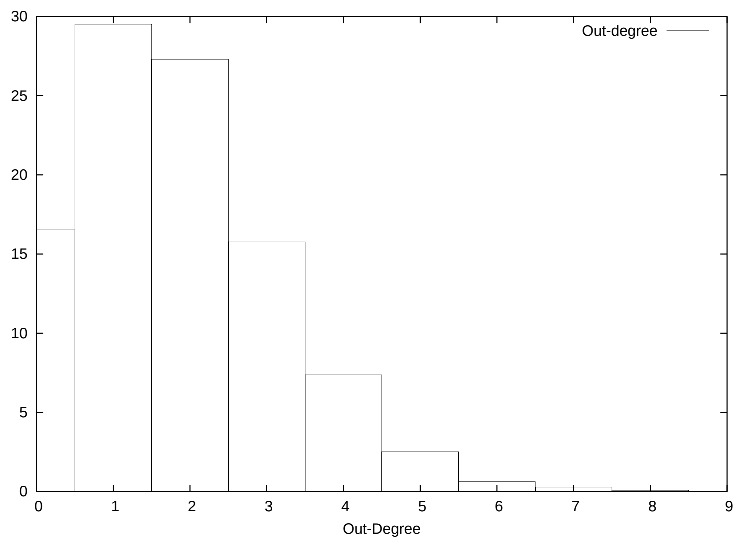
Graph: other/random_10_1.8

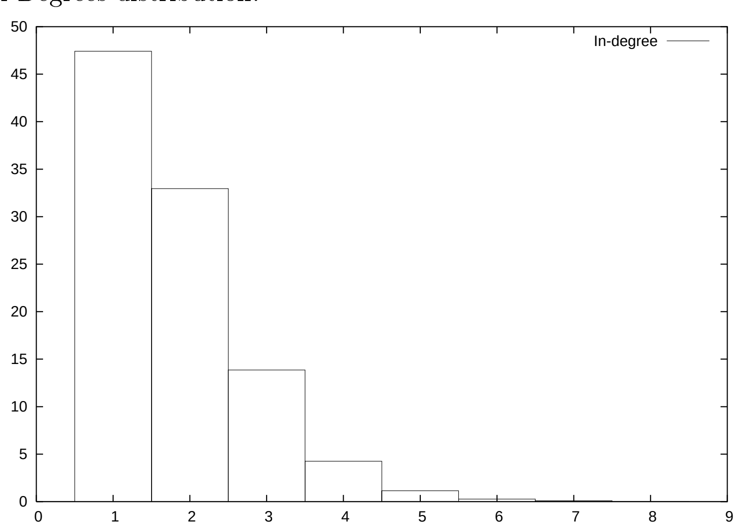
General Info

Example title	Random
Parameter	N=10000,M=18000
Reduction	
Modification	
States	7,384
Edges	13,294
Average degree	1.8

Out-Degrees distribution:



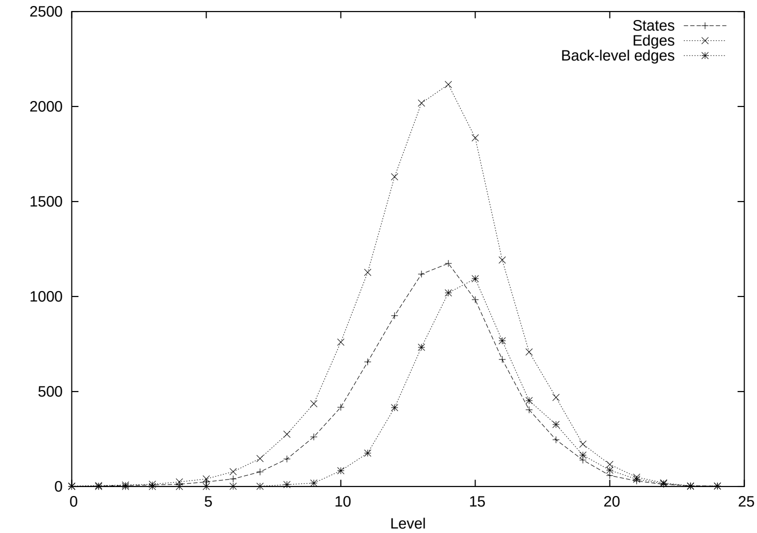
In-Degrees distribution:



