

TABLE 1. List of (possibly) symmetric MIPLIB 2017 instances before presolving. Additionally the \log_{10} of the order of their symmetry groups and the number of variables involved in a nontrivial symmetry is shown. Here, \mathcal{S}_k denotes a symmetric group of degree k in coordinate action, $M(G, \ell)$ represents the matrix action of group G on ℓ points, and “unknown” denotes groups whose type could not be determined by **PermLib**.

name	$\log_{10} G $	#vars	factors
30_70_45_095_100	0.3	0.0	\mathcal{S}_2
30_70_45_095_98	0.3	0.0	\mathcal{S}_2
8div-n59k10	6.6	99.8	1 unknown
8div-n59k11	7.6	99.9	1 unknown
8div-n59k12	8.7	100.0	1 unknown
a2864-99blp	3.9	100.0	1 unknown
ab51-40-100	inf	48.3	$(\mathcal{S}_2)^{84}, (M(\mathcal{S}_2, 16))^7, (M(\mathcal{S}_2, 20))^{10}, (M(\mathcal{S}_3, 24))^2, M(\mathcal{S}_4, 32), 119$ unknown
ab67-40-100	inf	44.6	$(\mathcal{S}_2)^{85}, (M(\mathcal{S}_2, 16))^9, (M(\mathcal{S}_2, 20))^{10}, (M(\mathcal{S}_3, 24))^2, M(\mathcal{S}_4, 32), M(\mathcal{S}_6, 48), M(\mathcal{S}_7, 56), 85$ unknown
ab69-40-100	inf	47.1	$(\mathcal{S}_2)^{84}, (M(\mathcal{S}_2, 16))^{10}, (M(\mathcal{S}_2, 20))^9, (M(\mathcal{S}_3, 24))^3, M(\mathcal{S}_4, 32), M(\mathcal{S}_6, 48), M(\mathcal{S}_7, 56), 84$ unknown
ab71-20-100	inf	38.1	$(\mathcal{S}_2)^{46}, (M(\mathcal{S}_2, 16))^8, (M(\mathcal{S}_2, 20))^3, (M(\mathcal{S}_3, 24))^2, 49$ unknown
ab72-40-100	inf	49.9	$(\mathcal{S}_2)^{758}, (M(\mathcal{S}_2, 16))^9, (M(\mathcal{S}_2, 20))^8, (M(\mathcal{S}_3, 24))^2, M(\mathcal{S}_4, 32), (M(\mathcal{S}_6, 48))^2, M(\mathcal{S}_7, 56), 83$ unknown
academictimetablebig	inf	79.6	$(\mathcal{S}_2)^{85}, (M(\mathcal{S}_2, 6))^{35}, M(\mathcal{S}_2, 8), (M(\mathcal{S}_2, 24))^{35}, M(\mathcal{S}_2, 664), M(\mathcal{S}_3, 996), (M(\mathcal{S}_4, 12))^3, (M(\mathcal{S}_4, 160))^5, M(\mathcal{S}_5, 15), M(\mathcal{S}_5, 20), (M(\mathcal{S}_5, 40))^{35}, 4$ unknown
academictimetablesmall	195.0	81.2	$(\mathcal{S}_2)^{35}, 4$ unknown
acc-tight2	4.6	97.8	1 unknown
acc-tight4	4.6	97.8	1 unknown
air03	3.9	0.2	$(\mathcal{S}_2)^{13}$
allcolor10	13.7	98.3	1 unknown
allcolor58	21.7	99.3	1 unknown
amaze2012-03-15i	—	—	—
amaze2012-06-28i	—	—	—
amaze2012-07-04i	—	—	—
app2-1	7.9	1.5	$(\mathcal{S}_2)^{20}, (\mathcal{S}_3)^2, M(\mathcal{S}_2, 4)$
app3	223.6	28.7	$(\mathcal{S}_{20})^{10}, (M(\mathcal{S}_2, 10))^{22}, (M(\mathcal{S}_3, 15))^{14}, (M(\mathcal{S}_4, 20))^6, M(\mathcal{S}_6, 30), (M(\mathcal{S}_7, 35))^3$
arki001	44.7	2.7	\mathcal{S}_{38}
assign1-10-4	19.1	97.9	1 unknown
assign1-5-8	4.7	85.9	1 unknown
b-ball	12.2	99.0	1 unknown
bab2	0.9	25.0	$(M(\mathcal{S}_2, 12328))^3$
bab3	70.1	9.5	$(\mathcal{S}_2)^{10}, (\mathcal{S}_5)^{16}, (\mathcal{S}_6)^4, (\mathcal{S}_{10})^2, (M(\mathcal{S}_2, 12328))^3, 4$ unknown
bab5	1.2	17.9	$(M(\mathcal{S}_2, 968))^4$
bab6	1.2	24.1	$(M(\mathcal{S}_2, 6896))^4$

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name	$\log_{10} G $	#vars	factors
beasleyC1	1.5	1.6	$(M(\mathcal{S}_2, 8))^5$
beasleyC2	1.4	1.1	$(M(\mathcal{S}_2, 8))^2, M(\mathcal{S}_3, 12)$
beasleyC3	0.6	0.6	$(M(\mathcal{S}_2, 8))^2$
bharat	0.3	80.1	$M(\mathcal{S}_2, 473000)$
biella1	217.2	11.7	$(\mathcal{S}_2)^{261}, (\mathcal{S}_3)^{30}, (\mathcal{S}_4)^{20}, (\mathcal{S}_5)^{13}, (\mathcal{S}_6)^2, (\mathcal{S}_7)^5, \mathcal{S}_8, (\mathcal{S}_9)^2, (\mathcal{S}_{10})^2, \mathcal{S}_{11}$
blend2	5.6	2.5	\mathcal{S}_9
bley_xs1	0.3	0.1	\mathcal{S}_2
bley_xs1noM	0.3	0.1	\mathcal{S}_2
bley_xs2	4.1	9.6	$M(\mathcal{S}_2, 12), M(\mathcal{S}_2, 16), M(\mathcal{S}_2, 20), M(\mathcal{S}_2, 50), M(\mathcal{S}_3, 18), M(\mathcal{S}_5, 125)$
blp-ar98	0.6	0.0	$(\mathcal{S}_2)^2$
blp-ic97	0.6	0.0	$(\mathcal{S}_2)^2$
blp-ic98	0.6	0.0	$(\mathcal{S}_2)^2$
blp-ir98	0.3	0.0	\mathcal{S}_2
bmocbd	inf	10.6	$(\mathcal{S}_2)^9, \mathcal{S}_{157}, (M(\mathcal{S}_2, 10))^{25}, (M(\mathcal{S}_2, 16))^{125}, (M(\mathcal{S}_2, 22))^{37}, (M(\mathcal{S}_2, 28))^{13}, (M(\mathcal{S}_2, 34))^{9}, (M(\mathcal{S}_2, 40))^2, (M(\mathcal{S}_2, 46))^{37}, (M(\mathcal{S}_2, 52))^{13}, (M(\mathcal{S}_2, 58))^{59}, (M(\mathcal{S}_2, 64))^{155}, (M(\mathcal{S}_2, 76))^{12}, (M(\mathcal{S}_2, 82))^{7}, (M(\mathcal{S}_2, 94))^{8}, (M(\mathcal{S}_2, 112))^{85}, (M(\mathcal{S}_3, 15))^3, (M(\mathcal{S}_3, 24))^{23}, (M(\mathcal{S}_3, 33))^{9}, (M(\mathcal{S}_3, 42))^3, (M(\mathcal{S}_3, 51))^2, (M(\mathcal{S}_3, 69))^4, (M(\mathcal{S}_3, 78))^{6}, (M(\mathcal{S}_3, 87))^{9}, (M(\mathcal{S}_3, 96))^{19}, (M(\mathcal{S}_3, 123))^2, (M(\mathcal{S}_3, 168))^{11}, (M(\mathcal{S}_4, 20))^2, (M(\mathcal{S}_4, 32))^{12}, (M(\mathcal{S}_4, 44))^2, M(\mathcal{S}_4, 68), (M(\mathcal{S}_4, 92))^3, M(\mathcal{S}_4, 116), (M(\mathcal{S}_4, 128))^{7}, (M(\mathcal{S}_4, 152))^4, (M(\mathcal{S}_4, 224))^4, (M(\mathcal{S}_5, 25))^2, M(\mathcal{S}_5, 40), M(\mathcal{S}_5, 70), (M(\mathcal{S}_5, 160))^2, M(\mathcal{S}_5, 190), M(\mathcal{S}_6, 30), M(\mathcal{S}_6, 48), M(\mathcal{S}_6, 66), M(\mathcal{S}_6, 174), M(\mathcal{S}_6, 192), M(\mathcal{S}_7, 56), M(\mathcal{S}_7, 77), M(\mathcal{S}_7, 98), M(\mathcal{S}_7, 203), M(\mathcal{S}_{18}, 36)$
bmocbd2	inf	11.1	$(\mathcal{S}_2)^{10}, \mathcal{S}_{159}, (M(\mathcal{S}_2, 10))^{28}, (M(\mathcal{S}_2, 16))^{122}, (M(\mathcal{S}_2, 22))^{38}, (M(\mathcal{S}_2, 28))^{13}, (M(\mathcal{S}_2, 34))^{12}, (M(\mathcal{S}_2, 46))^{35}, (M(\mathcal{S}_2, 52))^{17}, (M(\mathcal{S}_2, 58))^{59}, (M(\mathcal{S}_2, 64))^{177}, (M(\mathcal{S}_2, 76))^{19}, (M(\mathcal{S}_2, 82))^{11}, (M(\mathcal{S}_2, 94))^{8}, (M(\mathcal{S}_2, 112))^{84}, (M(\mathcal{S}_3, 15))^{8}, (M(\mathcal{S}_3, 24))^{25}, (M(\mathcal{S}_3, 33))^{7}, (M(\mathcal{S}_3, 42))^{3}, (M(\mathcal{S}_3, 51))^2, (M(\mathcal{S}_3, 78))^{2}, (M(\mathcal{S}_3, 87))^{13}, (M(\mathcal{S}_3, 96))^{18}, (M(\mathcal{S}_3, 114))^2, (M(\mathcal{S}_3, 123))^2, (M(\mathcal{S}_3, 141))^2, (M(\mathcal{S}_3, 168))^{8}, M(\mathcal{S}_4, 20), (M(\mathcal{S}_4, 32))^{7}, (M(\mathcal{S}_4, 44))^3, M(\mathcal{S}_4, 68), M(\mathcal{S}_4, 92), M(\mathcal{S}_4, 104), (M(\mathcal{S}_4, 116))^3, (M(\mathcal{S}_4, 128))^5, M(\mathcal{S}_4, 152), M(\mathcal{S}_4, 164), (M(\mathcal{S}_4, 224))^3, (M(\mathcal{S}_5, 25))^2, (M(\mathcal{S}_5, 40))^4, (M(\mathcal{S}_5, 55))^2, M(\mathcal{S}_5, 115), M(\mathcal{S}_5, 145), (M(\mathcal{S}_5, 160))^2, (M(\mathcal{S}_6, 48))^2, (M(\mathcal{S}_6, 174))^2, M(\mathcal{S}_7, 392), M(\mathcal{S}_8, 64), M(\mathcal{S}_8, 232), M(\mathcal{S}_{17}, 34)$

