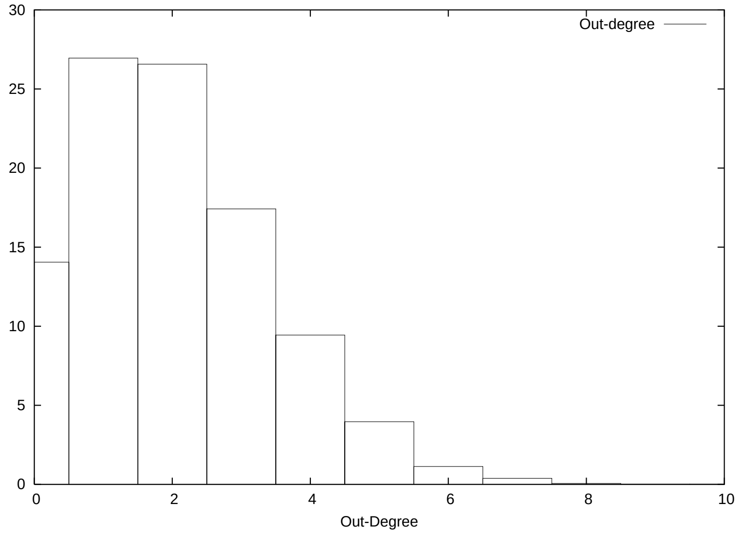
Graph: other/random_10_2

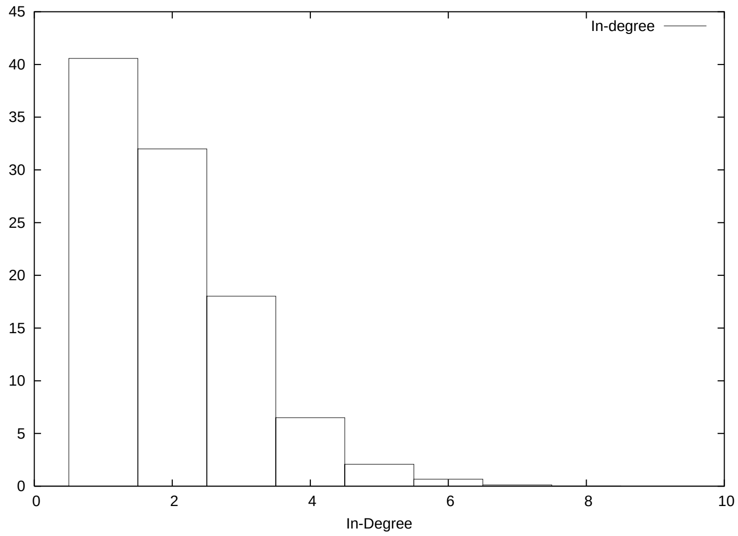
General Info

Example title	Random
Parameter	N=10000,M=20000
Reduction	
Modification	
States	8,050
Edges	16,111
Average degree	2

Out-Degrees distribution:



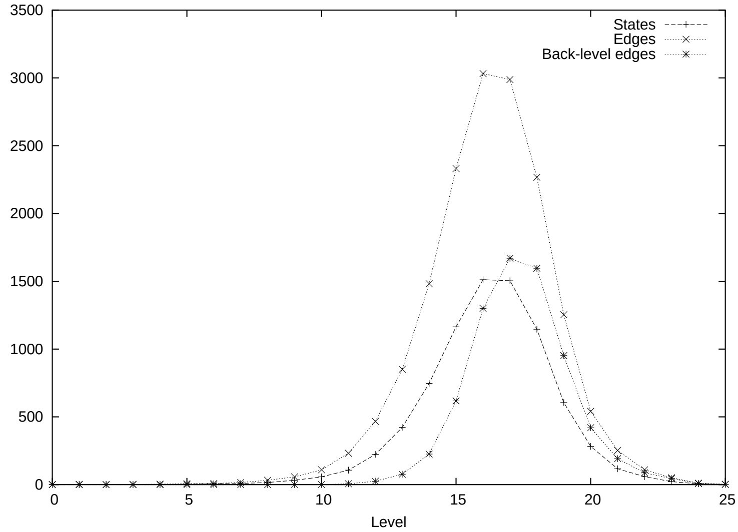
In-Degrees distribution:



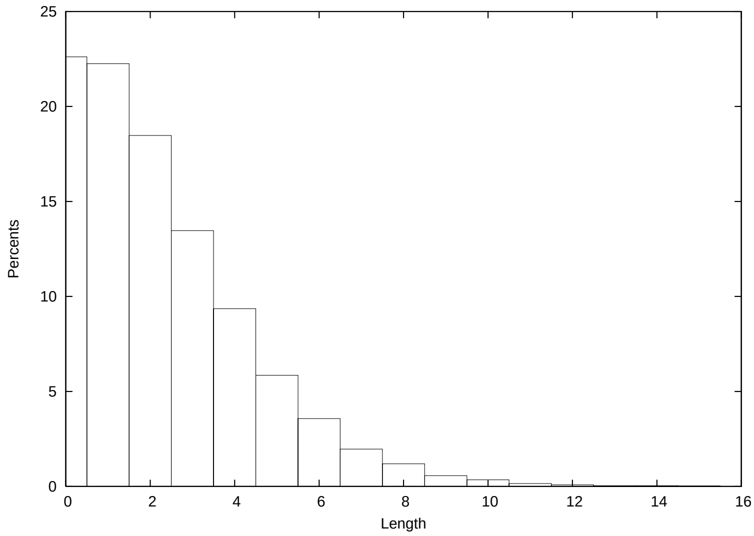
BFS Info

BFS height	25
BFS width	1,512 (18.7%)
Back level edges	7,226 (44.8%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	1,695
SCC quetient height	13
SCC quetient nontrivial height	2
Number of terminal components	1,131
The largest component is	intermediate

Statistics according to **sizes**:

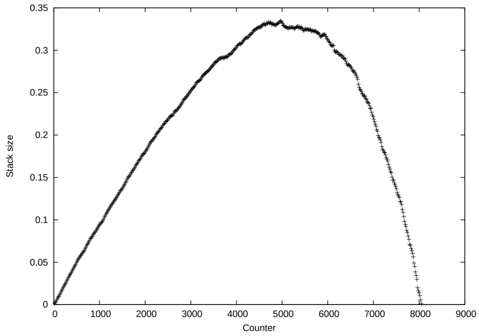
Size	Number of components	Number of states here
6,356	1	78.9%
1	1,694	21%

SCC component graph (part):

DFS Info

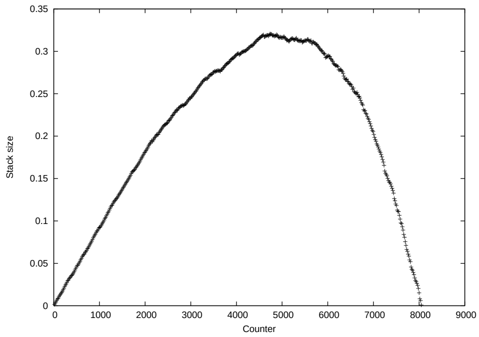
Run 0

front-edges : back-edges : cross-edges = 8,049 : 2,793 : 5,269 = 49.9%:17.3%:32.7%
Max. stack size: 2,696 (33.4%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 739 (7), 1336 (6), 626 (6), 662 (6), 429 (6)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 8,049 : 2,595 : 5,467 = 49.9%:16.1%:33.9%
Max. stack size: 2,587 (32.1%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 53 (7), 49 (7), 197 (7), 1192 (7), 85 (6)
Stack graph:



Local Structure

Short cycles(up to 6)

2	2	(0%)
3	3	(0%)
4	12	(0.1%)
5	20	(0.2%)
6	96	(1.1%)

Diamonds

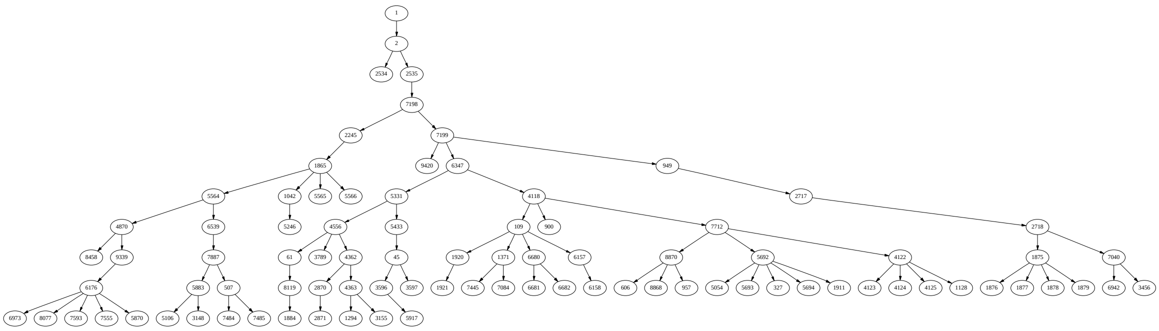
4 (0%)

