Table 1: Computational Results for Feasible Problems on an IBM quad using WSSMP solver (Part 1). *=terminated with `unknown` status.

	Before		After						CPU
	Preprocessing		Preprocessing		Relative	Relative	Primal		Time
Name	Rows	Cols	Rows	Cols	Infeas.	Comp.	Objective	Iters	(secs)
25fv47	821	1876	788	1843	7.7e-12	6.0e-12	5.501846e+03	26	2.55
80bau3b	2262	12061	2140	11066	1.2e-11	7.6e-07	9.872244e+05	37	6.85
adlittle	56	138	55	137	7.3e-14	3.4e-11	2.254950e+05	12	0.05
afiro	27	51	27	51	1.0e-11	7.2e-15	-4.647531e+02	8	0.01
agg	488	615	390	477	5.0e-09	2.7e-12	-3.599177e+07	19	0.92
agg2	516	758	514	750	2.9e-11	3.9e-08	-2.023925e+07	23	1.74
agg3	516	758	514	750	2.3e-11	6.9e-14	1.031212e+07	22	1.71
bandm	305	472	240	395	1.3e-12	3.5e-12	-1.586280e+02	17	0.35
beaconfd	173	295	86	171	5.7e-13	2.4e-15	3.359249e+04	11	0.11
blend	74	114	71	111	1.1e-12	4.1e-15	-3.081215e+01	10	0.06
bnl1	643	1586	610	1491	2.5e-11	3.2e-08	1.977630e+03	39	1.73
bnl2	2324	4486	1964	4008	2.3e-09	8.0e-08	1.811237e+03	35	7.80
boeing1	351	726	331	697	4.2e-11	2.2e-11	-3.352136e+02	20	0.63
boeing2	166	305	125	264	2.8e-07	8.6e-09	-3.150187e+02	14	0.16
bore3d	233	334	81	138	8.4e-14	4.8e-13	1.373080e+03	16	0.11
brandy *	220	303	133	238	1.3e-03	7.9e-07	1.518511e+03	18	0.32
capri	271	482	241	436	2.9e-11	6.2e-13	2.690013e+03	19	0.33
cycle	1903	3371	1420	2773	1.8e-09	4.9e-11	-5.226393e+00	23	3.65
czprob	929	3562	671	2779	3.7e-10	1.1e-07	2.185197e+06	26	0.99
d2q06c	2171	5831	2132	5728	1.3e-07	2.5e-07	1.227842e+05	29	8.54
d6cube	415	6184	403	5443	1.3e-09	1.7e-09	3.154917e+02	16	3.88
degen2	444	757	444	757	3.1e-13	1.1e-11	-1.435178e+03	12	0.80
degen3	1503	2604	1503	2604	4.0e-10	9.4e-11	-9.872940e+02	30	16.35
dfl001	6071	12230	5984	12143	1.6e-11	3.0e-07	1.126640e+07	39	223.94
e226	223	472	198	429	8.3e-13	9.0e-10	-2.586493e+01	18	0.35
etamacro	400	816	334	669	2.1e-14	3.1e-08	-7.557152e+02	25	0.60
fffff800	524	1028	322	826	1.0e-06	6.9e-08	5.556796e+05	27	1.29
finnis	497	1064	438	935	3.6e-12	1.1e-08	1.727911e+05	25	0.62
fit1d	24	1049	24	1049	2.1e-13	1.4e-09	-9.146378e+03	18	0.78
fit1p	627	1677	627	1677	8.2e-08	4.6e-08	9.146378e+03	17	1.48
fit2d	25	10524	25	10524	5.3e-14	2.4e-08	-6.846429e+04	23	11.00
fit2p	3000	13525	3000	13525	5.4e-08	1.8e-06	6.846441e+04	19	9.05
forplan	161	492	121	447	3.3e-06	1.4e-08	-6.642190e+02	23	0.56
ganges	1309	1706	1113	1510	5.8e-07	9.7e-09	-1.095857e+05	17	1.27
gfrd-pnc	616	1160	590	1134	9.5e-15	2.2e-11	6.902236e+06	18	0.39
greenbea *	2392	5598	1933	4164	1.8e-05	1.2e-08	-7.255525e+07	48	9.96
greenbeb *	2392	5598	1932	4154	1.0e-05	3.7e-09	-4.302260e+06	39	8.42
grow15	300	645	300	645	3.3e-05	1.1e-13	-1.068709e+08	20	0.71
grow22	440	946	440	946	2.0e-06	5.3e-15	-1.608343e+08	23	1.21
grow7	140	301	140	301	9.6e-10	1.5e-09	-4.778781e+07	17	0.28
israel	174	316	174	316	2.4e-12	1.3e-08	-8.966448e+05	21	1.10
kb2	43	68	43	68	4.2e-10	1.8e-16	-1.749900e+03	13	0.04
lotfi	153	366	133	346	5.9e-10	1.4e-15	-2.526471e+01	15	0.14
maros-r7	3136	9408	2152	7440	2.3e-11	1.3e-08	1.497185e+06	18	38.87
maros	846	1966	655	1437	9.1e-09	7.0e-11	-5.806374e+04	20	1.25
mod2 *	34774	66409	28761	56348	1.4e-05	3.5e-05	4.663264e+07	58	162.69

