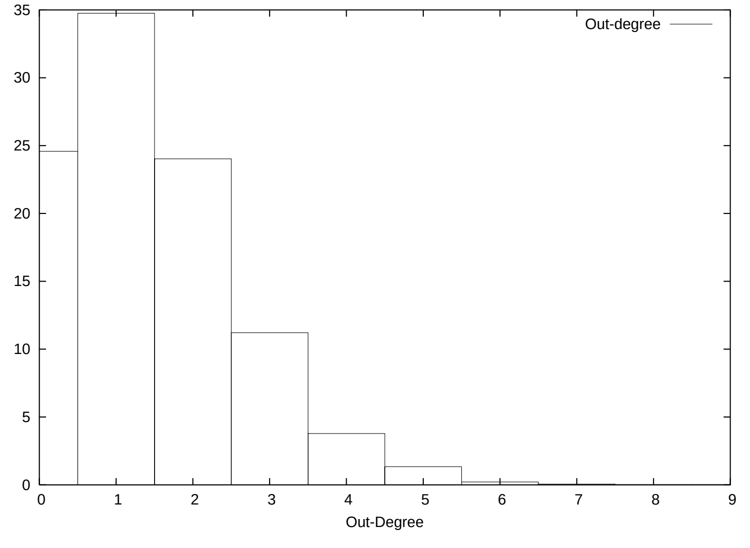
Graph: other/random_10_1.4

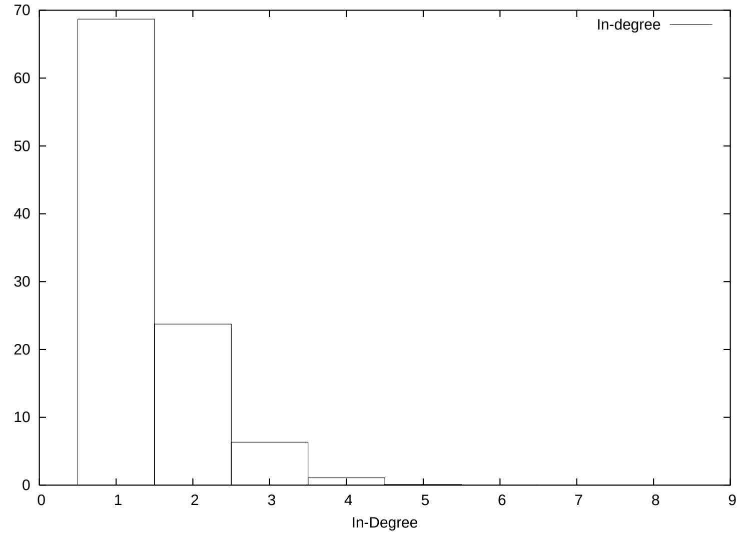
General Info

Example title	Random
Parameter	N=10000,M=14000
Reduction	
Modification	
States	5,236
Edges	7,343
Average degree	1.4

Out-Degrees distribution:



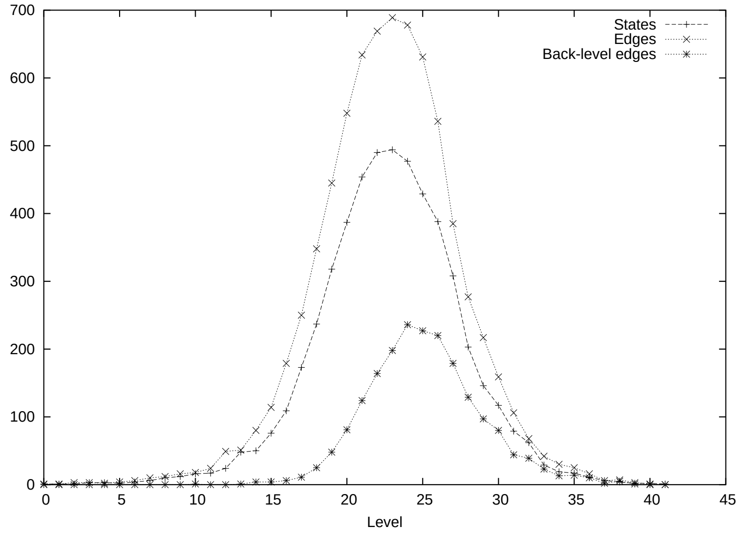
In-Degrees distribution:



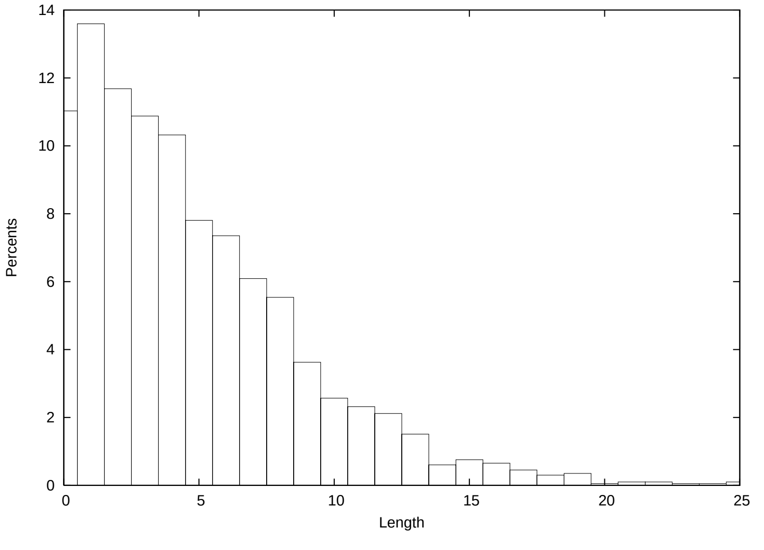
BFS Info

BFS height	41
BFS width	494 (9.4%)
Back level edges	1,986 (27%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	2,474
SCC quetient height	14
SCC quetient nontrivial height	1
Number of terminal components	1,287
The largest component is	initial

Statistics according to **sizes**:

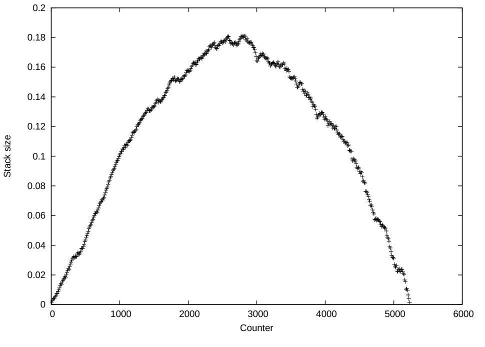
Size	Number of components	Number of states here
2,763	1	52.7%
1	2,473	47.2%

SCC component graph (part):

DFS Info

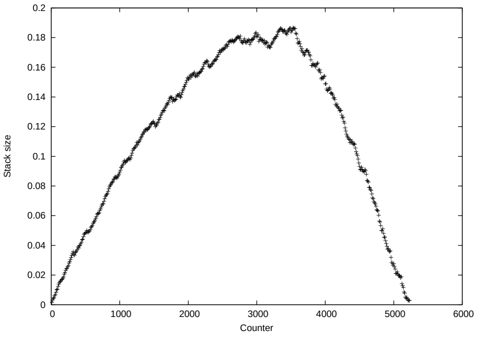
Run 0

front-edges : back-edges : cross-edges = 5,235 : 439 : 1,669 = 71.2%:5.9%:22.7%
Max. stack size: 953 (18.2%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 101 (4), 246 (4), 546 (4), 195 (3), 201 (3)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 5,235 : 425 : 1,683 = 71.2%:5.7%:22.9%
Max. stack size: 980 (18.7%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 191 (4), 30 (4), 84 (3), 129 (3), 135 (3)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	6	(0.1%)
4	4	(0%)
5	0	(0%)
6	6	(0.1%)

Diamonds

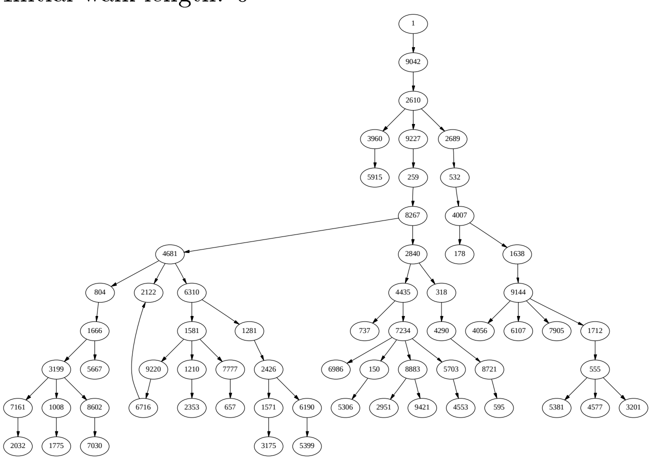
1 (0%)

Neighborhoods

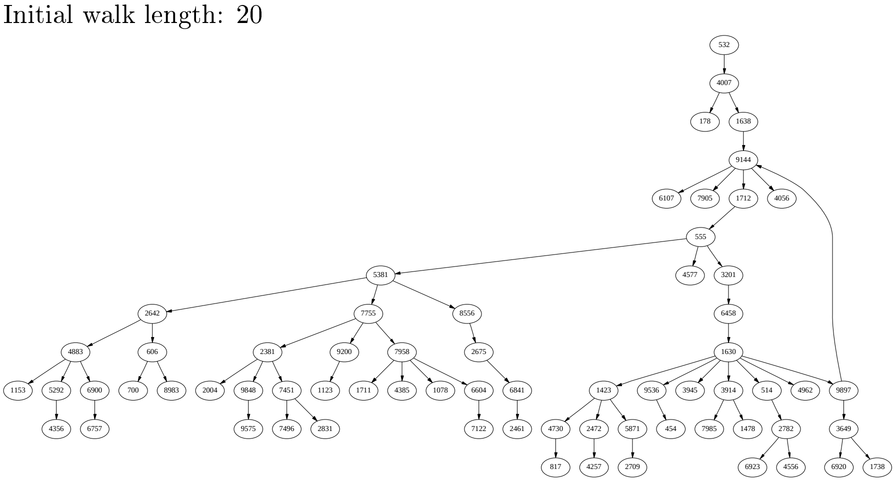
k	avg size	avg clustering
1	2.4	1
2	4.3	1
3	7	1
4	10.9	1

