos-824661	1229.9	87	<i>1.081</i>	0.781	0.999	0.866	1.021	0.866	1.001	0.866
	945.7	25	<i>1.087</i>	<i>1.096</i>	<i>1.234</i>	<i>1.344</i>	<i>1.598</i>	<i>1.336</i>	<i>1.233</i>	<i>1.344</i>
	1120.7	33	<i>1.096</i>	<i>1.391</i>	<i>1.062</i>	<i>1.286</i>	<i>1.055</i>	<i>1.113</i>	<i>1.061</i>	<i>1.286</i>
	1848.1	42	1.020	1.007	1.028	0.979	1.028	0.979	1.034	0.979
neos-824695	435.8	41	<i>1.492</i>	<i>1.184</i>	<i>1.104</i>	1.043	<i>1.064</i>	<i>1.071</i>	<i>1.108</i>	1.043
	599.4	98	0.598	0.662	0.720	0.636	0.725	0.682	0.785	0.682
	392.8	31	<i>1.304</i>	1.046	1.013	<i>1.366</i>	0.998	<i>1.290</i>	1.028	<i>1.366</i>
	416.5	31	0.768	0.908	0.946	0.977	0.953	0.977	0.945	0.977
neos-826224	235.1	35	<i>1.226</i>	<i>1.074</i>	<i>1.549</i>	0.933	<i>1.545</i>	0.933	<i>1.541</i>	0.933
neos-826250	229.9	24	0.915	0.952	0.917	0.952	0.916	0.952	0.917	0.952
	253.2	26	<i>1.053</i>	0.984	<i>1.171</i>	1.016	0.618	<i>1.167</i>	<i>1.166</i>	1.016
	50.1	1	0.992	1.000	<i>6.766</i>	<i>1.307</i>	<i>6.699</i>	<i>1.307</i>	<i>6.734</i>	<i>1.307</i>
neos-826694	367.3	64	0.747	0.756	0.751	0.756	0.753	0.756	0.748	0.756
	335.9	41	<i>1.487</i>	<i>1.113</i>	<i>1.097</i>	<i>1.113</i>	0.976	0.865	<i>1.101</i>	<i>1.113</i>
	426.4	77	<i>1.254</i>	<i>1.701</i>	<i>1.251</i>	<i>1.701</i>	<i>1.251</i>	<i>1.701</i>	<i>1.252</i>	<i>1.701</i>
	258.4	34	<i>1.269</i>	<i>1.276</i>	<i>1.239</i>	<i>1.299</i>	<i>1.527</i>	<i>1.642</i>	<i>1.237</i>	<i>1.299</i>
neos-826812	55.3	1	<i>4.450</i>	<i>1.168</i>	<i>6.308</i>	<i>1.366</i>	0.999	1.000	<i>6.292</i>	<i>1.366</i>
	172.5	6	<i>1.463</i>	1.009	1.000	1.000	1.000	1.000	1.004	1.000

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
neos-827015	1312.8	357	<i>1.137</i>	0.956	0.832	0.733	0.827	0.733	0.828	0.733
	1038.0	252	<i>1.419</i>	<i>1.139</i>	<i>1.213</i>	0.795	<i>1.199</i>	0.773	<i>1.228</i>	0.795
	2067.0	304	<i>1.865</i>	<i>2.535</i>	0.650	0.869	0.653	0.859	0.661	0.869
	1027.1	213	0.826	0.875	<i>1.170</i>	<i>1.227</i>	<i>1.187</i>	<i>1.220</i>	<i>1.174</i>	<i>1.227</i>
neos-829552	347.8	244	0.901	0.811	0.968	0.767	0.967	0.767	0.969	0.767
	565.4	510	0.580	0.572	0.491	0.397	0.492	0.397	0.592	0.525
	413.5	268	0.803	0.897	0.854	0.973	0.856	0.973	0.694	0.707
	405.6	332	<i>1.164</i>	<i>1.201</i>	<i>1.201</i>	1.039	<i>1.140</i>	<i>1.095</i>	<i>1.199</i>	1.039
neos-831188	245.3	1813	<i>1.300</i>	<i>1.404</i>	0.983	0.923	1.046	<i>1.065</i>	1.002	0.923
	327.3	2365	<i>1.083</i>	<i>1.156</i>	0.826	0.862	0.938	0.978	0.835	0.862
	294.0	2396	<i>1.384</i>	<i>1.290</i>	<i>1.125</i>	0.970	<i>1.062</i>	0.969	<i>1.138</i>	0.970
	336.9	2683	<i>1.154</i>	1.032	1.021	1.026	0.910	0.923	1.028	1.026
neos-839838	3102.5	106988	0.601	0.518	0.268	0.182	0.269	0.181	0.266	0.182
	1099.9	28382	<i>1.068</i>	<i>1.250</i>	1.037	0.983	1.032	0.983	1.031	0.983
	738.1	15857	<i>2.289</i>	<i>2.875</i>	<i>1.410</i>	<i>1.626</i>	<i>1.326</i>	<i>1.300</i>	<i>1.392</i>	<i>1.626</i>
	1320.6	44833	0.690	0.587	<i>1.084</i>	0.947	<i>1.088</i>	0.947	<i>1.084</i>	0.947
neos-839859	52.7	2140	0.977	0.863	0.984	0.863	0.975	0.863	1.023	0.998
	54.3	2493	1.047	1.022	0.988	0.946	<i>1.090</i>	<i>1.214</i>	0.994	0.946
	58.3	2565	1.024	0.990	1.023	0.990	1.022	0.990	1.022	0.990
	57.3	2354	<i>1.499</i>	<i>1.978</i>	<i>1.211</i>	<i>1.464</i>	<i>1.107</i>	<i>1.081</i>	<i>1.207</i>	<i>1.464</i>
neos-841664	3312.8	30581	<i>2.173</i>	<i>3.333</i>	<i>2.173</i>	<i>1.836</i>	<i>2.173</i>	<i>1.098</i>	<i>1.570</i>	0.894
	limit	89023	0.510	0.514	1.000	<i>1.589</i>	1.000	<i>1.051</i>	1.000	<i>1.501</i>
neos-847051	3693.6	1209906	<i>1.949</i>	<i>1.739</i>	<i>1.152</i>	<i>1.192</i>	0.936	0.957	<i>1.147</i>	<i>1.192</i>
neos-848150	16.2	26	0.929	0.976	0.952	1.008	0.934	0.968	0.958	1.008
neos-848845	3390.2	120	0.943	0.986	1.011	1.000	0.995	1.000	0.999	1.000
	2241.4	45	<i>1.102</i>	1.000	1.007	1.000	1.010	1.000	0.995	1.000
	1341.7	49	<i>1.073</i>	1.000	1.000	1.000	0.996	1.000	0.999	1.000
