

Experiments

Domain	Coverage	Node generations
	0	0
FIRST-RESPONDERS(75)	59	30829
FIRST-RESPONDERS-NEW(91)	21	12830
EARTH-OBSERVATION(40)	30	57946
TIDYUP(10)	9	18081
TRIANGLE-TIREWORLD(40)	7	65800
BLOCKSWORLD(30)	23	12519
FAULTS(55)	54	24789
CHAIN-OF-ROOMS(10)	10	4614
FOREST-NEW(90)	6	17580
Overall	219	244988

first-responders

Problem	FF		
	t	e	n
fr-p-10-1	1.52	—	310
fr-p-10-2	1.88	—	1304
fr-p-1-10	19.27	—	3640
fr-p-1-1	1.04	—	10
fr-p-1-2	1.04	—	21
fr-p-1-3	1.07	—	35
fr-p-1-4	1.86	—	242
fr-p-1-5	2.55	—	468
fr-p-1-6	3.37	—	793
fr-p-1-7	4.06	—	1264
fr-p-1-8	6.38	—	1805
fr-p-1-9	10.49	—	2600
fr-p-2-2	1.05	—	26
fr-p-2-3	1.15	—	66
fr-p-2-4	1.52	—	182
fr-p-2-7	8.64	—	2854
fr-p-2-8	9.14	—	2536
fr-p-3-1	1.05	—	19
fr-p-3-2	1.55	—	137
fr-p-3-7	4.10	—	1155
fr-p-3-8	3.31	—	860
fr-p-4-1	1.05	—	19
fr-p-4-2	1.41	—	195
fr-p-4-3	2.44	—	587
fr-p-4-4	16.80	—	4330
fr-p-4-6	3.57	—	1176
fr-p-4-8	37.19	—	5909
fr-p-4-9	25.55	—	3998
fr-p-5-10	765.99	—	27077
fr-p-5-1	1.28	—	98
fr-p-5-2	1.74	—	254
fr-p-5-3	8.82	—	3283
fr-p-5-4	8.39	—	2102
fr-p-5-5	4.08	—	1910
fr-p-5-8	166.04	—	21483
fr-p-5-9	206.60	—	10444
fr-p-6-1	4.47	—	2386
fr-p-6-2	2.52	—	707
fr-p-6-3	7.51	—	3689

fr-p-6-4	182.24	—	16393
fr-p-6-5	227.29	—	23401
fr-p-6-8	709.02	—	18217
fr-p-6-9	200.35	—	12546
fr-p-7-10	3.66	—	2861
fr-p-7-1	1.42	—	146
fr-p-7-2	8.11	—	3237
fr-p-7-3	74.55	—	12119
fr-p-7-4	133.51	—	15929
fr-p-7-5	67.21	—	16508
fr-p-7-6	155.42	—	19399
fr-p-7-8	41.63	—	8861
fr-p-8-10	579.24	—	16058
fr-p-8-1	1.40	—	221
fr-p-8-2	18.57	—	7069
fr-p-8-4	22.35	—	11271
fr-p-8-5	1295.96	—	47141
fr-p-9-1	418.84	—	15961
fr-p-9-2	277.84	—	26077
fr-p-9-7	739.01	—	17884
Coverage	59 / 75		

Problem	FF		
	t	e	n
fr-p-10-1	1.52	—	310
fr-p-10-2	1.88	—	1304
fr-p-1-10	19.27	—	3640
fr-p-1-1	1.04	—	10
fr-p-1-2	1.04	—	21
fr-p-1-3	1.07	—	35
fr-p-1-4	1.86	—	242
fr-p-1-5	2.55	—	468
fr-p-1-6	3.37	—	793
fr-p-1-7	4.06	—	1264
fr-p-1-8	6.38	—	1805
fr-p-1-9	10.49	—	2600
fr-p-2-2	1.05	—	26
fr-p-2-3	1.15	—	66
fr-p-2-4	1.52	—	182
fr-p-2-7	8.64	—	2854
fr-p-2-8	9.14	—	2536
fr-p-3-1	1.05	—	19
fr-p-3-2	1.55	—	137
fr-p-3-7	4.10	—	1155
fr-p-3-8	3.31	—	860
fr-p-4-1	1.05	—	19
fr-p-4-2	1.41	—	195
fr-p-4-3	2.44	—	587
fr-p-4-4	16.80	—	4330
fr-p-4-6	3.57	—	1176
fr-p-4-8	37.19	—	5909
fr-p-4-9	25.55	—	3998
fr-p-5-10	765.99	—	27077
fr-p-5-1	1.28	—	98
fr-p-5-2	1.74	—	254
fr-p-5-3	8.82	—	3283
fr-p-5-4	8.39	—	2102
fr-p-5-5	4.08	—	1910
fr-p-5-8	166.04	—	21483
fr-p-5-9	206.60	—	10444
fr-p-6-1	4.47	—	2386

