Otter 3.0.2 on TPTP 1.1.1*

William McCune

Mathematics and Computer Science Division
Argonne National Laboratory
Argonne, Illinois 60439-4844, U.S.A.
e-mail: mccune@mcs.anl.gov
phone: 708-252-3065

August 22, 1993

This report presents the results of Otter 3.0.2 on each of the 2652 problems TPTP 1.1.1. Each run

- was made on SPARC 2 computer (either altair.mcs.anl.gov or donner.mcs.anl.gov);
- had any equality axioms removed with TPTP2X transformation `equality([s,t,f,p])`;
- used the TPTP2X conversion `otter(none,[set(auto),assign(max_seconds,600)])` (autonomous mode, which sets a memory limit of 12 megabytes, and with a time limit of 10 minutes).

In the tables below, for each problem we list either a proof time (in seconds), "time" (time limit), "memory" (memory limit of 12 MB), "sos" (sos list empty), or "term" (limit on depth of terms). (The strategy is incomplete, so "sos empty" does not indicate satisfiability.) Proofs were found in 1224 (46%) of the runs, 1327 were stopped by the time limit, 13 ran out of memory, 85 stopped because the sos list was empty, and 3 stopped because a clause with a very deep term was generated.

Table 1 gives the number of proofs that were found within several other time limits.

Table 1: Proofs Within Various Time Limits

Seconds	Proofs
1	458 (17%)
5	886 (33%)
30	1031 (39%)
60	1087 (41%)
300	1188 (45%)
600	1224 (46%)

*This work was supported by the Office of Scientific Computing, U.S. Department of Energy, under Contract W-31-109-Eng-38.

ALG001-1	time	BOO010-4	0.38	CAT009-3	time	COL003-5	memory
ALG001-2	time	BOO011-1	0.44	CAT009-4	time	COL003-6	memory
ALG001-3	515.44	BOO011-2	sos	CAT010-1	4.73	COL004-1	time
ALG002-1	3.06	BOO011-4	sos	CAT010-4	time	COL004-2	time
ANA001-1	time	BOO012-1	66.81	CAT011-1	0.89	COL004-3	0.24
ANA002-1	time	BOO012-2	0.35	CAT011-2	0.11	COL005-1	time
ANA002-2	time	BOO012-3	506.20	CAT011-3	578.55	COL006-1	time
ANA002-3	time	BOO012-4	0.34	CAT011-4	23.55	COL006-2	time
ANA002-4	time	BOO013-1	26.25	CAT012-1	2.24	COL006-3	time
ANA003-1	time	BOO013-2	0.48	CAT012-3	244.11	COL006-4	time
ANA003-2	time	BOO013-3	27.64	CAT012-4	15.26	COL007-1	0.04
ANA003-3	time	BOO013-4	0.48	CAT013-1	0.73	COL008-1	0.07
ANA003-4	time	BOO014-1	time	CAT013-3	581.42	COL009-1	3.70
ANA004-1	time	BOO014-2	50.20	CAT013-4	19.12	COL010-1	0.12
ANA004-2	time	BOO014-3	time	CAT014-1	1.91	COL011-1	19.74
ANA004-3	time	BOO014-4	40.38	CAT014-2	0.10	COL012-1	0.08
ANA004-4	time	BOO015-1	time	CAT014-3	585.66	COL013-1	0.07
ANA004-5	time	BOO015-2	9.92	CAT014-4	19.23	COL014-1	0.05
ANA005-1	time	BOO015-4	13.54	CAT015-3	sos	COL015-1	0.10
ANA005-2	time	BOO016-1	12.87	CAT015-4	sos	COL016-1	0.07
ANA005-3	time	BOO016-2	2.23	CAT016-3	0.25	COL017-1	0.14
ANA005-4	time	BOO017-1	36.22	CAT016-4	0.13	COL018-1	0.06
ANA005-5	time	BOO017-2	4.58	CAT017-3	0.20	COL019-1	0.34
BOO001-1	1.15	BOO018-4	time	CAT017-4	0.39	COL020-1	0.34
BOO002-1	43.51	CAT001-1	13.59	CAT018-1	4.04	COL021-1	0.11
BOO002-2	45.99	CAT001-2	time	CAT018-3	time	COL022-1	0.13
BOO003-1	16.28	CAT001-3	3.60	CAT018-4	time	COL023-1	1.13
BOO003-2	0.25	CAT001-4	time	CAT019-1	0.17	COL024-1	0.12
BOO003-4	0.17	CAT002-1	28.74	CAT019-2	0.09	COL025-1	0.09
BOO004-1	2.71	CAT002-2	time	CAT019-3	26.53	COL026-1	1.87
BOO004-2	1.66	CAT002-3	560.29	CAT019-4	time	COL027-1	2.49
BOO004-4	0.36	CAT002-4	49.32	CAT019-5	time	COL028-1	1.14
BOO005-1	10.07	CAT003-1	11.49	CAT019-6	time	COL029-1	0.04
BOO005-2	sos	CAT003-2	time	CID001-1	0.15	COL030-1	0.17
BOO005-4	sos	CAT003-3	time	CID002-1	time	COL031-1	0.14
BOO006-1	22.42	CAT003-4	531.51	CID003-1	time	COL032-1	0.08
BOO006-2	0.33	CAT004-1	28.03	CID003-2	525.03	COL033-1	0.24
BOO006-4	0.33	CAT004-2	time	CIV001-1	4.09	COL034-1	3.66
BOO007-1	time	CAT004-3	time	CIV002-1	time	COL035-1	24.06
BOO007-2	130.23	CAT004-4	time	CIV003-1	time	COL036-1	time
BOO007-4	8.80	CAT005-1	2.77	CIV004-1	time	COL037-1	time
BOO008-1	273.10	CAT005-3	0.39	COL001-1	3.52	COL038-1	time
BOO008-2	225.72	CAT005-4	0.75	COL001-2	0.69	COL039-1	19.47
BOO008-3	sos	CAT006-1	2.78	COL002-1	2.01	COL040-1	25.90
BOO008-4	71.86	CAT006-3	0.38	COL002-2	21.24	COL041-1	1.62
BOO009-1	22.83	CAT006-4	0.50	COL002-3	time	COL042-1	time
BOO009-2	1.82	CAT007-1	0.26	COL003-1	memory	COL043-1	time
BOO009-4	0.38	CAT007-3	15.00	COL003-2	memory	COL044-1	25.95
BOO010-1	11.58	CAT008-1	3.21	COL003-3	memory	COL045-1	0.11
BOO010-2	1.62	CAT009-1	4.58	COL003-4	memory	COL046-1	time