neos-848845	2655.1	136105	0.438	0.399	0.201	0.155	0.140	0.082	0.203	0.155
	146.2	1709	<i>4.414</i>	<i>16.566</i>	<i>4.306</i>	<i>15.677</i>	<i>6.236</i>	<i>25.733</i>	<i>4.310</i>	<i>15.677</i>
	166.1	1614	1.044	<i>1.414</i>	<i>3.628</i>	<i>14.260</i>	<i>1.380</i>	<i>2.740</i>	<i>3.680</i>	<i>14.260</i>
	4445.6	244106	0.051	0.014	0.218	0.198	0.112	0.082	0.213	0.198
neos-849702	179.9	5441	<i>1.756</i>	<i>2.298</i>	<i>1.103</i>	<i>1.266</i>	<i>1.225</i>	<i>1.390</i>	<i>1.104</i>	<i>1.266</i>
	109.6	2429	<i>1.188</i>	<i>1.522</i>	<i>1.739</i>	<i>2.704</i>	<i>1.781</i>	<i>2.764</i>	<i>1.743</i>	<i>2.704</i>

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	\mathbf{T}	\mathbf{N}	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q
	445.8	18527	<i>7.197</i>	<i>10.334</i>	<i>1.633</i>	<i>1.905</i>	0.600	0.570	<i>1.635</i>	<i>1.905</i>
	237.4	7748	0.447	0.240	<i>9.347</i>	<i>12.901</i>	<i>2.784</i>	<i>5.177</i>	<i>9.431</i>	<i>12.901</i>
neos-850681	11.7	6	0.763	1.000	0.984	1.000	0.944	1.009	0.991	1.000
	limit	310287	0.832	0.837	0.519	0.479	0.869	0.879	0.517	0.479
	2337.2	120655	<i>2.525</i>	<i>2.077</i>	<i>2.723</i>	<i>2.239</i>	<i>3.080</i>	<i>2.255</i>	<i>2.693</i>	<i>2.239</i>
	5440.9	223611	<i>1.252</i>	<i>1.275</i>	0.433	0.465	0.585	0.706	0.427	0.465
neos-862348	17.8	185	<i>1.064</i>	0.933	0.990	0.996	0.976	0.996	0.974	0.996
	27.3	710	0.814	0.381	0.817	0.381	0.812	0.381	0.821	0.381
neos-863472	76.3	49643	0.822	0.855	0.916	0.938	0.878	0.919	0.923	0.938
	66.3	43405	1.029	<i>1.107</i>	0.830	0.873	0.911	1.024	0.827	0.873
	44.1	28602	<i>1.093</i>	<i>1.072</i>	0.993	0.974	<i>1.072</i>	1.048	0.978	0.974
	61.8	41542	0.997	<i>1.067</i>	0.889	0.932	0.934	0.973	0.888	0.932
neos-880324	1.0	4	0.961	1.000	1.000	1.000	<i>1.074</i>	1.000	1.005	1.000
neos-885086	6516.2	530	0.276	0.533	<i>1.105</i>	<i>1.543</i>	<i>1.105</i>	1.030	<i>1.105</i>	<i>1.541</i>
	4611.0	201	<i>1.561</i>	<i>3.113</i>	0.998	1.000	0.998	1.000	0.998	1.000
	2076.7	82	<i>3.466</i>	<i>4.170</i>	0.999	1.000	1.002	1.000	1.003	1.000
	2004.7	78	<i>1.852</i>	<i>2.090</i>	<i>1.865</i>	<i>1.691</i>	<i>1.857</i>	<i>1.691</i>	<i>1.864</i>	<i>1.691</i>
neos-885524	limit	1352	0.011	0.345	0.065	0.492	1.000	<i>4.256</i>	0.065	0.492
	limit	3152	1.000	<i>1.383</i>	0.790	1.026	1.000	1.042	0.829	0.893
neos-886822	4163.4	442088	0.795	0.478	0.821	0.637	0.675	0.577	0.821	0.637
	3276.4	320443	0.619	0.468	0.780	0.673	0.785	0.777	0.775	0.673
	2347.8	168397	<i>1.440</i>	<i>1.170</i>	<i>1.765</i>	<i>1.896</i>	0.658	0.559	<i>1.760</i>	<i>1.896</i>
	4379.5	523770	0.705	0.450	0.412	0.307	0.626	0.513	0.410	0.307
neos-892255	96.6	823	0.962	0.922	0.889	0.862	<i>1.187</i>	1.015	0.889	0.862
	107.7	477	<i>1.086</i>	1.017	0.807	0.880	<i>2.093</i>	<i>1.213</i>	0.816	0.880
	102.3	313	0.962	0.964	0.686	0.949	0.790	0.877	0.691	0.949
neos-905856	382.4	28341	0.067	0.017	0.272	0.134	0.344	0.219	0.272	0.134
	271.0	23676	0.466	0.335	0.937	<i>1.247</i>	0.823	0.790	0.939	<i>1.247</i>
	380.1	35578	0.442	0.280	0.679	0.490	0.788	0.620	0.682	0.490
	278.0	16427	<i>2.708</i>	<i>3.201</i>	<i>3.720</i>	<i>5.070</i>	0.558	0.599	<i>3.722</i>	<i>5.070</i>
neos-906865	158.2	22295	0.860	0.773	0.553	0.555	0.557	0.595	0.552	0.555
	222.0	35672	0.787	0.679	0.785	0.683	0.770	0.693	0.831	0.795
	177.3	22778	0.998	<i>1.207</i>	0.949	1.025	<i>1.073</i>	<i>1.310</i>	0.944	1.025

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (\mathbf{N} , \mathbf{N}_Q) and solving time (\mathbf{T} , \mathbf{T}_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q
	98.5	16324	<i>1.442</i>	<i>1.384</i>	0.738	0.619	<i>1.645</i>	<i>1.389</i>	0.736	0.619
neos-911880	1543.2	729520	0.272	0.229	0.354	0.362	0.057	0.022	0.352	0.362
	161.1	95396	<i>44.437</i>	<i>53.305</i>	<i>1.240</i>	0.863	<i>35.429</i>	<i>3.963</i>	<i>1.257</i>	0.863
	limit	6609750	0.051	0.017	1.000	0.914	1.000	0.978	1.000	0.916
neos-912015	17.6	845	1.040	0.706	<i>1.072</i>	<i>1.104</i>	<i>1.627</i>	<i>1.823</i>	<i>1.092</i>	<i>1.104</i>