Table 2: Computational Results for Feasible Problems on an IBM quad using WSSMP solver (Part 2). *=terminated with `unknown` status.

Name	Before Preprocessing Rows	Cols	After Preprocessing Rows	Cols	Relative Infeas.	Relative Comp.	Primal Objective	Iters	CPU Time (secs)
modszk1	687	1620	665	1599	2.1e-08	2.0e-12	3.206198e+02	22	0.93
NEMSafm	334	2348	322	1402	1.1e-14	1.7e-11	-6.792374e+03	17	0.33
NEMScem	651	1712	479	1540	2.2e-10	1.9e-08	8.977233e+04	19	0.52
NEMSemm1	3945	75352	3230	41048	4.8e-15	3.6e-06	5.129614e+05	64	240.84
NEMSemm2	6943	48878	4526	26754	1.6e-10	2.2e-06	5.810806e+05	37	16.40
NEMSpmm1	2372	8903	2227	7145	4.9e-08	6.3e-08	3.274158e+05	38	16.03
NEMSpmm2	2301	8734	2081	7944	3.6e-08	7.1e-07	2.917948e+05	42	18.15
NEMSwrld	7138	28550	5621	23706	1.1e-13	7.0e-07	-2.603091e+02	52	74.27
nesm	662	3105	654	2922	2.7e-12	1.4e-07	1.407604e+07	27	2.18
NL	7039	15325	6665	14680	2.3e-12	1.1e-06	1.229265e+06	38	34.97
pds-10	16558	49932	15648	48780	3.0e-10	3.8e-06	2.672717e+10	36	187.12
perold	625	1506	593	1374	8.0e-07	2.8e-11	-9.380755e+03	34	2.07
pilot.ja	940	2267	810	1804	2.3e-05	7.7e-08	-6.113136e+03	32	4.49
pilot	1441	4860	1368	4543	2.3e-07	4.5e-07	-5.574897e+02	32	24.17
pilot.we	722	2928	701	2814	1.8e-11	1.2e-07	-2.720107e+06	46	2.76
pilot4	410	1123	396	1022	6.1e-05	2.1e-08	-2.581139e+03	47	2.73
pilot87	2030	6680	1971	6373	7.1e-08	1.0e-07	3.017104e+02	32	64.42
pilotnov	975	2446	848	2117	5.1e-07	4.7e-09	-4.497276e+03	17	2.16
radex	16	26	15	25	5.5e-13	6.2e-14	3.584229e+05	8	0.02
recipe	91	204	64	123	1.6e-10	5.2e-15	-2.666160e+02	9	0.04
sc105	105	163	104	162	9.1e-09	3.8e-16	-5.220206e+01	10	0.04
sc205	205	317	203	315	1.0e-11	1.1e-13	-5.220206e+01	11	0.08
sc50a	50	78	49	77	2.2e-11	1.0e-15	-6.457508e+01	8	0.01
sc50b	50	78	48	76	2.8e-09	7.4e-11	-7.000000e+01	6	0.02
scagr25	471	671	469	669	2.1e-12	2.2e-13	-1.475343e+07	18	0.37
scagr7	129	185	127	183	1.6e-13	7.9e-09	-2.331390e+06	14	0.08
scfxm1	330	600	305	568	3.2e-07	1.6e-09	1.841676e+04	17	0.41
scfxm2	660	1200	610	1136	2.4e-08	5.3e-13	3.666026e+04	20	0.92
scfxm3	990	1800	915	1704	4.8e-08	3.6e-12	5.490125e+04	20	1.32
scorpion	388	466	340	412	1.2e-13	7.7e-16	1.878125e+03	12	0.20
scrs8	490	1275	421	1199	6.9e-13	1.1e-08	9.042970e+02	22	0.49
scsd1	77	760	77	760	6.7e-15	1.5e-15	8.666667e+00	9	0.11
scsd6	147	1350	147	1350	9.8e-15	2.8e-09	5.050000e+01	12	0.24
scsd8	397	2750	397	2750	5.0e-15	9.2e-08	9.050001e+02	11	0.49
sctap1	300	660	284	644	5.8e-14	2.8e-13	1.412250e+03	16	0.28
sctap2	1090	2500	1033	2443	1.6e-15	7.7e-15	1.724807e+03	14	1.01
sctap3	1480	3340	1408	3268	7.3e-16	1.3e-13	1.424000e+03	15	1.43
seba	515	1036	448	901	8.5e-13	6.5e-14	1.571160e+04	14	4.73
share1b	117	253	112	248	2.3e-08	3.4e-10	-7.658932e+04	19	0.14
share2b	96	162	96	162	2.0e-11	1.4e-14	-4.157322e+02	17	0.11
shell	536	1777	487	1451	2.8e-13	1.6e-11	1.208825e+09	21	0.50
ship04l	402	2166	292	1905	6.0e-14	2.8e-13	1.793325e+06	13	0.39
ship04s	402	1506	216	1281	1.0e-11	7.0e-09	1.798715e+06	13	0.26
ship08l	778	4363	470	3121	5.7e-14	8.9e-11	1.909055e+06	16	0.73
ship08s	778	2467	276	1604	3.1e-13	3.0e-11	1.920098e+06	12	0.27

