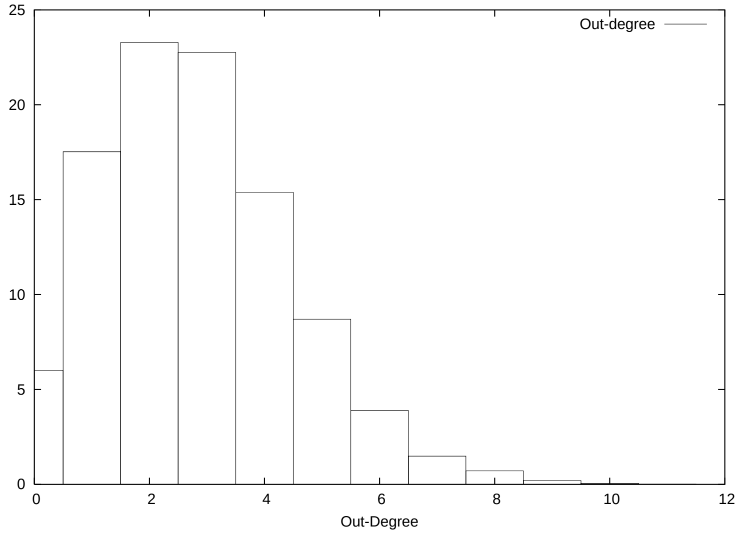
Graph: other/random_10_2.8

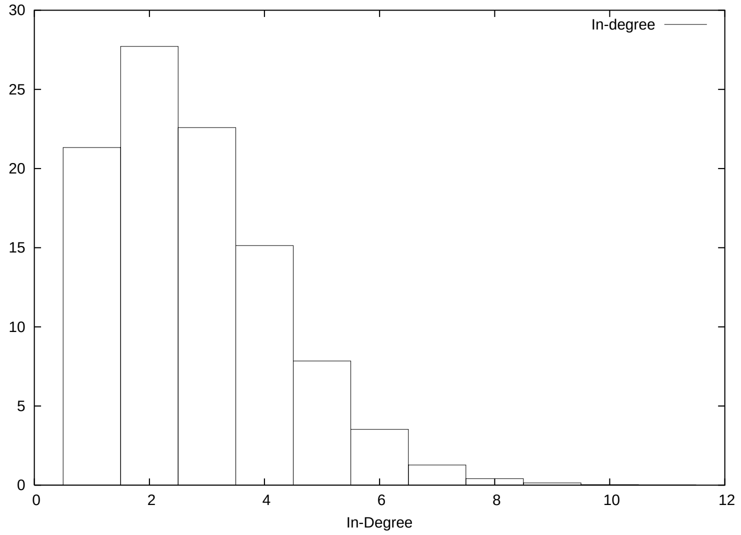
General Info

Example title	Random
Parameter	N=10000,M=28000
Reduction	
Modification	
States	9,283
Edges	25,927
Average degree	2.7

Out-Degrees distribution:



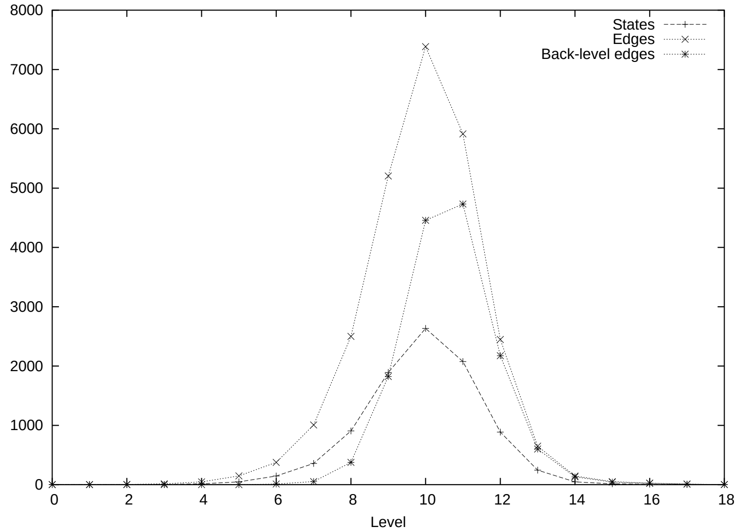
In-Degrees distribution:



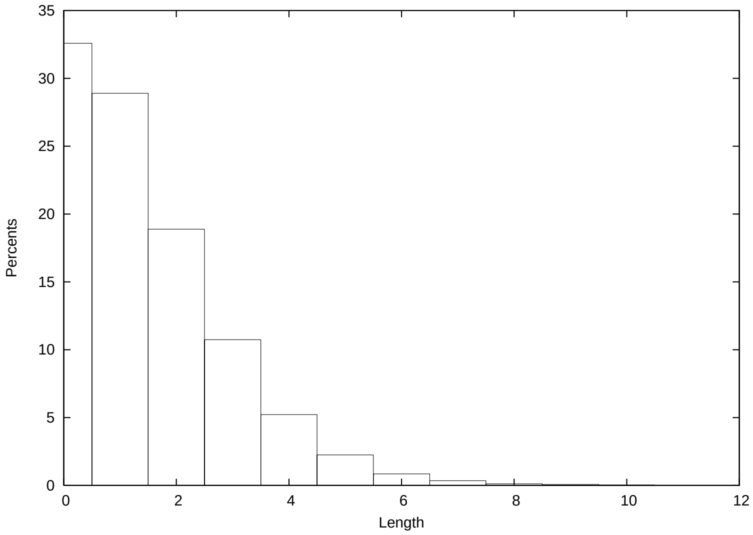
BFS Info

BFS height	18
BFS width	2,635 (28.3%)
Back level edges	14,432 (55.6%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	686
SCC quetient height	6
SCC quetient nontrivial height	1
Number of terminal components	556
The largest component is	initial

Statistics according to **sizes**:

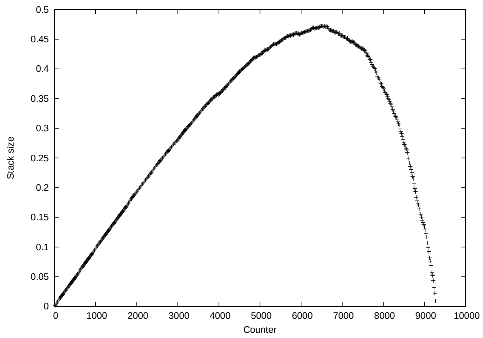
Size	Number of components	Number of states here
8,598	1	92.6%
1	685	7.3%

SCC component graph (part):

DFS Info

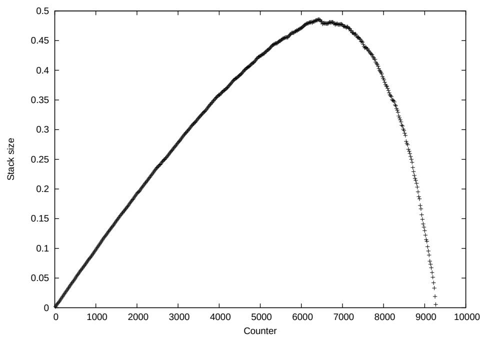
Run 0

front-edges : back-edges : cross-edges = 9,282 : 7,048 : 9,597 = 35.8%:27.1%:37%
Max. stack size: 4,386 (47.2%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 367 (9), 55 (8), 729 (8), 559 (8), 1592 (8)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 9,282 : 7,169 : 9,476 = 35.8%:27.6%:36.5%
Max. stack size: 4,510 (48.5%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 145 (9), 110 (9), 85 (8), 407 (8), 1363 (7)
Stack graph:



Local Structure

Short cycles(up to 6)