COL047-1	time	COM003-2	0.39	GEO018-2	3.86	GEO044-2	time
COL048-1	0.10	COM004-1	0.14	GEO018-3	6.05	GEO044-3	time
COL049-1	6.86	GEO001-1	time	GEO019-2	0.55	GEO045-2	time
COL050-1	0.08	GEO001-2	time	GEO019-3	0.61	GEO045-3	10.76
COL051-1	0.09	GEO001-3	time	GEO020-2	5.90	GEO046-2	time
COL052-1	0.09	GEO001-4	2.74	GEO020-3	4.04	GEO046-3	10.18
COL052-2	0.23	GEO002-1	time	GEO021-2	3.86	GEO047-2	time
COL053-1	0.09	GEO002-2	time	GEO021-3	6.15	GEO047-3	6.50
COL054-1	0.18	GEO002-3	0.81	GEO022-2	19.68	GEO048-2	time
COL055-1	0.05	GEO002-4	0.86	GEO022-3	18.43	GEO048-3	time
COL056-1	0.07	GEO003-1	2.47	GEO024-2	3.91	GEO049-2	time
COL057-1	12.29	GEO003-2	3.88	GEO024-3	2.89	GEO049-3	time
COL058-1	0.10	GEO003-3	1.47	GEO025-2	time	GEO050-2	time
COL058-2	2.01	GEO004-1	time	GEO025-3	time	GEO050-3	time
COL058-3	0.25	GEO004-2	time	GEO026-2	15.21	GEO051-2	time
COL059-1	0.42	GEO005-1	time	GEO026-3	31.34	GEO051-3	100.29
COL060-1	time	GEO005-2	time	GEO027-2	time	GEO052-2	time
COL060-2	0.14	GEO006-1	time	GEO027-3	4.64	GEO052-3	98.24
COL060-3	0.07	GEO006-2	time	GEO028-2	time	GEO053-2	time
COL061-1	time	GEO006-3	16.21	GEO028-3	time	GEO053-3	16.47
COL061-2	0.19	GEO007-1	time	GEO029-2	time	GEO054-2	0.44
COL061-3	0.16	GEO007-2	time	GEO029-3	time	GEO054-3	0.46
COL062-1	time	GEO007-3	272.77	GEO030-2	135.41	GEO055-2	0.47
COL062-2	0.16	GEO008-1	time	GEO030-3	106.05	GEO055-3	0.52
COL062-3	0.11	GEO008-2	time	GEO031-2	time	GEO056-2	6.04
COL063-1	time	GEO008-3	time	GEO031-3	time	GEO056-3	0.53
COL063-2	0.21	GEO009-1	time	GEO032-2	time	GEO057-2	2.67
COL063-3	0.24	GEO009-2	time	GEO032-3	time	GEO057-3	0.54
COL063-4	0.23	GEO009-3	time	GEO033-2	time	GEO058-2	40.02
COL063-5	0.22	GEO010-1	time	GEO033-3	time	GEO058-3	8.94
COL063-6	0.20	GEO010-2	time	GEO034-2	time	GEO059-2	time
COL064-1	time	GEO010-3	time	GEO034-3	108.38	GEO059-3	time
COL064-10	0.22	GEO011-1	time	GEO035-2	1.28	GEO060-2	time
COL064-11	0.21	GEO011-2	0.54	GEO035-3	1.20	GEO061-2	time
COL064-2	0.24	GEO011-3	3.14	GEO036-2	466.92	GEO061-3	time
COL064-3	0.28	GEO011-4	0.75	GEO036-3	86.11	GEO062-2	time
COL064-4	0.27	GEO011-5	0.38	GEO037-2	time	GEO062-3	time
COL064-5	0.30	GEO012-1	time	GEO037-3	time	GEO063-2	time
COL064-6	0.26	GEO012-2	time	GEO038-2	3.71	GEO063-3	time
COL064-7	0.25	GEO012-3	time	GEO038-3	1.98	GEO064-2	time
COL064-8	0.25	GEO013-1	time	GEO039-2	29.69	GEO064-3	5.68
COL064-9	0.22	GEO013-2	time	GEO039-3	1.01	GEO065-2	time
COL065-1	time	GEO013-3	109.86	GEO040-2	time	GEO065-3	5.66
COL066-1	time	GEO014-2	0.56	GEO040-3	time	GEO066-2	time
COL066-2	0.25	GEO015-2	1.72	GEO041-2	time	GEO066-3	5.65
COL066-3	0.29	GEO015-3	0.63	GEO041-3	3.59	GEO067-2	4.54
COM001-1	0.09	GEO016-2	0.53	GEO042-2	time	GEO067-3	3.29
COM002-1	0.14	GEO016-3	0.63	GEO042-3	time	GEO068-2	time
COM002-2	0.27	GEO017-2	5.98	GEO043-2	time	GEO068-3	time
COM003-1	time	GEO017-3	4.08	GEO043-3	time	GEO069-2	time

GEO069-3	112.81	GRP020-1	0.25	GRP048-2	0.09	GRP098-1	338.12
GEO070-2	time	GRP021-1	0.30	GRP049-1	sos	GRP099-1	time
GEO070-3	time	GRP022-1	0.40	GRP050-1	53.61	GRP100-1	300.50
GEO071-2	time	GRP022-2	0.10	GRP051-1	time	GRP101-1	time
GEO071-3	time	GRP023-1	0.12	GRP052-1	time	GRP102-1	sos
GEO072-2	time	GRP023-2	0.04	GRP053-1	sos	GRP103-1	427.12
GEO072-3	time	GRP024-4	time	GRP054-1	time	GRP104-1	time
GEO073-1	time	GRP025-1	4.50	GRP055-1	sos	GRP105-1	time
GEO073-2	time	GRP025-2	3.31	GRP056-1	time	GRP106-1	time
GEO073-3	time	GRP025-3	4.69	GRP057-1	sos	GRP107-1	time
GEO074-2	time	GRP025-4	4.90	GRP058-1	15.77	GRP108-1	time
GEO075-2	time	GRP026-1	13.60	GRP059-1	16.93	GRP109-1	time
GEO076-4	time	GRP026-2	8.51	GRP060-1	sos	GRP110-1	time
GEO077-4	time	GRP026-3	13.32	GRP061-1	sos	GRP111-1	time
GEO078-4	time	GRP026-4	11.34	GRP062-1	sos	GRP112-1	time
GEO078-5	time	GRP027-1	0.89	GRP063-1	time	GRP113-1	time
GEO079-1	0.07	GRP027-2	0.93	GRP064-1	time	HEN001-1	0.10
GRA001-1	0.08	GRP028-1	0.05	GRP065-1	sos	HEN001-3	0.09
GRP001-1	0.22	GRP028-2	0.13	GRP066-1	time	HEN001-5	0.06
GRP001-2	0.17	GRP028-3	0.12	GRP067-1	time	HEN002-1	0.10
GRP001-3	time	GRP029-1	0.24	GRP068-1	time	HEN002-2	0.10
GRP001-4	0.16	GRP029-2	0.24	GRP069-1	time	HEN002-3	0.08
GRP001-5	0.14	GRP030-1	0.25	GRP070-1	283.28	HEN002-4	0.09
GRP002-1	time	GRP031-1	0.20	GRP071-1	sos	HEN002-5	0.07
GRP002-2	time	GRP031-2	0.48	GRP072-1	time	HEN003-1	0.78
GRP002-3	3.53	GRP032-3	0.15	GRP073-1	sos	HEN003-2	0.79
GRP002-4	5.29	GRP033-3	0.20	GRP074-1	sos	HEN003-3	0.38
GRP003-1	0.14	GRP033-4	0.25	GRP075-1	187.97	HEN003-4	0.42
GRP003-2	0.25	GRP034-3	0.24	GRP076-1	416.21	HEN003-5	1.81
GRP004-1	0.13	GRP034-4	0.28	GRP077-1	sos	HEN004-1	2.60
GRP004-2	0.24	GRP035-3	1.20	GRP078-1	334.40	HEN004-2	2.49
GRP005-1	0.09	GRP036-3	0.29	GRP079-1	138.59	HEN004-3	1.53
GRP006-1	0.14	GRP037-3	1.83	GRP080-1	time	HEN004-4	4.42
GRP007-1	0.10	GRP038-3	0.47	GRP081-1	time	HEN004-5	4.87
GRP008-1	13.04	GRP039-1	time	GRP082-1	sos	HEN004-6	1.88
GRP009-1	0.55	GRP039-2	time	GRP083-1	sos	HEN005-1	1.02
GRP010-1	0.21	GRP039-3	time	GRP084-1	time	HEN005-2	1.73
GRP010-4	0.10	GRP039-4	time	GRP085-1	3.18	HEN005-3	0.64
GRP011-4	0.13	GRP039-5	time	GRP086-1	2.51	HEN005-4	3.90
GRP012-1	0.58	GRP039-6	time	GRP087-1	35.30	HEN005-5	4.28
GRP012-2	1.23	GRP039-7	time	GRP088-1	time	HEN005-6	0.58
GRP012-3	4.75	GRP040-3	time	GRP089-1	time	HEN006-1	4.62
GRP012-4	0.18	GRP040-4	time	GRP090-1	time	HEN006-2	6.62
GRP013-1	0.98	GRP041-2	0.09	GRP091-1	time	HEN006-3	43.70
GRP014-1	sos	GRP042-2	0.06	GRP092-1	time	HEN006-4	3.82
GRP015-1	time	GRP043-2	0.08	GRP093-1	time	HEN006-5	8.06
GRP016-1	time	GRP044-2	0.10	GRP094-1	time	HEN006-6	55.75
GRP017-1	0.22	GRP045-2	0.07	GRP095-1	time	HEN006-7	4.64
GRP018-1	0.24	GRP046-2	0.10	GRP096-1	269.98	HEN007-1	25.81
GRP019-1	0.28	GRP047-2	0.11	GRP097-1	time	HEN007-2	2.45

