

Table 1: A performance comparison between the ϵ -constraint and BOBLB&B&C algorithms.

Instance	n	m	ϵ -constraint	B&B		EPB B&C (ISC) ([A])		Cut&Branch	
			Time(s)	Time(s)	#Nodes	Time(s)	#Nodes	Time(s)	#Nodes
10_3_1-1000_1001-2000_2box_1_1	110	110	7.34	18.62	5991	16.58	859	21.12	5991
10_3_1-1000_1001-2000_2box_1_10	110	110	4.7	10.07	2759	8.52	561	11.82	2759
10_3_1-1000_1001-2000_2box_1_2	110	110	8.18	13.43	3621	14.92	825	16.08	3621
10_3_1-1000_1001-2000_2box_1_3	110	110	5.47	14.7	4267	10.09	541	17.67	4263
10_3_1-1000_1001-2000_2box_1_4	110	110	7.21	17.13	4565	16.19	912	18.26	4565
10_3_1-1000_1001-2000_2box_1_5	110	110	4.41	7.03	1733	6.69	440	8.66	1733
10_3_1-1000_1001-2000_2box_1_6	110	110	7.22	18.26	5845	16.48	985	20.55	5845
10_3_1-1000_1001-2000_2box_1_7	110	110	4.65	6.07	1551	7.14	519	7.78	1551
10_3_1-1000_1001-2000_2box_1_8	110	110	6.3	11.64	2773	27.01	977	13.93	2773
10_3_1-1000_1001-2000_2box_1_9	110	110	6.71	17.48	5033	40.85	1094	20.05	5033
10_3_1-1000_1001-2000_random_1_1	110	110	4.77	4.38	1307	6.32	730	5.72	1307
10_3_1-1000_1001-2000_random_1_10	110	110	4.59	4.0	1107	3.97	400	5.04	1107
10_3_1-1000_1001-2000_random_1_2	110	110	5.22	4.53	1391	7.75	754	5.71	1391
10_3_1-1000_1001-2000_random_1_3	110	110	3.73	4.48	1111	3.96	455	5.56	1111
10_3_1-1000_1001-2000_random_1_4	110	110	5.72	6.55	2217	5.55	416	8.28	2209
10_3_1-1000_1001-2000_random_1_5	110	110	4.61	5.23	1497	6.55	510	6.69	1495
10_3_1-1000_1001-2000_random_1_6	110	110	5.41	5.12	1439	9.31	749	6.28	1439
10_3_1-1000_1001-2000_random_1_7	110	110	3.73	4.91	1165	5.59	435	6.18	1165
10_3_1-1000_1001-2000_random_1_8	110	110	4.35	3.71	965	5.63	716	4.74	935
10_3_1-1000_1001-2000_random_1_9	110	110	4.33	5.07	1551	7.45	429	6.32	1547
10_3_1-1000_1001-2000_spheredown_1_1	110	110	3.37	2.44	333	1.91	177	3.41	333
10_3_1-1000_1001-2000_spheredown_1_10	110	110	3.96	4.1	923	5.93	394	5.35	921
10_3_1-1000_1001-2000_spheredown_1_2	110	110	4.78	6.34	1821	7.43	608	7.91	1821
10_3_1-1000_1001-2000_spheredown_1_3	110	110	3.53	3.88	667	5.23	335	4.92	667
10_3_1-1000_1001-2000_spheredown_1_4	110	110	4.42	6.12	2057	6.97	503	7.14	2057
10_3_1-1000_1001-2000_spheredown_1_5	110	110	6.29	8.12	2413	6.5	488	9.52	2413
10_3_1-1000_1001-2000_spheredown_1_6	110	110	4.85	5.77	1445	5.91	535	7.08	1445
10_3_1-1000_1001-2000_spheredown_1_7	110	110	4.15	4.65	1165	6.21	345	5.69	1165
10_3_1-1000_1001-2000_spheredown_1_8	110	110	5.42	7.93	2075	9.75	615	9.68	2075
10_3_1-1000_1001-2000_spheredown_1_9	110	110	3.33	2.34	369	1.93	211	3.27	369
10_3_1-1000_1001-2000_sphereup_1_1	110	110	4.08	3.61	717	4.35	303	5.11	717
10_3_1-1000_1001-2000_sphereup_1_10	110	110	4.57	6.13	1587	14.36	609	7.71	1587
10_3_1-1000_1001-2000_sphereup_1_2	110	110	4.11	3.49	745	5.3	354	4.84	745
10_3_1-1000_1001-2000_sphereup_1_3	110	110	3.97	4.22	885	5.74	448	5.09	885
10_3_1-1000_1001-2000_sphereup_1_4	110	110	4.0	4.62	1229	6.51	455	5.89	1229
10_3_1-1000_1001-2000_sphereup_1_5	110	110	4.98	4.04	1189	10.53	389	5.94	1187
10_3_1-1000_1001-2000_sphereup_1_6	110	110	5.5	7.16	1765	6.99	694	8.4	1757
10_3_1-1000_1001-2000_sphereup_1_7	110	110	3.26	2.91	387	3.94	242	3.89	387
10_3_1-1000_1001-2000_sphereup_1_8	110	110	3.42	3.42	709	6.57	506	4.58	709
10_3_1-1000_1001-2000_sphereup_1_9	110	110	4.01	5.43	1439	6.93	556	6.56	1439
10_3_1-10_11-20_2box_1_1	110	110	5.02	11.73	3623	10.0	668	13.65	3623
10_3_1-10_11-20_2box_1_10	110	110	4.32	8.31	2621	8.19	662	10.35	2621
10_3_1-10_11-20_2box_1_2	110	110	3.87	8.17	2701	7.48	740	9.6	2701
10_3_1-10_11-20_2box_1_3	110	110	4.98	13.22	4287	14.34	1458	15.32	4283
10_3_1-10_11-20_2box_1_4	110	110	3.59	6.28	1531	15.64	998	7.99	1531
10_3_1-10_11-20_2box_1_5	110	110	3.97	7.61	2137	19.46	1457	9.56	2137
10_3_1-10_11-20_2box_1_6	110	110	4.41	7.18	2081	6.03	387	8.64	2081
10_3_1-10_11-20_2box_1_7	110	110	4.0	5.9	1729	5.95	493	7.58	1727
10_3_1-10_11-20_2box_1_8	110	110	4.47	11.0	3357	17.52	1351	13.13	3357
10_3_1-10_11-20_2box_1_9	110	110	5.2	7.66	2743	9.51	829	9.79	2743
10_3_1-10_11-20_random_1_1	110	110	2.94	3.08	713	5.85	593	3.8	713
10_3_1-10_11-20_random_1_10	110	110	3.54	4.09	1301	4.42	468	5.22	1301
10_3_1-10_11-20_random_1_2	110	110	3.96	4.27	1249	5.67	582	5.66	1219
10_3_1-10_11-20_random_1_3	110	110	4.24	4.84	1871	6.85	1075	6.49	1871
10_3_1-10_11-20_random_1_4	110	110	3.11	3.12	713	5.37	455	4.39	713
10_3_1-10_11-20_random_1_5	110	110	3.48	5.45	1727	9.83	1212	6.58	1727
10_3_1-10_11-20_random_1_6	110	110	2.81	0.73	1	0.01	1	0.38	1
10_3_1-10_11-20_random_1_7	110	110	3.31	3.07	697	3.61	283	3.93	697
10_3_1-10_11-20_random_1_8	110	110	2.89	2.27	299	3.21	253	3.51	291
10_3_1-10_11-20_random_1_9	110	110	4.44	4.5	1287	6.75	519	6.47	1283
10_3_1-10_11-20_spheredown_1_1	110	110	4.4	5.94	1685	9.5	825	7.36	1685
10_3_1-10_11-20_spheredown_1_10	110	110	3.14	3.55	755	5.69	462	4.71	755
10_3_1-10_11-20_spheredown_1_2	110	110	3.1	3.63	813	8.37	734	4.6	813
10_3_1-10_11-20_spheredown_1_3	110	110	3.88	5.86	1609	8.21	892	7.33	1609
10_3_1-10_11-20_spheredown_1_4	110	110	4.08	5.42	1737	6.68	630	6.45	1737
10_3_1-10_11-20_spheredown_1_5	110	110	3.58	3.84	1067	3.65	293	4.95	1065
10_3_1-10_11-20_spheredown_1_6	110	110	3.6	3.19	609	3.72	243	4.15	609
10_3_1-10_11-20_spheredown_1_7	110	110	3.5	3.41	803	1.91	195	4.27	803
10_3_1-10_11-20_spheredown_1_8	110	110	3.18	2.05	213	1.78	117	3.08	213
10_3_1-10_11-20_spheredown_1_9	110	110	3.59	4.63	1231	6.16	486	6.4	1229
10_3_1-10_11-20_sphereup_1_1	110	110	3.53	2.5	357	1.82	148	3.22	357
10_3_1-10_11-20_sphereup_1_10	110	110	3.29	2.52	349	2.92	234	3.28	349
10_3_1-10_11-20_sphereup_1_2	110	110	3.25	2.86	617	2.17	240	3.6	617
10_3_1-10_11-20_sphereup_1_3	110	110	3.17	2.09	197	2.32	193	3.05	197
10_3_1-10_11-20_sphereup_1_4	110	110	3.06	2.46	405	2.66	306	3.23	405
10_3_1-10_11-20_sphereup_1_5	110	110	2.89	3.32	823	3.32	282	4.16	813
