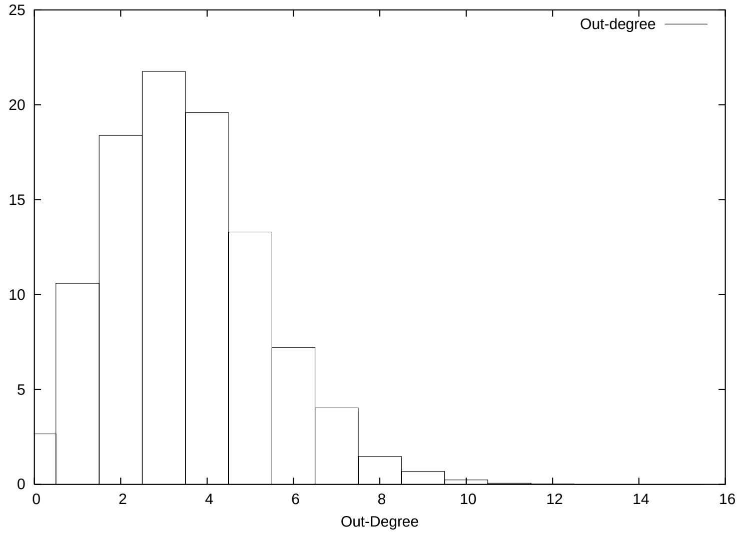
Graph: other/random_10_3.5

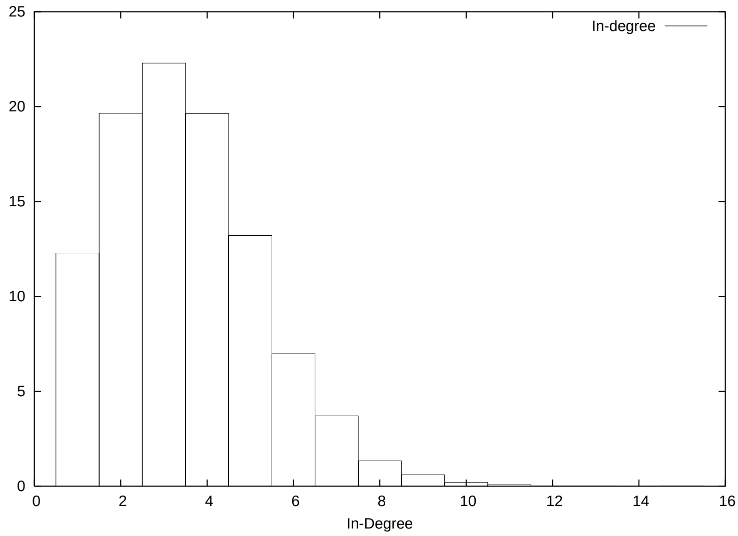
General Info

Example title	Random
Parameter	N=10000,M=35000
Reduction	
Modification	
States	9,654
Edges	33,806
Average degree	3.5

Out-Degrees distribution:



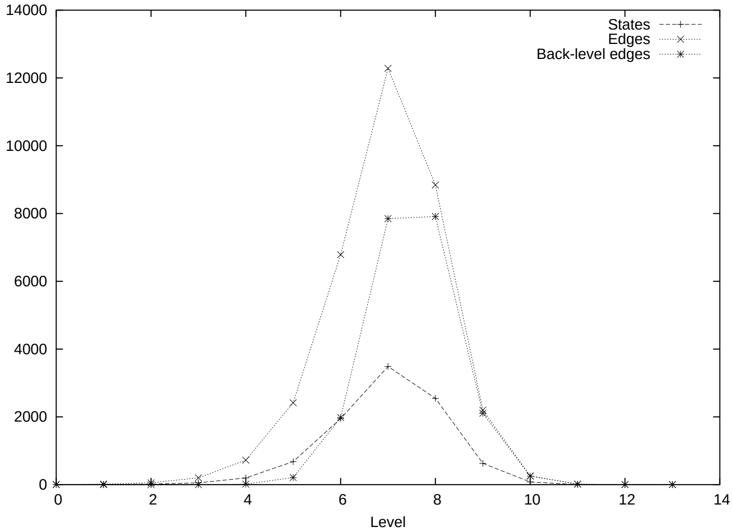
In-Degrees distribution:



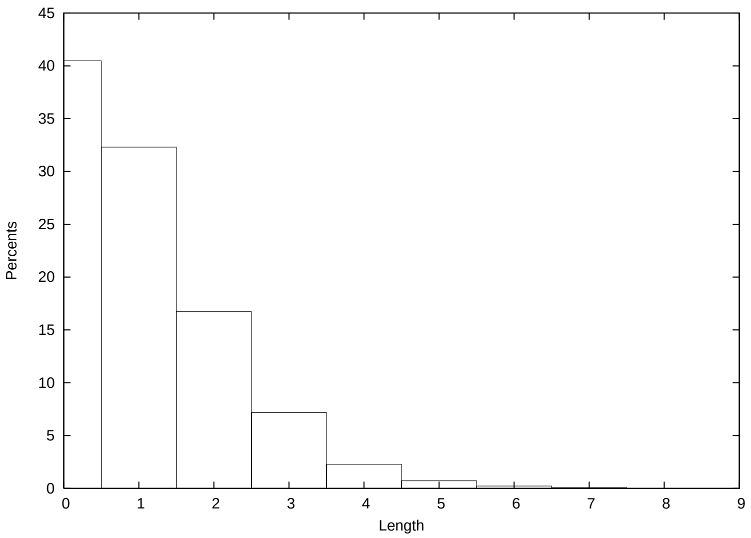
BFS Info

BFS height	13
BFS width	3,487 (36.1%)
Back level edges	20,346 (60.1%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	292
SCC quetient height	3
SCC quetient nontrivial height	1
Number of terminal components	257
The largest component is	initial