HEN007-3	166.73	LCL011-1	110.04	LCL061-1	time	LCL103-1	316.61
HEN007-4	0.51	LCL012-1	time	LCL062-1	time	LCL104-1	0.62
HEN007-5	60.73	LCL013-1	0.08	LCL063-1	time	LCL105-1	time
HEN007-6	2.07	LCL014-1	238.48	LCL064-1	time	LCL106-1	0.18
HEN008-1	0.99	LCL015-1	time	LCL064-2	10.97	LCL107-1	0.89
HEN008-2	2.77	LCL016-1	408.46	LCL065-1	2.61	LCL108-1	1.81
HEN008-3	0.45	LCL017-1	time	LCL066-1	1.28	LCL109-1	time
HEN008-4	2.12	LCL018-1	577.98	LCL067-1	407.95	LCL109-2	time
HEN008-5	0.26	LCL019-1	time	LCL068-1	time	LCL109-3	time
HEN008-6	0.38	LCL020-1	time	LCL069-1	time	LCL109-4	time
HEN009-1	18.59	LCL021-1	time	LCL070-1	373.36	LCL109-5	0.60
HEN009-2	1.88	LCL022-1	1.39	LCL071-1	394.37	LCL109-6	131.59
HEN009-3	441.83	LCL023-1	4.53	LCL072-1	165.10	LCL110-1	1.60
HEN009-4	1.49	LCL024-1	time	LCL073-1	time	LCL110-2	0.94
HEN009-5	3.77	LCL025-1	58.52	LCL074-1	time	LCL111-1	3.17
HEN009-6	17.94	LCL026-1	80.44	LCL075-1	15.53	LCL111-2	13.65
HEN010-1	15.11	LCL027-1	0.50	LCL076-1	0.74	LCL112-1	1.65
HEN010-2	3.34	LCL028-1	time	LCL076-2	0.08	LCL112-2	1.12
HEN010-3	time	LCL029-1	4.65	LCL076-3	9.80	LCL113-1	time
HEN010-4	9.04	LCL030-1	time	LCL077-1	0.69	LCL113-2	1.15
HEN010-5	6.07	LCL031-1	time	LCL077-2	9.16	LCL114-1	time
HEN010-6	7.70	LCL032-1	time	LCL078-1	time	LCL114-2	1.58
HEN010-7	2.54	LCL033-1	0.18	LCL079-1	0.09	LCL115-1	13.94
HEN011-1	210.26	LCL034-1	11.94	LCL080-1	97.91	LCL115-2	2.33
HEN011-2	141.76	LCL035-1	0.13	LCL080-2	78.91	LCL116-1	time
HEN011-3	time	LCL036-1	3.30	LCL081-1	0.16	LCL116-2	2.91
HEN011-4	252.40	LCL037-1	time	LCL082-1	0.26	LCL117-1	0.08
HEN011-5	471.79	LCL038-1	time	LCL083-1	23.66	LCL118-1	11.77
HEN012-1	1.35	LCL039-1	181.16	LCL083-2	0.03	LCL119-1	time
HEN012-3	0.44	LCL040-1	176.52	LCL084-1	time	LCL120-1	78.91
LAT001-1	time	LCL041-1	3.91	LCL084-2	0.10	LCL121-1	172.08
LAT002-1	time	LCL042-1	time	LCL084-3	0.08	LCL122-1	time
LAT003-1	time	LCL043-1	7.06	LCL085-1	time	LCL123-1	time
LAT004-1	time	LCL044-1	8.31	LCL086-1	0.75	LCL124-1	time
LAT005-1	6.94	LCL045-1	time	LCL087-1	0.24	LCL125-1	time
LAT005-2	5.08	LCL046-1	0.15	LCL088-1	3.96	LCL126-1	0.24
LAT005-3	time	LCL047-1	6.45	LCL089-1	4.01	LCL127-1	time
LAT005-4	time	LCL048-1	6.52	LCL090-1	3.65	LCL128-1	179.66
LAT005-5	57.69	LCL049-1	67.38	LCL091-1	4.08	LCL129-1	time
LAT005-6	96.02	LCL050-1	66.82	LCL092-1	6.88	LCL130-1	0.23
LCL001-1	time	LCL051-1	372.87	LCL093-1	169.47	LCL131-1	177.23
LCL002-1	time	LCL052-1	66.88	LCL094-1	7.49	LCL132-1	0.27
LCL003-1	time	LCL053-1	68.27	LCL095-1	19.42	LCL133-1	0.18
LCL004-1	36.16	LCL054-1	time	LCL096-1	152.18	LCL134-1	0.25
LCL005-1	time	LCL055-1	35.68	LCL097-1	6.13	LCL135-1	0.30
LCL006-1	585.17	LCL056-1	32.00	LCL098-1	9.95	LCL136-1	time
LCL007-1	0.05	LCL057-1	34.14	LCL099-1	time	LCL137-1	time
LCL008-1	0.12	LCL058-1	time	LCL100-1	time	LCL138-1	139.83
LCL009-1	1.45	LCL059-1	31.92	LCL101-1	0.52	LCL139-1	1.22
LCL010-1	3.54	LCL060-1	time	LCL102-1	50.41	LCL140-1	1.06

LCL141-1	1.61	LCL190-1	0.27	LCL239-1	sos	MSC007-1.004	0.19
LCL142-1	time	LCL191-1	sos	LCL240-1	sos	MSC007-1.005	0.94
LCL143-1	0.46	LCL192-1	14.82	LCL241-1	sos	MSC007-1.006	13.55
LCL144-1	time	LCL193-1	3.07	LCL242-1	sos	MSC007-1.007	285.80
LCL145-1	time	LCL194-1	sos	LCL243-1	sos	MSC007-1.008	time
LCL146-1	102.94	LCL195-1	sos	LCL244-1	sos	MSC007-1.009	time
LCL147-1	time	LCL196-1	50.77	LCL245-1	sos	MSC007-1.010	time
LCL148-1	time	LCL197-1	1.29	LCL246-1	sos	MSC007-1.011	time
LCL149-1	time	LCL198-1	51.19	LCL247-1	sos	MSC007-1.012	time
LCL150-1	time	LCL199-1	0.78	LCL248-1	sos	MSC007-1.013	time
LCL151-1	time	LCL200-1	0.36	LCL249-1	sos	MSC007-1.014	time
LCL152-1	time	LCL201-1	6.45	LCL250-1	sos	MSC007-1.015	time
LCL153-1	1.25	LCL202-1	2.58	LCL251-1	sos	MSC007-2.002	0.11
LCL154-1	1.11	LCL203-1	2.53	LCL252-1	sos	MSC007-2.003	3.10
LCL155-1	0.85	LCL204-1	6.52	LCL253-1	sos	MSC007-2.004	time
LCL156-1	1.05	LCL205-1	2.62	LCL254-1	sos	MSC007-2.005	time
LCL157-1	0.75	LCL206-1	2.62	LCL255-1	sos	MSC007-2.006	time
LCL158-1	0.96	LCL207-1	1.92	LCL256-1	32.44	MSC007-2.007	time
LCL159-1	1.40	LCL208-1	29.96	LDA001-1	0.40	MSC007-2.008	time
LCL160-1	time	LCL209-1	sos	LDA002-1	2.77	MSC007-2.009	time
LCL161-1	0.35	LCL210-1	30.14	LDA003-1	0.36	MSC007-2.010	time
LCL162-1	54.96	LCL211-1	29.91	LDA004-1	time	MSC007-2.011	time
LCL163-1	203.96	LCL212-1	0.10	LDA005-1	time	MSC007-2.012	time
LCL164-1	1.74	LCL213-1	30.39	LDA005-2	time	MSC007-2.013	time
LCL165-1	time	LCL214-1	30.77	LDA006-1	time	MSC007-2.014	time
LCL166-1	time	LCL215-1	58.15	LDA006-2	time	MSC007-2.015	time
LCL167-1	time	LCL216-1	30.05	LDA007-1	47.32	MSC008-1.002	39.64
LCL168-1	time	LCL217-1	29.54	LDA007-2	28.11	MSC008-1.006	time
LCL169-1	0.11	LCL218-1	19.71	LDA007-3	0.54	MSC008-1.010	time
LCL170-1	0.08	LCL219-1	sos	LDA008-1	time	MSC008-1.014	time
LCL171-1	0.09	LCL220-1	sos	LDA008-2	time	MSC008-1.018	time
LCL172-1	0.14	LCL221-1	sos	LDA009-1	time	MSC008-1.022	time
LCL173-1	0.18	LCL222-1	sos	LDA009-2	time	MSC008-2.002	26.88
LCL174-1	1.52	LCL223-1	sos	LDA010-1	time	NUM001-1	0.10
LCL175-1	0.12	LCL224-1	sos	LDA010-2	228.65	NUM002-1	0.18
LCL176-1	0.13	LCL225-1	sos	LDA011-1	time	NUM003-1	0.12
LCL177-1	0.13	LCL226-1	1.52	LDA011-2	218.37	NUM004-1	0.52
LCL178-1	0.12	LCL227-1	sos	LDA012-1	time	NUM005-1	time
LCL179-1	sos	LCL228-1	sos	LDA012-2	13.81	NUM006-1	time
LCL180-1	sos	LCL229-1	sos	LDA013-1	0.87	NUM007-1	time
LCL181-1	sos	LCL230-1	sos	LDA014-1	time	NUM008-1	time
LCL181-2	0.05	LCL230-2	0.04	MSC001-1	12.84	NUM009-1	48.00
LCL182-1	30.30	LCL231-1	sos	MSC002-1	1.04	NUM010-1	time
LCL183-1	sos	LCL232-1	sos	MSC002-2	0.90	NUM011-1	time
LCL184-1	sos	LCL233-1	sos	MSC003-1	0.10	NUM012-1	time
LCL185-1	0.32	LCL234-1	sos	MSC004-1	0.11	NUM013-1	time
LCL186-1	0.30	LCL235-1	sos	MSC005-1	45.37	NUM014-1	0.07
LCL187-1	0.34	LCL236-1	sos	MSC006-1	3.76	NUM015-1	0.13
LCL188-1	0.13	LCL237-1	sos	MSC007-1.002	0.03	NUM016-1	0.11
LCL189-1	0.18	LCL238-1	sos	MSC007-1.003	0.08	NUM016-2	0.10