Table 3: Computational Results for Feasible Problems on an IBM quad using WSSMP solver (Part 3). *=terminated with `unknown` status.

	Before Preprocessing		After Preprocessing						CPU
					Relative	Relative	Primal		Time
Name	Rows	Cols	Rows	Cols	Infeas.	Comp.	Objective	Iters	(secs)
ship12l	1151	5533	610	4171	4.9e-14	2.0e-07	1.470188e+06	16	1.00
ship12s	1151	2869	340	1943	5.5e-14	3.6e-13	1.489236e+06	13	0.36
sierra	1227	2735	1212	2705	4.8e-16	8.0e-10	1.539436e+07	21	1.50
stair	356	614	356	532	1.6e-08	2.7e-09	-2.512670e+02	14	0.68
standata	359	1274	314	796	3.2e-15	5.4e-09	1.257700e+03	13	0.18
standgub	361	1383	314	796	3.2e-15	5.4e-09	1.257700e+03	13	0.18
standmps	467	1274	422	1192	1.8e-14	3.2e-15	1.406017e+03	26	0.61
stocfor1	117	165	102	150	4.2e-13	3.6e-11	-4.113198e+04	12	0.07
stocfor2	2157	3045	1980	2868	8.1e-11	1.0e-07	-3.902441e+04	20	2.17
stocfor3	16675	23541	15362	22228	2.2e-09	6.1e-08	-3.997678e+04	31	25.82
truss	1000	8806	1000	8806	1.4e-13	1.8e-09	4.588158e+05	20	3.12
tuff	333	628	257	567	4.7e-09	2.9e-13	2.921478e-01	20	0.67
vtp.base	198	346	72	111	1.5e-08	2.6e-09	1.298315e+05	11	0.05
wood1p	244	2595	171	1718	7.9e-09	1.1e-09	1.442902e+00	21	5.46
woodw	1098	8418	708	5364	7.9e-11	1.2e-10	1.304476e+00	31	3.64
world *	34506	67147	28653	58028	3.5e-03	2.9e-05	6.940119e+07	70	197.49

Table 4: Computational Results for Infeasible Problems on IBM quad using WSSMP solver *=terminated with `unknown` status; †=infeasibility detected during preprocessing.