neos-916173	115.8	10892	0.916	0.978	1.033	<i>1.053</i>	0.932	<i>1.074</i>	1.030	<i>1.053</i>
	149.6	14771	0.593	0.529	0.936	0.914	0.876	0.650	0.925	0.914
	181.3	19965	0.855	0.623	<i>1.130</i>	<i>1.249</i>	0.950	0.743	<i>1.148</i>	<i>1.249</i>
	122.7	13274	0.854	0.651	0.885	0.816	0.793	0.616	<i>1.127</i>	1.036
neos-916792	1020.9	103012	<i>1.340</i>	<i>1.345</i>	<i>1.346</i>	<i>1.564</i>	<i>1.251</i>	<i>1.334</i>	<i>1.323</i>	<i>1.564</i>
	1101.8	124932	<i>1.299</i>	<i>1.289</i>	0.869	0.799	<i>1.080</i>	<i>1.091</i>	0.858	0.799
	2288.4	236234	0.422	0.369	0.333	0.285	0.454	0.470	<i>1.144</i>	<i>1.124</i>
	850.2	70920	<i>2.191</i>	<i>3.243</i>	<i>2.526</i>	<i>3.002</i>	<i>1.282</i>	<i>1.766</i>	<i>2.520</i>	<i>3.002</i>
neos-931538	90.2	5	0.841	1.000	0.801	1.000	0.781	1.000	0.799	1.000
	115.9	5	0.882	1.000	0.997	1.000	0.942	1.000	1.000	1.000
	115.1	5	0.876	1.000	0.840	1.000	0.838	1.000	0.840	1.000
neos-932816	2672.5	414	<i>1.171</i>	<i>1.327</i>	<i>1.152</i>	<i>1.350</i>	<i>1.323</i>	<i>1.453</i>	<i>1.152</i>	<i>1.350</i>
	1375.8	201	0.964	0.967	0.998	1.000	0.995	1.000	0.994	1.000
	3406.9	577	0.824	0.984	0.935	0.936	0.814	0.861	0.930	0.936
neos-933364	38.5	7312	0.888	0.576	0.851	0.304	0.827	0.227	0.837	0.304
	39.1	5010	<i>1.667</i>	<i>4.023</i>	<i>1.106</i>	0.919	<i>1.110</i>	0.919	<i>1.113</i>	0.919
	36.4	9857	0.948	0.518	<i>1.109</i>	1.026	0.930	0.738	<i>1.106</i>	1.026
	64.2	11640	<i>1.844</i>	<i>2.780</i>	<i>1.121</i>	<i>1.394</i>	<i>1.159</i>	<i>1.683</i>	<i>1.133</i>	<i>1.394</i>
neos-933638	4352.1	737	<i>1.654</i>	<i>1.179</i>	0.335	0.332	0.625	0.634	0.334	0.332
	limit	949	0.402	0.330	0.765	0.558	0.689	0.592	0.762	0.558
	3010.8	477	<i>1.939</i>	<i>1.745</i>	<i>2.391</i>	<i>1.263</i>	<i>1.543</i>	<i>1.244</i>	<i>2.391</i>	<i>1.263</i>
	limit	427	0.595	<i>1.645</i>	0.672	<i>1.188</i>	0.660	<i>1.142</i>	0.669	<i>1.188</i>
neos-933815	23.9	2843	<i>1.428</i>	<i>4.129</i>	<i>3.606</i>	<i>20.675</i>	<i>3.278</i>	<i>18.659</i>	<i>3.593</i>	<i>20.675</i>
	31.6	13520	<i>1.400</i>	<i>1.726</i>	<i>2.438</i>	<i>4.175</i>	<i>2.156</i>	<i>3.141</i>	<i>2.405</i>	<i>4.175</i>
	222.3	74601	0.185	0.214	0.228	0.231	0.301	0.331	0.224	0.231
	23.7	4924	<i>1.515</i>	<i>3.104</i>	<i>1.557</i>	<i>4.032</i>	<i>1.074</i>	<i>1.807</i>	<i>1.546</i>	<i>4.032</i>
neos-933966	1498.2	366	<i>4.803</i>	<i>4.646</i>	<i>2.261</i>	<i>3.266</i>	<i>1.747</i>	<i>3.470</i>	<i>2.256</i>	<i>3.266</i>

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	4877.1	1243	0.368	0.159	0.406	0.246	0.555	0.300	0.405	0.246
	1450.1	385	<i>3.679</i>	<i>3.542</i>	<i>3.788</i>	<i>2.254</i>	<i>4.962</i>	<i>3.239</i>	<i>3.773</i>	<i>2.254</i>
	1965.8	121	<i>1.448</i>	<i>5.389</i>	0.612	0.715	0.608	0.715	0.609	0.715
	limit	802	0.989	<i>3.051</i>	1.000	<i>1.824</i>	1.000	<i>2.010</i>	1.000	<i>1.860</i>
neos-935769	limit	1066	0.884	<i>3.624</i>	0.366	0.370	0.424	0.413	0.368	0.370
	limit	2240	1.000	0.332	0.337	0.173	0.539	0.253	0.335	0.173
	6573.5	2397	0.521	0.207	<i>1.095</i>	0.460	0.453	0.334	<i>1.095</i>	0.462
neos-936660	7050.4	1769	1.021	0.657	1.021	0.627	1.021	0.538	1.021	0.629
neos-937446	3015.9	771	0.450	0.417	<i>2.387</i>	<i>2.406</i>	<i>2.387</i>	<i>2.357</i>	<i>2.387</i>	<i>2.406</i>
	limit	1682	1.000	0.791	0.731	0.356	1.000	0.452	0.729	0.356
	limit	955	1.000	<i>1.278</i>	0.633	<i>1.456</i>	0.593	<i>1.100</i>	0.631	<i>1.456</i>
	limit	1482	1.000	<i>1.157</i>	0.407	0.324	0.404	0.324	0.405	0.324
neos-937511	limit	663	0.761	<i>2.577</i>	0.688	<i>1.566</i>	1.000	<i>2.256</i>	0.695	<i>1.566</i>
	limit	761	0.539	<i>1.157</i>	0.392	0.355	0.664	0.485	0.392	0.355
	6362.0	687	<i>1.132</i>	<i>1.604</i>	0.742	<i>1.551</i>	<i>1.132</i>	<i>3.086</i>	0.738	<i>1.551</i>
	4683.4	1441	<i>1.408</i>	<i>1.383</i>	0.314	0.171	0.310	0.171	0.309	0.171
neos-941313	limit	171	1.000	1.026	0.594	0.576	0.560	0.561	0.593	0.576
	1523.3	5	0.548	1.010	<i>3.131</i>	<i>4.286</i>	0.161	0.962	<i>3.110</i>	<i>4.286</i>