10_3_1-10_11-20_sphereup_1_6	110	110	2.84	1.97	103	1.13	104	2.54	103
10_3_1-10_11-20_sphereup_1_7	110	110	3.29	2.73	499	4.23	343	3.92	499
10_3_1-10_11-20_sphereup_1_8	110	110	3.32	3.18	751	3.14	262	4.3	751
10_3_1-10_11-20_sphereup_1_9	110	110	2.76	0.74	1	0.01	1	0.39	1
10_3_1000-2000_3000-4000_2box_1_1	110	110	3.9	2.18	199	1.9	138	2.69	199
10_3_1000-2000_3000-4000_2box_1_10	110	110	3.53	1.72	67	0.71	59	2.24	67
10_3_1000-2000_3000-4000_2box_1_2	110	110	3.74	1.91	89	1.59	76	2.79	89
10_3_1000-2000_3000-4000_2box_1_3	110	110	3.27	1.6	17	0.19	19	2.34	17
10_3_1000-2000_3000-4000_2box_1_4	110	110	3.63	2.03	155	1.27	86	2.48	155
10_3_1000-2000_3000-4000_2box_1_5	110	110	4.34	3.01	531	2.18	191	3.52	531
10_3_1000-2000_3000-4000_2box_1_6	110	110	3.34	1.75	67	0.35	22	2.59	67
10_3_1000-2000_3000-4000_2box_1_7	110	110	3.95	1.82	69	1.25	70	2.53	69
10_3_1000-2000_3000-4000_2box_1_8	110	110	3.68	2.97	509	2.7	204	3.69	509
10_3_1000-2000_3000-4000_2box_1_9	110	110	3.92	1.78	17	0.3	17	2.25	17
10_3_1000-2000_3000-4000_random_1_1	110	110	3.35	1.62	17	0.2	17	2.3	17
10_3_1000-2000_3000-4000_random_1_10	110	110	3.06	1.61	19	0.17	19	2.12	19
10_3_1000-2000_3000-4000_random_1_2	110	110	3.03	1.77	77	0.14	17	2.3	77
10_3_1000-2000_3000-4000_random_1_3	110	110	3.32	1.59	17	0.22	16	2.13	17
10_3_1000-2000_3000-4000_random_1_4	110	110	2.99	1.61	11	0.1	11	2.09	11
10_3_1000-2000_3000-4000_random_1_5	110	110	3.05	1.78	63	0.98	63	2.28	63
10_3_1000-2000_3000-4000_random_1_6	110	110	3.27	1.62	17	0.19	17	2.11	17

10_3_1000-2000_3000-4000_random_1_7	110	110	2.71	0.74	1	0.01	1	0.35	1
10_3_1000-2000_3000-4000_random_1_8	110	110	3.17	1.59	11	0.18	13	2.09	11
10_3_1000-2000_3000-4000_random_1_9	110	110	2.72	1.55	11	0.08	11	2.08	11
10_3_1000-2000_3000-4000_spheredown_1_1	110	110	3.13	1.6	19	0.21	19	2.1	19
10_3_1000-2000_3000-4000_spheredown_1_10	110	110	3.1	1.6	19	0.13	19	2.09	19
10_3_1000-2000_3000-4000_spheredown_1_2	110	110	3.09	1.6	19	0.16	13	2.19	19
10_3_1000-2000_3000-4000_spheredown_1_3	110	110	2.9	1.6	17	0.09	11	2.13	17
10_3_1000-2000_3000-4000_spheredown_1_4	110	110	3.0	1.58	15	0.11	15	2.1	15
10_3_1000-2000_3000-4000_spheredown_1_5	110	110	3.83	1.83	77	1.19	78	3.24	77
10_3_1000-2000_3000-4000_spheredown_1_6	110	110	3.18	1.82	19	0.26	18	2.37	19
10_3_1000-2000_3000-4000_spheredown_1_7	110	110	3.35	1.59	17	0.14	16	2.1	17
10_3_1000-2000_3000-4000_spheredown_1_8	110	110	3.05	1.61	15	0.14	13	2.24	15
10_3_1000-2000_3000-4000_spheredown_1_9	110	110	3.06	1.6	15	0.2	15	2.15	15
10_3_1000-2000_3000-4000_sphereup_1_1	110	110	3.2	1.6	19	0.12	11	2.18	19
10_3_1000-2000_3000-4000_sphereup_1_10	110	110	3.76	1.62	15	0.21	15	2.34	15
10_3_1000-2000_3000-4000_sphereup_1_2	110	110	3.06	1.64	29	0.38	30	2.46	29
10_3_1000-2000_3000-4000_sphereup_1_3	110	110	3.1	1.62	19	0.18	19	2.2	19
10_3_1000-2000_3000-4000_sphereup_1_4	110	110	3.08	1.57	7	0.05	7	2.29	7
10_3_1000-2000_3000-4000_sphereup_1_5	110	110	2.75	1.61	9	0.07	7	2.33	9
10_3_1000-2000_3000-4000_sphereup_1_6	110	110	3.33	1.6	19	0.28	20	2.34	19
10_3_1000-2000_3000-4000_sphereup_1_7	110	110	3.2	1.6	19	0.16	15	2.34	19
10_3_1000-2000_3000-4000_sphereup_1_8	110	110	3.19	1.66	33	0.42	30	2.41	33
10_3_1000-2000_3000-4000_sphereup_1_9	110	110	2.74	1.57	5	0.04	5	2.27	5
12_3_1-1000_1001-2000_2box_1_1	156	156	9.23	38.47	6785	98.42	2294	45.71	6785
12_3_1-1000_1001-2000_2box_1_10	156	156	8.02	29.46	5331	38.6	1527	34.73	5331
12_3_1-1000_1001-2000_2box_1_2	156	156	10.57	39.54	9035	62.58	2613	44.25	9035
12_3_1-1000_1001-2000_2box_1_3	156	156	8.01	29.49	5625	88.57	2011	32.63	5625
12_3_1-1000_1001-2000_2box_1_4	156	156	7.57	46.46	8739	30.01	958	52.32	8739
12_3_1-1000_1001-2000_2box_1_5	156	156	9.92	59.2	12111	410.67	5349	64.74	12111
12_3_1-1000_1001-2000_2box_1_6	156	156	12.37	63.26	12757	109.67	2870	68.14	12757
12_3_1-1000_1001-2000_2box_1_7	156	156	11.81	48.25	10971	57.8	2160	51.37	10971
12_3_1-1000_1001-2000_2box_1_8	156	156	8.51	38.35	7125	49.12	1659	45.13	7125
12_3_1-1000_1001-2000_2box_1_9	156	156	12.33	58.58	11485	155.97	3298	65.45	11485
12_3_1-1000_1001-2000_random_1_1	156	156	4.45	6.02	1009	9.21	717	6.76	1009
12_3_1-1000_1001-2000_random_1_10	156	156	6.46	10.85	3105	26.86	2074	13.7	3105
12_3_1-1000_1001-2000_random_1_2	156	156	5.9	12.05	2831	60.97	1429	15.5	2829
12_3_1-1000_1001-2000_random_1_3	156	156	5.95	7.25	1521	12.88	706	8.88	1521
12_3_1-1000_1001-2000_random_1_4	156	156	8.19	11.4	3107	39.15	1482	15.09	3107
12_3_1-1000_1001-2000_random_1_5	156	156	6.4	9.37	2493	11.93	751	11.05	2493
12_3_1-1000_1001-2000_random_1_6	156	156	5.47	11.73	3751	15.34	873	14.15	3751
12_3_1-1000_1001-2000_random_1_7	156	156	6.64	11.62	2797	53.25	2498	13.67	2775
12_3_1-1000_1001-2000_random_1_8	156	156	4.21	7.44	1739	10.86	535	8.59	1731
12_3_1-1000_1001-2000_random_1_9	156	156	5.14	8.26	2221	14.24	569	10.66	2221
12_3_1-1000_1001-2000_spheredown_1_1	156	156	10.52	26.97	7025	163.87	2863	31.55	7025
12_3_1-1000_1001-2000_spheredown_1_10	156	156	9.52	14.85	3261	23.6	1609	18.78	3251
12_3_1-1000_1001-2000_spheredown_1_2	156	156	5.11	16.67	3317	24.07	835	18.98	3297
12_3_1-1000_1001-2000_spheredown_1_3	156	156	6.71	18.69	4085	21.61	1017	22.86	4085
12_3_1-1000_1001-2000_spheredown_1_4	156	156	7.55	19.31	4143	44.9	1794	23.8	4133
12_3_1-1000_1001-2000_spheredown_1_5	156	156	4.99	14.31	2807	14.96	716	16.27	2807
12_3_1-1000_1001-2000_spheredown_1_6	156	156	7.12	18.99	3641	29.94	1662	21.83	3633
12_3_1-1000_1001-2000_spheredown_1_7	156	156	8.99	18.96	3951	40.61	2479	21.77	3951
12_3_1-1000_1001-2000_spheredown_1_8	156	156	5.52	10.85	1915	19.01	1144	12.85	1915
12_3_1-1000_1001-2000_spheredown_1_9	156	156	6.67	23.93	4569	32.52	988	27.49	4545
12_3_1-1000_1001-2000_sphereup_1_1	156	156	4.71	13.05	2483	13.03	607	14.07	2483