NUM017-1	175.92	NUM065-1	time	NUM115-1	time	NUM165-1	time
NUM017-2	174.93	NUM066-1	time	NUM116-1	time	NUM166-1	time
NUM018-1	time	NUM067-1	time	NUM117-1	time	NUM167-1	time
NUM019-1	0.10	NUM068-1	time	NUM118-1	time	NUM168-1	time
NUM020-1	0.10	NUM069-1	time	NUM119-1	time	NUM169-1	time
NUM021-1	0.32	NUM070-1	time	NUM120-1	time	NUM170-1	time
NUM022-1	0.08	NUM071-1	time	NUM121-1	time	NUM171-1	time
NUM023-1	0.13	NUM072-1	time	NUM122-1	time	NUM172-1	time
NUM024-1	30.63	NUM073-1	time	NUM123-1	time	NUM173-1	time
NUM025-1	0.06	NUM074-1	time	NUM124-1	time	NUM174-1	time
NUM025-2	0.09	NUM075-1	time	NUM125-1	time	NUM175-1	time
NUM026-1	time	NUM076-1	time	NUM126-1	time	NUM176-1	time
NUM027-1	time	NUM077-1	time	NUM127-1	time	NUM177-1	time
NUM028-1	time	NUM078-1	time	NUM128-1	time	NUM178-1	time
NUM029-1	time	NUM079-1	time	NUM129-1	time	NUM179-1	time
NUM030-1	time	NUM080-1	time	NUM130-1	time	NUM180-1	8.28
NUM031-1	time	NUM081-1	time	NUM131-1	time	NUM181-1	time
NUM032-1	time	NUM082-1	time	NUM132-1	time	NUM182-1	time
NUM033-1	time	NUM083-1	time	NUM133-1	time	NUM183-1	53.84
NUM034-1	time	NUM084-1	time	NUM134-1	time	NUM184-1	time
NUM035-1	time	NUM085-1	time	NUM135-1	time	NUM185-1	time
NUM036-1	time	NUM086-1	time	NUM136-1	time	NUM186-1	time
NUM037-1	time	NUM087-1	time	NUM137-1	time	NUM187-1	time
NUM038-1	time	NUM088-1	time	NUM138-1	time	NUM188-1	time
NUM039-1	time	NUM089-1	time	NUM139-1	time	NUM189-1	time
NUM040-1	time	NUM090-1	time	NUM140-1	time	NUM190-1	14.55
NUM041-1	time	NUM091-1	time	NUM141-1	time	NUM191-1	time
NUM042-1	time	NUM092-1	time	NUM142-1	time	NUM192-1	time
NUM043-1	time	NUM093-1	time	NUM143-1	time	NUM193-1	time
NUM044-1	time	NUM094-1	time	NUM144-1	time	NUM194-1	time
NUM045-1	time	NUM095-1	time	NUM145-1	time	NUM195-1	time
NUM046-1	time	NUM096-1	time	NUM146-1	time	NUM196-1	time
NUM047-1	time	NUM097-1	time	NUM147-1	time	NUM197-1	time
NUM048-1	time	NUM098-1	time	NUM148-1	time	NUM198-1	time
NUM049-1	time	NUM099-1	time	NUM149-1	time	NUM199-1	time
NUM050-1	time	NUM100-1	time	NUM150-1	time	NUM200-1	time
NUM051-1	time	NUM101-1	time	NUM151-1	time	NUM201-1	time
NUM052-1	time	NUM102-1	time	NUM152-1	time	NUM202-1	time
NUM053-1	time	NUM103-1	time	NUM153-1	time	NUM203-1	time
NUM054-1	time	NUM104-1	time	NUM154-1	time	NUM204-1	time
NUM055-1	time	NUM105-1	time	NUM155-1	time	NUM205-1	time
NUM056-1	time	NUM106-1	time	NUM156-1	time	NUM206-1	time
NUM057-1	time	NUM107-1	time	NUM157-1	time	NUM207-1	time
NUM058-1	time	NUM108-1	time	NUM158-1	time	NUM208-1	time
NUM059-1	time	NUM109-1	time	NUM159-1	time	NUM209-1	time
NUM060-1	time	NUM110-1	time	NUM160-1	time	NUM210-1	time
NUM061-1	time	NUM111-1	time	NUM161-1	time	NUM211-1	time
NUM062-1	time	NUM112-1	time	NUM162-1	time	NUM212-1	time
NUM063-1	time	NUM113-1	time	NUM163-1	time	NUM213-1	time
NUM064-1	time	NUM114-1	time	NUM164-1	time	NUM214-1	time

