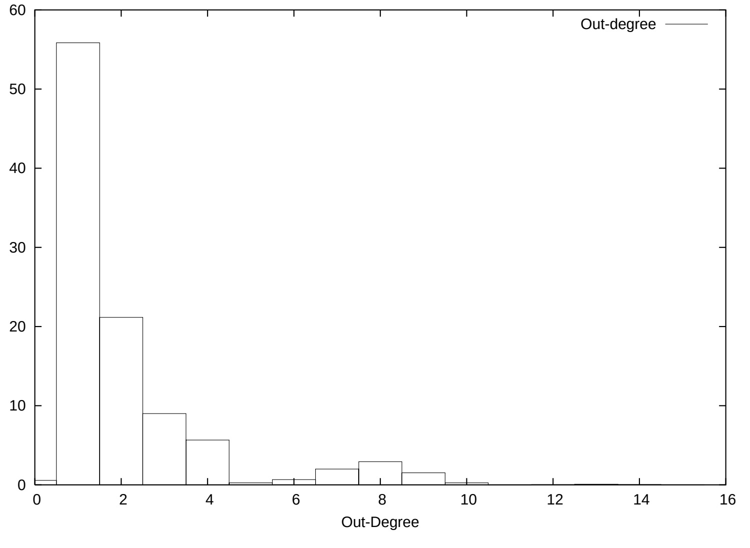
Graph: spin/snoopy.red

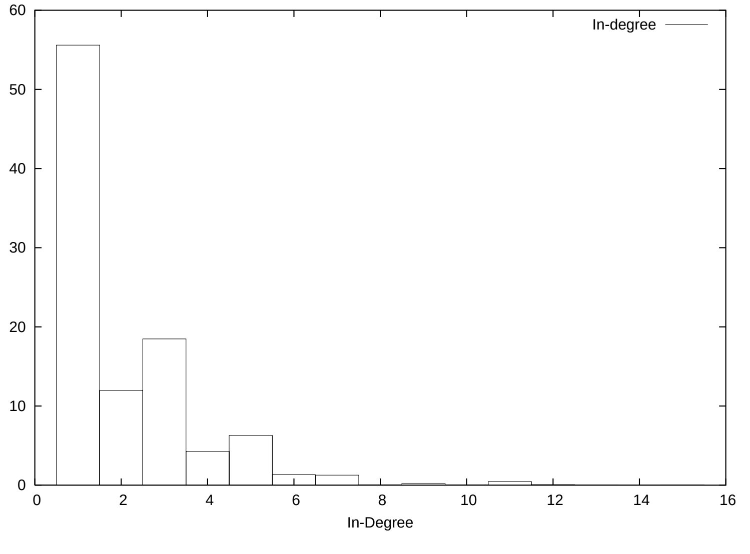
General Info

Example title	Snooping cache algorithm
Parameter	
Reduction	POR
Modification	
States	14,361
Edges	29,984
Average degree	2

Out-Degrees distribution:



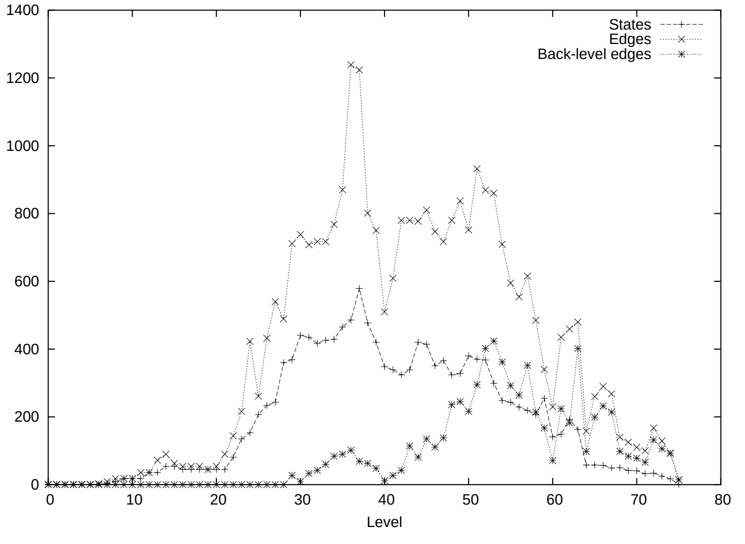
In-Degrees distribution:



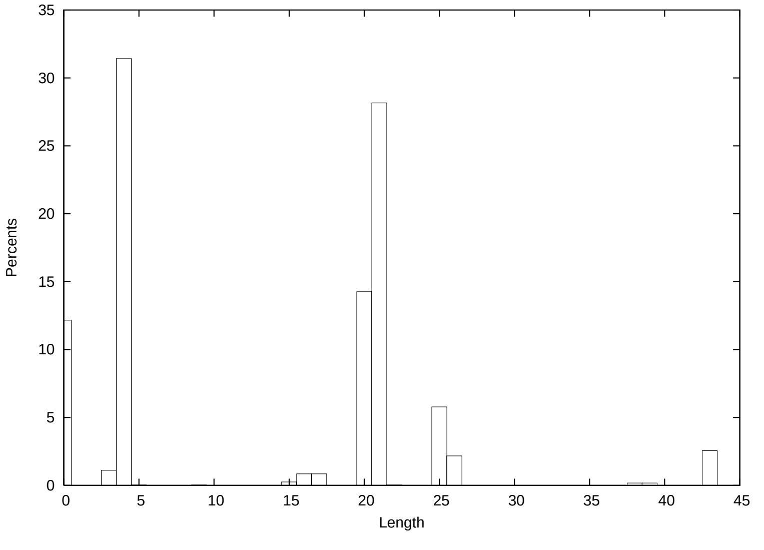
BFS Info

BFS height	75
BFS width	579 (4%)
Back level edges	7,048 (23.5%)

BFS level info:



Back level edges lengths:



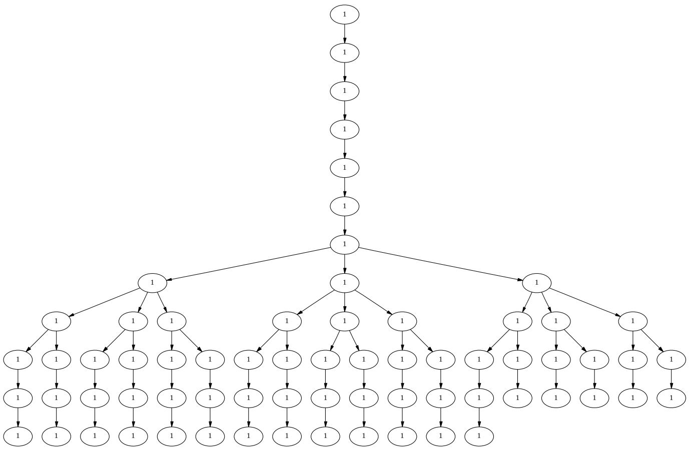
SCC Info

SCC components	6,683
SCC quetient height	86
SCC quetient nontrivial height	15
Number of terminal components	81
The largest component is	intermediate

Statistics according to **sizes**:

Size	Number of components	Number of states here
7,491	1	52.1%
5	47	1.6%
1	6,635	46.2%

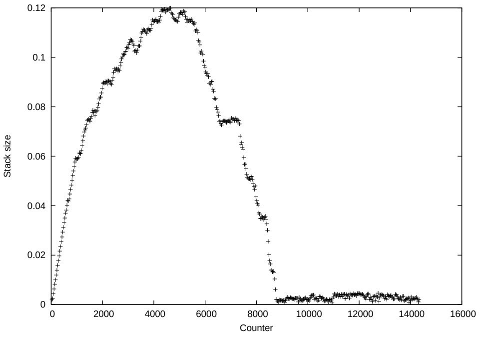
SCC component graph (part):



DFS Info

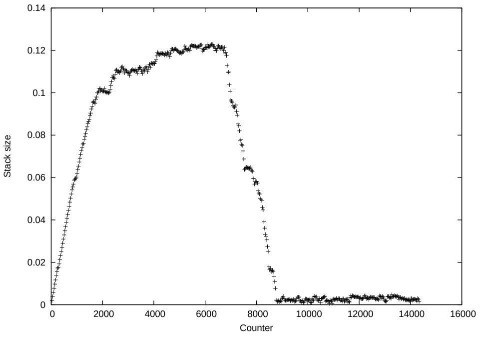
Run 0

front-edges : back-edges : cross-edges = 14,360 : 2,407 : 13,217 = 47.8%:8%:44%
Max. stack size: 1,728 (12%)
Shortest cycle detected: 5
Most often detected lengths of cycles: 5 (313), 107 (33), 703 (31), 151 (28), 247 (27)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 14,360 : 2,648 : 12,976 = 47.8%:8.8%:43.2%
Max. stack size: 1,768 (12.3%)
Shortest cycle detected: 5
Most often detected lengths of cycles: 5 (320), 1429 (44), 1049 (38), 102 (38), 990 (28)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	0	(0%)
4	0	(0%)
5	1,442	(10%)