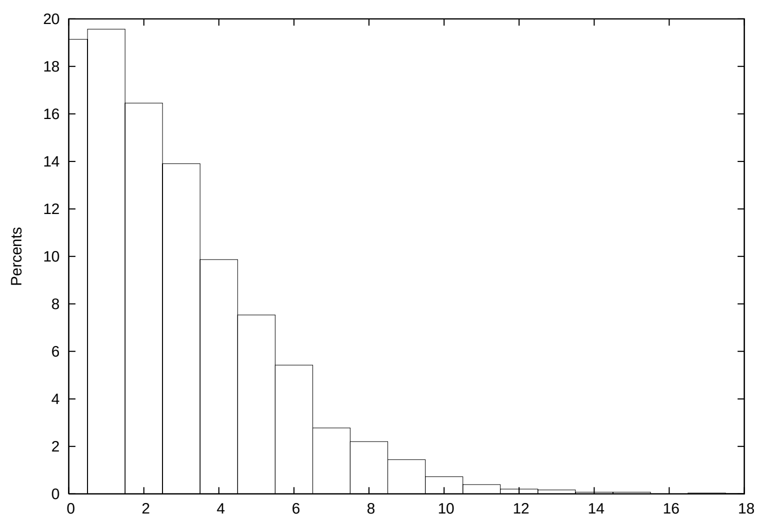
BFS Info

BFS height	24
BFS width	1,174 (15.8%)
Back level edges	5,402 (40.6%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	1,999
SCC quetient height	11
SCC quetient nontrivial height	1
Number of terminal components	1,220
The largest component is	initial

Statistics according to **sizes**:

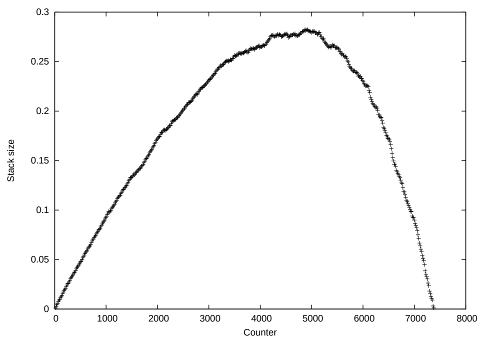
Size	Number of components	Number of states here
5,386	1	72.9%
1	1,998	27%

SCC component graph (part):

DFS Info

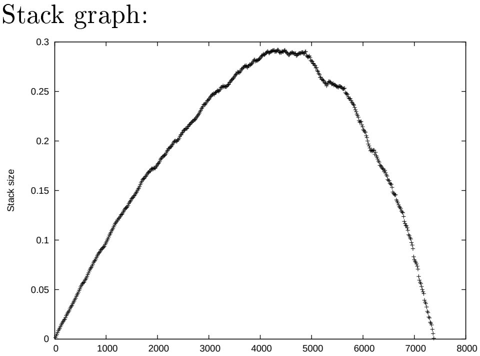
Run 0

front-edges : back-edges : cross-edges = 7,383 : 1,773 : 4,138 = 55.5%:13.3%:31.1%
Max. stack size: 2,089 (28.2%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 580 (7), 946 (5), 118 (5), 1388 (5), 610 (5)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 7,383 : 1,760 : 4,151 = 55.5%:13.2%:31.2%
Max. stack size: 2,158 (29.2%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 757 (6), 234 (5), 830 (5), 222 (5), 317 (5)
Stack graph:



Local Structure

Short cycles(up to 6)