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name	$\log_{10} G $	#vars	factors
bmoipr2	68.1	8.9	$(\mathcal{S}_2)^{89}, (M(\mathcal{S}_2, 4))^4, (M(\mathcal{S}_2, 8))^{13}, (M(\mathcal{S}_2, 12))^6,$ $(M(\mathcal{S}_2, 14))^3, (M(\mathcal{S}_2, 16))^{20}, (M(\mathcal{S}_2, 20))^{34},$ $M(\mathcal{S}_2, 34), M(\mathcal{S}_2, 62), M(\mathcal{S}_3, 18), M(\mathcal{S}_3, 24),$ $(M(\mathcal{S}_3, 30))^4, M(\mathcal{S}_3, 33), M(\mathcal{S}_4, 40), 6 \text{ unknown}$
bnatt400	inf	43.6	$(\mathcal{S}_2)^{50}, (\mathcal{S}_3)^{83}, (\mathcal{S}_4)^{98}, (\mathcal{S}_5)^{91}, (\mathcal{S}_6)^{42}, (\mathcal{S}_7)^{16}, \mathcal{S}_8$
bnatt500	inf	43.5	$(\mathcal{S}_2)^{62}, (\mathcal{S}_3)^{107}, (\mathcal{S}_4)^{133}, (\mathcal{S}_5)^{112}, (\mathcal{S}_6)^{56}, (\mathcal{S}_7)^{12}$
brazil3	66.0	91.9	$(M(\mathcal{S}_2, 156))^5, (M(\mathcal{S}_3, 234))^2, M(\mathcal{S}_4, 312),$ $(M(\mathcal{S}_5, 390))^2, 2 \text{ unknown}$
breastcancer-regularized	177.3	39.2	$(\mathcal{S}_2)^{18}, (\mathcal{S}_3)^8, (\mathcal{S}_4)^2, (\mathcal{S}_5)^2, (\mathcal{S}_7)^2, \mathcal{S}_8, (\mathcal{S}_9)^3, (\mathcal{S}_{10})^5,$ $\mathcal{S}_{12}, \mathcal{S}_{20}, \mathcal{S}_{21}, \mathcal{S}_{23}, \mathcal{S}_{27}$
bts4-cta	0.6	0.0	$(M(\mathcal{S}_2, 10))^2$
cdc7-4-3-2	14.2	100.0	1 unknown
cdma	inf	91.2	$(\mathcal{S}_{12})^{104}, M(\mathcal{S}_{12}, 5952)$
chromaticindex1024-7	1.7	100.0	1 unknown
chromaticindex128-5	1.7	100.0	1 unknown
chromaticindex256-8	1.7	100.0	1 unknown
chromaticindex32-8	1.7	100.0	1 unknown
chromaticindex512-7	1.7	100.0	1 unknown
circ10-3	1.3	100.0	1 unknown
cmflsp40-24-10-7	64.8	2.5	$(\mathcal{S}_2)^{119}, (\mathcal{S}_3)^{16}, (\mathcal{S}_4)^{12}$
cmflsp40-36-2-10	122.9	2.5	$(\mathcal{S}_2)^{305}, (\mathcal{S}_3)^{16}, (\mathcal{S}_4)^{12}, \mathcal{S}_5$
cmflsp50-24-10-4	70.9	2.1	$(\mathcal{S}_2)^{115}, (\mathcal{S}_3)^{20}, (\mathcal{S}_4)^{15}$
cmflsp50-24-8-8	97.4	3.2	$(\mathcal{S}_2)^{203}, (\mathcal{S}_3)^{20}, (\mathcal{S}_4)^{15}$
cmflsp60-36-2-6	165.1	2.3	$(\mathcal{S}_2)^{404}, (\mathcal{S}_3)^{24}, (\mathcal{S}_4)^{18}$
co-100	inf	6.3	$(\mathcal{S}_2)^{837}, (\mathcal{S}_3)^{399}, (\mathcal{S}_4)^3, (\mathcal{S}_5)^3, \mathcal{S}_6, (\mathcal{S}_7)^2, \mathcal{S}_{12}, \mathcal{S}_{17}, \mathcal{S}_{19},$ $\mathcal{S}_{21}, \mathcal{S}_{28}, \mathcal{S}_{29}, \mathcal{S}_{30}$
cod105	10.6	100.0	1 unknown
comp07-2idx	46.8	4.6	$(\mathcal{S}_2)^{32}, (\mathcal{S}_3)^3, \mathcal{S}_{31}, (M(\mathcal{S}_2, 62))^2, M(\mathcal{S}_2, 562)$
comp08-2idx	159.2	4.4	$(\mathcal{S}_2)^{38}, (\mathcal{S}_3)^9, \mathcal{S}_4, (\mathcal{S}_6)^2, \mathcal{S}_{87}, M(\mathcal{S}_2, 58), M(\mathcal{S}_2, 100),$ $M(\mathcal{S}_3, 150)$
comp12-2idx	inf	26.3	$(\mathcal{S}_2)^{331}, (\mathcal{S}_3)^{103}, (\mathcal{S}_4)^{24}, (\mathcal{S}_5)^4, (\mathcal{S}_6)^4, (\mathcal{S}_8)^3, \mathcal{S}_{945},$ 1 unknown
comp21-2idx	116.8	2.9	$(\mathcal{S}_2)^{77}, (\mathcal{S}_3)^8, (\mathcal{S}_4)^3, \mathcal{S}_8, \mathcal{S}_{58}, M(\mathcal{S}_2, 62)$
core2536-691	3.6	0.1	$(\mathcal{S}_2)^5, \mathcal{S}_5$
core2586-950	31.1	1.4	$(\mathcal{S}_2)^{86}, (\mathcal{S}_3)^3, \mathcal{S}_6$
core4284-1064	5.3	0.2	$(\mathcal{S}_2)^4, \mathcal{S}_4, \mathcal{S}_5, M(\mathcal{S}_2, 4), M(\mathcal{S}_2, 30)$
core4872-1529	68.8	2.0	$(\mathcal{S}_2)^{211}, (\mathcal{S}_3)^2, \mathcal{S}_6, M(\mathcal{S}_2, 8), M(\mathcal{S}_2, 14), M(\mathcal{S}_2, 28)$
cvrpa-n64k9vrpi	—	—	—
cvrpb-n45k5vrpi	—	—	—
cvrpp-n16k8vrpi	—	—	—
cvrpsimple2i	—	—	—
cvs08r139-94	32.8	100.0	1 unknown
cvs16r106-72	49.9	100.0	1 unknown
cvs16r128-89	42.2	100.0	1 unknown
cvs16r70-62	13.3	100.0	$M(\mathcal{S}_{16}, 2112)$
cvs16r89-60	32.6	100.0	1 unknown

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name	$\log_{10} G $	#vars	factors
datt256	3.6	0.0	$(\mathcal{S}_2)^{12}$
dc1c	inf	19.8	$(\mathcal{S}_2)^{819}, (\mathcal{S}_3)^{64}, (\mathcal{S}_4)^{24}, (\mathcal{S}_5)^2, (\mathcal{S}_6)^8$
dc1l	inf	11.4	$(\mathcal{S}_2)^{1640}, (\mathcal{S}_3)^{174}, (\mathcal{S}_4)^{69}, (\mathcal{S}_5)^{18}, (\mathcal{S}_6)^9, (\mathcal{S}_7)^2$
decomp1	inf	100.0	$(\mathcal{S}_6)^2, (\mathcal{S}_{11})^{91}, M(\mathcal{S}_{12}, 24), 4 \text{ unknown}$
decomp2	inf	100.0	$(\mathcal{S}_8)^2, (\mathcal{S}_{15})^{91}, M(\mathcal{S}_{16}, 32), 4 \text{ unknown}$
dell	145.2	31.2	$(\mathcal{S}_3)^5, (\mathcal{S}_{27})^5, M(\mathcal{S}_2, 30), M(\mathcal{S}_3, 15)$
dg012142	89.1	3.1	\mathcal{S}_{64}
diameterc-mstc-v20a190d5i	—	—	—
diameterc-msts-v40a100d5i	—	—	—
dlr1	—	—	—
dolom1	inf	19.4	$(\mathcal{S}_2)^{907}, (\mathcal{S}_3)^{71}, (\mathcal{S}_4)^{25}, (\mathcal{S}_5)^5, (\mathcal{S}_7)^2, \mathcal{S}_{15}, \mathcal{S}_{33}, \mathcal{S}_{34}$
drayage-100-12	95.8	61.3	1 unknown
drayage-100-23	95.8	61.3	1 unknown
drayage-25-23	95.8	61.3	1 unknown
drayage-25-27	95.8	61.3	1 unknown
drayage-25-32	95.8	61.3	1 unknown
ds-big	inf	1.8	$(\mathcal{S}_2)^{1516}, (\mathcal{S}_3)^{15}$
ds	0.6	0.0	$(\mathcal{S}_2)^2$
dsbmip	8.5	8.6	$(\mathcal{S}_2)^8, \mathcal{S}_8, 1 \text{ unknown}$
elitserienhandball11i	—	—	—
elitserienhandball13i	—	—	—
elitserienhandball14i	—	—	—
elitserienhandball3i	—	—	—
enlight11	0.3	90.9	$M(\mathcal{S}_2, 220)$
enlight4	0.3	75.0	$M(\mathcal{S}_2, 24)$
enlight8	0.3	87.5	$M(\mathcal{S}_2, 112)$
enlight9	0.3	88.9	$M(\mathcal{S}_2, 144)$
ex10	0.9	100.0	1 unknown
ex1010-pi	inf	21.7	$(\mathcal{S}_2)^{1324}, (\mathcal{S}_3)^{366}, (\mathcal{S}_4)^{148}, (\mathcal{S}_5)^{70}, (\mathcal{S}_6)^{32}, (\mathcal{S}_7)^{27}, (\mathcal{S}_8)^{20}, (\mathcal{S}_9)^{13}, (\mathcal{S}_{10})^3, (\mathcal{S}_{11})^5, \mathcal{S}_{12}, (\mathcal{S}_{16})^2$
ex9	30.1	100.0	1 unknown
fast0507	253.0	2.6	$(\mathcal{S}_2)^{786}, (\mathcal{S}_3)^{21}$
fastxgemm-n2r6s0t2	2.3	100.0	1 unknown
fastxgemm-n2r7s4t1	2.9	100.0	1 unknown
fastxgemm-n3r21s3t6	8.1	100.0	1 unknown
fastxgemm-n3r22s4t6	8.7	100.0	1 unknown
fastxgemm-n3r23s5t6	9.4	100.0	1 unknown
fhnw-binpack4-77	0.3	10.7	$M(\mathcal{S}_2, 420)$
fhnw-binschedule2	inf	100.0	$\mathcal{S}_4, 1 \text{ unknown}$
fhnw-sq3	3.1	89.7	1 unknown

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name	$\log_{10} G $	#vars	factors
fiball	inf	92.9	$(S_2)^{49}, (S_3)^{30}, (S_4)^{15}, (S_5)^6, (S_6)^{13}, (S_7)^4, (S_8)^3,$ $(S_9)^3, S_{10}, (S_{11})^4, (S_{12})^2, (S_{13})^2, S_{16}, S_{21}, S_{23},$ $(M(S_2, 4))^{28}, (M(S_2, 6))^{12}, (M(S_2, 8))^9,$ $(M(S_2, 10))^4, (M(S_2, 12))^4, (M(S_2, 14))^2,$ $(M(S_2, 16))^3, M(S_2, 18), (M(S_2, 20))^3, (M(S_2, 22))^7,$ $M(S_2, 24), M(S_2, 26), M(S_2, 28), (M(S_2, 36))^6,$ $(M(S_2, 62))^2, (M(S_2, 86))^3, (M(S_3, 6))^{18},$ $(M(S_3, 9))^6, (M(S_3, 12))^3, M(S_3, 15), M(S_3, 18),$ $M(S_3, 24), (M(S_3, 33))^4, (M(S_3, 36))^4, M(S_3, 39),$ $(M(S_3, 42))^5, (M(S_3, 54))^4, (M(S_3, 93))^5,$ $M(S_3, 129), (M(S_4, 8))^{22}, (M(S_4, 12))^4, M(S_4, 16),$ $(M(S_4, 32))^2, (M(S_4, 44))^5, M(S_4, 48), (M(S_4, 52))^2,$ $M(S_4, 56), M(S_4, 72), (M(S_5, 10))^2, (M(S_5, 15))^2,$ $M(S_5, 20), M(S_5, 35), M(S_5, 65), M(S_5, 70),$ $(M(S_5, 90))^2, M(S_5, 215), (M(S_6, 12))^9, M(S_6, 18),$ $M(S_6, 24), (M(S_6, 48))^2, M(S_6, 78), (M(S_6, 84))^2,$ $M(S_6, 108), M(S_6, 186), (M(S_6, 258))^2, (M(S_7, 14))^3,$ $(M(S_7, 21))^2, (M(S_7, 77))^2, (M(S_7, 126))^2,$ $M(S_8, 16), M(S_8, 32), M(S_8, 88), M(S_9, 27),$ $M(S_9, 99), M(S_9, 279), M(S_{10}, 310), M(S_{11}, 22),$ $M(S_{11}, 121), M(S_{11}, 154), M(S_{11}, 473),$ $(M(S_{12}, 24))^2, M(S_{12}, 48), M(S_{12}, 96), M(S_{12}, 132),$ $M(S_{12}, 144), M(S_{12}, 168), M(S_{12}, 216), M(S_{12}, 372),$ $(M(S_{12}, 516))^2, (M(S_{13}, 143))^2, M(S_{13}, 182),$ $M(S_{13}, 234), M(S_{13}, 559), M(S_{14}, 28), M(S_{14}, 196),$ $M(S_{14}, 252), M(S_{15}, 30), M(S_{15}, 135), M(S_{15}, 240),$ $M(S_{15}, 645), (M(S_{16}, 176))^2, M(S_{17}, 34), M(S_{17}, 51),$ $M(S_{18}, 36), M(S_{18}, 54), M(S_{18}, 774), M(S_{19}, 38),$ $M(S_{21}, 42), M(S_{21}, 252), M(S_{22}, 396), M(S_{23}, 69),$ $M(S_{26}, 52), M(S_{27}, 837), M(S_{29}, 406), M(S_{30}, 540),$ $M(S_{31}, 434), M(S_{32}, 352), M(S_{35}, 70), M(S_{37}, 518),$ $M(S_{37}, 666), M(S_{38}, 684), M(S_{41}, 451), M(S_{42}, 462),$ $M(S_{46}, 1978), M(S_{79}, 1106), M(S_{84}, 1512),$ $M(S_{95}, 1045), M(S_{120}, 5160)$

