problem	container size	box types	# boxes	OKP nodes	OPP calls	OPP nodes	opt. boxes	opt. sol.
beasley1	(10, 10)	5	10	19	1	1	5	164
beasley2	(10, 10)	7	17	5	0	0	5	230
beasley3	(10, 10)	10	21	25	6	36	7	247
beasley4	(15, 10)	5	7	1	0	0	6	268
beasley5	(15, 10)	7	14	1	0	0	6	358
beasley6	(15, 10)	10	15	15	5	5	7	289
beasley7	(20, 20)	5	8	0	0	0	8	430
beasley8	(20, 20)	7	13	53	23	301	8	834
beasley9	(20, 20)	10	18	3	0	0	11	924
beasley10	(30, 30)	5	13	1	0	0	6	1452
beasley11	(30, 30)	7	15	36	10	16	9	1688
beasley12	(30, 30)	10	22	48	14	105	9	1865
hadchr3	(30, 30)	7	7	1	0	0	5	1178
hadchr7	(30, 30)	10	22	48	14	105	9	1865
hadchr8	(40, 40)	10	10	7	0	0	6	2517
hadchr11	(30, 30)	15	15	30	1	1	5	1270
hadchr12	(40, 40)	15	15	5	0	0	7	2949
wang20	(70, 40)	20	42	794	176	1003	8	2726
chrwhi62	(40, 70)	20	62	356	102	7991	10	1860
3	(40, 70)	20	62	356	102	7991	10	1860
3s	(40, 70)	20	62	757	166	3050	8	2726
A1	(50, 60)	20	62	935	254	19283	11	2020
A1s	(50, 60)	20	62	4291	504	8156	7	2956
A2	(60, 60)	20	53	267	70	35747	11	2615
A2s	(60, 60)	20	53	8598	2365	143002	8	3535
CHL2	(62, 55)	10	19	688	317	225011	9	2326
CHL2s	(62, 55)	10	19	1419	557	158450	10	3336
CHL3	(157, 121)	15	35	0	0	0	35	5283
CHL3s	(157, 121)	15	35	0	0	0	35	7402
CHL4	(207, 231)	15	27	0	0	0	27	8998
CHL4s	(207, 231)	15	27	0	0	0	27	13932
CHL5	(30, 20)	10	18	363	194	57115	11	589
cgcut1	(15, 10)	7	16	14	1	1	8	244
cgcut2	(40, 70)	10	23				12	2892
cgcut3	(40, 70)	20	62	356	102	7991	10	1860
gcut01	(250, 250)	10	10	33	0	0	3	48368
gcut02	(250, 250)	20	20	519	51	78	6	59798
gcut03	(250, 250)	30	30	2234	235	742	6	61275
gcut04	(250, 250)	50	50	72159	18316	145057	4	61380
gcut05	(500, 500)	10	10	52	13	13	5	195582
gcut06	(500, 500)	20	20	278	22	22	4	236305
gcut07	(500, 500)	30	30	852	124	152	4	240143
gcut08	(500, 500)	50	50	55485	9037	15970	4	245758
gcut09	(1000,1000)	10	10	12	2	8	5	939600
gcut10	(1000,1000)	20	20	335	31	40	5	937349
gcut11	(1000,1000)	30	30	1616	212	463	6	969709
gcut12	(1000,1000)	50	50	8178	593	1236	5	979521
gcut13	(3000,3000)	32	32					$\geq$8622498 $\leq$9000000
okp1	(100, 100)	15	50	3244	661	35523	11	27718
okp2	(100, 100)	30	30	23626	7310	8721	11	22502
okp3	(100, 100)	30	30	8233	816	921	11	24019
okp4	(100, 100)	33	61	1458	15	50	10	32893
okp5	(100, 100)	29	97	5733	643	13600	8	27923