Diamonds

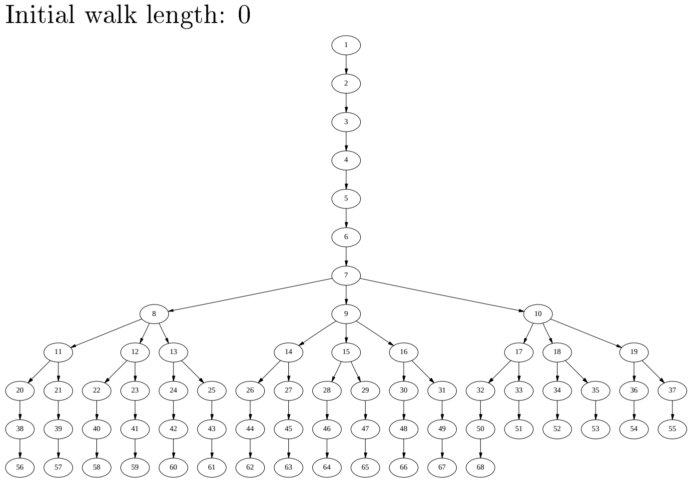
3,575 (24.8%)

Neighborhoods

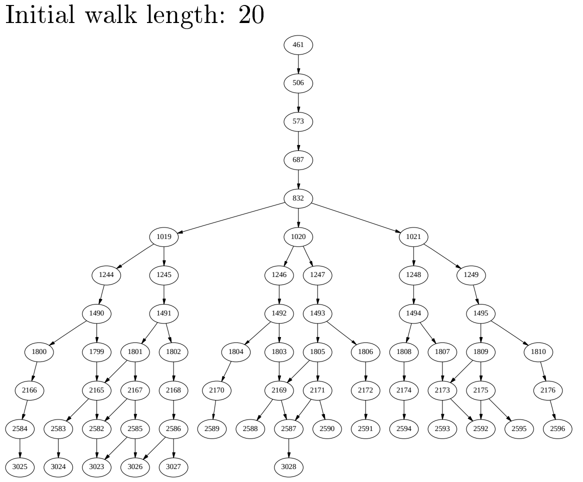
k	avg size	avg clustering
1	2.6	1.1
2	5.2	1.2
3	8.7	1.3
4	13.3	1.3

Visualization of some parts of the state state space:

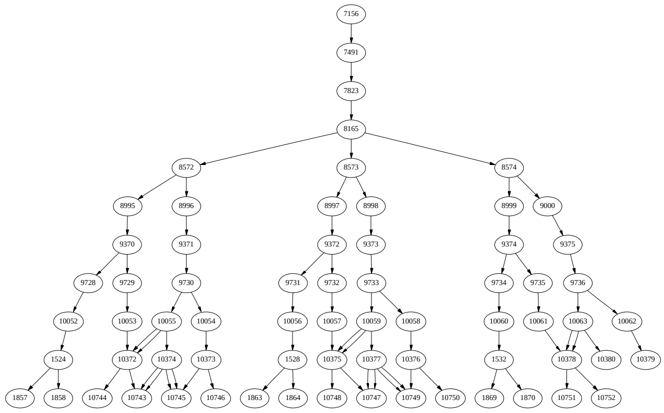
Initial walk length: 0



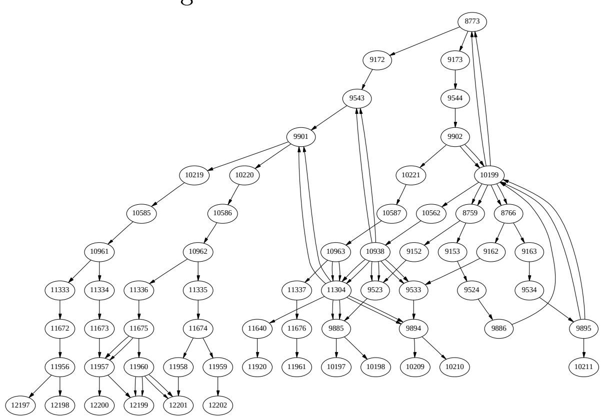
Initial walk length: 20



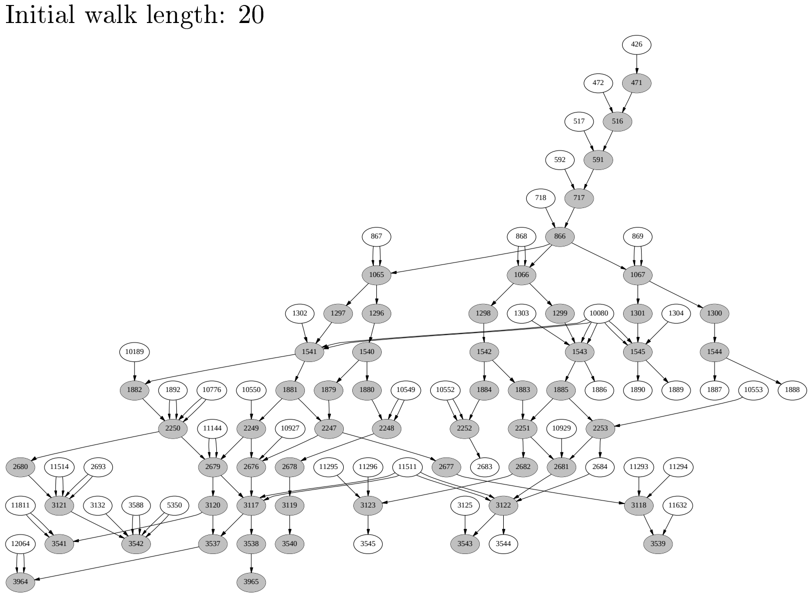
Initial walk length: 40



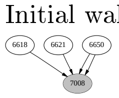
Initial walk length: 60



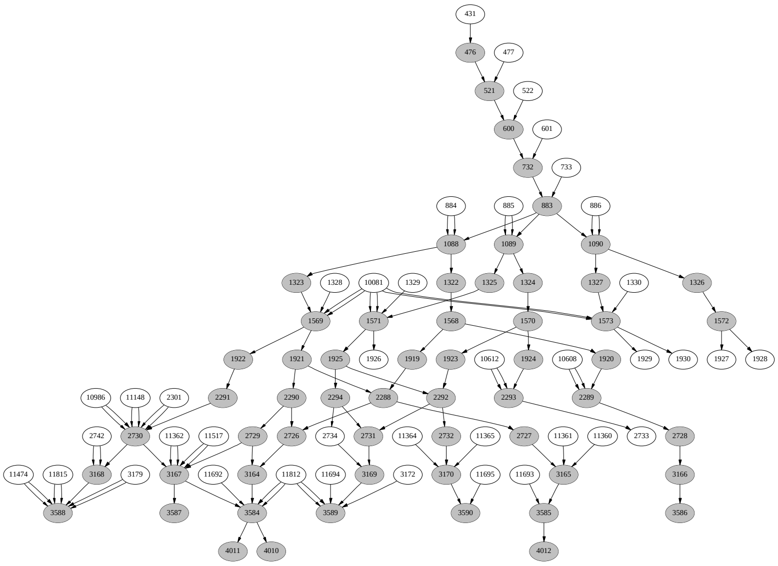
Initial walk length: 20



Initial walk length: 40



Initial walk length: 60


431
476
477
521
522
600
601
732
733
884
885
883
886
1088
1089
1090
1323
1328
10081
1329
1322
1325
1324
1327
1330
1326
1569
1571
1568
1570
1573
1572
1922
1921
1925
1926
1919
1923
10612
1924
10608
1920
1929
1930
1927
1928
10986
11148
2301
2291
2290
2294
2288
2292
2293
2289
2742
2730
11362
11517
2729
2726
2734
2731
11364
2732
11365
2727
11361
11360
2733
2728
11474
11815
3168
3179
3167
11692
3164
11812
11694
3169
3172
3170
11695
11693
3165
3166
3588
3587
3584
3589
3590
3585
3586
4011
4010
4012