NUM215-1	time	NUM255-1	time	NUM284-1.007	0.14	PUZ006-1	0.24
NUM216-1	time	NUM255-2	time	NUM284-1.008	0.25	PUZ007-1	0.83
NUM217-1	time	NUM256-1	time	NUM284-1.009	0.38	PUZ008-1	0.23
NUM218-1	time	NUM256-2	time	NUM284-1.010	0.83	PUZ008-2	0.42
NUM219-1	time	NUM257-1	time	NUM285-1	sos	PUZ009-1	0.08
NUM220-1	time	NUM257-2	time	PLA001-1	sos	PUZ010-1	time
NUM221-1	time	NUM258-1	time	PLA002-1	0.14	PUZ011-1	0.12
NUM222-1	time	NUM258-2	time	PLA002-2	time	PUZ012-1	0.87
NUM223-1	time	NUM259-1	time	PLA003-1	0.20	PUZ013-1	0.12
NUM224-1	time	NUM259-2	time	PLA004-1	time	PUZ014-1	0.14
NUM225-1	time	NUM260-1	time	PLA004-2	time	PUZ015-1	time
NUM226-1	time	NUM260-2	time	PLA005-1	time	PUZ016-1	5.69
NUM227-1	time	NUM261-1	time	PLA005-2	time	PUZ017-1	time
NUM228-1	12.39	NUM261-2	time	PLA006-1	2.25	PUZ018-1	0.21
NUM229-1	time	NUM262-1	time	PLA007-1	time	PUZ019-1	memory
NUM230-1	time	NUM262-2	time	PLA008-1	time	PUZ020-1	0.16
NUM231-1	time	NUM263-1	time	PLA009-1	time	PUZ021-1	time
NUM232-1	time	NUM263-2	time	PLA009-2	time	PUZ022-1	0.24
NUM233-1	time	NUM264-1	time	PLA010-1	time	PUZ023-1	0.29
NUM234-1	time	NUM264-2	time	PLA011-1	time	PUZ024-1	0.24
NUM235-1	time	NUM265-1	time	PLA011-2	time	PUZ025-1	1.00
NUM236-1	time	NUM266-1	time	PLA012-1	time	PUZ026-1	20.02
NUM237-1	time	NUM267-1	time	PLA013-1	time	PUZ027-1	1.99
NUM238-1	time	NUM268-1	time	PLA014-1	time	PUZ028-1	sos
NUM239-1	time	NUM269-1	time	PLA014-2	time	PUZ028-2	sos
NUM240-1	time	NUM270-1	time	PLA015-1	time	PUZ028-3	time
NUM241-1	time	NUM271-1	time	PLA016-1	time	PUZ028-4	time
NUM242-1	time	NUM272-1	time	PLA017-1	2.10	PUZ029-1	0.11
NUM243-1	time	NUM273-1	time	PLA018-1	time	PUZ030-0	1.05
NUM244-1	time	NUM274-1	time	PLA019-1	time	PUZ030-1	48.76
NUM245-1	time	NUM275-1	time	PLA020-1	0.30	PUZ031-1	0.50
NUM245-2	time	NUM276-1	time	PLA021-1	time	PUZ032-1	0.17
NUM246-1	time	NUM277-1	time	PLA022-1	time	PUZ033-1	0.10
NUM246-2	time	NUM278-1	time	PLA022-2	time	PUZ034-1.002	time
NUM247-1	time	NUM279-1	time	PLA023-1	time	PUZ034-1.003	time
NUM247-2	time	NUM279-2	time	PRV001-1	0.61	PUZ034-1.004	time
NUM248-1	time	NUM280-1	time	PRV002-1	2.37	PUZ034-1.005	time
NUM248-2	time	NUM281-1	time	PRV003-1	0.19	PUZ034-1.006	time
NUM249-1	time	NUM282-1	time	PRV004-1	time	PUZ034-1.007	time
NUM249-2	time	NUM283-1.002	0.09	PRV005-1	2.11	PUZ034-1.008	time
NUM250-1	time	NUM283-1.003	0.14	PRV006-1	0.22	PUZ034-1.009	time
NUM250-2	time	NUM283-1.004	0.77	PRV007-1	time	PUZ034-1.010	time
NUM251-1	time	NUM283-1.005	34.23	PRV008-1	1.71	RNG001-1	40.66
NUM251-2	time	NUM283-1.006	term	PRV009-1	0.16	RNG001-2	8.24
NUM252-1	time	NUM283-1.007	term	PUZ001-1	0.12	RNG001-3	100.56
NUM252-2	time	NUM284-1.002	0.09	PUZ001-2	0.38	RNG001-4	21.61
NUM253-1	time	NUM284-1.003	0.09	PUZ002-1	0.13	RNG001-5	40.70
NUM253-2	time	NUM284-1.004	0.09	PUZ003-1	0.11	RNG002-1	1.17
NUM254-1	time	NUM284-1.005	0.13	PUZ004-1	0.08	RNG003-1	0.87
NUM254-2	time	NUM284-1.006	0.16	PUZ005-1	1.81	RNG004-1	24.25

RNG004-2	35.25	RNG026-7	time	ROB007-1	time	SET015-3	time
RNG004-3	5.53	RNG027-1	time	ROB007-2	time	SET015-4	time
RNG005-1	5.14	RNG027-2	0.18	ROB007-3	time	SET016-1	time
RNG005-2	1.02	RNG027-5	time	ROB007-4	time	SET016-3	time
RNG006-1	59.29	RNG027-6	time	ROB008-1	0.30	SET016-6	time
RNG006-2	8.89	RNG027-7	time	ROB009-1	0.46	SET016-7	time
RNG006-3	14.05	RNG027-8	time	ROB010-1	0.22	SET017-3	time
RNG007-1	14.19	RNG027-9	time	ROB011-1	0.52	SET017-4	time
RNG007-4	0.28	RNG028-1	time	ROB012-1	time	SET017-6	107.89
RNG007-5	time	RNG028-2	0.12	ROB012-2	time	SET017-7	242.95
RNG008-1	166.41	RNG028-5	time	ROB013-1	0.19	SET018-1	time
RNG008-2	209.00	RNG028-6	time	ROB014-1	time	SET018-3	time
RNG008-3	2.12	RNG028-7	time	ROB014-2	358.48	SET018-4	time
RNG008-4	1.94	RNG028-8	time	ROB015-1	time	SET018-6	time
RNG008-5	121.48	RNG028-9	time	ROB015-2	time	SET018-7	time
RNG008-6	213.42	RNG029-1	time	ROB016-1	0.76	SET019-3	34.67
RNG008-7	2.82	RNG029-2	0.13	ROB017-1	time	SET019-4	29.49
RNG009-5	time	RNG029-5	time	ROB018-1	time	SET020-3	time
RNG009-7	time	RNG029-6	time	ROB019-1	time	SET020-4	time
RNG010-1	0.26	RNG029-7	time	ROB020-1	time	SET020-6	time
RNG010-2	0.16	RNG030-6	time	ROB020-2	time	SET020-7	time
RNG010-5	time	RNG030-7	time	ROB021-1	2.62	SET021-3	time
RNG010-6	time	RNG031-6	time	ROB022-1	3.85	SET021-4	time
RNG010-7	time	RNG031-7	time	ROB023-1	2.81	SET021-6	time
RNG011-5	0.15	RNG032-6	time	ROB024-1	time	SET021-7	time
RNG012-6	0.50	RNG032-7	time	ROB025-1	525.69	SET022-3	time
RNG013-6	0.44	RNG033-6	time	SET001-1	0.08	SET022-4	time
RNG014-6	0.36	RNG033-7	time	SET002-1	32.00	SET023-3	time
RNG015-6	0.40	RNG033-8	time	SET003-1	0.16	SET023-4	time
RNG016-6	1.62	RNG033-9	time	SET004-1	0.22	SET024-3	5.23
RNG017-6	0.56	RNG034-1	time	SET005-1	time	SET024-4	3.45
RNG018-6	0.33	RNG035-7	time	SET006-1	0.16	SET024-6	1.23
RNG019-6	1.92	RNG036-7	memory	SET007-1	time	SET024-7	1.92
RNG019-7	1.92	RNG037-1	5.03	SET008-1	5.46	SET025-3	3.37
RNG020-6	1.94	RNG037-2	0.99	SET009-1	3.39	SET025-4	2.36
RNG020-7	1.83	RNG038-1	1.01	SET010-1	time	SET025-6	2.24
RNG021-6	1.95	RNG038-2	1.05	SET011-1	time	SET025-7	3.64
RNG021-7	1.82	RNG039-1	12.07	SET012-1	time	SET025-8	time
RNG023-6	1.82	RNG039-2	13.26	SET012-2	time	SET025-9	time
RNG023-7	1.61	RNG040-1	1.27	SET012-3	time	SET027-3	time
RNG024-6	1.91	RNG040-2	1.74	SET012-4	261.14	SET027-4	time
RNG024-7	1.76	RNG041-1	3.62	SET013-1	time	SET027-6	4.38
RNG025-1	time	ROB001-1	time	SET013-2	time	SET027-7	4.49
RNG025-4	104.79	ROB002-1	0.37	SET013-3	time	SET028-3	time
RNG025-5	156.93	ROB003-1	0.46	SET013-4	time	SET028-4	time
RNG025-6	106.48	ROB004-1	2.23	SET014-2	time	SET029-3	time
RNG025-7	160.81	ROB005-1	69.61	SET014-3	time	SET029-4	time
RNG025-8	time	ROB006-1	time	SET014-4	time	SET030-3	time
RNG025-9	time	ROB006-2	time	SET015-1	time	SET030-4	time
RNG026-6	time	ROB006-3	time	SET015-2	time	SET030-6	time

