	Sol.	GLB	ELI	RRD	EVB3	μ_{R1}	μ_{R2}	μ_{R3}
Rou12	235528	202272	200024	224278	201337	208685	220991	227986
Rou15	354210	298548	296705	324869	297958	306833	323141	324900
Rou20	725522	599948	597045	643346	n.a.	615549	642448	631680
Scr12	31410	27858	4727	29872	n.a.	11117	24230	27183
Scr15	51140	44737	10355	49264	n.a.	17046	42094	40821
Scr20	110030	86766	16113	95113	n.a.	28535	83026	59780
Tai12a	224416	195918	193124	n.a.	195673	203595	215377	220938
Tai15a	388214	327501	325019	n.a.	327289	333437	349476	347908
Tai17a	491812	412722	408910	n.a.	410076	419619	441238	435675
Tai20a	703482	580674	575831	n.a.	n.a.	591994	618720	606228
Tai25a	1167256	962417	956657	n.a.	n.a.	974004	–	–
Tai30a	1818146	1504688	1500407	n.a.	n.a.	1529135	–	–
Tho30	149936	90578	119254	100784	n.a.	125972	–	–

QAPLIB instances 2

	Sol.	GLB	ELI	RRD	EVB3	μ_{R1}	μ_{R2}	μ_{R3}
Car10ga	4954	3586	4079	n.a.	4541	4435	4853	4919
Car10gb	8082	6139	7211	n.a.	7617	7600	7960	8035
Car10gc	8649	7030	7837	n.a.	8233	8208	8561	8612
Car10gd	8843	6840	8006	n.a.	8364	8319	8666	8780
Car10ge	9571	7627	8672	n.a.	8987	8910	9349	9473
Car10pa	32835	28722	-4813	n.a.	n.a.	1583	12492	30359
Car10pb	14282	12546	-14944	n.a.	n.a.	-5782	9934	13361
Car10pc	14919	12296	-17140	n.a.	n.a.	-8040	2473	13655
Esc08a	2	0	-2	0	n.a.	-2	0	2
Esc08b	8	1	-2	2	n.a.	-2	3	6
Esc08c	32	13	8	22	n.a.	9	18	30
Esc08d	6	2	-2	2	n.a.	-2	2	6
Esc08e	2	0	-6	0	n.a.	-6	-4	1
Esc08f	18	9	8	18	n.a.	9	13	18
Nug05	50	50	47	50	50	49	50	50
Nug06	86	84	69	86	70	74	85	86
Nug07	148	137	125	148	130	132	144	148
Nug08	214	186	167	204	174	179	197	210

Numerical Results for old instances

	Sol.	μ_{R1}	μ_{R2}	μ_{R3}
Nug12C	578	492	534	545
Nug15C	1150	1012	1075	1081
Nug20C	2570	2292	2396	2335
Nug30C	6124	5424	5648	–

Instances for which symmetry is destroyed

	n	Sol.	GLB	(ir)	μ_{R1}	(ir)	μ_{R2}	(ir)	μ_{R3}	(ir)
Nug12	12	578	493		486		530		547	
Nug12.1	11	586	496	(0.6)	514	(5.4)	551	(3.9)	574	(4.9)
Nug12.2	11	578	495	(0.4)	514	(5.4)	553	(4.3)	571	(4.3)
Nug12.5	11	578	494	(0.2)	524	(7.8)	552	(4.1)	570	(4.2)
Nug12.6	11	586	499	(1.2)	530	(9.0)	561	(5.8)	578	(5.6)
Nug15	15	1150	963		1009		1060		1075	
Nug15.1	14	1150	967	(0.4)	1049	(4.0)	1104	(4.2)	1114	(3.6)
Nug15.2	14	1166	974	(1.1)	1076	(6.6)	1124	(6.0)	1135	(5.6)
Nug15.3	14	1200	987	(2.5)	1075	(6.5)	1133	(6.9)	1145	(6.5)
Nug15.6	14	1152	968	(0.5)	1056	(4.7)	1106	(4.3)	1118	(4.0)
Nug15.7	14	1166	979	(1.7)	1052	(4.3)	1112	(5.2)	1125	(4.7)
Nug15.8	14	1168	983	(2.1)	1063	(5.4)	1118	(5.5)	1133	(5.4)
Nug20	20	2570	2057		2281		2385		2326	
Nug20.1	19	2628	2082	(1.2)	2358	(3.4)	2449	(2.7)	2414	(3.8)
Nug20.2	19	2600	2130	(3.6)	2401	(5.3)	2489	(4.4)	2464	(6.0)
Nug20.3	19	2588	2067	(0.5)	2331	(2.2)	2428	(1.8)	2392	(2.8)
Nug20.6	19	2570	2064	(0.3)	2341	(2.6)	2431	(1.9)	2403	(3.3)
Nug20.7	19	2634	2105	(2.3)	2387	(4.6)	2479	(3.9)	2436	(4.7)
Nug20.8	19	2636	2127	(3.4)	2381	(4.4)	2485	(4.2)	2438	(4.8)

Results for first level in branching tree