Visualization of some parts of the state state space:

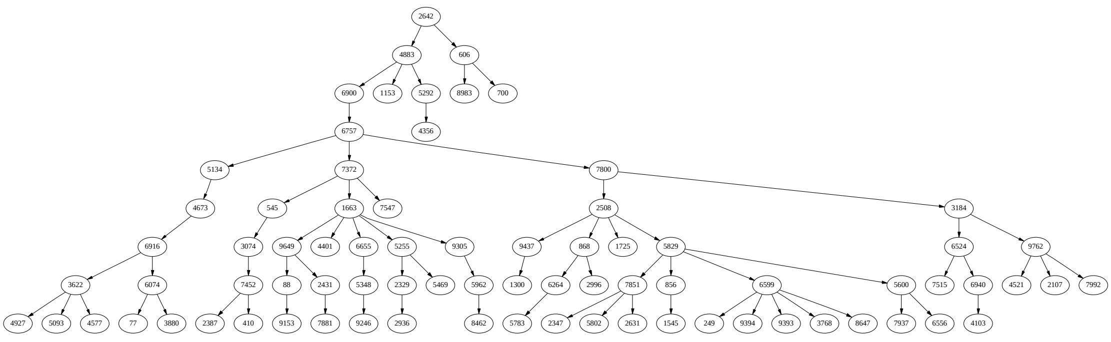
Initial walk length: 0



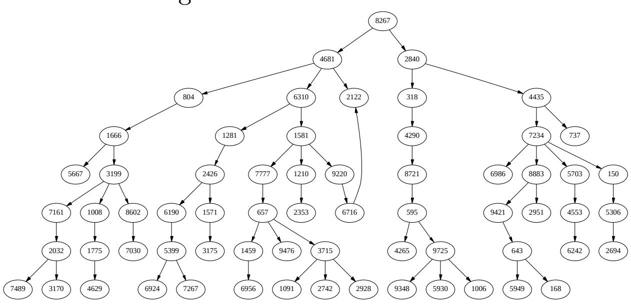
Initial walk length: 20



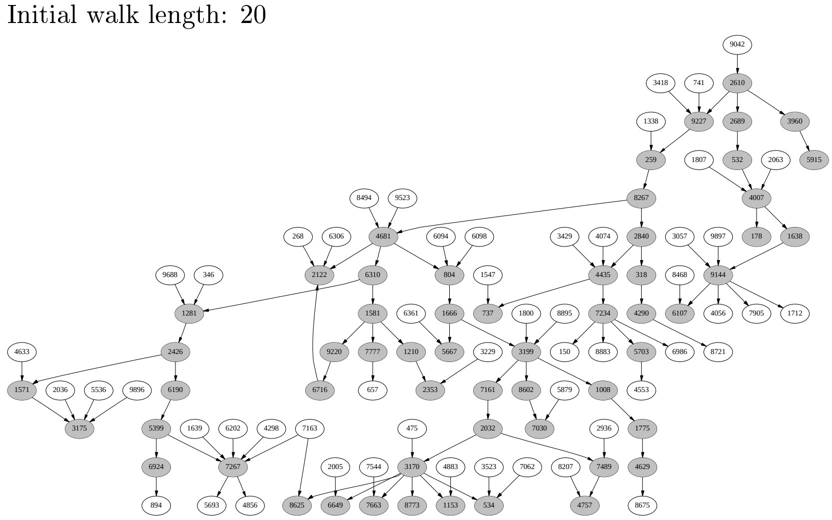
Initial walk length: 40



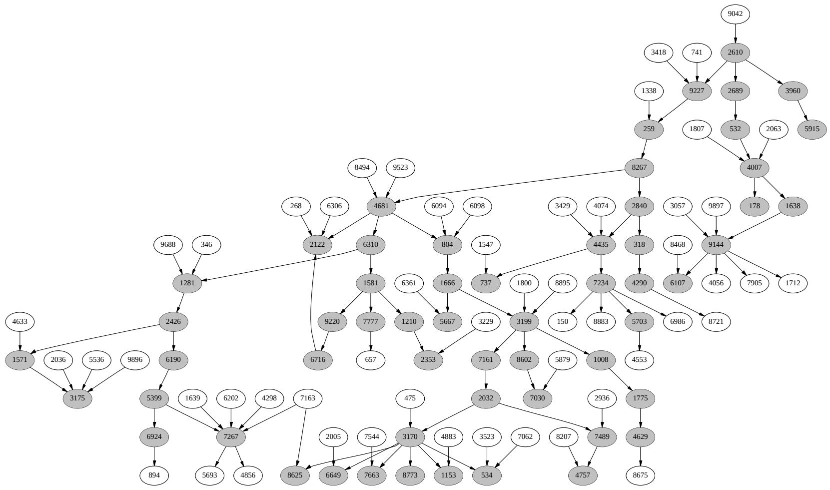
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60