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name	$\log_{10} G $	#vars	factors
fiber	0.3	0.2	\mathcal{S}_2
fillomino7x7-0i	—	—	—
fjspeasy01i	—	—	—
gen	0.3	33.3	$M(\mathcal{S}_2, 290)$
genus-g31-8	28.0	90.7	$M(\mathcal{S}_{27}, 3159)$
genus-g61-25	78.4	95.6	$M(\mathcal{S}_{58}, 13746)$
gfd-schedulen180f7d50m30k18-16i	—	—	—
gfd-schedulen180f7d50m30k18	inf	0.1	$(\mathcal{S}_2)^3, \mathcal{S}_3, \mathcal{S}_4, (\mathcal{S}_7)^2, \mathcal{S}_{184}$
gfd-schedulen25f5d20m10k3i	—	—	—
gfd-schedulen55f2d50m30k3i	—	—	—
ghoulomb4-9-10i	—	—	—
glass4	0.3	0.6	\mathcal{S}_2
gmu-35-40	inf	39.3	$(\mathcal{S}_2)^{18}, (\mathcal{S}_3)^{16}, (\mathcal{S}_4)^3, (\mathcal{S}_5)^3, \mathcal{S}_{363}$
gmu-35-50	inf	44.5	$(\mathcal{S}_2)^{18}, (\mathcal{S}_3)^{16}, (\mathcal{S}_4)^3, (\mathcal{S}_5)^3, \mathcal{S}_{742}$
gmut-76-40	inf	49.0	$(\mathcal{S}_2)^{10}, (\mathcal{S}_3)^5, (\mathcal{S}_4)^{19}, (\mathcal{S}_5)^{30}, \mathcal{S}_{11668}$
graph20-20-1rand	43.1	98.3	$M(\mathcal{S}_{37}, 2146)$
graph20-80-1rand	198.0	99.5	1 unknown
graph40-20-1rand	279.9	99.5	1 unknown
graph40-40-1rand	inf	99.8	1 unknown
graphdraw-graf02	8.6	81.6	1 unknown
graphdraw-opmanager	1.2	30.0	1 unknown
gus-sch	35.8	50.1	1 unknown
h80x6320	inf	93.1	$(\mathcal{S}_2)^{739}, (\mathcal{S}_3)^{414}, (\mathcal{S}_4)^{256}, (\mathcal{S}_5)^{150}, (\mathcal{S}_6)^{83}, (\mathcal{S}_7)^{33}, (\mathcal{S}_8)^{19}, (\mathcal{S}_9)^6, (\mathcal{S}_{10})^4, \mathcal{S}_{11}, \mathcal{S}_{12}, (\mathcal{S}_{14})^2, \mathcal{S}_{18}, \mathcal{S}_{20}, \mathcal{S}_{24}, \mathcal{S}_{26}, \mathcal{S}_{34}, \mathcal{S}_{36}, \mathcal{S}_{38}, \mathcal{S}_{40}, \mathcal{S}_{44}, \mathcal{S}_{48}, \mathcal{S}_{54}, \mathcal{S}_{56}, \mathcal{S}_{59}, \mathcal{S}_{61}, \mathcal{S}_{64}, \mathcal{S}_{65}, \mathcal{S}_{72}, \mathcal{S}_{76}, \mathcal{S}_{92}, \mathcal{S}_{96}, \mathcal{S}_{106}, \mathcal{S}_{114}, \mathcal{S}_{121}, (\mathcal{S}_{128})^2, \mathcal{S}_{129}, \mathcal{S}_{144}, \mathcal{S}_{153}, \mathcal{S}_{158}, \mathcal{S}_{160}, \mathcal{S}_{161}, (\mathcal{S}_{165})^2, \mathcal{S}_{166}, \mathcal{S}_{180}, \mathcal{S}_{182}, \mathcal{S}_{191}, \mathcal{S}_{198}, \mathcal{S}_{202}, \mathcal{S}_{221}, \mathcal{S}_{229}, \mathcal{S}_{249}, \mathcal{S}_{254}, \mathcal{S}_{298}, \mathcal{S}_{319}, \mathcal{S}_{329}, \mathcal{S}_{377}$
highschool1-aigio	109.3	94.5	7 unknown
hypothyroid-k1	0.8	0.1	\mathcal{S}_3
iis-hc-cov	1.4	1.3	\mathcal{S}_4
irp	304.2	8.8	$(\mathcal{S}_2)^{721}, (\mathcal{S}_3)^{112}$
istanbul-no-cutoff	0.6	0.1	$(\mathcal{S}_2)^2$
ivu06	—	—	—
k1mushroom	inf	33.6	$(\mathcal{S}_3)^{576}, M(\mathcal{S}_2, 34), M(\mathcal{S}_2, 802)$, 1 unknown
k1mushroomi	—	—	—
kosova1	—	—	—
kotttenpark09	—	—	—
l2p1i	—	—	—
l2p2i	—	—	—
lectsched-1	inf	12.4	$(\mathcal{S}_2)^3, (\mathcal{S}_3)^3, \mathcal{S}_{193}, (M(\mathcal{S}_2, 4))^{797}, (M(\mathcal{S}_3, 6))^{18}, (M(\mathcal{S}_4, 8))^6$
lectsched-2	inf	11.7	$(\mathcal{S}_2)^3, \mathcal{S}_{148}, (M(\mathcal{S}_2, 4))^{462}, (M(\mathcal{S}_3, 6))^6, (M(\mathcal{S}_4, 8))^4$
lectsched-3	inf	10.9	$(\mathcal{S}_2)^3, (\mathcal{S}_3)^3, \mathcal{S}_{184}, (M(\mathcal{S}_2, 4))^{633}, (M(\mathcal{S}_3, 6))^{15}$
lectsched-4-obj	217.0	13.2	$\mathcal{S}_{93}, (M(\mathcal{S}_2, 4))^{230}, (M(\mathcal{S}_3, 6))^3, M(\mathcal{S}_4, 8)$

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name	$\log_{10} G $	#vars	factors
lectsched-5-obj	inf	12.6	$(\mathcal{S}_3)^3, \mathcal{S}_{165}, (M(\mathcal{S}_2, 4))^{605}, (M(\mathcal{S}_3, 6))^{18}, (M(\mathcal{S}_4, 8))^6$
liu	0.3	0.2	\mathcal{S}_2
lophal13	inf	72.6	\mathcal{S}_{14050}
lr1dr02vc05v8a-t360	0.3	0.0	\mathcal{S}_2
lr1dr04vc05v17a-t360	0.3	0.0	\mathcal{S}_2
lr1dr12vc10v70b-t360	0.3	0.0	\mathcal{S}_2
lr2-22dr3-333vc4v17a-t60	inf	0.7	$\mathcal{S}_4, (\mathcal{S}_{13})^{60}$
lrn	5.2	0.4	$(\mathcal{S}_2)^{10}, \mathcal{S}_3, \mathcal{S}_4$
mappingmesh3x3mpeg2i	—	—	—
mario-t-hard5i	—	—	—
mas74	0.6	2.6	$(\mathcal{S}_2)^2$
mas76	0.6	2.6	$(\mathcal{S}_2)^2$
maxgasflow	5.5	1.8	$(M(\mathcal{S}_2, 6))^{11}, M(\mathcal{S}_2, 12), M(\mathcal{S}_2, 24), M(\mathcal{S}_3, 12), M(\mathcal{S}_3, 18)$
mcsched	4.5	5.2	$(M(\mathcal{S}_2, 6))^{15}$
misc07	0.8	93.5	$M(\mathcal{S}_3, 243)$
mitre	2.1	12.0	$(M(\mathcal{S}_2, 168))^5, (M(\mathcal{S}_2, 224))^2$
mkc	77.1	61.3	$(\mathcal{S}_2)^9, (\mathcal{S}_3)^4, (M(\mathcal{S}_2, 4))^{15}, (M(\mathcal{S}_2, 6))^3, (M(\mathcal{S}_2, 8))^2, M(\mathcal{S}_2, 10), (M(\mathcal{S}_2, 12))^2, M(\mathcal{S}_2, 24), M(\mathcal{S}_2, 28), (M(\mathcal{S}_3, 6))^6, M(\mathcal{S}_3, 9), (M(\mathcal{S}_3, 12))^2, M(\mathcal{S}_3, 18), (M(\mathcal{S}_3, 24))^2, M(\mathcal{S}_3, 42), (M(\mathcal{S}_4, 8))^4, M(\mathcal{S}_4, 48), (M(\mathcal{S}_5, 10))^2, M(\mathcal{S}_6, 60), M(\mathcal{S}_7, 14), M(\mathcal{S}_8, 16), 5 \text{ unknown}$
mkc1	74.8	53.4	$(\mathcal{S}_2)^9, (\mathcal{S}_3)^4, (M(\mathcal{S}_2, 4))^{15}, (M(\mathcal{S}_2, 6))^3, (M(\mathcal{S}_2, 8))^2, M(\mathcal{S}_2, 10), (M(\mathcal{S}_2, 12))^2, M(\mathcal{S}_2, 18), (M(\mathcal{S}_2, 20))^2, (M(\mathcal{S}_2, 22))^4, (M(\mathcal{S}_2, 24))^2, (M(\mathcal{S}_2, 26))^2, M(\mathcal{S}_2, 28), (M(\mathcal{S}_2, 30))^2, (M(\mathcal{S}_2, 32))^3, (M(\mathcal{S}_2, 36))^3, (M(\mathcal{S}_2, 44))^6, (M(\mathcal{S}_2, 48))^2, (M(\mathcal{S}_2, 52))^2, (M(\mathcal{S}_2, 64))^2, (M(\mathcal{S}_3, 6))^6, M(\mathcal{S}_3, 9), (M(\mathcal{S}_3, 12))^2, M(\mathcal{S}_3, 18), (M(\mathcal{S}_3, 24))^2, M(\mathcal{S}_3, 33), M(\mathcal{S}_3, 42), M(\mathcal{S}_3, 48), M(\mathcal{S}_3, 66), (M(\mathcal{S}_3, 78))^2, M(\mathcal{S}_3, 96), (M(\mathcal{S}_4, 8))^4, M(\mathcal{S}_4, 44), M(\mathcal{S}_4, 48), M(\mathcal{S}_4, 88), M(\mathcal{S}_4, 128), (M(\mathcal{S}_5, 10))^2, M(\mathcal{S}_5, 110), M(\mathcal{S}_6, 60), M(\mathcal{S}_6, 132), M(\mathcal{S}_7, 14), M(\mathcal{S}_8, 16), 7 \text{ unknown}$
mod011	inf	8.2	$\mathcal{S}_{823}, (M(\mathcal{S}_2, 10))^6, M(\mathcal{S}_2, 12)$
momentum3	36.7	0.9	$(M(\mathcal{S}_3, 6))^2, M(\mathcal{S}_5, 10), M(\mathcal{S}_6, 12), M(\mathcal{S}_7, 14), (M(\mathcal{S}_9, 18))^3, M(\mathcal{S}_{13}, 26)$
mrcpspj30-15-5i	—	—	—
mrcpspj30-17-10i	—	—	—
mrcpspj30-53-3i	—	—	—
msc98-ip	inf	33.2	$(\mathcal{S}_2)^{609}, (\mathcal{S}_3)^{266}, (\mathcal{S}_4)^{219}, (\mathcal{S}_5)^{198}, (\mathcal{S}_6)^{210}, (\mathcal{S}_7)^{108}, (\mathcal{S}_8)^{112}, (\mathcal{S}_9)^2, (\mathcal{S}_{10})^6, (M(\mathcal{S}_2, 14))^2, M(\mathcal{S}_2, 24), M(\mathcal{S}_2, 26), M(\mathcal{S}_2, 34), M(\mathcal{S}_2, 38), \mathcal{S}_2 \wr \mathcal{S}_2$
mspsphard01i	—	—	—
mspsphard03i	—	—	—
mushroom-best	4.0	26.4	$(M(\mathcal{S}_2, 6))^2, M(\mathcal{S}_2, 38), M(\mathcal{S}_2, 806), M(\mathcal{S}_2, 1158), M(\mathcal{S}_4, 12), 1 \text{ unknown}$