fr-p-6-2	2.52	—	707
fr-p-6-3	7.51	—	3689
fr-p-6-4	182.24	—	16393
fr-p-6-5	227.29	—	23401
fr-p-6-8	709.02	—	18217
fr-p-6-9	200.35	—	12546
fr-p-7-10	3.66	—	2861
fr-p-7-1	1.42	—	146
fr-p-7-2	8.11	—	3237
fr-p-7-3	74.55	—	12119
fr-p-7-4	133.51	—	15929
fr-p-7-5	67.21	—	16508
fr-p-7-6	155.42	—	19399
fr-p-7-8	41.63	—	8861
fr-p-8-10	579.24	—	16058
fr-p-8-1	1.40	—	221
fr-p-8-2	18.57	—	7069
fr-p-8-4	22.35	—	11271
fr-p-8-5	1295.96	—	47141
fr-p-9-1	418.84	—	15961
fr-p-9-2	277.84	—	26077
fr-p-9-7	739.01	—	17884
Total	6509.11	inf	30829
Coverage	59 / 75		

first-responders-new

Problem	FF		
	t	e	n
fr-new-p-11-1	1.45	—	314
fr-new-p-11-2	1011.12	—	91645
fr-new-p-12-1	5.82	—	7476
fr-new-p-12-3	946.60	—	49096
fr-new-p-13-1	2.63	—	672
fr-new-p-13-2	601.41	—	80718
fr-new-p-13-3	316.40	—	30859
fr-new-p-13-4	374.40	—	59910
fr-new-p-14-1	3.57	—	1051
fr-new-p-14-2	800.26	—	84533
fr-new-p-14-3	142.79	—	33135
fr-new-p-15-1	2.11	—	638
fr-new-p-15-5	159.34	—	49441
fr-new-p-16-1	2.54	—	685
fr-new-p-16-2	11.06	—	6646
fr-new-p-17-1	3.01	—	846
fr-new-p-17-2	257.97	—	63789
fr-new-p-17-5	567.19	—	103856
fr-new-p-18-1	4.56	—	1286
fr-new-p-18-2	297.01	—	57614
fr-new-p-19-1	989.31	—	116061
Coverage	21 / 91		

Problem	FF		
	t	e	n
fr-new-p-11-1	1.45	—	314
fr-new-p-11-2	1011.12	—	91645
fr-new-p-12-1	5.82	—	7476
fr-new-p-12-3	946.60	—	49096

fr-new-p-13-1	2.63	—	672
fr-new-p-13-2	601.41	—	80718
fr-new-p-13-3	316.40	—	30859
fr-new-p-13-4	374.40	—	59910
fr-new-p-14-1	3.57	—	1051
fr-new-p-14-2	800.26	—	84533
fr-new-p-14-3	142.79	—	33135
fr-new-p-15-1	2.11	—	638
fr-new-p-15-5	159.34	—	49441
fr-new-p-16-1	2.54	—	685
fr-new-p-16-2	11.06	—	6646
fr-new-p-17-1	3.01	—	846
fr-new-p-17-2	257.97	—	63789
fr-new-p-17-5	567.19	—	103856
fr-new-p-18-1	4.56	—	1286
fr-new-p-18-2	297.01	—	57614
fr-new-p-19-1	989.31	—	116061
Total	6500.55	inf	12830
Coverage	21 / 91		

earth-observation

Problem	FF		
	t	e	n
earth-observation-p01	1.91	—	146
earth-observation-p02	1.05	—	15
earth-observation-p03	2.05	—	155
earth-observation-p04	3.93	—	621
earth-observation-p05	4.18	—	629
earth-observation-p06	2.33	—	190
earth-observation-p07	1.87	—	95
earth-observation-p08	1.05	—	19
earth-observation-p09	4.71	—	747
earth-observation-p10	71.81	—	3593
earth-observation-p11	1.05	—	16
earth-observation-p12	16.31	—	1525
earth-observation-p13	18.78	—	1687
earth-observation-p14	4.19	—	331
earth-observation-p15	288.98	—	5931
earth-observation-p16	1.17	—	46
earth-observation-p17	392.26	—	6995
earth-observation-p18	89.31	—	3342
earth-observation-p19	141.16	—	4048
earth-observation-p20	689.85	—	8973
earth-observation-p21	4.05	—	595
earth-observation-p22	600.42	—	7787
earth-observation-p24	592.12	—	7638
earth-observation-p25	1531.59	—	12564
earth-observation-p26	64.20	—	2945
earth-observation-p27	20.48	—	1565
earth-observation-p29	3.94	—	408
earth-observation-p31	4.86	—	546
earth-observation-p36	34.83	—	1823
earth-observation-p39	351.41	—	5254
Coverage	30 / 40		