	5887.8	201	0.971	0.947	<i>1.167</i>	<i>1.243</i>	1.015	<i>1.056</i>	<i>1.166</i>	<i>1.243</i>
neos-941698	26.7	953	0.883	0.554	0.984	0.889	0.986	0.963	0.975	0.889
	1711.8	470887	0.843	0.817	0.584	0.511	0.500	0.455	0.582	0.511
	1148.5	345134	0.718	0.706	<i>2.027</i>	<i>1.939</i>	0.761	0.785	<i>2.009</i>	<i>1.939</i>
	514.8	95831	<i>1.335</i>	<i>1.900</i>	<i>2.639</i>	<i>4.386</i>	<i>2.788</i>	<i>4.220</i>	<i>2.667</i>	<i>4.386</i>
	2406.5	621947	0.606	0.496	<i>1.132</i>	<i>1.325</i>	0.263	0.225	<i>1.130</i>	<i>1.325</i>
neos-950242	635.2	156	0.678	0.926	0.663	0.695	0.497	0.543	0.678	0.695
	247.7	49	<i>1.182</i>	<i>1.087</i>	<i>1.085</i>	<i>1.060</i>	<i>1.221</i>	<i>1.087</i>	<i>1.113</i>	<i>1.060</i>
	309.8	103	0.851	0.685	1.004	0.837	0.758	0.621	1.022	0.837
	385.3	59	<i>1.922</i>	<i>1.849</i>	<i>1.454</i>	<i>1.346</i>	<i>3.044</i>	<i>5.654</i>	<i>1.458</i>	<i>1.346</i>
neos-953928	489.7	73	<i>1.054</i>	<i>1.139</i>	<i>1.135</i>	<i>1.092</i>	<i>1.113</i>	1.040	<i>1.142</i>	<i>1.092</i>
	460.4	70	0.984	1.012	0.940	0.900	<i>1.152</i>	1.000	0.937	0.900
	673.5	49	0.984	0.960	0.819	0.852	0.819	0.852	0.834	0.852
	442.3	34	<i>1.933</i>	<i>1.261</i>	<i>1.239</i>	<i>1.090</i>	0.392	0.769	<i>1.596</i>	<i>1.701</i>

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q
neos-954925	5325.6	119	<i>1.278</i>	<i>1.945</i>	0.415	0.877	0.902	<i>1.525</i>	0.418	0.877
	2744.2	81	<i>1.170</i>	<i>1.066</i>	1.047	<i>1.409</i>	0.972	1.033	1.033	<i>1.409</i>
	4097.1	252	0.886	0.739	1.005	0.827	0.728	0.551	1.005	0.827
	3339.2	78	0.849	0.792	<i>1.299</i>	<i>5.517</i>	<i>1.908</i>	<i>14.949</i>	<i>2.156</i>	<i>17.545</i>
neos-955215	42.5	61981	0.458	0.286	0.507	0.351	0.569	0.471	0.380	0.219
	22.1	20031	0.743	0.400	0.589	0.468	0.629	0.512	0.598	0.468
	16.9	12998	0.951	<i>1.313</i>	0.840	0.835	0.849	0.733	0.858	0.835
	12.0	7728	0.761	0.498	0.880	0.716	0.881	0.775	0.911	0.716
neos-955800	93.1	2717	0.798	0.796	0.754	0.780	0.828	0.754	0.755	0.780
	42.9	851	<i>1.115</i>	<i>1.155</i>	<i>1.172</i>	<i>1.213</i>	0.905	0.727	<i>1.197</i>	<i>1.280</i>
	50.1	854	0.793	0.846	<i>1.106</i>	<i>1.343</i>	0.874	0.894	<i>1.109</i>	<i>1.343</i>
	78.6	2357	0.771	0.579	0.820	0.638	0.812	0.608	0.819	0.638
neos-956971	4945.3	1140	0.778	0.310	0.447	0.167	0.788	0.326	0.451	0.167
	2337.2	72	<i>1.490</i>	<i>4.616</i>	1.019	0.971	1.005	1.000	1.014	0.971
neos-957143	4960.7	1625	0.249	0.082	0.271	0.101	0.257	0.117	0.269	0.101
	53.2	1	<i>90.854</i>	<i>4.139</i>	0.979	1.000	1.007	1.000	0.979	1.000
	2918.2	112	<i>1.941</i>	<i>1.538</i>	<i>1.082</i>	<i>1.835</i>	1.000	<i>1.835</i>	<i>1.083</i>	<i>1.835</i>
	2824.8	130	<i>1.572</i>	<i>1.822</i>	0.990	<i>1.309</i>	0.034	0.439	0.988	<i>1.309</i>
neos-957323	123.8	2	1.001	1.000	0.630	1.000	1.004	1.000	0.634	1.000
	322.2	17	<i>1.105</i>	1.009	<i>1.100</i>	1.009	<i>1.120</i>	1.009	<i>1.172</i>	<i>1.094</i>
	1671.7	98	0.604	0.646	0.623	0.677	0.575	0.636	0.631	0.677
	1067.4	69	<i>2.070</i>	<i>2.183</i>	<i>1.502</i>	<i>1.515</i>	<i>1.428</i>	<i>1.538</i>	<i>1.513</i>	<i>1.515</i>
neos13	1244.5	38	<i>1.082</i>	<i>1.145</i>	<i>1.685</i>	<i>2.884</i>	<i>5.017</i>	<i>6.174</i>	<i>1.697</i>	<i>2.884</i>
	251.9	10896	<i>1.997</i>	<i>2.130</i>	0.629	0.472	0.583	0.393	0.625	0.472
	144.5	4884	<i>5.403</i>	<i>7.908</i>	0.809	0.593	0.923	0.782	0.802	0.593
	560.5	27179	0.182	0.062	<i>1.743</i>	<i>2.049</i>	<i>1.173</i>	<i>1.192</i>	<i>1.421</i>	<i>1.462</i>
neos18	659.1	33273	0.851	0.721	0.756	0.850	0.707	0.751	0.757	0.850
	28.4	1195	<i>1.060</i>	<i>1.074</i>	1.000	0.998	1.012	1.004	0.990	0.998
	41.4	2800	0.755	0.577	0.747	0.556	0.992	0.730	0.752	0.556
	29.9	1130	0.939	0.903	0.899	0.778	0.881	0.881	0.907	0.887
net12	26.5	941	0.993	1.005	0.976	0.988	0.965	0.988	0.983	0.988
	831.6	1539	<i>1.246</i>	<i>1.435</i>	<i>1.161</i>	<i>1.236</i>	<i>1.567</i>	<i>1.384</i>	<i>1.147</i>	<i>1.314</i>
	931.5	1656	0.991	<i>1.143</i>	0.990	<i>1.147</i>	<i>1.942</i>	0.805	1.017	<i>1.297</i>