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name	$\log_{10} G $	#vars	factors
mzzv11	46.7	3.0	$(\mathcal{S}_2)^{155}$
mzzv42z	33.1	1.9	$(\mathcal{S}_2)^{110}$
n2seq36q	9.8	64.0	$M(\mathcal{S}_2, 72), (M(\mathcal{S}_2, 74))^4, (M(\mathcal{S}_2, 78))^2, (M(\mathcal{S}_2, 86))^4,$ $M(\mathcal{S}_2, 96), (M(\mathcal{S}_2, 114))^4, (M(\mathcal{S}_2, 134))^2, M(\mathcal{S}_2, 166),$ $(M(\mathcal{S}_2, 204))^2, M(\mathcal{S}_2, 320), M(\mathcal{S}_2, 510), M(\mathcal{S}_2, 514),$ $M(\mathcal{S}_2, 822), M(\mathcal{S}_2, 1042), M(\mathcal{S}_2, 3900), M(\mathcal{S}_2, 4782),$ $M(\mathcal{S}_4, 228)$
n3seq24	9.8	11.4	$M(\mathcal{S}_2, 48), (M(\mathcal{S}_2, 50))^4, (M(\mathcal{S}_2, 54))^2, (M(\mathcal{S}_2, 62))^4,$ $M(\mathcal{S}_2, 72), (M(\mathcal{S}_2, 90))^4, (M(\mathcal{S}_2, 110))^2, M(\mathcal{S}_2, 142),$ $(M(\mathcal{S}_2, 180))^2, M(\mathcal{S}_2, 296), (M(\mathcal{S}_2, 490))^2,$ $M(\mathcal{S}_2, 798), M(\mathcal{S}_2, 1018), M(\mathcal{S}_2, 3878), M(\mathcal{S}_2, 4772),$ $M(\mathcal{S}_4, 180)$
nag	0.3	0.1	\mathcal{S}_2
nb10tb	inf	45.5	$(\mathcal{S}_2)^{44}, (\mathcal{S}_3)^{33}, (M(\mathcal{S}_2, 22))^{12}, (M(\mathcal{S}_2, 60))^4,$ $(M(\mathcal{S}_2, 80))^4, (M(\mathcal{S}_2, 180))^4, M(\mathcal{S}_2, 7620),$ $(M(\mathcal{S}_3, 33))^4, (M(\mathcal{S}_4, 44))^2, (M(\mathcal{S}_5, 55))^3, M(\mathcal{S}_6, 66),$ $(M(\mathcal{S}_7, 77))^2, (M(\mathcal{S}_8, 88))^2, M(\mathcal{S}_{10}, 110),$ $M(\mathcal{S}_{11}, 121), M(\mathcal{S}_{12}, 132), 3 \text{ unknown}$
neos-1061020	inf	44.6	$(\mathcal{S}_2)^{471}, (\mathcal{S}_3)^{182}, (\mathcal{S}_4)^{21}, (\mathcal{S}_5)^8, (\mathcal{S}_6)^{16}, (\mathcal{S}_7)^3, \mathcal{S}_{64},$ $(M(\mathcal{S}_2, 4))^{18}, (M(\mathcal{S}_3, 6))^{12}, (M(\mathcal{S}_4, 8))^{32},$ $(M(\mathcal{S}_5, 10))^{50}, (M(\mathcal{S}_6, 12))^{20}, M(\mathcal{S}_9, 18),$ $(M(\mathcal{S}_{12}, 24))^9, M(\mathcal{S}_{14}, 28), M(\mathcal{S}_{17}, 34),$ $(M(\mathcal{S}_{20}, 40))^{56}, 8 \text{ unknown}$
neos-1067731	4.5	3.3	$(M(\mathcal{S}_2, 8))^5, M(\mathcal{S}_2, 10), (M(\mathcal{S}_2, 12))^3, (M(\mathcal{S}_2, 30))^2,$ $(M(\mathcal{S}_2, 36))^4$
neos-1112782	56.1	2.2	$M(\mathcal{S}_{45}, 90)$
neos-1112787	47.9	2.4	$M(\mathcal{S}_{40}, 80)$
neos-1171448	87.3	100.0	$M(\mathcal{S}_{63}, 4914)$
neos-1171737	32.4	100.0	$M(\mathcal{S}_{30}, 2340)$
neos-1223462	175.9	100.0	$(\mathcal{S}_5)^{29}, (\mathcal{S}_{10})^2, \mathcal{S}_{70}, 1 \text{ unknown}$
neos-1337307	3.7	87.5	$M(\mathcal{S}_7, 2485)$
neos-1354092	10.7	99.6	1 unknown
neos-1367061	74.5	2.0	$(\mathcal{S}_2)^{42}, (M(\mathcal{S}_2, 4))^{153}, M(\mathcal{S}_{18}, 36)$
neos-1396125	0.8	78.3	$M(\mathcal{S}_3, 909)$
neos-1420546	5.6	100.0	$M(\mathcal{S}_9, 26055)$
neos-1420790	280.7	100.0	1 unknown
neos-1423785	67.7	0.4	1 unknown
neos-1425699	3.0	19.0	$(\mathcal{S}_2)^{10}$
neos-1430701	11.4	100.0	$M(\mathcal{S}_6, 24), (M(\mathcal{S}_6, 48))^2, M(\mathcal{S}_6, 192)$
neos-1442119	43.8	100.0	$M(\mathcal{S}_{14}, 56), (M(\mathcal{S}_{14}, 112))^2, M(\mathcal{S}_{14}, 448)$
neos-1445532	129.6	8.4	$\mathcal{S}_{76}, (M(\mathcal{S}_2, 4))^{10}, (M(\mathcal{S}_2, 6))^7, (M(\mathcal{S}_2, 8))^2,$ $(M(\mathcal{S}_2, 10))^4, (M(\mathcal{S}_2, 12))^4, (M(\mathcal{S}_2, 14))^3,$ $(M(\mathcal{S}_2, 16))^2, M(\mathcal{S}_2, 24), M(\mathcal{S}_2, 26), M(\mathcal{S}_2, 28),$ $M(\mathcal{S}_2, 34), M(\mathcal{S}_2, 36), M(\mathcal{S}_2, 40), M(\mathcal{S}_2, 44),$ $M(\mathcal{S}_2, 62), M(\mathcal{S}_2, 64), M(\mathcal{S}_2, 70), M(\mathcal{S}_2, 88),$ $M(\mathcal{S}_2, 98), M(\mathcal{S}_2, 102), M(\mathcal{S}_2, 108), (M(\mathcal{S}_3, 6))^2,$ $M(\mathcal{S}_3, 9), M(\mathcal{S}_3, 18), M(\mathcal{S}_4, 8)$

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name	$\log_{10} G $	#vars	factors
neos-1445738	5.1	0.3	$S_6, (M(S_2, 4))^2, (M(S_2, 10))^2, M(S_2, 24), M(S_3, 9)$
neos-1445743	1.7	0.2	$S_3, M(S_2, 4), M(S_2, 6), M(S_2, 22)$
neos-1445765	5.2	0.5	$S_4, (M(S_2, 4))^3, M(S_2, 8), (M(S_2, 10))^2, M(S_2, 14), M(S_2, 16), M(S_4, 32)$
neos-1456979	2.1	100.0	$M(S_5, 4605)$
neos-1516309	inf	100.0	$(M(S_{50}, 750))^5, 1 \text{ unknown}$
neos-1582420	inf	73.9	$(S_2)^{145}, (S_3)^{156}, (S_4)^{73}, (S_5)^{101}, (S_6)^{24}, (S_7)^{93}, (S_8)^{44}, (S_9)^{112}, (S_{10})^{176}, (S_{11})^{60}, (S_{12})^{52}, (S_{13})^8, (S_{14})^{16}, (S_{15})^8, (S_{16})^{12}, (S_{18})^4$
neos-1593097	70.2	100.0	1 unknown
neos-1599274	64.5	100.0	$M(S_{50}, 4500)$
neos-1601936	inf	9.2	$S_{72}, 1 \text{ unknown}$
neos-1605061	103.8	1.8	S_{72}
neos-2075418-temuka	9.9	34.0	$(M(S_2, 1664))^{10}, (M(S_4, 3328))^3$
neos-2669500-cust	190.3	100.0	1 unknown
neos-2746589-doon	163.0	100.0	$M(S_4, 2304), M(S_5, 2880), M(S_9, 5184), M(S_{10}, 6960), 1 \text{ unknown}$
neos-2974461-ibar	1.2	0.7	$(S_2)^3, M(S_2, 1508)$
neos-2978193-inde	2.2	87.5	$M(S_3, 7800), M(S_4, 10400)$
neos-2978205-isar	2.2	87.5	$M(S_3, 39000), M(S_4, 52000)$
neos-2987310-joes	inf	21.1	$(S_2)^{2943}$
neos-2991472-kalu	6.2	100.0	1 unknown
neos-3004026-krka	inf	100.0	2 unknown
neos-3009394-lami	inf	100.0	2 unknown
neos-3045796-mogo	46.4	60.6	1 unknown
neos-3048764-nadi	6.3	27.2	$(M(S_2, 240))^6, (M(S_3, 360))^4, M(S_4, 480)$
neos-3065804-namu	5.7	0.3	$(S_6)^2$
neos-3068746-nene	0.3	4.9	$M(S_2, 240)$
neos-3072252-nete	0.3	0.3	S_2
neos-3075395-nile	25.2	78.6	$(M(S_2, 28))^{13}, 6 \text{ unknown}$
neos-3083784-nive	inf	100.0	1 unknown
neos-3116779-oban	8.3	20.6	$(M(S_2, 40))^{25}, M(S_3, 60)$
neos-3118745-obra	3.7	17.7	$(M(S_2, 20))^7, (M(S_3, 30))^2$
neos-3148108-pahi	inf	95.2	41 unknown
neos-3208254-reiu	—	—	—
neos-3209462-rhin	inf	4.5	$(S_{12})^{210}$
neos-3209519-ruhr	25.2	100.0	$M(S_{25}, 8675)$
neos-3211096-shag	3.5	100.0	1 unknown
neos-3214367-sovi	5.4	0.8	$(S_2)^{18}$
neos-3216931-puriri	4.8	0.9	$(S_2)^{16}$
neos-3230376-yser	inf	100.0	$S_{48}, 1 \text{ unknown}$
neos-3237086-abava	9.8	100.0	1 unknown
neos-3283608-agout	inf	99.8	$S_{64}, 1 \text{ unknown}$
neos-3322547-alsek	—	—	—
neos-3354841-apure	48.5	0.3	$(S_2)^{143}, (S_3)^7$
neos-3355120-tarago	0.3	5.1	$M(S_2, 400)$

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name	$\log_{10} G $	#vars	factors
neos-3355323-arnon	6.0	100.0	1 unknown
neos-3372571-onahau	0.6	5.3	$(M(\mathcal{S}_2, 346))^2$
neos-3381206-awhea	inf	100.0	$M(\mathcal{S}_{475}, 2375)$
neos-3402294-bobin	20.8	99.2	$(M(\mathcal{S}_2, 32))^{66}$, 1 unknown
neos-3402454-bohle	20.8	99.2	$(M(\mathcal{S}_2, 32))^{66}$, 1 unknown
neos-3421095-cinca	0.9	0.7	$(\mathcal{S}_2)^3$
neos-3426085-ticino	inf	100.0	$M(\mathcal{S}_{293}, 4688)$
neos-3426132-dieze	inf	100.0	$M(\mathcal{S}_{550}, 11550)$
neos-3530903-gauja	inf	100.0	$M(\mathcal{S}_{210}, 2310)$
neos-3530905-gaula	inf	100.0	$M(\mathcal{S}_{190}, 2090)$
neos-3555904-turama	inf	12.2	$(\mathcal{S}_2)^{539}$, \mathcal{S}_{1367} , $(M(\mathcal{S}_2, 4))^{502}$, $(M(\mathcal{S}_3, 6))^{19}$
neos-3581454-haast	8.7	100.0	$M(\mathcal{S}_{12}, 8112)$
neos-3592146-hawea	302.9	7.7	$(\mathcal{S}_{15})^{25}$
neos-3594536-henty	0.3	0.0	$M(\mathcal{S}_2, 6)$
neos-3603137-hoteo	3.5	100.0	1 unknown
neos-3610040-iskar	12.1	3.5	\mathcal{S}_{15}
neos-3611447-jijia	2.8	2.3	$(\mathcal{S}_2)^2, \mathcal{S}_3, \mathcal{S}_4$
neos-3611689-kaihu	5.6	3.8	$\mathcal{S}_3, (\mathcal{S}_4)^2, \mathcal{S}_5$
neos-3615091-sutlej	inf	100.0	$(\mathcal{S}_{10})^{100}$, \mathcal{S}_{1010} , $M(\mathcal{S}_{10}, 203030)$
neos-3627168-kasai	81.3	98.8	\mathcal{S}_{59} , 1 unknown
neos-3631363-vilnia	231.1	3.4	$\mathcal{S}_2, (\mathcal{S}_3)^{20}$, $\mathcal{S}_4, \mathcal{S}_{17}$, 2 unknown
neos-3636886-kereu	inf	98.5	$(M(\mathcal{S}_{500}, 6500))^2$
neos-3654993-kolva	1.4	4.9	$M(\mathcal{S}_4, 664)$
neos-3656078-kumeu	2.7	30.8	$(M(\mathcal{S}_2, 1022))^2$, $M(\mathcal{S}_5, 2535)$
neos-3661949-lesse	52.0	2.6	$(\mathcal{S}_5)^{25}$
neos-3672928-linge	0.8	4.6	$M(\mathcal{S}_3, 2850)$
neos-3682128-sandon	199.6	75.2	\mathcal{S}_{120} , $M(\mathcal{S}_3, 5802)$
neos-3695882-vesdre	2.1	100.0	$M(\mathcal{S}_5, 6135)$
neos-3696678-lyvia	135.7	98.0	$\mathcal{S}_{15}, M(\mathcal{S}_2, 90), M(\mathcal{S}_4, 180), (M(\mathcal{S}_5, 225))^4$, $M(\mathcal{S}_8, 360)$, $(M(\mathcal{S}_{10}, 450))^3$, $(M(\mathcal{S}_{20}, 900))^2$, $(M(\mathcal{S}_{25}, 1125))^2$, 1 unknown
neos-3699377-maori	24.8	71.9	$(M(\mathcal{S}_4, 688))^{18}$
neos-3703351-marne	19.3	62.8	$(M(\mathcal{S}_4, 396))^{14}$
neos-3734794-moppy	177.6	99.1	1 unknown
neos-3740487-motru	37.7	98.5	1 unknown
neos-3755335-nizao	6.9	92.1	1 unknown
neos-3759587-noosa	4.6	76.3	1 unknown
neos-3761878-oglio	19.3	53.5	$(M(\mathcal{S}_4, 248))^{14}$
neos-3762025-ognon	13.8	53.1	$(M(\mathcal{S}_4, 248))^{10}$
neos-3988577-wolgan	188.0	100.0	$M(\mathcal{S}_{35}, 6965)$, $M(\mathcal{S}_{95}, 18905)$
neos-4165869-wannon	4.7	97.4	\mathcal{S}_4 , 1 unknown
neos-4230265-orari	16.3	100.0	$M(\mathcal{S}_2, 8)$, $M(\mathcal{S}_4, 16)$, $M(\mathcal{S}_6, 24)$, $M(\mathcal{S}_8, 32)$, $M(\mathcal{S}_{10}, 40)$, 1 unknown
neos-4232544-orira	49.1	100.0	$M(\mathcal{S}_4, 16)$, $M(\mathcal{S}_8, 32)$, $M(\mathcal{S}_{12}, 48)$, $M(\mathcal{S}_{16}, 64)$, $M(\mathcal{S}_{20}, 80)$, 1 unknown