SET031-3	time	SET058-6	1.59	SET083-6	165.21	SET110-6	time
SET031-4	time	SET058-7	1.74	SET083-7	334.27	SET110-7	time
SET032-3	time	SET059-6	1.72	SET084-6	9.19	SET111-6	time
SET032-4	time	SET059-7	1.80	SET084-7	55.09	SET111-7	time
SET032-6	time	SET060-6	4.03	SET085-6	194.03	SET112-6	time
SET033-3	time	SET060-7	6.06	SET085-7	time	SET112-7	time
SET033-4	time	SET061-6	105.25	SET086-6	time	SET113-6	time
SET033-6	time	SET061-7	11.32	SET086-7	time	SET113-7	time
SET034-3	time	SET062-6	40.16	SET087-6	time	SET114-6	time
SET034-4	time	SET062-7	1.35	SET087-7	time	SET114-7	time
SET034-6	time	SET063-6	39.25	SET088-6	time	SET115-6	time
SET035-3	time	SET063-7	1.33	SET088-7	time	SET115-7	time
SET035-4	time	SET064-6	160.42	SET089-6	time	SET116-6	time
SET035-6	time	SET064-7	15.83	SET089-7	time	SET116-7	time
SET036-3	time	SET065-6	1.31	SET090-6	time	SET117-6	9.46
SET036-4	time	SET065-7	1.47	SET090-7	time	SET117-7	72.45
SET036-6	time	SET066-6	time	SET091-6	time	SET118-6	1.52
SET037-3	time	SET066-7	time	SET091-7	time	SET118-7	3.49
SET037-4	time	SET067-6	time	SET092-6	time	SET119-6	time
SET037-6	time	SET067-7	time	SET092-7	time	SET119-7	time
SET038-3	time	SET068-6	time	SET093-6	9.60	SET120-6	time
SET038-4	time	SET068-7	time	SET093-7	97.55	SET120-7	time
SET038-6	time	SET069-6	time	SET094-6	132.69	SET121-6	time
SET039-3	time	SET069-7	time	SET094-7	76.45	SET121-7	time
SET039-4	time	SET070-6	time	SET095-6	time	SET122-6	time
SET040-3	time	SET070-7	time	SET095-7	2.06	SET122-7	time
SET040-4	time	SET071-6	time	SET096-6	time	SET123-6	time
SET040-6	time	SET071-7	time	SET096-7	40.34	SET124-6	time
SET041-3	time	SET072-6	230.01	SET097-6	time	SET125-6	time
SET041-4	time	SET072-7	485.58	SET097-7	time	SET126-6	time
SET041-6	time	SET073-6	104.43	SET098-6	time	SET127-6	time
SET042-3	time	SET073-7	2.67	SET098-7	time	SET128-6	time
SET042-4	time	SET074-6	104.72	SET099-6	time	SET129-6	time
SET043-5	0.06	SET074-7	2.52	SET099-7	time	SET130-6	time
SET044-5	0.07	SET075-6	83.70	SET100-6	time	SET131-6	time
SET045-5	0.08	SET075-7	2.45	SET100-7	time	SET132-6	time
SET046-5	0.06	SET076-6	time	SET101-6	2.13	SET133-6	time
SET047-5	1.14	SET076-7	time	SET101-7	3.57	SET134-6	time
SET050-6	8.47	SET077-6	0.78	SET102-6	2.27	SET135-6	time
SET051-6	8.12	SET077-7	0.99	SET102-7	3.54	SET136-6	time
SET052-6	10.21	SET078-6	1.38	SET103-6	time	SET137-6	time
SET053-6	9.92	SET078-7	1.84	SET103-7	time	SET138-6	time
SET054-6	0.86	SET079-6	121.92	SET104-6	time	SET139-6	time
SET054-7	0.93	SET079-7	2.57	SET104-7	time	SET140-6	time
SET055-6	99.04	SET080-6	1.29	SET105-6	time	SET141-6	time
SET055-7	1.02	SET080-7	1.70	SET105-7	time	SET142-6	time
SET056-6	150.44	SET081-6	1.43	SET108-6	7.20	SET143-6	time
SET056-7	156.83	SET081-7	2.62	SET108-7	48.50	SET144-6	time
SET057-6	1.56	SET082-6	169.62	SET109-6	time	SET145-6	time
SET057-7	1.67	SET082-7	113.95	SET109-7	time	SET146-6	186.67

SET147-6	time	SET197-6	159.97	SET247-6	time	SET297-6	time
SET148-6	time	SET198-6	time	SET248-6	time	SET298-6	time
SET149-6	time	SET199-6	time	SET249-6	time	SET299-6	time
SET150-6	time	SET200-6	time	SET250-6	time	SET300-6	time
SET151-6	time	SET201-6	time	SET251-6	time	SET301-6	time
SET152-6	8.03	SET202-6	time	SET252-6	time	SET302-6	time
SET153-6	time	SET203-6	1.78	SET253-6	time	SET303-6	time
SET154-6	time	SET204-6	9.38	SET254-6	time	SET304-6	time
SET155-6	time	SET205-6	time	SET255-6	time	SET305-6	time
SET156-6	time	SET206-6	time	SET256-6	time	SET306-6	time
SET157-6	time	SET207-6	time	SET257-6	time	SET307-6	time
SET158-6	1.88	SET208-6	time	SET258-6	time	SET308-6	time
SET159-6	time	SET209-6	time	SET259-6	time	SET309-6	time
SET160-6	time	SET210-6	time	SET260-6	time	SET310-6	time
SET161-6	time	SET211-6	time	SET261-6	time	SET311-6	time
SET162-6	time	SET212-6	time	SET262-6	time	SET312-6	time
SET163-6	time	SET213-6	time	SET263-6	time	SET313-6	time
SET164-6	time	SET214-6	time	SET264-6	time	SET314-6	time
SET165-6	time	SET215-6	time	SET265-6	time	SET315-6	time
SET166-6	122.14	SET216-6	time	SET266-6	time	SET316-6	time
SET167-6	time	SET217-6	time	SET267-6	time	SET317-6	time
SET168-6	time	SET218-6	time	SET268-6	time	SET318-6	time
SET169-6	time	SET219-6	time	SET269-6	time	SET319-6	time
SET170-6	time	SET220-6	time	SET270-6	time	SET320-6	time
SET171-6	time	SET221-6	time	SET271-6	time	SET321-6	time
SET172-6	time	SET222-6	time	SET272-6	time	SET322-6	time
SET173-6	time	SET223-6	time	SET273-6	time	SET323-6	time
SET174-6	time	SET224-6	time	SET274-6	time	SET324-6	time
SET175-6	time	SET225-6	time	SET275-6	time	SET325-6	time
SET176-6	time	SET226-6	time	SET276-6	time	SET326-6	time
SET177-6	time	SET227-6	time	SET277-6	time	SET327-6	time
SET178-6	time	SET228-6	time	SET278-6	time	SET328-6	time
SET179-6	time	SET229-6	time	SET279-6	time	SET329-6	time
SET180-6	time	SET230-6	time	SET280-6	time	SET330-6	time
SET181-6	time	SET231-6	time	SET281-6	time	SET331-6	time
SET182-6	time	SET232-6	time	SET282-6	time	SET332-6	time
SET183-6	time	SET233-6	time	SET283-6	time	SET333-6	time
SET184-6	5.62	SET234-6	time	SET284-6	time	SET334-6	time
SET185-6	time	SET235-6	40.36	SET285-6	time	SET335-6	time
SET186-6	time	SET236-6	41.07	SET286-6	time	SET336-6	time
SET187-6	time	SET237-6	time	SET287-6	time	SET337-6	time
SET188-6	time	SET238-6	time	SET288-6	time	SET338-6	time
SET189-6	time	SET239-6	time	SET289-6	time	SET339-6	time
SET190-6	time	SET240-6	time	SET290-6	time	SET340-6	time
SET191-6	time	SET241-6	time	SET291-6	time	SET341-6	time
SET192-6	time	SET242-6	2.00	SET292-6	time	SET342-6	time
SET193-6	time	SET243-6	time	SET293-6	time	SET343-6	time
SET194-6	time	SET244-6	time	SET294-6	time	SET344-6	time
SET195-6	time	SET245-6	time	SET295-6	time	SET345-6	time
SET196-6	159.58	SET246-6	time	SET296-6	0.95	SET346-6	time