12_3_1-1000_1001-2000_sphereup_1_10	156	156	5.39	12.42	2869	16.94	768	15.09	2865
12_3_1-1000_1001-2000_sphereup_1_2	156	156	4.75	6.96	1479	8.81	584	8.21	1479
12_3_1-1000_1001-2000_sphereup_1_3	156	156	4.79	14.1	2735	17.15	769	16.31	2735
12_3_1-1000_1001-2000_sphereup_1_4	156	156	4.36	12.63	3025	15.17	780	14.93	3025
12_3_1-1000_1001-2000_sphereup_1_5	156	156	5.18	11.24	2705	16.06	823	12.35	2705
12_3_1-1000_1001-2000_sphereup_1_6	156	156	8.18	22.64	4393	31.13	1356	25.12	4381
12_3_1-1000_1001-2000_sphereup_1_7	156	156	9.19	17.47	4099	38.4	1307	21.33	4095
12_3_1-1000_1001-2000_sphereup_1_8	156	156	5.35	11.86	2353	16.37	626	14.45	2343
12_3_1-1000_1001-2000_sphereup_1_9	156	156	8.74	18.06	4211	40.09	1555	21.48	4211
12_3_1-10_11-20_2box_1_1	156	156	4.59	11.13	2629	10.2	523	12.92	2629
12_3_1-10_11-20_2box_1_10	156	156	5.22	21.69	4591	36.96	1299	24.05	4591
12_3_1-10_11-20_2box_1_2	156	156	6.61	34.4	8887	36.79	1568	39.43	8887
12_3_1-10_11-20_2box_1_3	156	156	5.91	28.71	7381	30.28	2029	33.77	7381
12_3_1-10_11-20_2box_1_4	156	156	7.66	46.09	12477	52.23	2316	50.94	12477
12_3_1-10_11-20_2box_1_5	156	156	5.8	72.16	15527	61.34	2770	80.49	15527
12_3_1-10_11-20_2box_1_6	156	156	4.89	24.19	6147	27.83	1391	29.5	6147
12_3_1-10_11-20_2box_1_7	156	156	7.05	66.15	16573	53.33	2146	74.43	16573
12_3_1-10_11-20_2box_1_8	156	156	6.35	54.15	12685	38.81	2058	61.44	12685
12_3_1-10_11-20_2box_1_9	156	156	5.22	43.57	8853	31.52	1272	47.33	8853
12_3_1-10_11-20_random_1_1	156	156	3.9	8.86	2599	21.21	1601	11.12	2599
12_3_1-10_11-20_random_1_10	156	156	4.77	16.21	4311	15.4	996	19.24	4311
12_3_1-10_11-20_random_1_2	156	156	4.8	10.08	2915	13.25	961	11.45	2897
12_3_1-10_11-20_random_1_3	156	156	5.58	14.73	3771	20.76	1439	17.23	3765
12_3_1-10_11-20_random_1_4	156	156	4.46	16.23	4227	19.57	1174	18.97	4227
12_3_1-10_11-20_random_1_5	156	156	4.32	10.47	3373	24.67	1501	13.7	3369
12_3_1-10_11-20_random_1_6	156	156	4.61	15.78	5023	17.61	1513	18.68	5023
12_3_1-10_11-20_random_1_7	156	156	3.66	7.1	1897	8.2	804	8.87	1891
12_3_1-10_11-20_random_1_8	156	156	3.76	10.41	2733	17.39	1376	11.44	2733
12_3_1-10_11-20_random_1_9	156	156	3.92	7.63	2353	23.01	1746	9.49	2353
12_3_1-10_11-20_spheredown_1_1	156	156	4.44	28.05	7217	19.04	1296	32.53	7217
12_3_1-10_11-20_spheredown_1_10	156	156	4.19	8.6	1851	15.62	847	10.26	1851
12_3_1-10_11-20_spheredown_1_2	156	156	4.95	17.17	3849	28.01	1579	21.33	3849
12_3_1-10_11-20_spheredown_1_3	156	156	5.34	19.93	5067	18.55	1262	22.4	5067
12_3_1-10_11-20_spheredown_1_4	156	156	4.13	7.36	1445	11.91	695	9.23	1445
12_3_1-10_11-20_spheredown_1_5	156	156	3.52	8.71	2057	19.93	1370	10.9	2057
12_3_1-10_11-20_spheredown_1_6	156	156	5.62	27.92	6825	43.81	2485	32.24	6825
12_3_1-10_11-20_spheredown_1_7	156	156	4.44	17.81	4111	22.99	1593	20.35	4093
12_3_1-10_11-20_spheredown_1_8	156	156	5.31	29.16	7147	31.09	2170	31.18	7127
12_3_1-10_11-20_spheredown_1_9	156	156	4.09	9.07	2251	13.33	561	11.91	2251
12_3_1-10_11-20_sphereup_1_1	156	156	3.66	9.23	2323	13.08	628	10.73	2323
12_3_1-10_11-20_sphereup_1_10	156	156	3.45	6.51	1359	7.77	524	7.37	1353
12_3_1-10_11-20_sphereup_1_2	156	156	3.75	9.54	2069	8.65	739	10.3	2069
12_3_1-10_11-20_sphereup_1_3	156	156	4.14	12.09	2885	27.48	1499	14.62	2883
12_3_1-10_11-20_sphereup_1_4	156	156	3.53	5.62	1107	8.08	448	7.49	1107
12_3_1-10_11-20_sphereup_1_5	156	156	4.09	15.39	3333	15.37	952	17.16	3333
12_3_1-10_11-20_sphereup_1_6	156	156	3.5	4.61	893	6.44	347	6.08	891
12_3_1-10_11-20_sphereup_1_7	156	156	3.51	5.04	1241	6.3	540	5.97	1241
12_3_1-10_11-20_sphereup_1_8	156	156	5.25	28.05	7159	21.36	1564	31.55	7159
12_3_1-10_11-20_sphereup_1_9	156	156	4.07	24.65	7515	17.23	952	28.58	7515

12_3_1000-2000_3000-4000_2box_1_1	156	156	3.91	4.6	685	9.03	433	5.93	685
12_3_1000-2000_3000-4000_2box_1_10	156	156	3.69	3.58	389	3.44	149	4.35	389
12_3_1000-2000_3000-4000_2box_1_2	156	156	3.62	2.76	331	3.27	178	3.69	331
12_3_1000-2000_3000-4000_2box_1_3	156	156	3.86	3.06	355	3.73	158	4.07	355
12_3_1000-2000_3000-4000_2box_1_4	156	156	4.29	3.72	495	3.9	197	4.62	495
12_3_1000-2000_3000-4000_2box_1_5	156	156	4.32	4.15	681	3.57	207	5.28	681
12_3_1000-2000_3000-4000_2box_1_6	156	156	4.36	3.17	337	2.77	144	4.1	337
12_3_1000-2000_3000-4000_2box_1_7	156	156	3.73	2.49	229	2.4	141	3.25	229
12_3_1000-2000_3000-4000_2box_1_8	156	156	4.0	3.03	343	4.49	191	3.92	343
12_3_1000-2000_3000-4000_2box_1_9	156	156	3.41	2.83	237	3.01	139	3.72	237
12_3_1000-2000_3000-4000_random_1_1	156	156	3.17	1.68	23	0.6	21	2.41	23
12_3_1000-2000_3000-4000_random_1_10	156	156	3.07	1.64	21	0.25	21	2.36	21
12_3_1000-2000_3000-4000_random_1_2	156	156	3.15	1.82	55	1.23	55	2.71	55
12_3_1000-2000_3000-4000_random_1_3	156	156	3.25	1.59	9	0.25	9	2.29	9
12_3_1000-2000_3000-4000_random_1_4	156	156	3.59	1.68	23	1.0	23	2.45	23
12_3_1000-2000_3000-4000_random_1_5	156	156	3.16	1.98	165	1.55	71	2.82	165
12_3_1000-2000_3000-4000_random_1_6	156	156	3.02	1.66	23	0.23	21	2.35	23
12_3_1000-2000_3000-4000_random_1_7	156	156	3.21	1.96	117	1.51	116	2.7	117
12_3_1000-2000_3000-4000_random_1_8	156	156	2.71	0.73	1	0.01	1	0.38	1
12_3_1000-2000_3000-4000_random_1_9	156	156	2.88	1.64	29	0.3	29	2.4	29
12_3_1000-2000_3000-4000_spheredown_1_1	156	156	3.14	1.81	95	1.16	97	2.61	95
12_3_1000-2000_3000-4000_spheredown_1_10	156	156	3.21	1.64	23	1.26	23	2.57	23
12_3_1000-2000_3000-4000_spheredown_1_2	156	156	3.24	1.76	47	0.83	47	2.49	47
12_3_1000-2000_3000-4000_spheredown_1_3	156	156	2.92	1.63	21	0.42	12	2.38	21
12_3_1000-2000_3000-4000_spheredown_1_4	156	156	3.09	1.62	21	0.39	21	2.38	21
12_3_1000-2000_3000-4000_spheredown_1_5	156	156	3.49	2.11	107	2.34	106	2.99	107
12_3_1000-2000_3000-4000_spheredown_1_6	156	156	3.23	1.67	23	0.37	15	2.37	23
12_3_1000-2000_3000-4000_spheredown_1_7	156	156	3.18	1.89	117	1.35	118	2.66	117