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name	$\log_{10} G $	#vars	factors
neos-4264598-oueme	16.3	100.0	$M(\mathcal{S}_2, 26), M(\mathcal{S}_4, 52), M(\mathcal{S}_6, 78), M(\mathcal{S}_8, 104), M(\mathcal{S}_{10}, 130)$, 1 unknown
neos-4290317-perth	198.8	0.2	\mathcal{S}_{120}
neos-4292145-piako	16.3	100.0	$M(\mathcal{S}_2, 8), M(\mathcal{S}_4, 16), M(\mathcal{S}_6, 24), M(\mathcal{S}_8, 32), M(\mathcal{S}_{10}, 40)$, 1 unknown
neos-4300652-rahue	inf	5.2	$(\mathcal{S}_{91})^{19}$
neos-4322846-ryton	2.1	96.0	$M(\mathcal{S}_5, 104390)$
neos-4335396-skien	82.7	12.1	$(\mathcal{S}_2)^5, \mathcal{S}_4, \mathcal{S}_5, \mathcal{S}_{10}, \mathcal{S}_{11}, (\mathcal{S}_{12})^2, \mathcal{S}_{13}, (\mathcal{S}_{14})^2, \mathcal{S}_{17}$
neos-4335793-snake	43.4	5.5	$\mathcal{S}_{37}, M(\mathcal{S}_2, 1656)$
neos-4358725-tagus	16.3	98.7	$M(\mathcal{S}_2, 8), M(\mathcal{S}_4, 16), M(\mathcal{S}_6, 24), M(\mathcal{S}_8, 32), M(\mathcal{S}_{10}, 40)$, 1 unknown
neos-4359986-taipa	2.1	99.6	$M(\mathcal{S}_5, 25025)$
neos-4382714-ruvuma	17.9	100.0	1 unknown
neos-4391920-timok	2.1	99.8	$M(\mathcal{S}_5, 93670)$
neos-4409277-trave	2.3	88.9	1 unknown
neos-4477313-unzha	17.5	100.0	1 unknown
neos-4532248-waihi	1.4	96.2	$M(\mathcal{S}_4, 83512)$
neos-4533806-waima	inf	100.0	1 unknown
neos-4555749-wards	inf	100.0	$\mathcal{S}_5, \mathcal{S}_{10}, \mathcal{S}_{15}, \mathcal{S}_{30}, \mathcal{S}_{35}, \mathcal{S}_{40}, (\mathcal{S}_{45})^2$, 3 unknown
neos-4647027-thurso	4.6	0.6	$M(\mathcal{S}_8, 56)$
neos-4647030-tutaki	4.6	0.6	$M(\mathcal{S}_8, 72)$
neos-4647032-veleka	4.6	0.6	$M(\mathcal{S}_8, 104)$
neos-4650160-yukon	1.4	0.6	$M(\mathcal{S}_4, 8)$
neos-4736745-arroux	0.6	3.1	$(M(\mathcal{S}_2, 96))^2$
neos-4738912-atrato	0.6	3.1	$(M(\mathcal{S}_2, 96))^2$
neos-4754521-awarau	2.2	17.7	$M(\mathcal{S}_3, 1050), M(\mathcal{S}_3, 4200)$, 1 unknown
neos-4797081-pakoka	8.7	93.7	1 unknown
neos-4805882-barwon	inf	40.0	$(\mathcal{S}_2)^{16}, (\mathcal{S}_8)^6, \mathcal{S}_{1296}, M(\mathcal{S}_{14}, 546), M(\mathcal{S}_{16}, 624), (M(\mathcal{S}_{44}, 1056))^2, (M(\mathcal{S}_{88}, 176))^8, (M(\mathcal{S}_{176}, 352))^8$
neos-480878	8.7	2.2	\mathcal{S}_{12}
neos-4954274-beardy	21.2	0.3	$\mathcal{S}_5 \wr \mathcal{S}_8$
neos-498623	inf	80.0	$(\mathcal{S}_2)^{38}, (\mathcal{S}_3)^{79}, (\mathcal{S}_4)^2, \mathcal{S}_{10}, (\mathcal{S}_{21})^8, (\mathcal{S}_{27})^4, \mathcal{S}_{30}, \mathcal{S}_{35}, \mathcal{S}_{37}, \mathcal{S}_{41}, \mathcal{S}_{43}, (M(\mathcal{S}_2, 130))^4$, 3 unknown
neos-503737	17.3	100.0	1 unknown
neos-5041756-cobark	158.0	99.5	$M(\mathcal{S}_{100}, 60000)$
neos-5044663-wairoa	inf	17.6	$(\mathcal{S}_2)^{2910}, (\mathcal{S}_3)^{194}, (\mathcal{S}_4)^{1184}, (\mathcal{S}_6)^8$
neos-5045105-creuse	41.5	55.2	$(\mathcal{S}_2)^{65}, (\mathcal{S}_3)^{10}, (\mathcal{S}_4)^{10}, M(\mathcal{S}_2, 1924)$
neos-5049753-cuanza	0.3	100.0	$M(\mathcal{S}_2, 242736)$
neos-5051588-culgoa	1.2	0.2	$(\mathcal{S}_2)^4$
neos-5052403-cygnets	inf	16.1	$(\mathcal{S}_5)^2, \mathcal{S}_6, (\mathcal{S}_{10})^4, \mathcal{S}_{5226}$
neos-5075914-elvire	204.9	37.1	$(M(\mathcal{S}_2, 8))^{66}, (M(\mathcal{S}_2, 12))^2, (M(\mathcal{S}_3, 12))^8, M(\mathcal{S}_{110}, 1210)$
neos-5076235-embley	36.6	20.5	$(M(\mathcal{S}_2, 152))^{49}, (M(\mathcal{S}_{14}, 1372))^2$
neos-5078479-escaut	3.6	3.0	$(M(\mathcal{S}_2, 8))^{10}, (M(\mathcal{S}_2, 12))^2$
neos-5079731-flyers	36.6	20.5	$(M(\mathcal{S}_2, 152))^{49}, (M(\mathcal{S}_{14}, 1372))^2$
neos-5083528-gimone	17.9	7.9	$(M(\mathcal{S}_4, 160))^2, M(\mathcal{S}_4, 200), M(\mathcal{S}_4, 224), M(\mathcal{S}_4, 260), M(\mathcal{S}_4, 272), M(\mathcal{S}_4, 280), M(\mathcal{S}_4, 372), M(\mathcal{S}_4, 388), M(\mathcal{S}_4, 452), M(\mathcal{S}_4, 560), M(\mathcal{S}_4, 656), M(\mathcal{S}_4, 808)$

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name	$\log_{10} G $	#vars	factors
neos-5093327-huahum	26.6	5.0	$(M(\mathcal{S}_{16}, 1024))^2$
neos-5100895-inster	30.3	22.1	$(M(\mathcal{S}_2, 176))^{28}, (M(\mathcal{S}_{14}, 784))^2$
neos-5102383-irwell	36.6	22.1	$(M(\mathcal{S}_2, 176))^{49}, (M(\mathcal{S}_{14}, 1372))^2$
neos-5114902-kasavu	0.3	100.0	$M(\mathcal{S}_2, 710164)$
neos-5116085-kenana	0.3	100.0	$M(\mathcal{S}_2, 509236)$
neos-5125849-lopori	4.5	99.6	1 unknown
neos-5129192-manaia	1.8	0.0	$(\mathcal{S}_2)^6$
neos-5149806-wieprz	inf	99.6	$\mathcal{S}_2, \mathcal{S}_3, \mathcal{S}_4, 1 \text{ unknown}$
neos-5157194-moruya	9.2	0.4	$\mathcal{S}_2, (M(\mathcal{S}_2, 6))^{11}, M(\mathcal{S}_9, 27)$
neos-5178119-nalagi	9.8	99.4	$(M(\mathcal{S}_2, 6))^{30}, M(\mathcal{S}_3, 3960)$
neos-5182409-nasivi	1.4	100.0	$M(\mathcal{S}_4, 2004)$
neos-5189128-totara	3.1	98.9	$(M(\mathcal{S}_3, 8910))^4$
neos-5192052-neckar	0.9	20.0	$(M(\mathcal{S}_2, 12))^3$
neos-5221106-oparau	0.6	54.9	1 unknown
neos-5260764-orauea	inf	100.0	$(\mathcal{S}_{10})^{64}, (\mathcal{S}_{20})^2, (M(\mathcal{S}_5, 6130))^2$
neos-5261882-treska	260.0	10.3	$(\mathcal{S}_{10})^6, (\mathcal{S}_{20})^{12}$
neos-5266653-tugela	inf	100.0	$(\mathcal{S}_{18})^{64}, (\mathcal{S}_{36})^2, (M(\mathcal{S}_3, 11043))^2$
neos-555001	98.6	99.7	$\mathcal{S}_2, M(\mathcal{S}_{12}, 24), M(\mathcal{S}_{12}, 360), M(\mathcal{S}_{12}, 3228), M(\mathcal{S}_{12} \wr \mathcal{S}_3, 108), 1 \text{ unknown}$
neos-555343	90.9	99.6	$M(\mathcal{S}_{10}, 20), M(\mathcal{S}_{10}, 300), M(\mathcal{S}_{10}, 3290), M(\mathcal{S}_{20}, 40), M(\mathcal{S}_{30}, 60), M(\mathcal{S}_{10} \wr \mathcal{S}_3, 90)$
neos-555424	146.3	99.9	$M(\mathcal{S}_{10}, 20), (M(\mathcal{S}_{10}, 300))^2, M(\mathcal{S}_{20}, 40), M(\mathcal{S}_{30}, 60), M(\mathcal{S}_{10} \wr \mathcal{S}_3, 90), M(\mathcal{S}_{10} \wr \mathcal{S}_3, 90), 1 \text{ unknown}$
neos-555884	146.3	99.9	$M(\mathcal{S}_{10}, 20), (M(\mathcal{S}_{10}, 300))^2, M(\mathcal{S}_{20}, 40), M(\mathcal{S}_{30}, 60), M(\mathcal{S}_{10} \wr \mathcal{S}_3, 90), M(\mathcal{S}_{10} \wr \mathcal{S}_3, 90), 1 \text{ unknown}$
neos-565672	51.3	16.3	$\mathcal{S}_2, (M(\mathcal{S}_2, 218))^{138}, 1 \text{ unknown}$
neos-574665	0.8	0.4	\mathcal{S}_3
neos-578379	0.6	9.5	$(M(\mathcal{S}_2, 810))^2$
neos-585192	0.3	100.0	$M(\mathcal{S}_2, 2596)$
neos-585467	0.3	100.0	$M(\mathcal{S}_2, 2116)$
neos-619167	0.3	99.8	$M(\mathcal{S}_2, 3444)$
neos-631517	55.8	6.5	$\mathcal{S}_3, \mathcal{S}_{44}, (M(\mathcal{S}_2, 12))^2$
neos-631710	inf	99.7	$M(\mathcal{S}_{11}, 6094), M(\mathcal{S}_{15}, 8325), M(\mathcal{S}_{15}, 8340), M(\mathcal{S}_{16}, 8864), M(\mathcal{S}_{18}, 9990), M(\mathcal{S}_{19}, 10564), M(\mathcal{S}_{24}, 13344), M(\mathcal{S}_{28}, 15540), M(\mathcal{S}_{33}, 18282), M(\mathcal{S}_{39}, 21645), M(\mathcal{S}_{40}, 22160), M(\mathcal{S}_{42}, 23352)$
neos-691058	3.0	53.9	$(M(\mathcal{S}_2, 36))^9, M(\mathcal{S}_2, 1296)$
neos-738098	21.0	93.5	1 unknown
neos-780889	inf	100.0	$M(\mathcal{S}_{70}, 28420), M(\mathcal{S}_{70}, 35980), M(\mathcal{S}_{70}, 37100), M(\mathcal{S}_{70}, 38920), M(\mathcal{S}_{70}, 42280)$
neos-807639	1.0	100.0	1 unknown
neos-824661	inf	100.0	1 unknown
neos-826224	inf	100.0	1 unknown
neos-826650	inf	98.6	2 unknown
neos-827015	24.7	96.7	$M(\mathcal{S}_2, 70), M(\mathcal{S}_2, 206), (M(\mathcal{S}_2, 298))^2, M(\mathcal{S}_2, 644), (M(\mathcal{S}_2, 646))^2, (M(\mathcal{S}_2, 648))^2, M(\mathcal{S}_2, 692), M(\mathcal{S}_2, 750), M(\mathcal{S}_2, 752), M(\mathcal{S}_2, 796), M(\mathcal{S}_2, 802), M(\mathcal{S}_2, 804), (M(\mathcal{S}_2, 858))^2, M(\mathcal{S}_2, 860), (M(\mathcal{S}_2, 862))^5, (M(\mathcal{S}_2, 864))^2, (M(\mathcal{S}_2, 866))^2, M(\mathcal{S}_2, 870), M(\mathcal{S}_2, 912), (M(\mathcal{S}_2, 918))^2, M(\mathcal{S}_2, 922), M(\mathcal{S}_2, 924), (M(\mathcal{S}_2, 926))^2, M(\mathcal{S}_2, 980), (M(\mathcal{S}_2, 982))^3, (M(\mathcal{S}_2, 984))^3, M(\mathcal{S}_2, 988), M(\mathcal{S}_2, 990), M(\mathcal{S}_2, 992), M(\mathcal{S}_2, 1028), M(\mathcal{S}_2, 1036), M(\mathcal{S}_2, 1042), (M(\mathcal{S}_2, 1046))^4, (M(\mathcal{S}_2, 1048))^3, (M(\mathcal{S}_2, 1050))^3, (M(\mathcal{S}_2, 1052))^3, M(\mathcal{S}_2, 1054), M(\mathcal{S}_2, 1104), M(\mathcal{S}_2, 1108), (M(\mathcal{S}_2, 1110))^2, (M(\mathcal{S}_2, 1114))^3, (M(\mathcal{S}_2, 1116))^2, (M(\mathcal{S}_2, 1118))^2, M(\mathcal{S}_2, 1120), M(\mathcal{S}_2, 1122), M(\mathcal{S}_2, 1176), (M(\mathcal{S}_2, 1178))^2, M(\mathcal{S}_2, 1180), M(\mathcal{S}_2, 1182), M(\mathcal{S}_2, 1184), M(\mathcal{S}_2, 1186)$