SET347-6	time	SET397-6	time	SET447-6	time	SET497-6	time
SET348-6	time	SET398-6	time	SET448-6	time	SET498-6	time
SET349-6	time	SET399-6	time	SET449-6	time	SET499-6	time
SET350-6	time	SET400-6	time	SET450-6	time	SET500-6	time
SET351-6	time	SET401-6	time	SET451-6	time	SET501-6	time
SET352-6	time	SET402-6	time	SET452-6	time	SET502-6	time
SET353-6	time	SET403-6	time	SET453-6	time	SET503-6	time
SET354-6	time	SET404-6	time	SET454-6	time	SET504-6	time
SET355-6	time	SET405-6	time	SET455-6	time	SET505-6	time
SET356-6	time	SET406-6	time	SET456-6	time	SET506-6	53.41
SET357-6	time	SET407-6	time	SET457-6	time	SET507-6	100.37
SET358-6	time	SET408-6	time	SET458-6	time	SET508-6	time
SET359-6	time	SET409-6	time	SET459-6	time	SET509-6	time
SET360-6	time	SET410-6	time	SET460-6	time	SET510-6	187.26
SET361-6	time	SET411-6	62.99	SET461-6	time	SET511-6	time
SET362-6	time	SET412-6	time	SET462-6	time	SET512-6	time
SET363-6	time	SET413-6	time	SET463-6	time	SET513-6	time
SET364-6	time	SET414-6	time	SET464-6	time	SET514-6	time
SET365-6	time	SET415-6	time	SET465-6	time	SET515-6	time
SET366-6	time	SET416-6	time	SET466-6	time	SET516-6	510.68
SET367-6	time	SET417-6	time	SET467-6	time	SET517-6	560.16
SET368-6	time	SET418-6	time	SET468-6	time	SET518-6	time
SET369-6	time	SET419-6	time	SET469-6	time	SET519-6	time
SET370-6	time	SET420-6	time	SET470-6	time	SET520-6	time
SET371-6	time	SET421-6	time	SET471-6	time	SET521-6	time
SET372-6	time	SET422-6	time	SET472-6	time	SET522-6	time
SET373-6	time	SET423-6	time	SET473-6	time	SET523-6	time
SET374-6	time	SET424-6	time	SET474-6	time	SET524-6	time
SET375-6	time	SET425-6	time	SET475-6	time	SET525-6	time
SET376-6	time	SET426-6	time	SET476-6	time	SET526-6	time
SET377-6	time	SET427-6	time	SET477-6	time	SET527-6	time
SET378-6	time	SET428-6	time	SET478-6	time	SET528-6	time
SET379-6	time	SET429-6	time	SET479-6	220.02	SET529-6	time
SET380-6	time	SET430-6	time	SET480-6	time	SET530-6	time
SET381-6	time	SET431-6	time	SET481-6	time	SET531-6	time
SET382-6	time	SET432-6	time	SET482-6	time	SET532-6	time
SET383-6	time	SET433-6	time	SET483-6	time	SET533-6	time
SET384-6	time	SET434-6	time	SET484-6	time	SET534-6	time
SET385-6	time	SET435-6	time	SET485-6	time	SET535-6	time
SET386-6	time	SET436-6	time	SET486-6	time	SET536-6	time
SET387-6	time	SET437-6	time	SET487-6	time	SET537-6	time
SET388-6	time	SET438-6	time	SET488-6	time	SET538-6	time
SET389-6	time	SET439-6	time	SET489-6	time	SET539-6	time
SET390-6	time	SET440-6	time	SET490-6	time	SET540-6	time
SET391-6	time	SET441-6	time	SET491-6	time	SET541-6	time
SET392-6	time	SET442-6	time	SET492-6	time	SET542-6	time
SET393-6	time	SET443-6	time	SET493-6	time	SET543-6	time
SET394-6	time	SET444-6	time	SET494-6	time	SET544-6	time
SET395-6	time	SET445-6	time	SET495-6	time	SET545-6	time
SET396-6	time	SET446-6	time	SET496-6	time	SET546-6	time

SET547-6	time	SYN002-1.050	84.94	SYN014-1	time	SYN072-1	0.16
SET548-6	time	SYN003-1.002	0.05	SYN014-2	0.19	SYN073-1	0.05
SET549-6	time	SYN003-1.003	0.09	SYN015-1	time	SYN074-1	13.12
SET550-6	time	SYN003-1.004	0.09	SYN015-2	248.84	SYN075-1	2.84
SET551-6	time	SYN003-1.005	0.12	SYN028-1	0.05	SYN076-1	time
SET552-6	time	SYN003-1.006	0.13	SYN029-1	0.04	SYN077-1	time
SET553-6	582.27	SYN003-1.007	0.15	SYN030-1	0.07	SYN078-1	term
SET554-6	time	SYN003-1.008	0.16	SYN031-1	0.10	SYN079-1	0.04
SET555-6	time	SYN003-1.009	0.22	SYN032-1	0.07	SYN080-1	0.08
SET556-6	time	SYN003-1.010	0.21	SYN033-1	0.05	SYN081-1	0.06
SET557-6	time	SYN004-1.002	0.05	SYN034-1	0.07	SYN082-1	0.14
SET558-6	1.66	SYN004-1.003	0.06	SYN035-1	0.04	SYN083-1	0.04
SET559-6	374.72	SYN004-1.004	0.08	SYN036-1	time	SYN084-1	sos
SET560-6	time	SYN004-1.005	0.08	SYN036-2	time	SYN085-1.005	0.04
SET561-6	386.50	SYN004-1.006	0.10	SYN036-3	2.50	SYN085-1.010	0.10
SET562-6	532.91	SYN004-1.007	0.12	SYN036-4	time	SYN085-1.020	0.10
SET563-6	149.57	SYN004-1.008	0.11	SYN037-1	48.20	SYN086-1.005	sos
SET564-6	125.46	SYN004-1.009	0.10	SYN037-2	0.38	SYN086-1.010	sos
SET565-6	366.31	SYN004-1.010	0.17	SYN038-1	2.58	SYN086-1.020	sos
SET566-6	148.61	SYN005-1.002	0.07	SYN039-1	1.67	SYN087-1.005	sos
SET567-6	time	SYN005-1.003	0.07	SYN040-1	0.05	SYN087-1.010	sos
SET568-6	time	SYN005-1.004	0.05	SYN041-1	0.03	SYN087-1.020	sos
SET569-6	time	SYN005-1.005	0.08	SYN044-1	0.08	SYN088-1.005	0.10
SET570-6	time	SYN005-1.006	0.08	SYN045-1	0.05	SYN088-1.010	0.79
SET571-6	time	SYN005-1.007	0.07	SYN046-1	0.04	SYN088-1.020	memory
SET572-6	time	SYN005-1.008	0.10	SYN047-1	0.04	SYN089-1.005	0.45
SYN001-1.001	0.04	SYN005-1.009	0.10	SYN048-1	0.03	SYN089-1.010	2.83
SYN001-1.002	0.04	SYN005-1.010	0.09	SYN049-1	0.06	SYN089-1.020	27.12
SYN001-1.003	0.12	SYN006-1	0.08	SYN050-1	0.05	SYN090-1.005	0.35
SYN001-1.004	0.13	SYN007-1.001	0.03	SYN051-1	0.08	SYN090-1.010	0.83
SYN001-1.005	0.34	SYN007-1.002	0.03	SYN052-1	0.04	SYN090-1.020	1.95
SYN001-1.006	0.97	SYN007-1.003	0.16	SYN053-1	0.06	SYN091-1.005	sos
SYN001-1.007	3.04	SYN007-1.004	0.79	SYN054-1	0.07	SYN091-1.010	time
SYN001-1.008	13.18	SYN007-1.005	3.61	SYN055-1	0.10	SYN091-1.020	time
SYN001-1.009	72.00	SYN007-1.006	17.09	SYN056-1	sos	SYN092-1.005	sos
SYN001-1.010	587.64	SYN007-1.007	80.17	SYN057-1	0.04	SYN092-1.010	sos
SYN001-1.011	time	SYN008-1	0.06	SYN058-1	0.06	SYN092-1.020	time
SYN001-1.012	time	SYN009-1	0.10	SYN059-1	sos	SYN093-1.005	1.21
SYN001-1.013	time	SYN010-1.002	0.06	SYN060-1	0.04	SYN093-1.010	11.93
SYN002-1.000	0.02	SYN010-1.005	0.10	SYN061-1	0.04	SYN093-1.020	179.61
SYN002-1.002	0.05	SYN010-1.010	0.33	SYN062-1	0.07	SYN094-1.005	0.85
SYN002-1.004	0.08	SYN010-2.002	0.09	SYN063-1	0.08	SYN094-1.010	2.43
SYN002-1.006	0.12	SYN010-2.005	0.27	SYN064-1	0.02	SYN094-1.020	7.85
SYN002-1.008	0.25	SYN010-2.010	1.13	SYN065-1	0.07	SYN095-1.005	0.55
SYN002-1.010	0.31	SYN010-3.002	0.15	SYN066-1	0.05	SYN095-1.010	3.01
SYN002-1.012	1.16	SYN010-3.005	0.60	SYN067-1	time	SYN095-1.020	20.86
SYN002-1.016	2.12	SYN010-3.010	2.71	SYN068-1	0.07	SYN096-1.005	0.45
SYN002-1.020	3.82	SYN011-1	0.05	SYN069-1	0.10	SYN096-1.010	0.98
SYN002-1.030	12.17	SYN012-1	2.05	SYN070-1	0.16	SYN096-1.020	2.24
SYN002-1.040	31.06	SYN013-1	time	SYN071-1	0.07	SYN097-1.005	3.55