12_3_1000-2000_3000-4000_spheredown_1_8	156	156	3.01	1.63	23	0.22	23	2.32	23
12_3_1000-2000_3000-4000_spheredown_1_9	156	156	3.52	1.68	23	0.63	23	2.55	23
12_3_1000-2000_3000-4000_sphereup_1_1	156	156	3.43	1.75	41	0.87	41	2.55	41
12_3_1000-2000_3000-4000_sphereup_1_10	156	156	2.69	0.72	1	0.01	1	0.38	1
12_3_1000-2000_3000-4000_sphereup_1_2	156	156	2.84	1.62	23	0.28	23	2.39	23
12_3_1000-2000_3000-4000_sphereup_1_3	156	156	3.04	1.62	19	0.21	19	2.39	19
12_3_1000-2000_3000-4000_sphereup_1_4	156	156	3.29	1.61	19	0.39	21	2.35	19
12_3_1000-2000_3000-4000_sphereup_1_5	156	156	3.04	2.21	139	2.84	139	2.99	139
12_3_1000-2000_3000-4000_sphereup_1_6	156	156	3.19	1.78	93	0.98	94	2.57	93
12_3_1000-2000_3000-4000_sphereup_1_7	156	156	3.08	1.59	9	0.08	9	2.31	9
12_3_1000-2000_3000-4000_sphereup_1_8	156	156	3.16	1.73	45	0.78	46	2.49	45
12_3_1000-2000_3000-4000_sphereup_1_9	156	156	3.16	1.68	35	0.68	23	2.41	35
14_3_1-1000_1001-2000_2box_1_1	210	210	10.71	110.29	15815	307.44	3199	118.58	15815
14_3_1-1000_1001-2000_2box_1_10	210	210	21.71	186.12	25231	1046.3	8534	209.78	25231
14_3_1-1000_1001-2000_2box_1_2	210	210	12.35	132.87	19689	226.43	3677	147.2	19689
14_3_1-1000_1001-2000_2box_1_3	210	210	21.57	214.34	29847	949.8	9991	238.42	29847
14_3_1-1000_1001-2000_2box_1_4	210	210	18.16	121.3	17673	1071.64	9505	130.87	17673
14_3_1-1000_1001-2000_2box_1_5	210	210	7.33	104.91	15571	181.64	2414	114.45	15571
14_3_1-1000_1001-2000_2box_1_6	210	210	15.71	171.74	24611	309.55	4380	191.85	24611
14_3_1-1000_1001-2000_2box_1_7	210	210	14.58	208.94	25629	391.84	5796	224.28	25629
14_3_1-1000_1001-2000_2box_1_8	210	210	15.45	152.7	19931	271.05	5849	175.08	19931
14_3_1-1000_1001-2000_2box_1_9	210	210	12.79	173.54	25291	404.08	5056	193.24	25291
14_3_1-1000_1001-2000_random_1_1	210	210	10.8	38.24	7527	110.26	2166	43.84	7527
14_3_1-1000_1001-2000_random_1_10	210	210	8.27	37.84	6383	77.2	2360	42.5	6377
14_3_1-1000_1001-2000_random_1_2	210	210	6.26	20.35	3927	50.7	1557	23.63	3915
14_3_1-1000_1001-2000_random_1_3	210	210	8.39	33.26	5075	150.78	3040	37.13	5055
14_3_1-1000_1001-2000_random_1_4	210	210	7.15	22.01	3565	46.88	1758	25.92	3551
14_3_1-1000_1001-2000_random_1_5	210	210	8.16	27.97	5331	55.6	2211	31.19	5319
14_3_1-1000_1001-2000_random_1_6	210	210	5.2	16.45	3021	39.7	2053	20.42	3009
14_3_1-1000_1001-2000_random_1_7	210	210	5.08	29.02	4089	29.7	837	31.71	4059
14_3_1-1000_1001-2000_random_1_8	210	210	7.68	20.64	4749	45.43	2564	26.07	4745
14_3_1-1000_1001-2000_random_1_9	210	210	8.87	34.77	5703	77.0	1992	39.73	5679
14_3_1-1000_1001-2000_spheredown_1_1	210	210	9.9	49.49	8879	133.45	3541	55.21	8879
14_3_1-1000_1001-2000_spheredown_1_10	210	210	12.86	91.17	13475	191.06	3986	102.78	13475
14_3_1-1000_1001-2000_spheredown_1_2	210	210	10.97	94.9	13463	180.4	2879	106.82	13463
14_3_1-1000_1001-2000_spheredown_1_3	210	210	10.76	63.39	9183	154.65	2919	71.13	9183
14_3_1-1000_1001-2000_spheredown_1_4	210	210	9.88	46.07	8255	127.05	2532	50.99	8255
14_3_1-1000_1001-2000_spheredown_1_5	210	210	7.88	66.4	9159	54.74	1367	72.39	9145
14_3_1-1000_1001-2000_spheredown_1_6	210	210	12.38	72.79	9931	125.97	2542	80.63	9913
14_3_1-1000_1001-2000_spheredown_1_7	210	210	15.23	69.66	11309	92.75	4063	76.72	11309
14_3_1-1000_1001-2000_spheredown_1_8	210	210	13.11	68.11	9519	148.64	4485	76.76	9513
14_3_1-1000_1001-2000_spheredown_1_9	210	210	11.47	63.12	8585	272.88	3235	71.65	8579
14_3_1-1000_1001-2000_sphereup_1_1	210	210	8.53	62.46	10065	87.73	2962	68.27	10065
14_3_1-1000_1001-2000_sphereup_1_10	210	210	13.61	88.81	10835	102.61	3569	94.42	10831
14_3_1-1000_1001-2000_sphereup_1_2	210	210	11.84	54.94	9341	106.61	2696	60.11	9331
14_3_1-1000_1001-2000_sphereup_1_3	210	210	13.36	56.06	8237	514.0	5554	66.18	8233
14_3_1-1000_1001-2000_sphereup_1_4	210	210	6.69	34.78	5209	61.04	1947	37.76	5109
14_3_1-1000_1001-2000_sphereup_1_5	210	210	8.12	51.95	7801	62.19	2396	58.37	7801
14_3_1-1000_1001-2000_sphereup_1_6	210	210	9.46	50.55	8309	67.89	2298	57.35	8307
14_3_1-1000_1001-2000_sphereup_1_7	210	210	9.61	40.92	7543	113.99	2755	48.68	7541
14_3_1-1000_1001-2000_sphereup_1_8	210	210	9.91	50.75	7751	46.37	1720	59.25	7751
14_3_1-1000_1001-2000_sphereup_1_9	210	210	8.47	53.64	8787	212.2	1818	60.88	8787
14_3_1-10_11-20_2box_1_1	210	210	12.42	149.24	29487	113.11	4721	164.61	29487
14_3_1-10_11-20_2box_1_10	210	210	7.29	93.49	14865	74.5	2074	106.32	14865
14_3_1-10_11-20_2box_1_2	210	210	9.33	152.55	23749	110.13	4116	163.79	23625
14_3_1-10_11-20_2box_1_3	210	210	9.54	181.8	27093	97.17	3213	199.63	27087
14_3_1-10_11-20_2box_1_4	210	210	9.42	187.03	41025	198.17	6471	210.47	41025
14_3_1-10_11-20_2box_1_5	210	210	5.82	59.83	10329	55.59	2425	68.86	10329
14_3_1-10_11-20_2box_1_6	210	210	7.35	110.05	18955	103.77	4219	120.35	18955
14_3_1-10_11-20_2box_1_7	210	210	8.37	179.05	30985	131.73	4546	199.6	30985
14_3_1-10_11-20_2box_1_8	210	210	8.96	139.84	23665	125.21	4988	156.26	23665
14_3_1-10_11-20_2box_1_9	210	210	9.74	174.08	29007	114.65	5283	193.38	29007
14_3_1-10_11-20_random_1_1	210	210	5.33	20.31	5617	26.29	1784	23.97	5617
14_3_1-10_11-20_random_1_10	210	210	5.55	34.98	8191	61.83	2538	40.73	8191
14_3_1-10_11-20_random_1_2	210	210	5.75	51.02	10461	79.74	3588	58.33	10457
14_3_1-10_11-20_random_1_3	210	210	5.03	25.06	5545	60.47	2450	30.94	5545
14_3_1-10_11-20_random_1_4	210	210	5.19	35.01	7797	43.57	2705	38.56	7797
14_3_1-10_11-20_random_1_5	210	210	3.73	21.37	5249	27.15	2027	24.46	5249
14_3_1-10_11-20_random_1_6	210	210	5.41	24.22	5341	37.23	2124	27.0	5341
14_3_1-10_11-20_random_1_7	210	210	8.52	72.98	15057	69.98	3573	86.81	15057
14_3_1-10_11-20_random_1_8	210	210	5.19	24.62	5489	50.61	3007	26.94	5489
14_3_1-10_11-20_random_1_9	210	210	4.22	12.64	3033	20.33	1467	14.61	3033