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (N , N_Q) and solving time (T , T_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	2372.8	1571	<i>1.080</i>	<i>1.136</i>	<i>1.114</i>	<i>1.690</i>	<i>1.111</i>	1.044	<i>1.108</i>	<i>1.690</i>
	1908.0	2158	<i>2.176</i>	<i>1.673</i>	0.402	0.692	0.555	<i>1.108</i>	0.408	0.692
netdiversion	1107.0	55	0.998	1.026	<i>1.403</i>	<i>1.084</i>	<i>1.397</i>	<i>1.084</i>	<i>1.397</i>	<i>1.084</i>
	2874.7	75	0.896	0.949	0.894	0.949	0.888	0.949	0.892	0.949
	6390.9	149	0.743	<i>1.450</i>	0.995	0.964	<i>1.080</i>	<i>1.482</i>	0.991	0.964
	1042.8	27	1.001	0.992	1.011	1.000	0.999	1.000	1.002	1.000
noswot	319.4	930332	0.887	0.874	0.799	0.834	0.918	0.979	0.898	0.885
	209.1	638764	0.944	0.925	0.946	0.982	0.959	0.937	0.943	0.982
	368.2	1222044	0.793	0.753	0.364	0.315	0.758	0.708	0.362	0.315
	184.9	547512	<i>1.473</i>	<i>1.564</i>	1.032	1.049	<i>2.165</i>	<i>2.311</i>	1.015	1.049
ns1208400	852.0	2184	<i>1.543</i>	<i>1.503</i>	0.371	0.222	0.428	0.518	0.366	0.222
	1039.1	2266	0.385	0.392	0.574	0.840	0.551	0.577	0.584	0.840
	356.4	2042	0.849	<i>1.224</i>	0.604	0.321	0.716	0.539	0.604	0.321
	1540.7	3819	0.411	0.657	<i>1.280</i>	<i>2.022</i>	0.824	<i>1.190</i>	<i>1.285</i>	<i>2.022</i>
ns1688347	46.7	239	1.009	1.044	0.999	0.941	1.018	1.015	1.002	0.941
	85.9	945	0.820	0.754	0.802	0.759	0.876	0.901	0.815	0.759
	195.5	1567	0.936	0.698	0.907	0.648	1.023	0.848	0.908	0.648
	55.2	454	<i>1.156</i>	<i>1.372</i>	1.019	<i>1.060</i>	1.005	1.000	1.028	<i>1.060</i>
ns1766074	816.4	890073	0.988	0.999	1.002	0.998	1.007	0.998	1.003	0.998
	880.1	899379	1.041	1.006	1.023	0.999	1.001	0.995	1.012	0.999
	807.0	902001	1.001	1.000	0.992	0.999	1.006	1.000	0.997	0.999
	910.7	901843	0.991	1.001	1.027	1.000	1.020	1.001	1.030	1.000
ns1830653	358.9	19335	0.685	0.579	0.564	0.487	0.758	0.699	0.566	0.487
	164.9	5757	0.802	0.742	0.866	0.708	0.944	<i>1.116</i>	0.868	0.708
	132.0	5316	<i>1.343</i>	<i>1.331</i>	<i>1.177</i>	0.965	<i>1.254</i>	<i>1.188</i>	<i>1.178</i>	0.965
	193.9	8257	0.945	0.599	0.696	0.530	1.047	0.856	0.700	0.530
nsa	2.3	232	<i>1.110</i>	0.982	1.009	1.000	<i>1.089</i>	1.000	<i>1.147</i>	1.000
	2.3	198	0.963	1.047	1.027	1.000	1.018	1.000	<i>1.101</i>	1.000
	2.3	209	0.997	0.942	1.000	1.000	0.991	1.000	0.988	1.000
	2.3	203	1.033	1.046	1.009	1.000	1.021	1.000	1.015	1.000
nsrand-ipx	632.3	65551	<i>1.139</i>	<i>1.278</i>	0.572	0.553	<i>1.091</i>	<i>1.181</i>	0.577	0.553
	766.8	84144	0.929	0.871	0.942	0.710	0.608	0.501	0.943	0.710
	455.1	40237	<i>2.401</i>	<i>2.820</i>	0.828	0.813	0.802	0.699	0.829	0.813

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (N , N_Q) and solving time (T , T_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	750.3	70493	0.593	0.594	0.787	0.818	0.478	0.409	0.791	0.818
nw04	25.2	4	<i>1.088</i>	1.019	1.000	1.000	0.991	1.000	0.991	1.000
opm2-z7-s2	344.2	2699	<i>1.216</i>	<i>1.387</i>	<i>1.127</i>	<i>1.130</i>	<i>1.141</i>	<i>1.130</i>	<i>1.129</i>	<i>1.130</i>
	321.9	1726	0.839	0.918	0.825	0.959	0.825	0.959	0.826	0.959
	330.0	2369	0.979	0.663	<i>1.221</i>	<i>1.592</i>	<i>1.062</i>	1.005	<i>1.400</i>	<i>1.308</i>
	298.2	1934	<i>1.084</i>	<i>1.077</i>	0.920	0.934	0.924	0.974	0.923	0.934
p2756	5.4	8	<i>1.148</i>	0.972	0.819	<i>1.083</i>	0.886	<i>1.083</i>	0.738	<i>1.093</i>
	4.3	14	0.823	0.904	0.874	<i>1.088</i>	0.746	0.974	0.919	<i>1.088</i>
	4.3	30	1.028	0.977	0.972	0.915	0.992	1.031	0.974	0.915
	3.1	2	1.032	1.029	0.889	1.000	<i>1.463</i>	1.039	0.906	1.000
pg5_34	5628.2	252176	<i>1.052</i>	0.946	1.000	0.906	0.997	1.005	0.999	0.906
	1281.3	221050	<i>1.154</i>	<i>1.068</i>	<i>1.138</i>	<i>1.057</i>	1.025	0.981	<i>1.131</i>	<i>1.057</i>
	3294.3	202592	<i>1.395</i>	<i>1.114</i>	<i>1.219</i>	<i>1.123</i>	<i>1.221</i>	<i>1.051</i>	<i>1.250</i>	<i>1.123</i>
	4094.8	223003	0.986	<i>1.051</i>	0.892	0.995	0.996	1.045	0.898	0.995