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name	$\log_{10} G $	#vars	factors
neos-827175	205.9	99.5	1 unknown
neos-831188	0.3	99.7	$M(\mathcal{S}_2, 4596)$
neos-848589	18.4	11.3	1 unknown
neos-859770	inf	98.9	$(\mathcal{S}_2)^{11}, \mathcal{S}_6, \mathcal{S}_{12}, \mathcal{S}_{20}, \mathcal{S}_{25}, \mathcal{S}_{32}$, 1 unknown
neos-872648	221.6	7.3	$(M(\mathcal{S}_2, 4))^2, (M(\mathcal{S}_2, 8))^{42}, (M(\mathcal{S}_2, 12))^2, (M(\mathcal{S}_2, 16))^6, (M(\mathcal{S}_2, 20))^4, (M(\mathcal{S}_2, 24))^2, M(\mathcal{S}_2, 28), (M(\mathcal{S}_2, 36))^2, M(\mathcal{S}_2, 40), (M(\mathcal{S}_2, 44))^4, M(\mathcal{S}_2, 52), (M(\mathcal{S}_2, 60))^2, (M(\mathcal{S}_2, 68))^2, M(\mathcal{S}_2, 72), (M(\mathcal{S}_2, 76))^2, M(\mathcal{S}_2, 80), M(\mathcal{S}_2, 84), M(\mathcal{S}_2, 100), (M(\mathcal{S}_2, 108))^2, M(\mathcal{S}_2, 112), M(\mathcal{S}_2, 124), M(\mathcal{S}_2, 132), M(\mathcal{S}_2, 148), (M(\mathcal{S}_2, 180))^2, M(\mathcal{S}_2, 244), M(\mathcal{S}_2, 252), M(\mathcal{S}_2, 340), (M(\mathcal{S}_3, 12))^{11}, (M(\mathcal{S}_3, 24))^4, M(\mathcal{S}_3, 36), M(\mathcal{S}_3, 84), (M(\mathcal{S}_4, 16))^7, M(\mathcal{S}_4, 64), M(\mathcal{S}_4, 240), (M(\mathcal{S}_5, 20))^5, M(\mathcal{S}_5, 40), M(\mathcal{S}_5, 80), M(\mathcal{S}_6, 24), (M(\mathcal{S}_7, 28))^3, M(\mathcal{S}_9, 36), M(\mathcal{S}_{10}, 40), (M(\mathcal{S}_{12}, 48))^2, M(\mathcal{S}_{13}, 52), (M(\mathcal{S}_{14}, 56))^2, M(\mathcal{S}_{15}, 60), M(\mathcal{S}_{34}, 136), M(\mathcal{S}_2 \wr \mathcal{S}_2, 8), M(\mathcal{S}_2 \wr \mathcal{S}_{13}, 52)$, 8 unknown
neos-873061	221.6	7.2	$(M(\mathcal{S}_2, 4))^2, (M(\mathcal{S}_2, 8))^{42}, (M(\mathcal{S}_2, 12))^2, (M(\mathcal{S}_2, 16))^6, (M(\mathcal{S}_2, 20))^4, (M(\mathcal{S}_2, 24))^2, M(\mathcal{S}_2, 28), (M(\mathcal{S}_2, 36))^2, M(\mathcal{S}_2, 40), (M(\mathcal{S}_2, 44))^4, M(\mathcal{S}_2, 52), (M(\mathcal{S}_2, 60))^2, (M(\mathcal{S}_2, 68))^2, M(\mathcal{S}_2, 72), (M(\mathcal{S}_2, 76))^2, M(\mathcal{S}_2, 80), M(\mathcal{S}_2, 84), M(\mathcal{S}_2, 100), (M(\mathcal{S}_2, 108))^2, M(\mathcal{S}_2, 112), M(\mathcal{S}_2, 124), M(\mathcal{S}_2, 132), M(\mathcal{S}_2, 148), (M(\mathcal{S}_2, 180))^2, M(\mathcal{S}_2, 244), M(\mathcal{S}_2, 252), M(\mathcal{S}_2, 340), (M(\mathcal{S}_3, 12))^{11}, (M(\mathcal{S}_3, 24))^4, M(\mathcal{S}_3, 36), M(\mathcal{S}_3, 84), (M(\mathcal{S}_4, 16))^7, M(\mathcal{S}_4, 64), M(\mathcal{S}_4, 240), (M(\mathcal{S}_5, 20))^5, M(\mathcal{S}_5, 40), M(\mathcal{S}_5, 80), M(\mathcal{S}_6, 24), (M(\mathcal{S}_7, 28))^3, M(\mathcal{S}_9, 36), M(\mathcal{S}_{10}, 40), (M(\mathcal{S}_{12}, 48))^2, M(\mathcal{S}_{13}, 52), (M(\mathcal{S}_{14}, 56))^2, M(\mathcal{S}_{15}, 60), M(\mathcal{S}_{34}, 136), M(\mathcal{S}_2 \wr \mathcal{S}_2, 8), M(\mathcal{S}_2 \wr \mathcal{S}_{13}, 52)$, 8 unknown
neos-885086	56.1	100.0	$M(\mathcal{S}_{45}, 4860)$
neos-911970	7.5	100.0	$(M(\mathcal{S}_3, 111))^6, M(\mathcal{S}_6, 222)$
neos-913984	inf	100.0	1 unknown
neos-932721	inf	99.3	$\mathcal{S}_{293}, M(\mathcal{S}_5, 21825)$
neos-933562	13.8	100.0	1 unknown
neos-933638	inf	93.9	$\mathcal{S}_{42}, \mathcal{S}_{495}$, 3 unknown
neos-933966	inf	95.7	$\mathcal{S}_{42}, \mathcal{S}_{495}, M(\mathcal{S}_2, 1218), M(\mathcal{S}_3, 1827)$, 3 unknown
neos-935234	inf	84.1	$(\mathcal{S}_2)^4, \mathcal{S}_{2022}, M(\mathcal{S}_2, 236), M(\mathcal{S}_2, 262), M(\mathcal{S}_2, 270)$, 5 unknown
neos-935769	inf	80.9	$\mathcal{S}_{2022}, M(\mathcal{S}_3, 354), M(\mathcal{S}_3, 360), M(\mathcal{S}_3, 387), M(\mathcal{S}_3, 405)$, 5 unknown
neos-948346	inf	100.0	$(\mathcal{S}_2)^2$, 1 unknown
neos-950242	23.8	100.0	1 unknown
neos-952987	16.4	0.3	$(\mathcal{S}_2)^{36}, \mathcal{S}_9$
neos-953928	164.8	100.0	$\mathcal{S}_2, \mathcal{S}_3$, 1 unknown
neos-954925	inf	100.0	\mathcal{S}_2 , 1 unknown
neos-956971	inf	100.0	\mathcal{S}_2 , 1 unknown
neos-957143	inf	100.0	\mathcal{S}_2 , 1 unknown

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name	$\log_{10} G $	#vars	factors
neos-957323	294.1	99.2	$M(\mathcal{S}_4, 684), M(\mathcal{S}_5, 1285), M(\mathcal{S}_8, 1368), M(\mathcal{S}_{22}, 6028), M(\mathcal{S}_{24}, 6168), M(\mathcal{S}_{40}, 10960), M(\mathcal{S}_{42}, 7182), M(\mathcal{S}_{92}, 23644)$
neos-960392	inf	100.0	$\mathcal{S}_2, \mathcal{S}_3, 1 \text{ unknown}$
neos-983171	inf	76.9	$(\mathcal{S}_2)^{11}, \mathcal{S}_{1530}, M(\mathcal{S}_2, 190), M(\mathcal{S}_2, 208), M(\mathcal{S}_2, 224), M(\mathcal{S}_2, 244), (M(\mathcal{S}_2, 266))^2, M(\mathcal{S}_2, 272), M(\mathcal{S}_2, 292), 4 \text{ unknown}$
neos18	247.9	36.1	$(\mathcal{S}_2)^6, (\mathcal{S}_3)^2, (\mathcal{S}_4)^2, (M(\mathcal{S}_2, 4))^{28}, (M(\mathcal{S}_2, 8))^3, (M(\mathcal{S}_3, 6))^2, (M(\mathcal{S}_3, 12))^3, (M(\mathcal{S}_4, 8))^{19}, (M(\mathcal{S}_4, 16))^3, M(\mathcal{S}_6, 12), M(\mathcal{S}_8, 16), (\mathcal{S}_2 \wr \mathcal{S}_2)^2, (\mathcal{S}_2 \wr \mathcal{S}_9)^4, (\mathcal{S}_2 \wr \mathcal{S}_{11})^2, M(\mathcal{S}_2 \wr \mathcal{S}_{10}, 40), M(\mathcal{S}_2 \wr \mathcal{S}_6, 24), M(\mathcal{S}_2 \wr \mathcal{S}_7, 28), M(\mathcal{S}_2 \wr \mathcal{S}_6, 24), M(\mathcal{S}_2 \wr \mathcal{S}_6, 36), M(\mathcal{S}_2 \wr \mathcal{S}_9, 36), M(\mathcal{S}_2 \wr \mathcal{S}_{11}, 44), M(\mathcal{S}_2 \wr \mathcal{S}_8, 32), M(\mathcal{S}_2 \wr \mathcal{S}_7, 28), M(\mathcal{S}_2 \wr \mathcal{S}_{10}, 40), M(\mathcal{S}_2 \wr \mathcal{S}_3, 12), M(\mathcal{S}_2 \wr \mathcal{S}_{10}, 40), M(\mathcal{S}_2 \wr \mathcal{S}_{13}, 52), M(\mathcal{S}_2 \wr \mathcal{S}_2, 8), M(\mathcal{S}_2 \wr \mathcal{S}_2, 8), M(\mathcal{S}_2 \wr \mathcal{S}_5, 20), M(\mathcal{S}_2 \wr \mathcal{S}_3, 12), M(\mathcal{S}_2 \wr \mathcal{S}_3, 12), M(\mathcal{S}_2 \wr \mathcal{S}_9, 36), M(\mathcal{S}_2 \wr \mathcal{S}_2, 8), M(\mathcal{S}_2 \wr \mathcal{S}_2, 8), M(\mathcal{S}_2 \wr \mathcal{S}_2, 8)$
neos22	14.4	96.3	$M(\mathcal{S}_3, 360), M(\mathcal{S}_5, 600), M(\mathcal{S}_6, 720), M(\mathcal{S}_{12}, 1440)$
neos4	22.4	3.6	$M(\mathcal{S}_{23}, 828)$
neos5	0.6	76.2	$M(\mathcal{S}_2 \times \mathcal{S}_2, 48)$
neos6	6.6	94.9	$M(\mathcal{S}_{10}, 8340)$
neos8	inf	10.9	$(\mathcal{S}_2)^{1192}, (\mathcal{S}_3)^{52}$
nj1	8.7	100.0	$M(\mathcal{S}_{12}, 78084)$
nj2	8.7	100.0	$M(\mathcal{S}_{12}, 85224)$
no-ip-64999	5.9	100.0	1 unknown
no-ip-65059	5.9	100.0	1 unknown
noswot	0.3	40.6	$M(\mathcal{S}_2, 52)$
npmv07	inf	1.4	$(\mathcal{S}_2)^{532}, (\mathcal{S}_3)^{56}, (\mathcal{S}_4)^{56}, (\mathcal{S}_5)^{56}, (M(\mathcal{S}_4, 24))^{56}$
ns1116954	inf	99.9	2 unknown
ns1208400	2.8	97.8	1 unknown
ns1430538	12.1	100.0	$M(\mathcal{S}_{15}, 33600)$
ns1456591	36.8	99.8	$\mathcal{S}_{20}, M(\mathcal{S}_{20}, 8360)$
ns1631475	31.6	0.9	$(\mathcal{S}_2)^{105}$
ns1690781	0.6	0.1	$(\mathcal{S}_2)^2$
ns1760995	0.3	3.0	$M(\mathcal{S}_2, 540)$
ns1830653	15.8	1.1	\mathcal{S}_{18}
ns1849932	40.1	57.2	1 unknown
ns1856153	0.3	92.5	$M(\mathcal{S}_2, 11102)$
ns1905797	1.4	100.0	$M(\mathcal{S}_4, 18192)$
ns1952667	69.7	3.4	$(\mathcal{S}_2)^{222}, \mathcal{S}_3, \mathcal{S}_5$
ns2034125	0.8	0.0	\mathcal{S}_3
nsr8k	100.5	1.2	$(\mathcal{S}_2)^{198}, (\mathcal{S}_3)^7, \mathcal{S}_{32}$
nsrand-ipx	277.1	25.3	$(\mathcal{S}_2)^{724}, (\mathcal{S}_3)^{76}$
nucorsav	inf	10.6	$\mathcal{S}_8, (\mathcal{S}_{10})^2, \mathcal{S}_{28}, \mathcal{S}_{30}, \mathcal{S}_{48}, \mathcal{S}_{56}, \mathcal{S}_{64}, (\mathcal{S}_{80})^2, \mathcal{S}_{128}, \mathcal{S}_{152}, \mathcal{S}_{174}, \mathcal{S}_{272}, \mathcal{S}_{360}, 1 \text{ unknown}$