Problem	FF		
	t	e	n

earth-observation-p01	1.91	—	146
earth-observation-p02	1.05	—	15
earth-observation-p03	2.05	—	155
earth-observation-p04	3.93	—	621
earth-observation-p05	4.18	—	629
earth-observation-p06	2.33	—	190
earth-observation-p07	1.87	—	95
earth-observation-p08	1.05	—	19
earth-observation-p09	4.71	—	747
earth-observation-p10	71.81	—	3593
earth-observation-p11	1.05	—	16
earth-observation-p12	16.31	—	1525
earth-observation-p13	18.78	—	1687
earth-observation-p14	4.19	—	331
earth-observation-p15	288.98	—	5931
earth-observation-p16	1.17	—	46
earth-observation-p17	392.26	—	6995
earth-observation-p18	89.31	—	3342
earth-observation-p19	141.16	—	4048
earth-observation-p20	689.85	—	8973
earth-observation-p21	4.05	—	595
earth-observation-p22	600.42	—	7787
earth-observation-p24	592.12	—	7638
earth-observation-p25	1531.59	—	12564
earth-observation-p26	64.20	—	2945
earth-observation-p27	20.48	—	1565
earth-observation-p29	3.94	—	408
earth-observation-p31	4.86	—	546
earth-observation-p36	34.83	—	1823
earth-observation-p39	351.41	—	5254
Total	4945.85	inf	57946
Coverage	30 / 40		

tidyup

Problem	FF		n
	t	e	
tidyup-inst-mdp-01	1.94	—	264
tidyup-inst-mdp-02	11.50	—	1343
tidyup-inst-mdp-03	18.86	—	1850
tidyup-inst-mdp-04	43.13	—	2745
tidyup-inst-mdp-05	57.78	—	3365
tidyup-inst-mdp-06	229.75	—	6384
tidyup-inst-mdp-07	99.47	—	3966
tidyup-inst-mdp-08	145.07	—	4908
tidyup-inst-mdp-09	295.14	—	7004
Coverage	9 / 10		

Problem	FF		n
	t	e	
tidyup-inst-mdp-01	1.94	—	264
tidyup-inst-mdp-02	11.50	—	1343
tidyup-inst-mdp-03	18.86	—	1850
tidyup-inst-mdp-04	43.13	—	2745
tidyup-inst-mdp-05	57.78	—	3365
tidyup-inst-mdp-06	229.75	—	6384
tidyup-inst-mdp-07	99.47	—	3966
tidyup-inst-mdp-08	145.07	—	4908
tidyup-inst-mdp-09	295.14	—	7004

tidyup-inst-mdp-09	295.14	—	7004
Total	902.64	inf	18081
Coverage	9 / 10		

triangle-tireworld

Problem	FF		
	<i>t</i>	<i>e</i>	<i>n</i>
triangle-tireworld-p1	1.06	—	42
triangle-tireworld-p2	1.28	—	117
triangle-tireworld-p3	2.09	—	387
triangle-tireworld-p4	3.47	—	1377
triangle-tireworld-p5	5.96	—	5247
triangle-tireworld-p6	21.60	—	20637
triangle-tireworld-p7	908.76	—	82107
Coverage	7 / 40		

Problem	FF		
	<i>t</i>	<i>e</i>	<i>n</i>
triangle-tireworld-p1	1.06	—	42
triangle-tireworld-p2	1.28	—	117
triangle-tireworld-p3	2.09	—	387
triangle-tireworld-p4	3.47	—	1377
triangle-tireworld-p5	5.96	—	5247
triangle-tireworld-p6	21.60	—	20637
triangle-tireworld-p7	908.76	—	82107
Total	944.22	inf	65800
Coverage	7 / 40		