pg	20.0	688	<i>1.106</i>	<i>1.193</i>	<i>1.097</i>	<i>1.185</i>	<i>1.093</i>	<i>1.183</i>	<i>1.113</i>	<i>1.185</i>
	31.6	516	<i>1.076</i>	<i>1.135</i>	<i>1.057</i>	<i>1.161</i>	<i>1.069</i>	<i>1.161</i>	<i>1.092</i>	<i>1.161</i>
	29.3	584	1.044	1.038	0.953	0.904	0.972	0.904	0.965	0.904
	19.5	182	1.018	1.046	1.015	1.025	1.016	1.025	1.011	1.025
pigeon-10	limit	15401832	0.817	0.878	0.817	0.872	0.913	0.885	0.810	0.872
	5952.4	13415056	<i>1.192</i>	0.999	1.005	1.017	0.966	1.006	0.992	1.017
	5829.3	13635194	0.989	1.000	0.980	0.999	0.956	0.984	0.963	0.999
pk1	130.7	329300	0.967	0.998	1.004	1.036	<i>1.114</i>	<i>1.091</i>	<i>1.087</i>	<i>1.076</i>
	120.2	316905	<i>1.130</i>	<i>1.086</i>	0.988	0.981	<i>1.231</i>	<i>1.162</i>	<i>1.267</i>	<i>1.179</i>
	117.3	298403	<i>1.060</i>	<i>1.070</i>	<i>1.131</i>	<i>1.169</i>	<i>1.374</i>	<i>1.280</i>	<i>1.397</i>	<i>1.291</i>
	115.7	299208	<i>1.165</i>	<i>1.145</i>	<i>1.161</i>	<i>1.116</i>	<i>1.465</i>	<i>1.399</i>	<i>1.375</i>	<i>1.311</i>
pp08a	2.3	257	<i>1.188</i>	<i>1.070</i>	<i>1.052</i>	<i>1.070</i>	1.048	<i>1.070</i>	1.048	<i>1.070</i>
	2.1	287	1.025	0.953	1.022	0.953	1.022	0.953	1.019	0.953
	2.3	207	0.940	0.860	0.922	0.860	1.018	0.860	<i>1.066</i>	0.860
	1.6	118	0.992	0.991	1.020	0.991	<i>1.184</i>	0.991	<i>1.173</i>	0.991
pp08aCUTS	2.6	180	<i>1.204</i>	<i>1.532</i>	<i>1.096</i>	<i>1.532</i>	<i>1.074</i>	<i>1.289</i>	<i>1.107</i>	<i>1.532</i>
	2.7	164	<i>1.090</i>	<i>1.447</i>	<i>1.071</i>	<i>1.447</i>	<i>1.079</i>	<i>1.447</i>	<i>1.166</i>	<i>1.447</i>
	2.5	252	1.006	0.994	1.023	<i>1.207</i>	<i>1.130</i>	<i>1.142</i>	<i>1.119</i>	<i>1.207</i>
	2.8	291	0.984	0.834	0.963	0.834	1.021	0.783	<i>1.073</i>	0.834

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
prod1	32.2	35022	0.852	0.863	0.801	0.812	0.854	0.899	0.805	0.812
	28.5	28250	0.972	1.015	<i>1.138</i>	<i>1.175</i>	1.020	1.038	<i>1.145</i>	<i>1.175</i>
	22.6	22944	0.929	0.995	0.925	1.018	0.992	0.992	0.934	1.018
	21.1	22434	1.023	1.022	1.021	1.013	1.034	1.041	<i>1.069</i>	1.013
prod2	152.7	112488	0.974	0.960	0.883	0.824	0.619	0.647	0.931	0.969
	limit	2189138	0.015	0.033	0.015	0.037	0.015	0.035	0.015	0.037
	113.6	95391	0.971	0.959	<i>1.300</i>	<i>1.174</i>	<i>1.164</i>	<i>1.091</i>	<i>1.293</i>	<i>1.174</i>
	164.1	123369	0.846	0.879	0.825	0.826	0.552	0.561	0.842	0.826
pw-myciel4	1359.7	161995	0.552	0.557	0.692	0.701	0.691	0.766	0.693	0.701
	1778.5	188895	<i>1.614</i>	<i>1.846</i>	<i>1.344</i>	<i>1.244</i>	<i>1.385</i>	<i>1.581</i>	<i>1.664</i>	<i>1.447</i>
	5296.8	456333	<i>1.359</i>	<i>1.296</i>	<i>1.359</i>	<i>1.538</i>	<i>1.080</i>	<i>1.282</i>	<i>1.246</i>	<i>1.469</i>
	4087.4	395115	0.630	0.603	0.569	0.551	<i>1.052</i>	1.000	0.568	0.551
qiu	37.0	3988	1.045	0.964	1.045	0.978	1.000	0.981	<i>1.061</i>	0.978
	20.2	1911	<i>1.059</i>	<i>1.115</i>	0.997	1.025	<i>1.124</i>	<i>1.085</i>	1.007	1.025
	40.5	3815	1.012	<i>1.069</i>	<i>1.067</i>	<i>1.080</i>	<i>1.093</i>	<i>1.054</i>	<i>1.055</i>	1.022
	46.2	4295	1.021	1.007	<i>1.226</i>	<i>1.223</i>	<i>1.170</i>	<i>1.179</i>	<i>1.191</i>	<i>1.220</i>
qnet1	5.2	24	<i>1.181</i>	1.040	<i>1.110</i>	1.040	<i>1.167</i>	1.040	<i>1.173</i>	1.040
	2.4	2	<i>1.062</i>	1.000	0.994	1.000	<i>1.065</i>	1.000	<i>1.135</i>	1.000
rail507	215.7	651	0.869	0.973	0.976	1.037	0.969	1.037	0.967	1.037
	240.8	828	0.944	0.977	0.995	0.971	0.985	0.971	0.987	0.971
	276.1	999	1.046	0.910	0.899	0.876	0.992	0.995	0.894	0.876
	259.9	930	0.951	0.919	<i>1.240</i>	<i>1.091</i>	<i>1.341</i>	<i>1.231</i>	<i>1.234</i>	<i>1.091</i>
ran14x18.disj-8	2238.1	628002	0.925	0.673	<i>1.098</i>	0.875	0.965	0.597	0.866	0.739
	2357.4	572434	0.937	0.890	1.044	0.990	0.918	0.982	<i>1.292</i>	<i>1.462</i>
	2509.8	608217	<i>1.459</i>	<i>1.301</i>	<i>1.595</i>	<i>1.298</i>	<i>1.567</i>	<i>1.065</i>	<i>1.191</i>	0.989
	2282.1	430341	<i>2.098</i>	<i>1.190</i>	<i>1.560</i>	<i>1.814</i>	<i>1.762</i>	<i>1.576</i>	<i>1.579</i>	<i>1.814</i>