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name	$\log_{10} G $	#vars	factors
nursesched-medium-hint03	inf	0.8	$\mathcal{S}_{18}, (\mathcal{S}_{30})^4, (\mathcal{S}_{60})^2$
nursesched-medium04	33.9	0.1	\mathcal{S}_{31}
nursesched-sprint-hidden09	125.4	0.8	$\mathcal{S}_{10}, \mathcal{S}_{80}$
nursesched-sprint-late03	125.4	0.8	$\mathcal{S}_{10}, \mathcal{S}_{80}$
nursesched-sprint02	39.3	0.6	$\mathcal{S}_{10}, \mathcal{S}_{30}, M(\mathcal{S}_2, 20)$
nw04	inf	10.1	$(\mathcal{S}_2)^{4169}, (\mathcal{S}_3)^{140}, (\mathcal{S}_4)^{16}, (\mathcal{S}_5)^2$
ofi	—	—	—
ofi2	—	—	—
oocsp-racks030e6cci	—	—	—
oocsp-racks030f7cci	—	—	—
opt1217	0.3	0.3	\mathcal{S}_2
p0201	0.6	96.5	1 unknown
p2m2p1m1p0n100	32.1	92.0	$(\mathcal{S}_2)^6, (\mathcal{S}_3)^8, (\mathcal{S}_4)^4, (\mathcal{S}_5)^3, (\mathcal{S}_6)^3, \mathcal{S}_7$
pb-fit2d	57.4	2.8	$(M(\mathcal{S}_2, 20))^{19}, (M(\mathcal{S}_2, 22))^{70}, (M(\mathcal{S}_2, 28))^{11}, (M(\mathcal{S}_3, 30))^4, (M(\mathcal{S}_3, 33))^{13}, (M(\mathcal{S}_3, 42))^3, M(\mathcal{S}_4, 40), (M(\mathcal{S}_4, 44))^5, M(\mathcal{S}_4, 56), M(\mathcal{S}_5, 50)$
pb-gfrd-pnc	inf	38.7	$(\mathcal{S}_8)^2, (\mathcal{S}_{11})^{16}, (\mathcal{S}_{12})^{198}, (\mathcal{S}_{13})^{468}, (\mathcal{S}_{14})^{152}$
pb-grow22	inf	32.5	$(\mathcal{S}_4)^{22}, (\mathcal{S}_5)^{44}, (\mathcal{S}_6)^{110}, (\mathcal{S}_7)^{198}, (\mathcal{S}_8)^{154}, (\mathcal{S}_9)^{88}, (\mathcal{S}_{10})^{88}, (\mathcal{S}_{11})^{88}, (\mathcal{S}_{12})^{67}, (\mathcal{S}_{13})^{87}$
physiciansched5-3	inf	3.5	$(\mathcal{S}_2)^{32}, (\mathcal{S}_3)^{17}, \mathcal{S}_{138}, \mathcal{S}_{211}, 1 \text{ unknown}$
pigeon-08	87.7	90.7	$\mathcal{S}_{24}, \mathcal{S}_{48}, 1 \text{ unknown}$
pigeon-10	118.9	93.5	$\mathcal{S}_{30}, \mathcal{S}_{60}, 1 \text{ unknown}$
pigeon-13	169.0	95.8	$\mathcal{S}_{39}, \mathcal{S}_{78}, 1 \text{ unknown}$
pigeon-16	222.0	97.0	$\mathcal{S}_{48}, \mathcal{S}_{96}, 1 \text{ unknown}$
pigeon-20	296.6	98.0	$\mathcal{S}_{60}, \mathcal{S}_{120}, 1 \text{ unknown}$
piperout-03	2.4	0.1	$\mathcal{S}_2, \mathcal{S}_5$
piperout-08	3.7	0.1	\mathcal{S}_7
piperout-27	4.1	0.1	$(\mathcal{S}_2)^4, \mathcal{S}_3, \mathcal{S}_5$
piperout-d20	5.8	0.1	$(\mathcal{S}_2)^2, \mathcal{S}_4, \mathcal{S}_6$
piperout-d27	4.5	0.1	$(\mathcal{S}_3)^4, \mathcal{S}_4$
pizza27i	—	—	—
pizza78i	—	—	—
ponderthis0517-inf	0.3	98.7	$M(\mathcal{S}_2, 962)$
pw-myciel4	1.0	86.9	1 unknown
qiu	1.7	100.0	1 unknown
queens-30	0.9	100.0	1 unknown
rail507	256.4	2.6	$(\mathcal{S}_2)^{788}, (\mathcal{S}_3)^{21}, \mathcal{S}_6$
ramos3	9.1	100.0	1 unknown
rentacar	inf	18.9	$(\mathcal{S}_2)^{255}, (\mathcal{S}_3)^{19}, \mathcal{S}_4, \mathcal{S}_8, \mathcal{S}_{1232}$
rlp1	224.6	97.6	$\mathcal{S}_{45}, M(\mathcal{S}_{45}, 315), 1 \text{ unknown}$
rococoB10-011000	56.1	1.0	\mathcal{S}_{45}
rococoC10-001000	62.8	4.1	$(\mathcal{S}_2)^{44}, \mathcal{S}_{41}$
rococoC11-010100	73.1	0.4	\mathcal{S}_{55}
rococoC11-011100	73.1	0.8	\mathcal{S}_{55}
rococoC12-010001	inf	8.4	$(\mathcal{S}_5)^{68}, (\mathcal{S}_6)^{124}, (\mathcal{S}_9)^{28}, \mathcal{S}_{62}$

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name	$\log_{10} G $	#vars	factors
roi2alpha3n4	0.3	97.4	$M(\mathcal{S}_2, 6642)$
roi5alpha10n8	0.3	99.8	$M(\mathcal{S}_2, 105950)$
rout	2.1	99.8	$M(\mathcal{S}_5, 555)$
rpp22falsei	—	—	—
rvb-sub	31.0	0.6	$(\mathcal{S}_2)^{103}$
s100	151.1	11.1	$\mathcal{S}_2, \mathcal{S}_4, \mathcal{S}_{28}, \mathcal{S}_{80}, M(\mathcal{S}_2, 40486), M(\mathcal{S}_3, 12)$
s250r10	53.7	2.1	$\mathcal{S}_5, \mathcal{S}_{12}, \mathcal{S}_{36}, 1 \text{ unknown}$
s55	28.3	0.1	$\mathcal{S}_4, (\mathcal{S}_16)^2, M(\mathcal{S}_2, 8)$
satellites2-25	180.6	3.4	$(\mathcal{S}_2)^{600}$
satellites2-40	180.6	3.4	$(\mathcal{S}_2)^{600}$
satellites2-60-fs	inf	5.1	$(\mathcal{S}_2)^6, 125 \text{ unknown}$
satellites3-25	inf	2.8	$(\mathcal{S}_2)^{1131}$
satellites4-25	inf	2.7	$(\mathcal{S}_2)^{1271}$
sct1	inf	64.1	$(\mathcal{S}_2)^4, (\mathcal{S}_3)^{211}, (\mathcal{S}_4)^{594}, (\mathcal{S}_5)^{17}, (\mathcal{S}_6)^{121}, (\mathcal{S}_7)^5, \mathcal{S}_{471}, (M(\mathcal{S}_2, 4))^{327}, (M(\mathcal{S}_4, 8))^{23}, 9 \text{ unknown}$
sct2	inf	74.0	$(\mathcal{S}_3)^{31}, (\mathcal{S}_4)^{148}, (\mathcal{S}_5)^6, (\mathcal{S}_6)^{20}, (\mathcal{S}_7)^2, (M(\mathcal{S}_2, 4))^{51}, (M(\mathcal{S}_4, 8))^8, 3 \text{ unknown}$
sct31	inf	55.1	$(\mathcal{S}_2)^{36}, (\mathcal{S}_3)^{52}, (\mathcal{S}_4)^{25}, (\mathcal{S}_5)^{12}, (M(\mathcal{S}_2, 4))^{76}, (M(\mathcal{S}_3, 6))^{13}, (M(\mathcal{S}_4, 8))^{35}, (M(\mathcal{S}_5, 10))^{3}, 19 \text{ unknown}$
sct32	inf	49.1	$(\mathcal{S}_2)^{150}, (\mathcal{S}_3)^{15}, \mathcal{S}_4, (M(\mathcal{S}_2, 34))^{11}, (M(\mathcal{S}_3, 6))^{106}, (M(\mathcal{S}_3, 51))^{4}, (M(\mathcal{S}_4, 8))^{8}, (M(\mathcal{S}_4, 68))^{4}, M(\mathcal{S}_5, 10), (M(\mathcal{S}_5, 85))^{3}, (M(\mathcal{S}_6, 12))^{13}, (M(\mathcal{S}_6, 102))^{2}, (M(\mathcal{S}_7, 14))^{3}, M(\mathcal{S}_7, 119), M(\mathcal{S}_{24}, 408), 27 \text{ unknown}$
sct5	inf	76.5	$(\mathcal{S}_2)^{314}, \mathcal{S}_4, (\mathcal{S}_5)^{65}, (\mathcal{S}_6)^{64}, (\mathcal{S}_7)^9, (\mathcal{S}_8)^6, (\mathcal{S}_9)^{10}, (\mathcal{S}_{10})^{13}, (M(\mathcal{S}_2, 4))^{4}, (M(\mathcal{S}_3, 6))^{3}, (M(\mathcal{S}_4, 8))^{161}, (M(\mathcal{S}_5, 10))^{7}, (M(\mathcal{S}_6, 12))^{3}, (M(\mathcal{S}_7, 14))^{3}, (M(\mathcal{S}_8, 16))^{5}, (M(\mathcal{S}_9, 18))^{3}, 10 \text{ unknown}$
seqsolve1	28.8	26.5	$(M(\mathcal{S}_2, 42))^2, M(\mathcal{S}_2, 76), M(\mathcal{S}_2, 160), M(\mathcal{S}_2, 168), M(\mathcal{S}_2, 186), M(\mathcal{S}_2, 218), M(\mathcal{S}_2, 256), M(\mathcal{S}_2, 284), M(\mathcal{S}_2, 564), (M(\mathcal{S}_2, 688))^{4}, (M(\mathcal{S}_2, 976))^{3}, (M(\mathcal{S}_3, 63))^{2}, M(\mathcal{S}_3, 138), M(\mathcal{S}_4, 84), M(\mathcal{S}_4, 460), M(\mathcal{S}_4, 1376), M(\mathcal{S}_9, 522), 1 \text{ unknown}$
seqsolve2short4288	28.8	26.5	$(M(\mathcal{S}_2, 42))^2, M(\mathcal{S}_2, 76), M(\mathcal{S}_2, 160), M(\mathcal{S}_2, 168), M(\mathcal{S}_2, 186), M(\mathcal{S}_2, 218), M(\mathcal{S}_2, 256), M(\mathcal{S}_2, 284), M(\mathcal{S}_2, 564), (M(\mathcal{S}_2, 688))^{4}, (M(\mathcal{S}_2, 976))^{3}, (M(\mathcal{S}_3, 63))^{2}, M(\mathcal{S}_3, 138), M(\mathcal{S}_4, 84), M(\mathcal{S}_4, 460), M(\mathcal{S}_4, 1376), M(\mathcal{S}_9, 522), 1 \text{ unknown}$
seymour	234.4	19.9	$(\mathcal{S}_2)^{43}, (\mathcal{S}_3)^4, (\mathcal{S}_4)^3, \mathcal{S}_6, \mathcal{S}_{117}, M(\mathcal{S}_2, 4), \mathcal{S}_2 \wr \mathcal{S}_{15}, \mathcal{S}_3 \wr \mathcal{S}_2$
seymour1	203.2	19.9	$(\mathcal{S}_2)^{43}, (\mathcal{S}_3)^6, (\mathcal{S}_4)^3, \mathcal{S}_6, \mathcal{S}_{38}, \mathcal{S}_{79}, M(\mathcal{S}_2, 4), \mathcal{S}_2 \wr \mathcal{S}_{15}$
shiftreg1-4	8.7	99.3	$M(\mathcal{S}_{12}, 9936)$
shiftreg2-7	8.7	99.0	$M(\mathcal{S}_{12}, 11292)$
shiftreg5-1	23.8	99.4	$M(\mathcal{S}_{24}, 48432)$
shipsched	0.3	0.5	$M(\mathcal{S}_2, 70)$
shipschedule3shipsi	—	—	—
shipschedule6shipsmixi	—	—	—
shipschedule8shipsmixuci	—	—	—