	Before Preprocessing		After Preprocessing		Relative	Relative	Primal		CPU Time
Name	Rows	Cols	Rows	Cols	Infeas.	Comp.	Objective	Iters	(secs)
bgdbg1	348	629	249	509	1.8e+02	4.0e+00	4.155802e+01	6	0.13
bgetam	400	816	334	669	8.4e+01	1.2e+01	-3.571285e+04	7	0.26
bgindy	2671	10880	2657	10866	4.0e+01	3.7e+00	9.876475e+08	8	8.32
bgprtr	20	40	20	40	1.9e-01	3.3e-01	8.008869e+06	6	0.00
box1	231	261	231	261	5.9e-02	1.0e+00	5.775809e+02	4	0.04
ceria3d	3576	4400	3576	4400	7.7e-02	7.7e-02	-9.958799e-01	12	10.68
chemcom	288	744	288	744	4.9e+02	1.9e+00	3.908033e+05	8	0.18
cplex1	3005	5224	3005	5224	5.0e+07	9.2e+00	-2.701093e+09	5	1.12
cplex2 *	224	378	224	378	8.4e-07	4.7e-05	6.552435e-01	45	0.55
ex72a	197	215	197	215	4.2e-01	1.0e+00	4.579770e+02	4	0.04
ex73a	193	211	193	211	4.1e-01	1.0e+00	4.449144e+02	4	0.04
forest6	66	131	66	131	9.2e+01	6.5e-01	4.139797e+05	11	0.04
galenet	8	14	5	9	4.7e+01	9.4e-01	0.000000e+00	5	0.00
gosh	3792	13455	3479	12502	1.7e+01	1.0e+01	4.187400e+02	14	16.00
greenbea-i	2393	5596	1933	4153	1.1e+04	7.7e+00	2.433071e+03	10	2.84
itest2	9	13	9	13	2.0e+01	4.6e-01	0.000000e+00	5	0.03
itest6	11	17	10	15	5.0e+05	1.1e+00	8.730497e+05	5	0.01
klein1	54	108	54	108	3.1e+03	9.2e+00	0.000000e+00	32	0.21
klein2	477	531	477	531	3.4e+04	4.0e+02	0.000000e+00	30	11.17
mondou2	312	604	259	467	8.0e+00	4.0e+00	6.313890e+08	8	0.09
pang	361	741	333	685	1.1e-02	3.6e+00	2.108126e+04	20	0.57
pilot4i	410	1123	396	1022	1.3e+04	6.4e-01	-1.359148e+03	32	1.95
qual	323	464	305	441	2.2e+00	4.8e-03	-5.835719e+04	35	0.74
reactor	318	808	269	602	9.9e+00	6.4e-01	-3.285658e+05	9	0.16
refinery	323	464	303	439	3.5e+01	6.4e-01	-5.227856e+04	20	0.48
vol1	323	464	305	441	2.7e+00	5.9e-02	-6.099720e+04	31	0.64

Table 5: Computational Results for Large Problems on IBM quad using WSSMP solver *=terminated with `unknown` status; †=infeasibility detected during preprocessing.

	Before Preprocessing		After Preprocessing		Relative	Relative	Primal		CPU Time
Name	Rows	Cols	Rows	Cols	Infeas.	Comp.	Objective	Iters	(secs)
bas1lp	5411	9825	5410	9824	1.2e-13	1.0e-13	3.630000e+02	11	337.80
baxter	27441	30733	23871	30122	2.5e-09	2.7e-07	5.600727e+07	29	465.58
dbir1	18804	45775	14032	38763	1.7e-03	2.2e-07	-8.106706e+06	28	1830.09
fxm3_16 *	41340	85575	38630	82558	1.4e-02	5.6e-04	1.844682e+04	62	177.19
nug12 *	3192	8856	3192	8856	1.6e-10	2.0e-06	5.228949e+02	43	499.10
pds-20	33874	108175	32287	106180	2.7e-10	9.0e-06	2.382185e+10	53	814.99
seymour_lp	4944	6316	4827	6082	1.3e-12	1.2e-07	4.038465e+02	17	336.12