ran14x18_1	1312.9	322042	<i>1.137</i>	<i>1.053</i>	<i>1.577</i>	<i>1.519</i>	1.027	<i>1.091</i>	<i>1.561</i>	<i>1.519</i>
	1495.9	385773	<i>1.139</i>	<i>1.086</i>	<i>1.223</i>	<i>1.330</i>	0.836	0.823	<i>1.228</i>	<i>1.330</i>
	1345.7	408436	<i>1.365</i>	<i>1.219</i>	0.921	0.884	<i>1.421</i>	0.977	0.920	0.884
	1413.1	549906	<i>1.701</i>	<i>1.399</i>	<i>2.082</i>	<i>1.504</i>	<i>1.566</i>	<i>1.314</i>	<i>2.120</i>	<i>1.504</i>
ran16x16	114.4	12752	0.911	<i>1.139</i>	<i>1.131</i>	<i>1.361</i>	0.855	0.634	<i>1.119</i>	<i>1.361</i>
	103.6	14523	1.009	<i>1.070</i>	0.994	0.759	0.911	0.818	0.992	0.759
	77.6	8834	1.047	0.899	<i>1.127</i>	<i>1.214</i>	0.988	<i>1.149</i>	<i>1.137</i>	<i>1.214</i>

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
	86.5	12562	<i>1.142</i>	0.920	<i>1.082</i>	0.653	0.866	0.802	<i>1.089</i>	0.653
reblock67	283.4	34650	1.015	<i>1.169</i>	<i>1.164</i>	<i>1.189</i>	0.891	0.919	<i>1.245</i>	<i>1.247</i>
	208.5	42286	<i>1.220</i>	<i>1.248</i>	<i>1.516</i>	<i>1.698</i>	0.798	0.799	<i>1.576</i>	<i>1.783</i>
	295.1	55204	1.044	0.977	0.844	0.811	0.643	0.581	0.796	0.758
	276.9	52907	1.022	<i>1.072</i>	0.998	1.044	0.876	0.859	0.968	<i>1.076</i>
rmatr100-p10	192.0	790	0.970	1.034	0.962	1.018	0.954	1.018	0.954	1.018
	198.4	779	0.997	1.032	0.981	1.049	0.976	1.049	0.974	1.049
	185.8	787	1.019	<i>1.067</i>	1.021	<i>1.054</i>	1.015	<i>1.054</i>	1.012	<i>1.054</i>
	192.3	769	1.046	<i>1.096</i>	1.014	1.006	1.001	1.006	1.010	1.006
rmatr100-p5	332.3	383	1.037	0.963	1.023	0.954	1.017	0.954	1.019	0.954
	309.6	417	<i>1.113</i>	0.985	<i>1.196</i>	1.035	<i>1.195</i>	1.035	<i>1.222</i>	1.035
	346.1	427	0.939	1.042	1.028	1.011	1.025	1.011	1.021	1.011
	311.0	407	<i>1.119</i>	0.996	<i>1.051</i>	0.949	1.049	0.949	1.047	0.949
rmine6	1101.5	80935	0.939	0.942	0.957	0.945	0.910	0.951	0.950	0.945
	980.5	67361	<i>1.099</i>	0.902	0.978	<i>1.097</i>	<i>1.160</i>	<i>1.336</i>	0.970	<i>1.097</i>
	857.8	74032	<i>1.599</i>	<i>1.639</i>	<i>1.398</i>	<i>1.426</i>	<i>1.456</i>	<i>1.441</i>	<i>1.375</i>	<i>1.554</i>
	972.7	86062	<i>1.148</i>	<i>1.174</i>	<i>1.065</i>	0.879	1.020	0.977	<i>1.053</i>	0.879
rocII-4-11	1830.1	6754	0.950	0.611	<i>1.184</i>	<i>2.076</i>	1.031	<i>1.183</i>	1.043	0.976
	2128.2	11498	0.755	0.373	0.898	0.575	0.860	0.461	0.902	0.575
	2186.4	11600	0.983	0.646	1.020	<i>1.079</i>	0.927	0.503	1.043	<i>1.079</i>
	2494.6	12543	0.907	<i>1.073</i>	0.833	0.868	0.819	0.738	0.864	0.928
rococoC10-001000	2167.2	204524	0.964	0.749	0.849	0.616	0.498	0.444	0.782	0.523
	1204.4	70056	<i>1.080</i>	<i>1.079</i>	0.688	0.723	<i>1.050</i>	0.996	0.687	0.723
	765.6	40706	0.698	0.733	<i>1.638</i>	<i>1.654</i>	<i>1.065</i>	0.978	<i>1.635</i>	<i>1.654</i>
	715.7	40137	<i>1.587</i>	<i>1.409</i>	<i>1.355</i>	<i>1.336</i>	<i>4.730</i>	<i>6.355</i>	<i>1.359</i>	<i>1.336</i>
roll3000	43.2	1323	0.974	<i>1.240</i>	0.990	<i>1.188</i>	0.941	0.897	0.985	<i>1.188</i>
	71.0	3118	<i>1.158</i>	<i>1.432</i>	<i>1.183</i>	<i>1.369</i>	<i>1.072</i>	<i>1.426</i>	<i>1.161</i>	<i>1.369</i>
	56.9	2433	0.737	0.608	0.882	0.768	<i>1.203</i>	0.945	0.884	0.768
	69.5	3012	<i>1.459</i>	<i>1.474</i>	<i>1.256</i>	<i>1.104</i>	<i>1.309</i>	<i>1.124</i>	<i>1.257</i>	<i>1.104</i>
rout	72.3	13008	<i>1.090</i>	<i>1.210</i>	<i>1.219</i>	<i>1.247</i>	<i>1.244</i>	<i>1.336</i>	<i>1.152</i>	<i>1.168</i>
	96.0	17125	<i>1.062</i>	<i>1.171</i>	0.897	0.985	<i>1.174</i>	<i>1.242</i>	0.900	0.985
	80.0	15827	0.921	0.828	<i>1.145</i>	<i>1.128</i>	<i>1.099</i>	<i>1.201</i>	1.004	0.891
	58.5	10429	<i>1.329</i>	<i>1.219</i>	<i>1.136</i>	<i>1.379</i>	<i>1.442</i>	<i>1.791</i>	0.956	0.987

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Table 4: Detailed computational results of the instance group 'affected' of MMMC over up to four random seeds. The table shows the absolute and relative numbers of nodes (N , N_Q) and solving time (T , T_Q). Relative changes by at least 5% are highlighted in bold and blue (**improvement**) or italic and red (*deterioration*).

Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	T	N	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q	T_Q	N_Q
satellites1-25	1054.5	2416	1.048	0.984	0.777	0.495	<i>1.071</i>	<i>1.060</i>	0.769	0.495
	1372.8	2322	0.627	0.379	0.913	0.640	0.610	0.399	0.924	0.640
	1191.4	1235	<i>1.210</i>	<i>2.231</i>	<i>1.354</i>	<i>2.678</i>	0.948	<i>1.625</i>	1.050	<i>1.122</i>
	1404.7	1753	0.845	0.679	0.681	0.361	0.666	0.473	0.677	0.361
sp98ir	72.7	3543	<i>1.243</i>	0.911	<i>1.307</i>	<i>1.469</i>	<i>1.173</i>	<i>1.258</i>	<i>1.303</i>	<i>1.469</i>
	93.8	3831	0.906	<i>1.281</i>	0.899	<i>1.130</i>	1.027	<i>1.569</i>	0.902	<i>1.130</i>
	62.6	3212	<i>1.332</i>	<i>1.543</i>	<i>1.411</i>	<i>1.407</i>	<i>1.407</i>	<i>1.407</i>	<i>1.557</i>	<i>1.501</i>
	90.8	5440	0.779	0.817	0.792	0.646	0.905	0.853	0.791	0.646
stein27	1.2	1155	1.023	1.013	1.041	1.029	1.046	1.029	<i>1.064</i>	1.029
	1.3	1729	0.991	1.031	1.030	1.049	<i>1.073</i>	1.049	<i>1.154</i>	1.049
	0.6	515	0.975	1.036	0.988	<i>1.065</i>	<i>1.161</i>	<i>1.065</i>	<i>1.087</i>	<i>1.065</i>
	0.7	597	1.030	<i>1.146</i>	1.024	<i>1.109</i>	<i>1.207</i>	<i>1.166</i>	<i>1.225</i>	<i>1.109</i>
stein45	17.3	39479	1.032	1.048	1.008	1.000	1.024	1.000	1.004	1.000
	17.3	37653	1.050	<i>1.086</i>	1.019	1.000	1.028	1.000	1.017	1.000
	18.2	39670	0.988	0.983	1.009	1.000	1.040	1.000	1.026	1.000
	18.1	40621	1.043	1.015	1.047	1.000	1.012	1.000	1.041	1.000
tanglegram1	1006.3	113	1.016	1.019	1.016	1.019	1.000	1.019	1.010	1.019
	845.5	71	0.982	1.023	0.994	1.000	0.993	1.000	0.988	1.000
	696.5	61	0.997	1.000	1.007	1.000	0.998	1.000	1.025	1.000
timtab1	61.5	37362	<i>1.260</i>	<i>1.337</i>	<i>1.127</i>	<i>1.151</i>	<i>1.086</i>	<i>1.091</i>	<i>1.217</i>	<i>1.197</i>
	56.9	30500	0.933	1.009	<i>1.330</i>	<i>1.611</i>	<i>1.131</i>	<i>1.244</i>	<i>1.197</i>	<i>1.414</i>
	64.2	42359	<i>1.088</i>	<i>1.055</i>	<i>1.116</i>	<i>1.066</i>	<i>1.234</i>	<i>1.173</i>	<i>1.115</i>	<i>1.066</i>
	60.2	41683	0.992	0.955	0.989	0.880	<i>1.101</i>	1.016	0.952	0.799
tr12-30	783.0	365013	<i>1.317</i>	<i>1.426</i>	<i>1.320</i>	<i>1.423</i>	<i>1.264</i>	<i>1.382</i>	<i>1.341</i>	<i>1.423</i>
	692.3	357383	<i>1.333</i>	<i>1.295</i>	<i>1.065</i>	1.005	<i>1.352</i>	<i>1.314</i>	<i>1.053</i>	1.005
	680.8	293580	<i>1.873</i>	<i>2.028</i>	<i>1.228</i>	<i>1.257</i>	<i>1.409</i>	<i>1.473</i>	<i>1.206</i>	<i>1.257</i>
	670.3	248694	<i>1.071</i>	<i>1.244</i>	<i>1.301</i>	<i>1.549</i>	<i>1.283</i>	<i>1.528</i>	<i>1.285</i>	<i>1.549</i>
	1579.5	151	0.681	0.562	0.752	0.562	0.751	0.562	0.749	0.562
unitcal_7	416.0	149	0.885	1.024	1.022	0.976	0.862	<i>1.088</i>	1.009	0.976
	437.7	294	<i>1.162</i>	<i>1.157</i>	0.792	0.751	0.784	0.751	0.893	0.721
	573.5	580	0.984	0.701	0.684	0.415	0.684	0.415	0.676	0.406
	664.6	815	0.763	0.734	0.880	0.920	1.031	0.791	0.893	0.920
vpm2	3.0	232	<i>1.122</i>	<i>1.096</i>	<i>1.400</i>	<i>1.160</i>	<i>1.336</i>	0.970	<i>1.169</i>	1.033

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Instance	nolockdiving		coefdiving		confdiving		confdiving-noconfs		confdiving-nosols	
	\mathbf{T}	\mathbf{N}	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q	\mathbf{T}_Q	\mathbf{N}_Q
	3.0	330	1.003	0.830	0.992	0.967	<i>1.124</i>	0.967	<i>1.076</i>	0.967
	2.4	141	0.901	<i>1.369</i>	0.915	0.822	0.906	0.822	0.909	0.822
	2.9	256	<i>1.062</i>	0.935	<i>1.157</i>	0.860	<i>1.177</i>	0.860	<i>1.165</i>	0.860
zib54-UUE	1758.3	73640	<i>1.190</i>	1.036	0.875	0.869	0.895	0.765	0.871	0.869
	1669.6	54829	0.881	0.845	<i>1.283</i>	<i>1.426</i>	0.971	<i>1.110</i>	<i>1.302</i>	<i>1.426</i>
	2375.8	79882	0.984	0.933	0.918	0.752	0.826	0.733	0.917	0.752
	2579.9	106384	0.769	0.835	0.542	0.503	0.582	0.500	0.635	0.493