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name	$\log_{10} G $	#vars	factors
shs1014	1.4	14.7	1 unknown
shs1023	0.3	13.5	$M(\mathcal{S}_2, 60198)$
shs1042	0.6	24.6	1 unknown
siena1	146.4	4.7	$(\mathcal{S}_2)^{271}, (\mathcal{S}_3)^{14}, (\mathcal{S}_5)^2, \mathcal{S}_7, \mathcal{S}_{11}, \mathcal{S}_{34}$
sing11	0.3	7.2	$M(\mathcal{S}_2, 12554)$
sing17	0.3	5.7	$M(\mathcal{S}_2, 25994)$
sing326	0.6	14.3	$M(\mathcal{S}_2, 3534), M(\mathcal{S}_2, 4332)$
sing44	0.6	13.2	$M(\mathcal{S}_2, 3534), M(\mathcal{S}_2, 4332)$
sing5	0.3	8.1	$M(\mathcal{S}_2, 12554)$
snip10x10-35r1budget17	17.1	0.0	\mathcal{S}_{19}
sorrell3	0.6	100.0	1 unknown
sorrell4	0.6	100.0	1 unknown
sorrell7	7.9	100.0	1 unknown
sorrell8	4.5	100.0	5 unknown
sp150x300d	17.6	40.7	$(M(\mathcal{S}_2, 4))^{33}, (M(\mathcal{S}_2, 8))^7, (M(\mathcal{S}_3, 6))^6, 1 \text{ unknown}$
splice1k1i	—	—	—
square23	0.3	95.5	$M(\mathcal{S}_2, 11132)$
square31	0.3	96.7	$M(\mathcal{S}_2, 27900)$
square37	0.3	97.2	$M(\mathcal{S}_2, 47952)$
square41	0.3	97.5	$M(\mathcal{S}_2, 60680)$
square47	0.3	97.8	$M(\mathcal{S}_2, 92966)$
stein15inf	1.8	100.0	1 unknown
stein9inf	2.6	100.0	1 unknown
stoch-vrpvrp-s5v2c8vrp-v2c8i	—	—	—
stp3d	178.8	1.6	$(M(\mathcal{S}_2, 4))^{382}, (M(\mathcal{S}_2, 6))^{72}, (M(\mathcal{S}_2, 8))^{116}, (M(\mathcal{S}_2, 12))^2$
supportcase10	241.1	0.9	\mathcal{S}_{140}
supportcase14	3.7	2.3	\mathcal{S}_7
supportcase16	3.7	2.2	\mathcal{S}_7
supportcase18	12.1	83.5	$M(\mathcal{S}_9, 9990), M(\mathcal{S}_{10}, 1210)$
supportcase21i	—	—	—
supportcase25	inf	43.6	$(\mathcal{S}_2)^{72}, (\mathcal{S}_{11})^{72}, (\mathcal{S}_{12})^{72}, (M(\mathcal{S}_2, 8))^{72}, M(\mathcal{S}_2, 576)$
supportcase27i	—	—	—
supportcase28i	—	—	—
supportcase29	inf	100.0	1 unknown
supportcase30	8.3	100.0	1 unknown
supportcase35	0.3	17.8	$M(\mathcal{S}_2, 2300)$
supportcase37	inf	30.8	$(\mathcal{S}_2)^8, (\mathcal{S}_3)^2, (\mathcal{S}_6)^2, \mathcal{S}_7, (\mathcal{S}_{11})^2, \mathcal{S}_{12}, \mathcal{S}_{20}, \mathcal{S}_{53}, \mathcal{S}_{319}, \mathcal{S}_{573}, (M(\mathcal{S}_2, 4))^{662}, (M(\mathcal{S}_2, 6))^{32}, M(\mathcal{S}_2, 8), (M(\mathcal{S}_2, 26))^2, M(\mathcal{S}_2, 30), (M(\mathcal{S}_3, 6))^{114}, (M(\mathcal{S}_3, 9))^3, (M(\mathcal{S}_3, 15))^2, (M(\mathcal{S}_4, 8))^{49}, (M(\mathcal{S}_5, 10))^{27}, M(\mathcal{S}_5, 15), (M(\mathcal{S}_6, 12))^{15}, (M(\mathcal{S}_7, 14))^9, (M(\mathcal{S}_8, 16))^3, (M(\mathcal{S}_9, 18))^4, M(\mathcal{S}_9, 99), M(\mathcal{S}_{10}, 20), M(\mathcal{S}_{11}, 22), (M(\mathcal{S}_{12}, 24))^4, (M(\mathcal{S}_{19}, 38))^2, M(\mathcal{S}_{21}, 42)$

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name	$\log_{10} G $	#vars	factors
supportcase38	—	—	—
supportcase41	47.9	0.8	\mathcal{S}_{40}
supportcase43	3.5	27.7	$M(\mathcal{S}_2, 5052)$, 4 unknown
swath	inf	7.1	$(\mathcal{S}_4)^{20}, \mathcal{S}_{83}, \mathcal{S}_{320}$
swath1	inf	7.1	$(\mathcal{S}_4)^{20}, \mathcal{S}_{28}, \mathcal{S}_{55}, \mathcal{S}_{108}, \mathcal{S}_{212}$
swath2	inf	7.1	$(\mathcal{S}_4)^{20}, \mathcal{S}_{29}, \mathcal{S}_{54}, \mathcal{S}_{112}, \mathcal{S}_{208}$
swath3	inf	7.1	$(\mathcal{S}_4)^{20}, \mathcal{S}_{33}, \mathcal{S}_{50}, \mathcal{S}_{128}, \mathcal{S}_{192}$
t11nonreg	—	—	—
ta1-UUM	1.2	14.7	$(M(\mathcal{S}_2, 84))^4$
tanglegram6	inf	97.1	$(\mathcal{S}_2)^{66}, (\mathcal{S}_3)^{32}, (\mathcal{S}_4)^{32}, (\mathcal{S}_5)^{12}, (\mathcal{S}_6)^{15}, (\mathcal{S}_7)^3, (\mathcal{S}_8)^{15}, (\mathcal{S}_9)^5, (\mathcal{S}_{10})^{17}, (\mathcal{S}_{11})^5, (\mathcal{S}_{12})^6, (\mathcal{S}_{14})^5, (\mathcal{S}_{15})^6, (\mathcal{S}_{16})^6, \mathcal{S}_{18}, (\mathcal{S}_{20})^5, \mathcal{S}_{21}, (\mathcal{S}_{22})^3, (\mathcal{S}_{24})^3, (\mathcal{S}_{25})^2, \mathcal{S}_{26}, \mathcal{S}_{27}, (\mathcal{S}_{28})^2, \mathcal{S}_{29}, (\mathcal{S}_{30})^4, \mathcal{S}_{32}, (\mathcal{S}_{33})^4, (\mathcal{S}_{34})^3, \mathcal{S}_{35}, \mathcal{S}_{36}, \mathcal{S}_{37}, \mathcal{S}_{38}, \mathcal{S}_{39}, \mathcal{S}_{40}, \mathcal{S}_{41}, \mathcal{S}_{44}, \mathcal{S}_{45}, (\mathcal{S}_{46})^2, (\mathcal{S}_{48})^2, \mathcal{S}_{49}, (\mathcal{S}_{50})^2, (\mathcal{S}_{56})^2, \mathcal{S}_{60}, \mathcal{S}_{64}, \mathcal{S}_{66}, \mathcal{S}_{67}, \mathcal{S}_{69}, (\mathcal{S}_{72})^2, \mathcal{S}_{74}, (\mathcal{S}_{75})^2, \mathcal{S}_{76}, (\mathcal{S}_{78})^2, (\mathcal{S}_{84})^2, (\mathcal{S}_{87})^2, \mathcal{S}_{92}, \mathcal{S}_{120}, \mathcal{S}_{122}, \mathcal{S}_{136}, \mathcal{S}_{144}, \mathcal{S}_{153}, \mathcal{S}_{168}, \mathcal{S}_{216}, \mathcal{S}_{280}, \mathcal{S}_{288}, \mathcal{S}_{393}, \mathcal{S}_{402}, \mathcal{S}_{758}, \mathcal{S}_{1122}, (M(\mathcal{S}_2, 4))^5, M(\mathcal{S}_3, 6), (M(\mathcal{S}_4, 8))^2, M(\mathcal{S}_2 \wr \mathcal{S}_{12}, 48), 12 unknown$
timtab1	0.3	0.5	\mathcal{S}_2
timtab1CUTS	0.3	0.5	\mathcal{S}_2
tokyometro	18.8	2.6	$(\mathcal{S}_2)^{13}, \mathcal{S}_{14}, (M(\mathcal{S}_2, 6))^{13}$
toll-like	140.1	37.8	$(\mathcal{S}_2)^{230}, (M(\mathcal{S}_2, 4))^{10}, (M(\mathcal{S}_2, 6))^2, (M(\mathcal{S}_2, 8))^2, (M(\mathcal{S}_2, 10))^2, M(\mathcal{S}_2, 12), M(\mathcal{S}_2, 30), M(\mathcal{S}_5, 30), 9 unknown$
traininstance2	5.8	0.1	$\mathcal{S}_5, \mathcal{S}_7$
traininstance6	4.9	0.1	$\mathcal{S}_5, \mathcal{S}_6$
transportmoment	5.5	1.7	$(M(\mathcal{S}_2, 8))^{11}, M(\mathcal{S}_2, 14), M(\mathcal{S}_2, 30), M(\mathcal{S}_3, 15), M(\mathcal{S}_3, 21)$
trento1	24.8	1.7	$(\mathcal{S}_2)^{47}, (\mathcal{S}_3)^{11}, \mathcal{S}_5$
uccase10	54.7	96.8	$(M(\mathcal{S}_4, 3360))^2, M(\mathcal{S}_4, 10016), M(\mathcal{S}_5, 4200), M(\mathcal{S}_5, 7555), M(\mathcal{S}_5, 9220), M(\mathcal{S}_5, 14155), M(\mathcal{S}_6, 5040), (M(\mathcal{S}_{10}, 8400))^6$
uccase12	20.0	83.1	$(M(\mathcal{S}_2, 1680))^3, (M(\mathcal{S}_2, 4350))^2, M(\mathcal{S}_2, 5662), (M(\mathcal{S}_3, 2520))^2, M(\mathcal{S}_3, 6525), M(\mathcal{S}_5, 4200), M(\mathcal{S}_6, 5040), M(\mathcal{S}_{14}, 11760)$
uccase7	0.6	18.3	$M(\mathcal{S}_2, 1344), M(\mathcal{S}_2, 4702)$
uccase9	inf	5.5	$\mathcal{S}_{477}, M(\mathcal{S}_2, 1344)$
uct-subprob	29.1	14.0	$(M(\mathcal{S}_2, 4))^{58}, M(\mathcal{S}_2, 14), (M(\mathcal{S}_3, 6))^8, M(\mathcal{S}_4, 8), M(\mathcal{S}_7, 14)$
unical_7	304.6	52.3	$(\mathcal{S}_2)^{672}, (M(\mathcal{S}_2, 3030))^3, 1 unknown$
van	inf	39.5	\mathcal{S}_{4928}
var-smallemery-m6j6	243.1	2.8	$\mathcal{S}_{140}, (M(\mathcal{S}_2, 4))^2, M(\mathcal{S}_4, 8)$
wachplan	1.9	96.6	1 unknown
xmas10-2	2.4	0.2	$(\mathcal{S}_2)^8$
xmas10	3.2	0.2	$(\mathcal{S}_2)^6, \mathcal{S}_4$
zeil	inf	3.1	$(\mathcal{S}_{10})^2, \mathcal{S}_{181}, \mathcal{S}_{182}, (\mathcal{S}_{899})^2$

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name	$\log_{10} G $	#vars	factors