14_3_1-10_11-20_spheredown_1_1	210	210	5.6	61.95	11095	112.77	5438	69.03	11093
14_3_1-10_11-20_spheredown_1_10	210	210	6.51	92.52	18837	92.09	4866	104.37	18825
14_3_1-10_11-20_spheredown_1_2	210	210	6.78	68.14	11603	123.52	5278	77.97	11603

14_3_1-10_11-20_spheredown_1_3	210	210	5.96	54.58	8345	63.42	3150	60.05	8345
14_3_1-10_11-20_spheredown_1_4	210	210	4.9	44.75	8935	54.18	2203	50.13	8935
14_3_1-10_11-20_spheredown_1_5	210	210	5.88	56.18	10511	41.2	2148	59.68	10511
14_3_1-10_11-20_spheredown_1_6	210	210	5.39	24.88	5211	33.28	1344	27.78	5209
14_3_1-10_11-20_spheredown_1_7	210	210	9.6	90.5	16627	128.06	5278	103.67	16617
14_3_1-10_11-20_spheredown_1_8	210	210	8.34	73.31	13743	99.64	3529	85.23	13743
14_3_1-10_11-20_spheredown_1_9	210	210	4.92	46.44	10381	56.57	4374	49.98	10367
14_3_1-10_11-20_sphereup_1_1	210	210	6.86	34.72	6101	45.09	2326	42.93	6085
14_3_1-10_11-20_sphereup_1_10	210	210	3.72	27.44	5215	42.07	1837	30.01	5215
14_3_1-10_11-20_sphereup_1_2	210	210	5.34	42.45	7033	57.33	2108	46.68	7033
14_3_1-10_11-20_sphereup_1_3	210	210	6.43	73.34	13821	52.98	3231	80.2	13815
14_3_1-10_11-20_sphereup_1_4	210	210	4.64	54.0	8521	95.47	3817	56.23	8521
14_3_1-10_11-20_sphereup_1_5	210	210	5.15	38.9	7669	54.93	2381	44.01	7669
14_3_1-10_11-20_sphereup_1_6	210	210	5.74	34.42	7447	43.07	1825	40.6	7433
14_3_1-10_11-20_sphereup_1_7	210	210	6.96	51.15	9383	40.13	1777	57.57	9383
14_3_1-10_11-20_sphereup_1_8	210	210	5.23	49.76	8943	42.09	2225	56.43	8929
14_3_1-10_11-20_sphereup_1_9	210	210	4.34	27.02	4361	33.5	1488	30.44	4361
14_3_1000-2000_3000-4000_2box_1_1	210	210	5.08	8.47	1137	10.47	335	9.9	1137
14_3_1000-2000_3000-4000_2box_1_10	210	210	4.49	8.01	1065	6.87	261	10.22	1065
14_3_1000-2000_3000-4000_2box_1_2	210	210	4.12	6.48	961	7.42	324	8.25	961
14_3_1000-2000_3000-4000_2box_1_3	210	210	4.82	7.15	999	10.48	344	9.04	999
14_3_1000-2000_3000-4000_2box_1_4	210	210	3.94	5.38	727	8.74	239	7.01	727
14_3_1000-2000_3000-4000_2box_1_5	210	210	4.48	8.92	1255	11.75	410	11.45	1255
14_3_1000-2000_3000-4000_2box_1_6	210	210	4.14	9.12	1225	20.34	528	11.75	1225
14_3_1000-2000_3000-4000_2box_1_7	210	210	3.8	5.6	587	11.26	344	6.84	587
14_3_1000-2000_3000-4000_2box_1_8	210	210	4.16	5.34	827	5.85	342	6.97	827
14_3_1000-2000_3000-4000_2box_1_9	210	210	4.13	6.14	761	7.22	311	7.74	761
14_3_1000-2000_3000-4000_random_1_1	210	210	3.51	2.58	135	4.93	136	2.65	15
14_3_1000-2000_3000-4000_random_1_10	210	210	3.24	2.22	71	2.26	71	2.89	71
14_3_1000-2000_3000-4000_random_1_2	210	210	2.99	1.67	19	1.1	17	2.53	9
14_3_1000-2000_3000-4000_random_1_3	210	210	3.25	3.39	297	8.29	297	4.21	297
14_3_1000-2000_3000-4000_random_1_4	210	210	2.88	1.83	75	1.38	63	2.57	75
14_3_1000-2000_3000-4000_random_1_5	210	210	2.9	1.64	19	0.86	19	2.42	19
14_3_1000-2000_3000-4000_random_1_6	210	210	3.13	1.66	15	0.86	13	2.38	15
14_3_1000-2000_3000-4000_random_1_7	210	210	3.19	1.64	13	0.71	7	2.7	13
14_3_1000-2000_3000-4000_random_1_8	210	210	3.4	1.68	19	1.58	13	3.11	19
14_3_1000-2000_3000-4000_random_1_9	210	210	2.99	1.62	9	0.26	9	2.48	9
14_3_1000-2000_3000-4000_spheredown_1_1	210	210	2.93	1.64	17	0.33	5	2.55	17
14_3_1000-2000_3000-4000_spheredown_1_10	210	210	3.22	2.08	75	2.22	73	2.92	75
14_3_1000-2000_3000-4000_spheredown_1_2	210	210	3.94	2.05	81	1.47	51	2.86	81
14_3_1000-2000_3000-4000_spheredown_1_3	210	210	3.52	3.93	407	8.61	217	5.8	407
14_3_1000-2000_3000-4000_spheredown_1_4	210	210	3.94	2.9	211	3.91	164	3.86	211
14_3_1000-2000_3000-4000_spheredown_1_5	210	210	3.36	3.26	221	8.88	221	4.6	221
14_3_1000-2000_3000-4000_spheredown_1_6	210	210	3.36	1.69	21	1.76	22	2.45	21
14_3_1000-2000_3000-4000_spheredown_1_7	210	210	4.17	3.5	433	4.92	284	4.58	433
14_3_1000-2000_3000-4000_spheredown_1_8	210	210	3.69	2.57	131	4.16	132	3.39	131
14_3_1000-2000_3000-4000_spheredown_1_9	210	210	3.0	1.67	25	0.91	25	2.4	25
14_3_1000-2000_3000-4000_sphereup_1_1	210	210	3.64	2.12	73	3.1	78	2.79	73
14_3_1000-2000_3000-4000_sphereup_1_10	210	210	3.28	2.29	189	2.26	135	3.14	189
14_3_1000-2000_3000-4000_sphereup_1_2	210	210	3.28	1.94	81	1.62	78	2.74	81
14_3_1000-2000_3000-4000_sphereup_1_3	210	210	3.47	1.78	41	0.76	37	2.62	41
14_3_1000-2000_3000-4000_sphereup_1_4	210	210	3.09	1.73	27	0.8	30	2.48	27
14_3_1000-2000_3000-4000_sphereup_1_5	210	210	3.1	2.1	73	3.79	73	2.89	73
14_3_1000-2000_3000-4000_sphereup_1_6	210	210	3.51	2.31	107	2.79	91	3.16	107
14_3_1000-2000_3000-4000_sphereup_1_7	210	210	3.37	3.1	195	3.13	114	4.17	195
14_3_1000-2000_3000-4000_sphereup_1_8	210	210	3.45	1.72	27	0.91	27	2.48	27
14_3_1000-2000_3000-4000_sphereup_1_9	210	210	3.18	2.16	97	2.99	97	2.95	97
5_3_1-1000_1-100_spheredown_1_1	30	30	6.64	2.19	711	1.79	512	2.97	711
5_3_1-1000_1-100_spheredown_1_10	30	30	5.73	2.46	1015	1.39	305	3.28	1015
5_3_1-1000_1-100_spheredown_1_2	30	30	7.37	2.28	639	1.19	270	3.32	639
5_3_1-1000_1-100_spheredown_1_3	30	30	6.5	2.12	623	1.19	336	2.89	623
5_3_1-1000_1-100_spheredown_1_4	30	30	5.11	2.07	599	0.73	162	2.85	599
5_3_1-1000_1-100_spheredown_1_5	30	30	4.41	1.94	473	0.76	152	2.74	473
5_3_1-1000_1-100_spheredown_1_6	30	30	5.09	2.05	477	1.01	252	2.84	477
5_3_1-1000_1-100_spheredown_1_7	30	30	7.77	2.16	507	1.58	405	3.02	507
5_3_1-1000_1-100_spheredown_1_8	30	30	5.55	2.04	425	1.15	289	2.86	425
5_3_1-1000_1-100_spheredown_1_9	30	30	9.35	2.47	843	2.04	472	3.41	843
6_3_1-1000_1-100_2box_1_1	42	42	14.42	8.85	6819	6.94	1062	10.68	6819
6_3_1-1000_1-100_2box_1_10	42	42	13.67	15.42	12531	11.94	1331	16.95	12531
6_3_1-1000_1-100_2box_1_2	42	42	12.28	10.78	8723	12.03	1061	12.17	8723
6_3_1-1000_1-100_2box_1_3	42	42	14.18	10.18	6243	23.14	1765	11.77	6243
6_3_1-1000_1-100_2box_1_4	42	42	15.56	11.76	8475	19.89	1618	13.65	8475
6_3_1-1000_1-100_2box_1_5	42	42	18.05	16.92	14481	20.15	1586	18.71	14481
6_3_1-1000_1-100_2box_1_6	42	42	9.03	8.31	7207	11.94	770	9.31	7207