Statistics according to **sizes**:

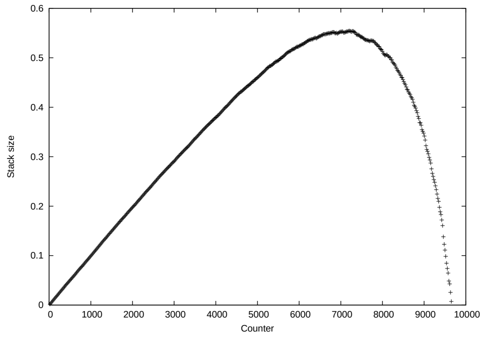
Size	Number of components	Number of states here
9,363	1	96.9%
1	291	3%

SCC component graph (part):

DFS Info

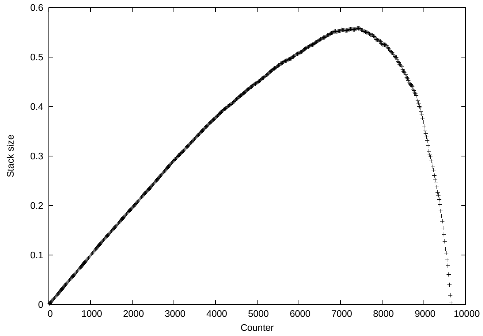
Run 0

front-edges : back-edges : cross-edges = 9,653 : 11,299 : 12,854 = 28.5%:33.4%:38%
Max. stack size: 5,356 (55.4%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 822 (11), 650 (10), 799 (10), 2279 (9), 3 (9)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 9,653 : 11,470 : 12,683 = 28.5%:33.9%:37.5%
Max. stack size: 5,397 (55.9%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 55 (11), 419 (10), 516 (10), 1656 (9), 527 (9)
Stack graph:



Local Structure

Short cycles(up to 6)

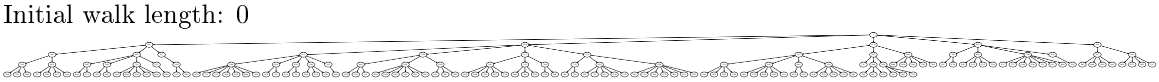
2	8	(0%)
3	69	(0.7%)
4	133	(1.3%)
5	485	(5%)
6	1,344	(13.9%)

Diamonds
71 (0.7%)

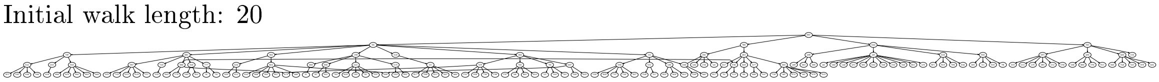
Neighborhoods

k	avg size	avg clustering
1	4.5	1
2	16.7	1
3	59.6	1
4	207.5	1

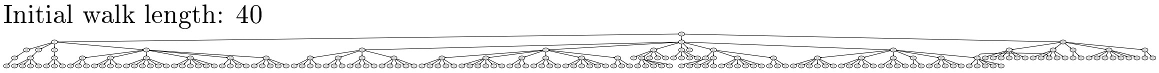
Visualization of some parts of the state state space:
Initial walk length: 0



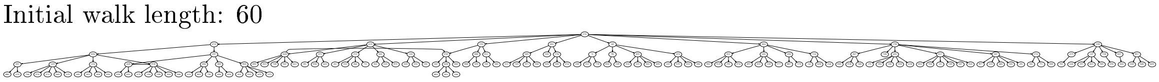
Initial walk length: 20



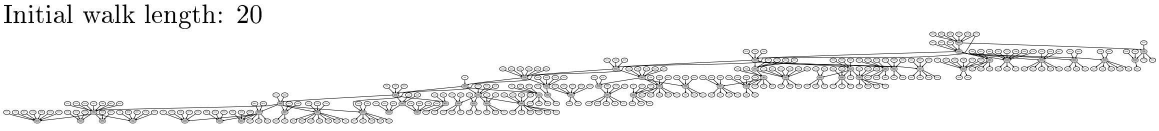
Initial walk length: 40



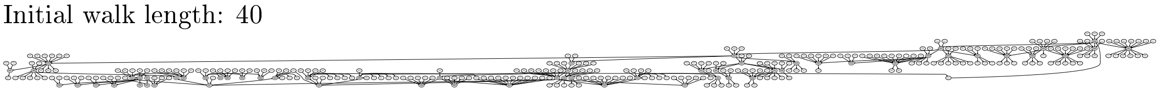
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60