SYN097-1.010	42.19	SYN124-1	2.92	SYN174-1	2.85	SYN224-1	2.97
SYN097-1.020	time	SYN125-1	3.64	SYN175-1	2.86	SYN225-1	4.14
SYN098-1.005	2.33	SYN126-1	3.40	SYN176-1	2.87	SYN226-1	2.82
SYN098-1.010	6.93	SYN127-1	3.49	SYN177-1	3.51	SYN227-1	3.70
SYN098-1.020	26.23	SYN128-1	3.58	SYN178-1	4.36	SYN228-1	3.87
SYN099-1.005	1.11	SYN129-1	3.70	SYN179-1	3.53	SYN229-1	2.91
SYN099-1.010	7.22	SYN130-1	2.56	SYN180-1	4.29	SYN230-1	2.89
SYN099-1.020	69.57	SYN131-1	2.54	SYN181-1	3.76	SYN231-1	2.90
SYN100-1.005	0.90	SYN132-1	2.51	SYN182-1	3.53	SYN232-1	2.83
SYN100-1.010	2.19	SYN133-1	2.50	SYN183-1	3.30	SYN233-1	2.90
SYN100-1.020	5.37	SYN134-1	2.90	SYN184-1	2.48	SYN234-1	3.98
SYN101-1.005	6.79	SYN135-1	2.90	SYN185-1	2.44	SYN235-1	3.90
SYN101-1.010	34.41	SYN136-1	2.85	SYN186-1	2.97	SYN236-1	2.82
SYN101-1.020	215.82	SYN137-1	3.01	SYN187-1	2.98	SYN237-1	2.59
SYN101-2.005	time	SYN138-1	3.27	SYN188-1	3.17	SYN238-1	2.55
SYN101-2.010	memory	SYN139-1	4.65	SYN189-1	3.23	SYN239-1	2.59
SYN101-2.020	sos	SYN140-1	4.48	SYN190-1	3.43	SYN240-1	2.57
SYN101-3.005	time	SYN141-1	3.61	SYN191-1	3.31	SYN241-1	2.57
SYN101-3.010	time	SYN142-1	4.56	SYN192-1	3.46	SYN242-1	2.56
SYN101-3.020	time	SYN143-1	4.50	SYN193-1	3.56	SYN243-1	2.68
SYN102-1.005	4.83	SYN144-1	4.61	SYN194-1	3.49	SYN244-1	2.64
SYN102-1.010	11.04	SYN145-1	2.44	SYN195-1	3.47	SYN245-1	2.63
SYN102-1.020	23.88	SYN146-1	2.51	SYN196-1	2.75	SYN246-1	2.65
SYN102-2.005	time	SYN147-1	2.74	SYN197-1	2.63	SYN247-1	2.58
SYN102-2.010	time	SYN148-1	3.17	SYN198-1	2.70	SYN248-1	2.82
SYN102-2.020	time	SYN149-1	2.52	SYN199-1	2.72	SYN249-1	2.84
SYN102-3.005	memory	SYN150-1	3.15	SYN200-1	2.81	SYN250-1	4.10
SYN102-3.010	memory	SYN151-1	3.05	SYN201-1	3.74	SYN251-1	2.91
SYN102-3.020	memory	SYN152-1	3.02	SYN202-1	4.38	SYN252-1	4.44
SYN103-1	2.55	SYN153-1	3.60	SYN203-1	3.44	SYN253-1	4.60
SYN104-1	2.44	SYN154-1	3.43	SYN204-1	4.45	SYN254-1	4.62
SYN105-1	2.66	SYN155-1	3.63	SYN205-1	4.40	SYN255-1	3.13
SYN106-1	2.63	SYN156-1	5.06	SYN206-1	3.93	SYN256-1	3.08
SYN107-1	3.18	SYN157-1	3.59	SYN207-1	3.37	SYN257-1	2.50
SYN108-1	3.00	SYN158-1	3.70	SYN208-1	3.53	SYN258-1	2.51
SYN109-1	3.06	SYN159-1	4.13	SYN209-1	3.40	SYN259-1	2.58
SYN110-1	4.07	SYN160-1	3.47	SYN210-1	3.40	SYN260-1	2.49
SYN111-1	3.12	SYN161-1	3.59	SYN211-1	3.30	SYN261-1	2.60
SYN112-1	2.80	SYN162-1	3.63	SYN212-1	3.23	SYN262-1	3.00
SYN113-1	3.24	SYN163-1	4.26	SYN213-1	3.51	SYN263-1	3.87
SYN114-1	2.52	SYN164-1	2.48	SYN214-1	3.47	SYN264-1	3.26
SYN115-1	3.65	SYN165-1	2.61	SYN215-1	3.52	SYN265-1	2.90
SYN116-1	3.34	SYN166-1	4.52	SYN216-1	2.74	SYN266-1	4.20
SYN117-1	3.48	SYN167-1	2.59	SYN217-1	2.68	SYN267-1	3.49
SYN118-1	2.52	SYN168-1	2.94	SYN218-1	2.76	SYN268-1	3.51
SYN119-1	2.48	SYN169-1	2.95	SYN219-1	2.96	SYN269-1	4.31
SYN120-1	2.56	SYN170-1	3.43	SYN220-1	2.95	SYN270-1	4.08
SYN121-1	2.88	SYN171-1	4.20	SYN221-1	2.95	SYN271-1	4.12
SYN122-1	2.90	SYN172-1	2.54	SYN222-1	2.94	SYN272-1	3.98
SYN123-1	2.79	SYN173-1	2.87	SYN223-1	2.85	SYN273-1	3.56

SYN274-1	2.50	SYN287-1	2.52	SYN300-1	3.79	TOP007-1	time
SYN275-1	2.56	SYN288-1	2.55	SYN301-1	3.32	TOP008-1	time
SYN276-1	2.43	SYN289-1	2.84	TOP001-1	time	TOP009-1	time
SYN277-1	2.53	SYN290-1	2.70	TOP001-2	time	TOP010-1	time
SYN278-1	2.56	SYN291-1	2.47	TOP002-1	time	TOP011-1	time
SYN279-1	2.91	SYN292-1	2.48	TOP002-2	0.08	TOP012-1	time
SYN280-1	2.52	SYN293-1	2.78	TOP003-1	time	TOP013-1	time
SYN281-1	2.75	SYN294-1	2.76	TOP003-2	time	TOP014-1	time
SYN282-1	2.45	SYN295-1	2.49	TOP004-1	1.25	TOP015-1	time
SYN283-1	2.60	SYN296-1	2.64	TOP004-2	0.29	TOP016-1	time
SYN284-1	2.83	SYN297-1	2.56	TOP005-1	time	TOP017-1	time
SYN285-1	3.30	SYN298-1	3.80	TOP005-2	0.52	TOP018-1	time
SYN286-1	2.71	SYN299-1	3.73	TOP006-1	time	TOP019-1	time

References

[1] W. McCune. OTTER 3.0 Reference Manual and Guide. Tech. report, Argonne National Laboratory, Argonne, Ill., 1993.

[2] C.B. Suttner and G. Sutcliffe. The TPTP Problem Library (TPTP v1.1.1 - TR Date 7.7.94). Technical Report AR-94-03, Institut für Informatik, Technische Universität München, Munich, Germany; Technical Report 93/11, Department of Computer Science, James Cook University, Townsville, Australia, 1994.