2	10	(0.1%)
3	36	(0.3%)
4	68	(0.7%)
5	162	(1.7%)
6	399	(4.2%)

Diamonds

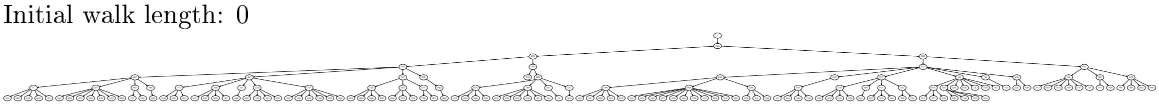
27 (0.2%)

Neighborhoods

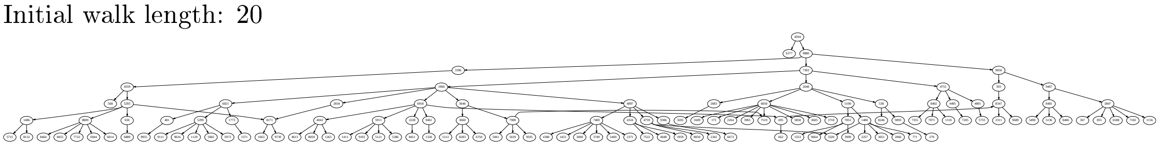
k	avg size	avg clustering
1	3.7	1
2	11.5	1
3	32.9	1
4	91.8	1

Visualization of some parts of the state state space:

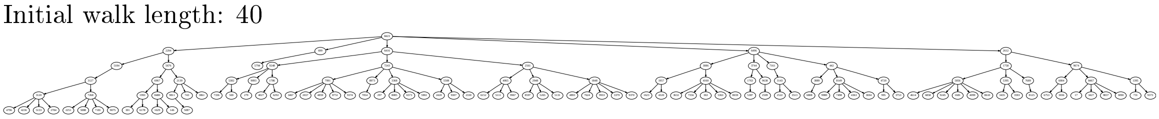
Initial walk length: 0



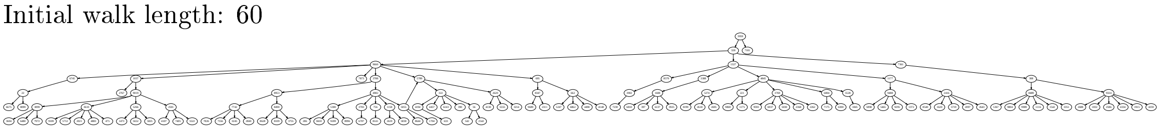
Initial walk length: 20



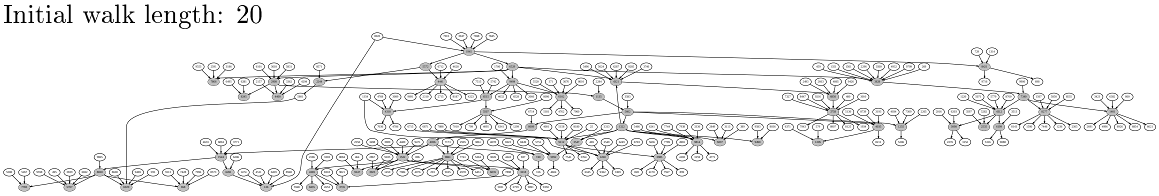
Initial walk length: 40



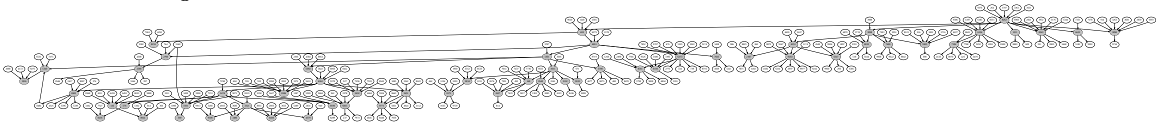
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60