6_3_1-1000_1-100_2box_1_7	42	42	16.36	13.57	12875	17.81	1543	14.97	12875
6_3_1-1000_1-100_2box_1_8	42	42	19.6	9.93	4583	38.05	2365	11.52	4583
6_3_1-1000_1-100_2box_1_9	42	42	14.56	6.07	3523	24.49	1577	7.24	3523
6_3_1-1000_1-100_random_1_1	42	42	3.38	2.04	483	0.57	130	2.76	483
6_3_1-1000_1-100_random_1_10	42	42	6.33	2.36	675	1.5	334	3.13	675
6_3_1-1000_1-100_random_1_2	42	42	5.19	2.24	627	2.2	416	3.05	627
6_3_1-1000_1-100_random_1_3	42	42	4.61	2.08	383	1.39	259	2.91	383
6_3_1-1000_1-100_random_1_4	42	42	4.89	2.34	663	1.57	300	3.17	663
6_3_1-1000_1-100_random_1_5	42	42	5.57	2.4	607	1.91	303	3.16	607
6_3_1-1000_1-100_random_1_6	42	42	5.76	2.47	779	1.36	234	3.21	779
6_3_1-1000_1-100_random_1_7	42	42	3.61	1.84	241	0.89	125	2.63	241
6_3_1-1000_1-100_random_1_8	42	42	4.04	2.08	459	1.76	281	2.85	459
6_3_1-1000_1-100_random_1_9	42	42	4.4	1.93	273	1.52	251	2.74	273
6_3_1-1000_1-100_spheredown_1_1	42	42	13.62	4.79	2165	8.95	1062	6.87	2165
6_3_1-1000_1-100_spheredown_1_10	42	42	8.08	3.55	1515	2.5	345	4.34	1515
6_3_1-1000_1-100_spheredown_1_2	42	42	9.51	4.0	1123	5.27	702	4.76	1123
6_3_1-1000_1-100_spheredown_1_3	42	42	10.74	3.59	1539	4.58	663	4.59	1539
6_3_1-1000_1-100_spheredown_1_4	42	42	8.72	3.89	1577	4.72	721	4.83	1577
6_3_1-1000_1-100_spheredown_1_5	42	42	12.69	4.04	1563	9.03	1192	5.09	1563
6_3_1-1000_1-100_spheredown_1_6	42	42	8.28	3.48	1061	4.84	673	4.05	1061
6_3_1-1000_1-100_spheredown_1_7	42	42	9.9	3.68	1177	4.9	739	4.56	1177
6_3_1-1000_1-100_spheredown_1_8	42	42	8.62	3.7	1479	9.5	1089	4.7	1479
6_3_1-1000_1-100_spheredown_1_9	42	42	9.23	3.69	1399	5.13	605	4.65	1399
6_3_1-1000_1-100_sphereup_1_1	42	42	9.51	3.68	1345	3.4	506	4.43	1345
6_3_1-1000_1-100_sphereup_1_10	42	42	5.09	2.67	643	2.69	358	3.28	643
6_3_1-1000_1-100_sphereup_1_2	42	42	8.38	3.01	1257	3.94	627	3.84	1257
6_3_1-1000_1-100_sphereup_1_3	42	42	4.86	2.35	725	2.85	454	3.09	725
6_3_1-1000_1-100_sphereup_1_4	42	42	6.05	2.78	773	2.78	386	3.56	773
6_3_1-1000_1-100_sphereup_1_5	42	42	4.77	2.22	549	1.16	203	3.01	549

6_3_1-1000_1-100_sphereup_1_6	42	42	5.99	2.51	851	2.32	415	3.22	851
6_3_1-1000_1-100_sphereup_1_7	42	42	5.69	2.57	675	2.17	358	3.37	675
6_3_1-1000_1-100_sphereup_1_8	42	42	6.79	2.53	763	2.75	442	3.35	763
6_3_1-1000_1-100_sphereup_1_9	42	42	6.3	2.64	979	2.08	365	3.33	979
6_3_1-10_1-1_2box_1_1	42	42	4.41	5.27	2935	5.32	1091	6.47	2935
6_3_1-10_1-1_2box_1_10	42	42	5.34	7.4	6083	4.68	920	8.29	6083
6_3_1-10_1-1_2box_1_2	42	42	5.14	8.11	7355	5.72	1005	9.26	7355
6_3_1-10_1-1_2box_1_3	42	42	3.94	5.2	3189	3.35	800	6.11	3189
6_3_1-10_1-1_2box_1_4	42	42	5.28	5.69	3181	2.68	536	6.61	3181
6_3_1-10_1-1_2box_1_5	42	42	5.15	8.35	5975	6.71	1124	9.68	5975
6_3_1-10_1-1_2box_1_6	42	42	3.77	7.75	6687	3.66	669	8.62	6687
6_3_1-10_1-1_2box_1_7	42	42	4.85	8.62	7259	7.13	1577	10.1	7259
6_3_1-10_1-1_2box_1_8	42	42	5.26	7.72	6295	6.41	1124	9.0	6295
6_3_1-10_1-1_2box_1_9	42	42	4.17	7.2	6067	4.05	936	8.48	6067
6_3_1-10_1-1_random_1_1	42	42	2.94	2.06	667	0.71	210	2.85	667
6_3_1-10_1-1_random_1_10	42	42	2.89	1.78	255	0.67	195	2.53	255
6_3_1-10_1-1_random_1_2	42	42	2.79	2.41	1097	1.28	348	3.14	1097
6_3_1-10_1-1_random_1_3	42	42	3.35	2.57	937	1.41	298	3.36	937
6_3_1-10_1-1_random_1_4	42	42	3.28	2.96	1021	3.04	542	3.88	1021
6_3_1-10_1-1_random_1_5	42	42	2.76	2.19	615	1.56	414	2.97	615
6_3_1-10_1-1_random_1_6	42	42	2.87	2.49	853	1.7	419	3.31	853
6_3_1-10_1-1_random_1_7	42	42	3.89	2.52	889	2.29	538	3.52	889
6_3_1-10_1-1_random_1_8	42	42	2.73	1.78	377	1.35	401	2.57	377
6_3_1-10_1-1_random_1_9	42	42	2.74	1.7	109	0.48	89	2.37	109
6_3_1-10_1-1_spheredown_1_1	42	42	4.22	5.62	3565	4.89	1095	6.6	3565
6_3_1-10_1-1_spheredown_1_10	42	42	3.51	3.72	2161	2.29	497	4.84	2161
6_3_1-10_1-1_spheredown_1_2	42	42	3.49	4.11	1811	5.01	854	5.01	1811
6_3_1-10_1-1_spheredown_1_3	42	42	3.2	2.4	781	1.87	420	3.2	781
6_3_1-10_1-1_spheredown_1_4	42	42	4.1	5.35	3161	5.26	1056	6.1	3141
6_3_1-10_1-1_spheredown_1_5	42	42	4.38	4.56	2849	3.96	709	5.56	2849
6_3_1-10_1-1_spheredown_1_6	42	42	2.86	4.37	2437	4.71	949	5.25	2437
6_3_1-10_1-1_spheredown_1_7	42	42	3.28	3.01	1619	2.1	480	3.81	1619
6_3_1-10_1-1_spheredown_1_8	42	42	3.89	3.76	1673	3.29	641	4.74	1673
6_3_1-10_1-1_spheredown_1_9	42	42	4.54	4.0	2535	3.55	829	5.14	2535
6_3_1-10_1-1_sphereup_1_1	42	42	3.08	3.07	1003	3.05	493	3.93	1003
6_3_1-10_1-1_sphereup_1_10	42	42	3.91	3.58	2187	2.26	599	4.42	2187
6_3_1-10_1-1_sphereup_1_2	42	42	3.67	2.7	1187	1.39	334	3.49	1187
6_3_1-10_1-1_sphereup_1_3	42	42	3.91	2.41	831	1.97	433	3.16	831
6_3_1-10_1-1_sphereup_1_4	42	42	3.65	3.44	2109	2.72	549	4.18	2109
6_3_1-10_1-1_sphereup_1_5	42	42	2.91	2.49	885	2.57	456	3.35	885
6_3_1-10_1-1_sphereup_1_6	42	42	3.05	2.63	973	1.67	307	3.39	973
6_3_1-10_1-1_sphereup_1_7	42	42	3.28	2.46	953	1.53	303	3.36	953
6_3_1-10_1-1_sphereup_1_8	42	42	2.92	3.42	1547	4.62	1034	4.32	1547
6_3_1-10_1-1_sphereup_1_9	42	42	3.29	2.29	757	1.55	403	3.12	757
6_3_1000-2000_100-200_2box_1_1	42	42	11.62	9.68	6289	28.44	1632	11.13	6289
6_3_1000-2000_100-200_2box_1_10	42	42	11.89	7.24	4551	40.81	1475	8.4	4551
6_3_1000-2000_100-200_2box_1_2	42	42	11.32	7.48	4841	38.4	1480	8.0	4841
6_3_1000-2000_100-200_2box_1_3	42	42	10.13	9.59	7423	13.84	1003	11.08	7423
6_3_1000-2000_100-200_2box_1_4	42	42	11.25	6.34	3475	17.74	1230	6.95	3475
6_3_1000-2000_100-200_2box_1_5	42	42	10.21	5.44	3135	39.72	1528	6.51	3135
6_3_1000-2000_100-200_2box_1_6	42	42	8.5	6.46	4255	10.92	655	7.52	4255
6_3_1000-2000_100-200_2box_1_7	42	42	9.78	5.11	2867	19.33	1169	5.92	2867
6_3_1000-2000_100-200_2box_1_8	42	42	10.67	3.98	1661	37.1	2038	4.86	1661
6_3_1000-2000_100-200_2box_1_9	42	42	11.49	5.68	3045	30.42	1791	6.79	3045
6_3_1000-2000_100-200_random_1_1	42	42	5.76	2.56	843	3.23	362	3.33	843
6_3_1000-2000_100-200_random_1_10	42	42	4.6	2.1	415	2.38	403	2.88	415