blocksworld

Problem	FF		
	<i>t</i>	<i>e</i>	<i>n</i>
blocksworld-p1	1.30	—	52
blocksworld-p2	1.14	—	31
blocksworld-p3	1.26	—	58
blocksworld-p4	1.46	—	204
blocksworld-p5	1.33	—	143
blocksworld-p6	1.30	—	62
blocksworld-p7	1.29	—	179
blocksworld-p8	2.55	—	391
blocksworld-p9	1.12	—	37
blocksworld-p10	1.20	—	58
blocksworld-p11	219.08	—	14020
blocksworld-p12	6.54	—	2173
blocksworld-p13	9.14	—	2168
blocksworld-p14	6.42	—	1558
blocksworld-p15	39.34	—	5909
blocksworld-p16	601.10	—	23577
blocksworld-p17	4.40	—	987
blocksworld-p18	5.37	—	1096
blocksworld-p19	8.27	—	1697
blocksworld-p20	11.43	—	2313
blocksworld-p21	146.29	—	8370
blocksworld-p26	1518.89	—	30260
blocksworld-p28	484.32	—	19260

Problem	FF		
	<i>t</i>	<i>e</i>	<i>n</i>
blocksworld-p1	1.30	—	52
blocksworld-p2	1.14	—	31
blocksworld-p3	1.26	—	58
blocksworld-p4	1.46	—	204
blocksworld-p5	1.33	—	143
blocksworld-p6	1.30	—	62
blocksworld-p7	1.29	—	179
blocksworld-p8	2.55	—	391
blocksworld-p9	1.12	—	37
blocksworld-p10	1.20	—	58
blocksworld-p11	219.08	—	14020
blocksworld-p12	6.54	—	2173
blocksworld-p13	9.14	—	2168
blocksworld-p14	6.42	—	1558
blocksworld-p15	39.34	—	5909
blocksworld-p16	601.10	—	23577
blocksworld-p17	4.40	—	987
blocksworld-p18	5.37	—	1096
blocksworld-p19	8.27	—	1697
blocksworld-p20	11.43	—	2313
blocksworld-p21	146.29	—	8370
blocksworld-p26	1518.89	—	30260
blocksworld-p28	484.32	—	19260
Total	3074.54	inf	12519
Coverage	23 / 30		

faults

Problem	FF		
	<i>t</i>	<i>e</i>	<i>n</i>
faults-p-10-10	11.02	—	14333
faults-p-10-1	1.48	—	169
faults-p-10-2	1.58	—	789
faults-p-10-3	2.09	—	2496
faults-p-10-5	4.44	—	9792
faults-p-10-6	6.96	—	13092
faults-p-10-7	8.93	—	15873
faults-p-10-8	7.58	—	14966
faults-p-10-9	7.90	—	14472
faults-p-1-1	1.01	—	7
faults-p-2-1	1.04	—	13
faults-p-2-2	1.04	—	21
faults-p-3-1	1.05	—	22
faults-p-3-2	1.13	—	54
faults-p-3-3	1.11	—	53
faults-p-4-1	1.09	—	34
faults-p-4-2	1.16	—	87
faults-p-4-3	1.20	—	125
faults-p-4-4	1.27	—	125
faults-p-5-1	1.14	—	49
faults-p-5-2	1.33	—	144
faults-p-5-3	1.48	—	251
faults-p-5-4	1.40	—	295
faults-p-5-5	1.52	—	285

faults-p-6-1	1.20	—	67
faults-p-6-2	1.46	—	221
faults-p-6-3	1.48	—	451
faults-p-6-4	1.85	—	669
faults-p-6-5	1.69	—	661
faults-p-6-6	1.98	—	637
faults-p-7-1	1.30	—	88
faults-p-7-2	1.86	—	328
faults-p-7-3	2.02	—	792
faults-p-7-4	2.44	—	1288
faults-p-7-5	2.02	—	1436
faults-p-7-6	2.26	—	1447
faults-p-7-7	1.83	—	1405
faults-p-8-1	1.37	—	112
faults-p-8-2	1.81	—	452
faults-p-8-3	2.22	—	1223
faults-p-8-4	2.56	—	2141
faults-p-8-5	2.84	—	2951
faults-p-8-6	2.62	—	3173
faults-p-8-7	2.76	—	3133
faults-p-8-8	2.49	—	3069
faults-p-9-1	1.47	—	139
faults-p-9-2	2.07	—	609
faults-p-9-3	2.50	—	1806
faults-p-9-4	3.66	—	3588
faults-p-9-5	4.44	—	5492
faults-p-9-6	4.35	—	6622
faults-p-9-7	4.69	—	6865
faults-p-9-8	4.65	—	6743
faults-p-9-9	4.68	—	6653
Coverage	54 / 55		