Neighborhoods

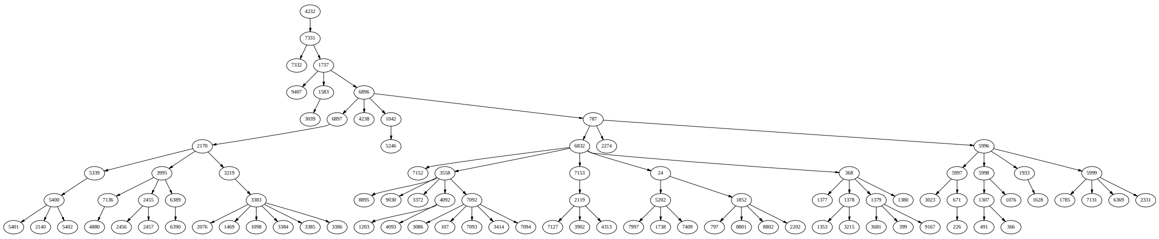
k	avg size	avg clustering
1	3	1
2	6.9	1
3	14.9	1
4	30.7	1

Visualization of some parts of the state state space:

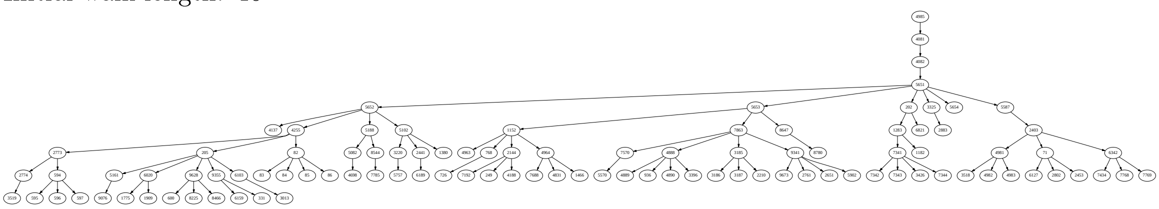
Initial walk length: 0



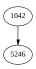
Initial walk length: 20



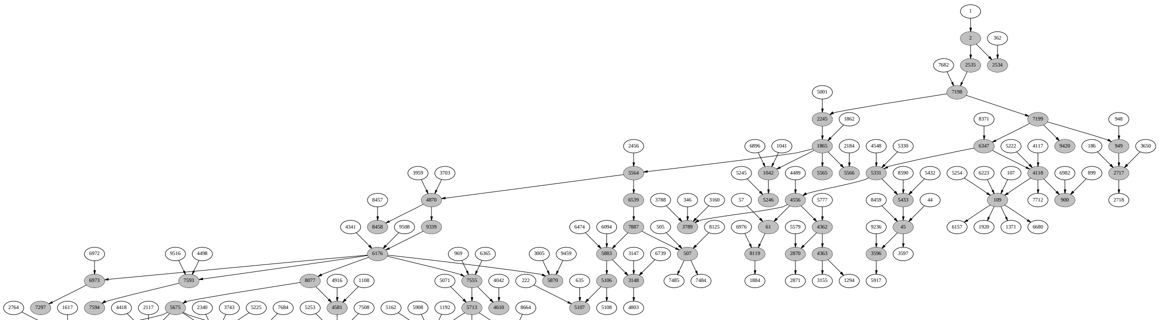
Initial walk length: 40



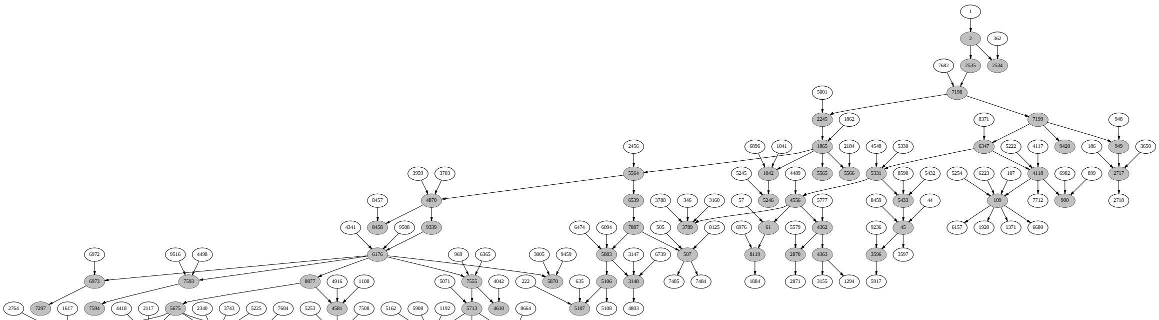
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60