6_3_1000-2000_100-200_random_1_2	42	42	3.41	1.79	201	0.64	96	2.56	201
6_3_1000-2000_100-200_random_1_3	42	42	3.63	1.94	303	1.5	201	2.77	303
6_3_1000-2000_100-200_random_1_4	42	42	5.55	2.84	693	3.59	458	3.5	693
6_3_1000-2000_100-200_random_1_5	42	42	4.8	2.5	641	2.83	415	3.39	641
6_3_1000-2000_100-200_random_1_6	42	42	7.37	3.03	1049	3.61	487	3.63	1049
6_3_1000-2000_100-200_random_1_7	42	42	6.98	2.41	717	3.97	475	3.18	717
6_3_1000-2000_100-200_random_1_8	42	42	3.66	1.77	203	0.84	135	2.75	203
6_3_1000-2000_100-200_random_1_9	42	42	4.55	2.03	421	2.53	361	2.75	421
6_3_1000-2000_100-200_spheredown_1_1	42	42	8.13	2.74	899	5.53	617	3.72	899
6_3_1000-2000_100-200_spheredown_1_10	42	42	6.44	3.25	947	5.7	595	4.17	947
6_3_1000-2000_100-200_spheredown_1_2	42	42	5.11	3.07	859	3.52	374	3.96	859
6_3_1000-2000_100-200_spheredown_1_3	42	42	8.54	4.02	1513	12.42	758	5.06	1513
6_3_1000-2000_100-200_spheredown_1_4	42	42	6.54	2.93	1009	5.5	523	4.17	1009
6_3_1000-2000_100-200_spheredown_1_5	42	42	6.29	2.5	877	3.22	407	3.33	877
6_3_1000-2000_100-200_spheredown_1_6	42	42	5.68	3.09	999	4.25	507	3.91	999
6_3_1000-2000_100-200_spheredown_1_7	42	42	8.18	3.37	1219	5.46	524	4.18	1219
6_3_1000-2000_100-200_spheredown_1_8	42	42	8.18	3.43	1053	7.02	646	4.49	1051
6_3_1000-2000_100-200_spheredown_1_9	42	42	4.58	2.38	701	1.35	218	3.12	701
6_3_1000-2000_100-200_sphereup_1_1	42	42	7.28	2.63	935	3.71	454	3.37	935
6_3_1000-2000_100-200_sphereup_1_10	42	42	8.38	3.35	1369	6.77	426	4.24	1369
6_3_1000-2000_100-200_sphereup_1_2	42	42	5.37	2.1	521	1.13	199	2.89	521
6_3_1000-2000_100-200_sphereup_1_3	42	42	6.32	3.05	1045	4.1	436	3.87	1045
6_3_1000-2000_100-200_sphereup_1_4	42	42	5.21	2.47	731	2.53	305	3.23	731
6_3_1000-2000_100-200_sphereup_1_5	42	42	7.25	2.94	1223	2.0	328	3.7	1223
6_3_1000-2000_100-200_sphereup_1_6	42	42	6.16	3.15	1111	4.2	482	3.97	1111
6_3_1000-2000_100-200_sphereup_1_7	42	42	6.22	3.17	1501	8.87	553	3.93	1501
6_3_1000-2000_100-200_sphereup_1_8	42	42	5.02	2.4	517	2.02	271	3.26	517
6_3_1000-2000_100-200_sphereup_1_9	42	42	8.63	3.7	1563	14.8	1022	4.73	1563
7_3_1-1000_1-100_2box_1_1	56	56	21.97	55.85	25583	132.61	4232	60.57	25583
7_3_1-1000_1-100_2box_1_10	56	56	19.11	43.1	20673	180.63	4209	46.9	20673
7_3_1-1000_1-100_2box_1_2	56	56	17.14	20.5	10923	92.11	3560	21.52	10923
7_3_1-1000_1-100_2box_1_3	56	56	23.07	26.35	10583	86.38	4539	29.33	10583
7_3_1-1000_1-100_2box_1_4	56	56	18.4	33.25	16569	85.2	3460	36.06	16569
7_3_1-1000_1-100_2box_1_5	56	56	15.95	28.18	12671	121.21	3774	30.56	12671
7_3_1-1000_1-100_2box_1_6	56	56	11.22	26.41	16553	19.9	1322	29.43	16553
7_3_1-1000_1-100_2box_1_7	56	56	20.56	53.27	22471	81.52	3998	56.39	22471
7_3_1-1000_1-100_2box_1_8	56	56	23.54	37.68	16125	99.09	3980	40.81	16125
7_3_1-1000_1-100_2box_1_9	56	56	21.29	44.15	20591	145.89	4745	47.04	20591
7_3_1-1000_1-100_random_1_1	56	56	7.52	4.01	1473	4.42	595	5.09	1473
7_3_1-1000_1-100_random_1_10	56	56	7.13	4.68	1741	7.31	623	5.65	1741
7_3_1-1000_1-100_random_1_2	56	56	4.01	2.16	413	1.18	169	2.96	413
7_3_1-1000_1-100_random_1_3	56	56	4.69	2.43	643	1.17	172	3.23	643
7_3_1-1000_1-100_random_1_4	56	56	8.76	5.33	1623	6.97	1009	6.09	1623
7_3_1-1000_1-100_random_1_5	56	56	9.07	6.21	2443	12.86	1342	7.3	2443
7_3_1-1000_1-100_random_1_6	56	56	4.88	2.83	847	2.46	360	3.63	847
7_3_1-1000_1-100_random_1_7	56	56	6.83	4.07	1601	5.12	783	5.1	1601
7_3_1-1000_1-100_random_1_8	56	56	3.66	2.0	271	1.32	177	2.76	271

7_3_1-1000_1-100_random_1_9	56	56	5.57	2.49	769	1.67	340	3.2	769
7_3_1-1000_1-100_spheredown_1_1	56	56	11.18	6.71	2997	35.75	1476	7.7	2997
7_3_1-1000_1-100_spheredown_1_10	56	56	10.57	5.5	2515	19.93	1161	6.88	2515
7_3_1-1000_1-100_spheredown_1_2	56	56	9.84	7.1	2699	17.91	1384	8.27	2699
7_3_1-1000_1-100_spheredown_1_3	56	56	16.63	7.92	2595	40.09	2783	9.25	2595
7_3_1-1000_1-100_spheredown_1_4	56	56	10.19	7.23	2427	41.02	2023	8.08	2427
7_3_1-1000_1-100_spheredown_1_5	56	56	12.62	7.68	3059	27.67	1426	8.93	3059
7_3_1-1000_1-100_spheredown_1_6	56	56	10.48	5.61	2121	29.19	1644	6.48	2121
7_3_1-1000_1-100_spheredown_1_7	56	56	12.72	9.43	4143	63.38	2606	10.95	4143
7_3_1-1000_1-100_spheredown_1_8	56	56	10.89	7.92	2299	21.75	1870	8.87	2299
7_3_1-1000_1-100_spheredown_1_9	56	56	17.85	9.42	3233	37.61	2037	10.87	3233
7_3_1-1000_1-100_sphereup_1_1	56	56	8.36	5.62	2759	13.59	792	6.87	2759
7_3_1-1000_1-100_sphereup_1_10	56	56	10.79	6.81	2139	14.59	1321	7.78	2139
7_3_1-1000_1-100_sphereup_1_2	56	56	7.09	4.26	1677	5.45	463	5.37	1677
7_3_1-1000_1-100_sphereup_1_3	56	56	7.86	3.92	1561	8.38	877	4.85	1561
7_3_1-1000_1-100_sphereup_1_4	56	56	11.77	7.29	3375	21.55	1675	8.5	3375
7_3_1-1000_1-100_sphereup_1_5	56	56	5.33	3.5	995	5.92	623	4.35	995
7_3_1-1000_1-100_sphereup_1_6	56	56	12.63	7.4	3067	45.72	1558	8.45	3067
7_3_1-1000_1-100_sphereup_1_7	56	56	8.49	3.91	1377	7.04	590	4.67	1377
7_3_1-1000_1-100_sphereup_1_8	56	56	10.97	4.9	1947	18.87	1405	5.94	1947
7_3_1-1000_1-100_sphereup_1_9	56	56	8.64	4.61	1973	8.6	685	5.46	1973
7_3_1-10_1-1_2box_1_1	56	56	6.27	14.74	8705	16.52	2017	16.83	8705
7_3_1-10_1-1_2box_1_10	56	56	5.46	15.99	10745	20.19	2521	18.3	10955
7_3_1-10_1-1_2box_1_2	56	56	6.35	14.78	8999	16.22	2327	17.35	8999
7_3_1-10_1-1_2box_1_3	56	56	5.89	20.61	14261	11.47	1514	23.07	14261
7_3_1-10_1-1_2box_1_4	56	56	5.64	18.1	12721	19.24	3148	20.92	12721
7_3_1-10_1-1_2box_1_5	56	56	7.5	21.99	14719	19.24	2832	24.53	14719
7_3_1-10_1-1_2box_1_6	56	56	6.48	17.34	9505	13.79	1546	20.27	9483
7_3_1-10_1-1_2box_1_7	56	56	6.27	17.97	9473	21.05	3000	19.82	9473
7_3_1-10_1-1_2box_1_8	56	56	5.92	17.56	9489	19.57	2718	19.57	9489
7_3_1-10_1-1_2box_1_9	56	56	5.93	18.05	12437	19.51	2737	20.22	12437
7_3_1-10_1-1_random_1_1	56	56	3.64	6.93	3179	4.64	770	7.96	3179
7_3_1-10_1-1_random_1_10	56	56	2.9	5.5	2537	8.0	1337	6.3	2537