Problem	FF		
	t	e	n
faults-p-10-10	11.02	—	14333
faults-p-10-1	1.48	—	169
faults-p-10-2	1.58	—	789
faults-p-10-3	2.09	—	2496
faults-p-10-5	4.44	—	9792
faults-p-10-6	6.96	—	13092
faults-p-10-7	8.93	—	15873
faults-p-10-8	7.58	—	14966
faults-p-10-9	7.90	—	14472
faults-p-1-1	1.01	—	7
faults-p-2-1	1.04	—	13
faults-p-2-2	1.04	—	21
faults-p-3-1	1.05	—	22
faults-p-3-2	1.13	—	54
faults-p-3-3	1.11	—	53
faults-p-4-1	1.09	—	34
faults-p-4-2	1.16	—	87
faults-p-4-3	1.20	—	125
faults-p-4-4	1.27	—	125
faults-p-5-1	1.14	—	49
faults-p-5-2	1.33	—	144
faults-p-5-3	1.48	—	251
faults-p-5-4	1.40	—	295
faults-p-5-5	1.52	—	285
faults-p-6-1	1.20	—	67
faults-p-6-2	1.46	—	221
faults-p-6-3	1.48	—	451

faults-p-6-4	1.85	—	669
faults-p-6-5	1.69	—	661
faults-p-6-6	1.98	—	637
faults-p-7-1	1.30	—	88
faults-p-7-2	1.86	—	328
faults-p-7-3	2.02	—	792
faults-p-7-4	2.44	—	1288
faults-p-7-5	2.02	—	1436
faults-p-7-6	2.26	—	1447
faults-p-7-7	1.83	—	1405
faults-p-8-1	1.37	—	112
faults-p-8-2	1.81	—	452
faults-p-8-3	2.22	—	1223
faults-p-8-4	2.56	—	2141
faults-p-8-5	2.84	—	2951
faults-p-8-6	2.62	—	3173
faults-p-8-7	2.76	—	3133
faults-p-8-8	2.49	—	3069
faults-p-9-1	1.47	—	139
faults-p-9-2	2.07	—	609
faults-p-9-3	2.50	—	1806
faults-p-9-4	3.66	—	3588
faults-p-9-5	4.44	—	5492
faults-p-9-6	4.35	—	6622
faults-p-9-7	4.69	—	6865
faults-p-9-8	4.65	—	6743
faults-p-9-9	4.68	—	6653
Total	144.52	inf	24789
Coverage	54 / 55		

chain-of-rooms

Problem	FF		n
	t	e	
chain-of-rooms-p10	1.72	—	72
chain-of-rooms-p20	3.07	—	182
chain-of-rooms-p30	3.16	—	299
chain-of-rooms-p40	4.59	—	427
chain-of-rooms-p50	5.85	—	545
chain-of-rooms-p60	9.63	—	665
chain-of-rooms-p70	15.88	—	793
chain-of-rooms-p80	24.32	—	923
chain-of-rooms-p90	34.32	—	1041
chain-of-rooms-p100	50.26	—	1169
Coverage	10 / 10		

Problem	FF		n
	t	e	
chain-of-rooms-p10	1.72	—	72
chain-of-rooms-p20	3.07	—	182
chain-of-rooms-p30	3.16	—	299
chain-of-rooms-p40	4.59	—	427
chain-of-rooms-p50	5.85	—	545
chain-of-rooms-p60	9.63	—	665
chain-of-rooms-p70	15.88	—	793
chain-of-rooms-p80	24.32	—	923
chain-of-rooms-p90	34.32	—	1041
chain-of-rooms-p100	50.26	—	1169

Total	152.8	inf	4614
Coverage	10 / 10		

forest-new

Problem	<i>t</i>	FF		<i>n</i>
		<i>t</i>	<i>e</i>	
forest-p-2-1	465.69	—	—	3432
forest-p-2-2	629.18	—	—	3832
forest-p-2-3	535.83	—	—	4075
forest-p-2-5	533.28	—	—	3432
forest-p-2-8	204.67	—	—	3082
forest-p-2-9	1651.58	—	—	4104
Coverage	6 / 90			

Problem	<i>t</i>	FF		<i>n</i>
		<i>t</i>	<i>e</i>	
forest-p-2-1	465.69	—	—	3432
forest-p-2-2	629.18	—	—	3832
forest-p-2-3	535.83	—	—	4075
forest-p-2-5	533.28	—	—	3432
forest-p-2-8	204.67	—	—	3082
forest-p-2-9	1651.58	—	—	4104
Total	4020.23	inf	inf	17580
Coverage	6 / 90			