2	4	(0%)
3	6	(0%)
4	8	(0.1%)
5	20	(0.2%)
6	24	(0.3%)

Diamonds

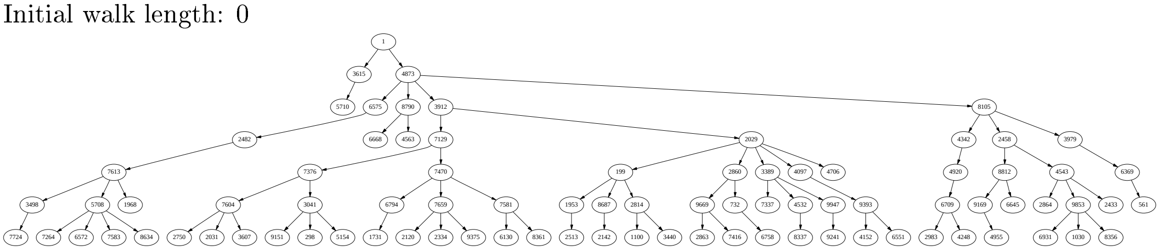
1 (0%)

Neighborhoods

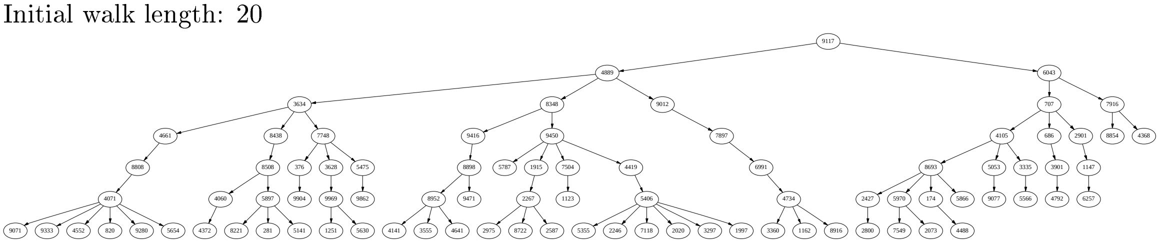
k	avg size	avg clustering
1	2.8	1
2	6	1
3	11.8	1
4	22.3	1

Visualization of some parts of the state state space:

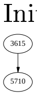
Initial walk length: 0



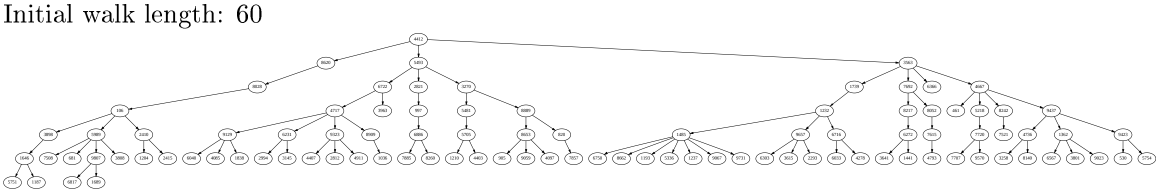
Initial walk length: 20



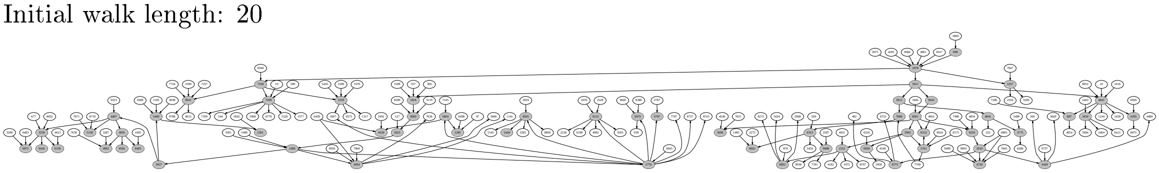
Initial walk length: 40



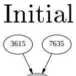
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60