7_3_1-10_1-1_random_1_2	56	56	3.8	6.16	4035	6.04	1087	7.01	4035
7_3_1-10_1-1_random_1_3	56	56	3.32	4.67	2173	5.23	1174	5.75	2173
7_3_1-10_1-1_random_1_4	56	56	4.39	7.29	4123	7.68	1107	8.46	4123
7_3_1-10_1-1_random_1_5	56	56	3.07	2.99	783	3.2	441	3.89	783
7_3_1-10_1-1_random_1_6	56	56	3.87	3.19	1167	4.17	948	4.05	1167
7_3_1-10_1-1_random_1_7	56	56	3.75	4.44	2429	3.82	653	5.72	2429
7_3_1-10_1-1_random_1_8	56	56	3.62	6.5	3343	7.7	1313	7.61	3343
7_3_1-10_1-1_random_1_9	56	56	3.71	7.51	3627	6.67	1190	8.52	3627
7_3_1-10_1-1_spheredown_1_1	56	56	4.12	8.76	4587	9.41	1697	9.54	4587
7_3_1-10_1-1_spheredown_1_10	56	56	4.38	9.4	4383	9.34	1358	10.92	4383
7_3_1-10_1-1_spheredown_1_2	56	56	3.22	9.55	4661	11.75	1853	10.19	4659
7_3_1-10_1-1_spheredown_1_3	56	56	3.26	9.96	4701	10.25	1692	11.52	4701
7_3_1-10_1-1_spheredown_1_4	56	56	4.44	8.55	4815	8.27	1235	9.96	4815
7_3_1-10_1-1_spheredown_1_5	56	56	3.97	5.82	3239	5.46	1049	6.25	3239
7_3_1-10_1-1_spheredown_1_6	56	56	4.24	7.5	2969	9.29	1542	8.15	2969
7_3_1-10_1-1_spheredown_1_7	56	56	3.61	14.01	10725	15.49	2685	15.05	10725
7_3_1-10_1-1_spheredown_1_8	56	56	3.79	10.14	5933	8.14	1479	11.88	5927
7_3_1-10_1-1_spheredown_1_9	56	56	3.48	8.43	4071	4.84	791	9.84	4071
7_3_1-10_1-1_sphereup_1_1	56	56	4.31	5.99	3719	5.55	917	6.86	3719
7_3_1-10_1-1_sphereup_1_10	56	56	3.94	4.23	2063	5.14	788	5.22	2063
7_3_1-10_1-1_sphereup_1_2	56	56	3.77	5.07	2471	3.61	552	6.16	2471
7_3_1-10_1-1_sphereup_1_3	56	56	4.19	4.55	2111	4.93	726	5.59	2111
7_3_1-10_1-1_sphereup_1_4	56	56	4.28	4.57	2631	6.15	1151	5.5	2631
7_3_1-10_1-1_sphereup_1_5	56	56	3.08	3.68	1503	3.85	644	4.52	1503
7_3_1-10_1-1_sphereup_1_6	56	56	3.86	4.88	2043	7.35	1453	5.91	2043
7_3_1-10_1-1_sphereup_1_7	56	56	3.84	3.81	1197	5.01	762	4.74	1197
7_3_1-10_1-1_sphereup_1_8	56	56	3.26	4.95	2523	4.96	696	5.88	2523
7_3_1-10_1-1_sphereup_1_9	56	56	3.95	5.55	3073	8.67	1714	6.56	3073
7_3_1000-2000_100-200_2box_1_1	56	56	16.32	26.92	15511	154.69	3564	27.78	15511
7_3_1000-2000_100-200_2box_1_10	56	56	9.62	23.36	15169	137.53	2508	26.66	15169
7_3_1000-2000_100-200_2box_1_2	56	56	14.28	17.71	6361	144.71	3560	20.59	6361
7_3_1000-2000_100-200_2box_1_3	56	56	14.29	19.5	9461	160.67	3719	22.4	9461
7_3_1000-2000_100-200_2box_1_4	56	56	13.49	22.53	10087	95.63	2833	25.39	10087
7_3_1000-2000_100-200_2box_1_5	56	56	13.17	13.2	6551	93.26	2452	15.05	6551
7_3_1000-2000_100-200_2box_1_6	56	56	18.28	18.03	8561	222.3	4670	20.13	8561
7_3_1000-2000_100-200_2box_1_7	56	56	14.02	12.63	6349	90.1	2421	14.3	6349
7_3_1000-2000_100-200_2box_1_8	56	56	11.42	18.33	9765	52.99	2097	19.86	9765
7_3_1000-2000_100-200_2box_1_9	56	56	15.1	18.16	9531	92.52	2589	19.77	9531
7_3_1000-2000_100-200_random_1_1	56	56	4.96	2.26	561	3.54	509	3.06	561
7_3_1000-2000_100-200_random_1_10	56	56	6.3	3.52	1429	8.36	508	4.36	1429
7_3_1000-2000_100-200_random_1_2	56	56	9.85	5.28	2211	20.04	959	6.62	2211
7_3_1000-2000_100-200_random_1_3	56	56	5.41	3.61	1277	6.58	461	4.54	1277
7_3_1000-2000_100-200_random_1_4	56	56	8.12	3.14	947	15.0	1248	3.93	947
7_3_1000-2000_100-200_random_1_5	56	56	5.18	2.4	619	4.18	282	3.27	619
7_3_1000-2000_100-200_random_1_6	56	56	6.4	3.44	1329	10.34	686	4.43	1317
7_3_1000-2000_100-200_random_1_7	56	56	5.93	3.72	1049	3.45	414	4.68	1049
7_3_1000-2000_100-200_random_1_8	56	56	4.72	3.11	829	4.21	342	4.43	827
7_3_1000-2000_100-200_random_1_9	56	56	7.11	2.96	973	5.36	565	3.82	973
7_3_1000-2000_100-200_spheredown_1_1	56	56	14.57	8.59	3773	67.41	2496	10.23	3773
7_3_1000-2000_100-200_spheredown_1_10	56	56	8.27	7.2	2635	34.95	1346	8.62	2635
7_3_1000-2000_100-200_spheredown_1_2	56	56	9.56	6.89	2117	27.14	1220	8.27	2117
7_3_1000-2000_100-200_spheredown_1_3	56	56	8.48	5.87	2297	9.13	667	6.98	2297
7_3_1000-2000_100-200_spheredown_1_4	56	56	10.75	6.07	3095	47.48	1606	7.02	3095
7_3_1000-2000_100-200_spheredown_1_5	56	56	9.81	6.72	2551	90.17	2391	7.71	2551
7_3_1000-2000_100-200_spheredown_1_6	56	56	12.77	6.32	2495	34.06	1599	7.36	2495
7_3_1000-2000_100-200_spheredown_1_7	56	56	11.08	7.26	2915	47.74	1492	8.82	2913
7_3_1000-2000_100-200_spheredown_1_8	56	56	9.03	7.26	2611	38.01	1735	8.43	2611
7_3_1000-2000_100-200_spheredown_1_9	56	56	8.34	5.2	1847	20.28	1154	6.15	1847
7_3_1000-2000_100-200_sphereup_1_1	56	56	7.11	4.06	1261	13.52	1078	5.1	1261
7_3_1000-2000_100-200_sphereup_1_10	56	56	6.4	4.36	1405	8.47	570	5.31	1405
7_3_1000-2000_100-200_sphereup_1_2	56	56	8.49	5.45	2057	20.44	926	6.37	2057
7_3_1000-2000_100-200_sphereup_1_3	56	56	7.41	4.04	1439	21.43	890	4.99	1439
7_3_1000-2000_100-200_sphereup_1_4	56	56	9.52	4.74	1735	18.66	1140	6.01	1735
7_3_1000-2000_100-200_sphereup_1_5	56	56	6.16	2.74	895	5.56	620	3.57	895
7_3_1000-2000_100-200_sphereup_1_6	56	56	8.74	4.46	1869	9.01	738	5.25	1869
7_3_1000-2000_100-200_sphereup_1_7	56	56	8.82	5.17	1971	17.74	885	6.15	1971
7_3_1000-2000_100-200_sphereup_1_8	56	56	8.03	6.13	2073	17.29	882	7.33	2073
7_3_1000-2000_100-200_sphereup_1_9	56	56	8.81	5.0	2195	11.61	789	6.19	2195
8_3_1-1000_1-100_spheredown_1_1	72	72	13.08	11.43	3619	118.47	3495	13.0	3619
8_3_1-1000_1-100_spheredown_1_10	72	72	22.17	24.47	8619	421.44	8575	27.49	8619

8_3_1-1000_1-100_spheredown_1_2	72	72	24.77	23.78	7889	210.81	7661	26.54	7889
8_3_1-1000_1-100_spheredown_1_3	72	72	33.63	52.64	12159	731.35	14778	56.66	12159
8_3_1-1000_1-100_spheredown_1_4	72	72	21.4	24.44	9037	189.29	5709	27.12	9037
8_3_1-1000_1-100_spheredown_1_5	72	72	20.43	18.7	4669	164.39	5011	20.83	4669
8_3_1-1000_1-100_spheredown_1_6	72	72	30.12	28.19	8175	437.28	11878	29.86	8175
8_3_1-1000_1-100_spheredown_1_7	72	72	26.51	26.52	6929	159.53	7114	30.08	6929
8_3_1-1000_1-100_spheredown_1_8	72	72	15.34	20.59	7119	146.87	4462	22.74	7119
8_3_1-1000_1-100_spheredown_1_9	72	72	21.68	21.07	6643	213.29	5926	22.94	6641
