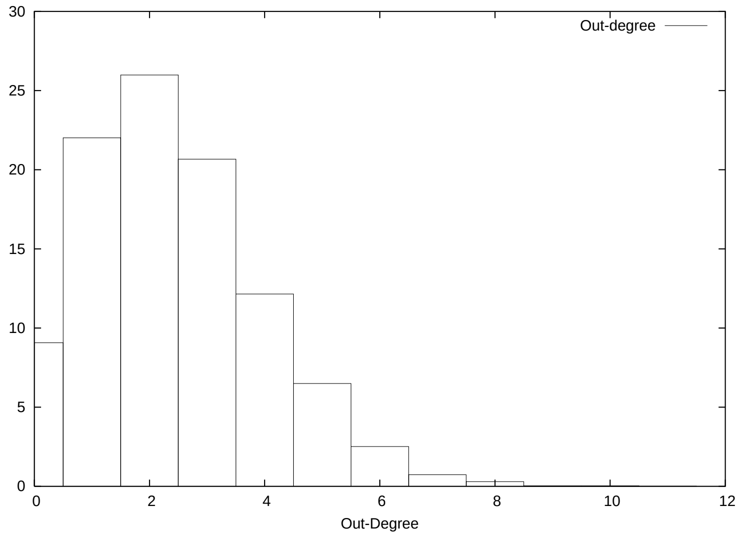
Graph: other/random_10_2.4

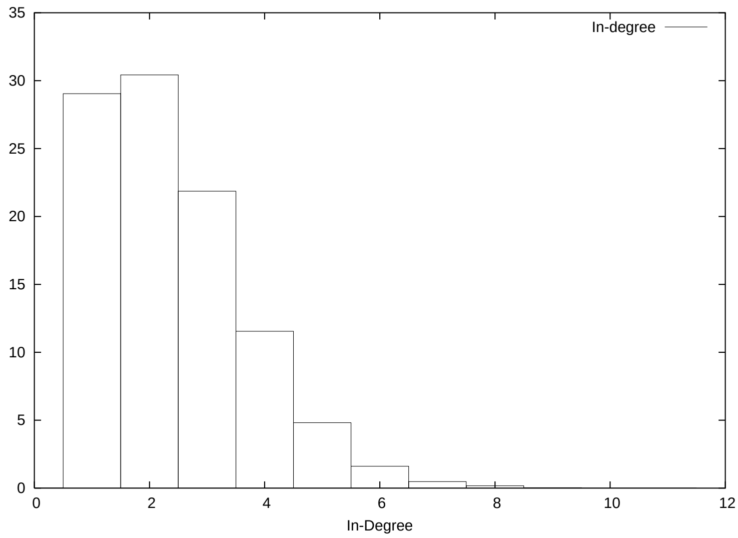
General Info

Example title	Random
Parameter	N=10000,M=24000
Reduction	
Modification	
States	8,822
Edges	21,211
Average degree	2.4

Out-Degrees distribution:



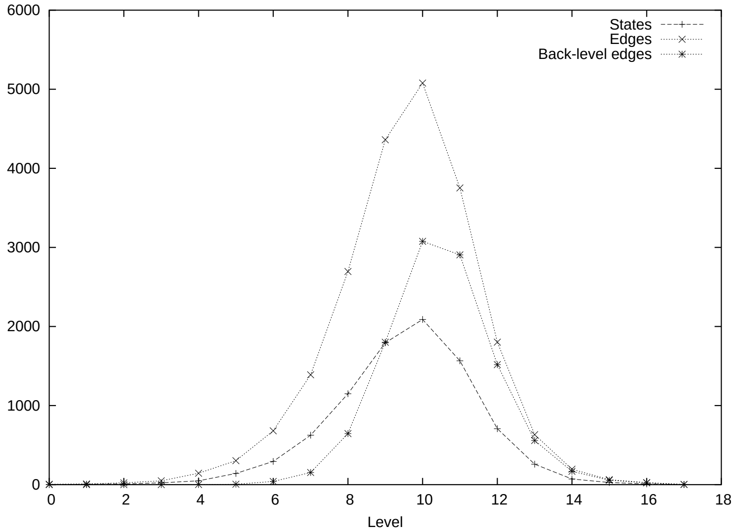
In-Degrees distribution:



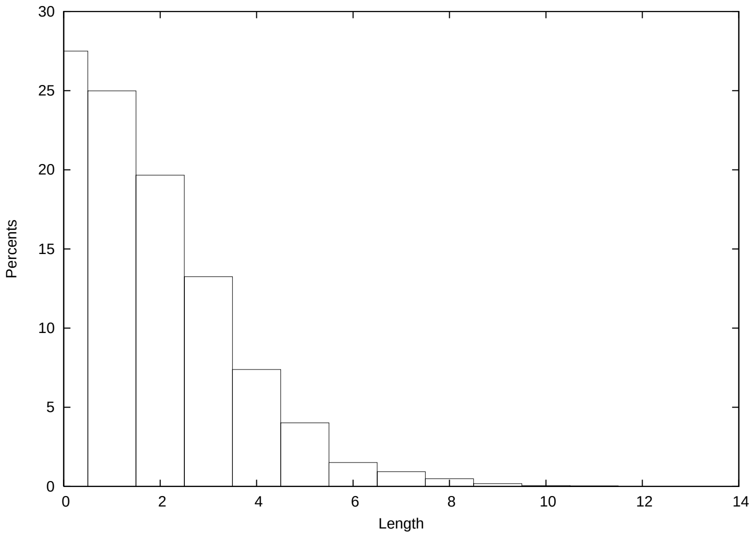
BFS Info

BFS height	17
BFS width	2,089 (23.6%)
Back level edges	10,953 (51.6%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	1,047
SCC quetient height	6
SCC quetient nontrivial height	2
Number of terminal components	800
The largest component is	intermediate

Statistics according to **sizes**:

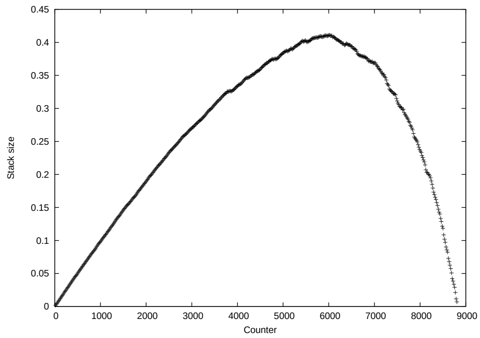
Size	Number of components	Number of states here
7,776	1	88.1%
1	1,046	11.8%

SCC component graph (part):

DFS Info

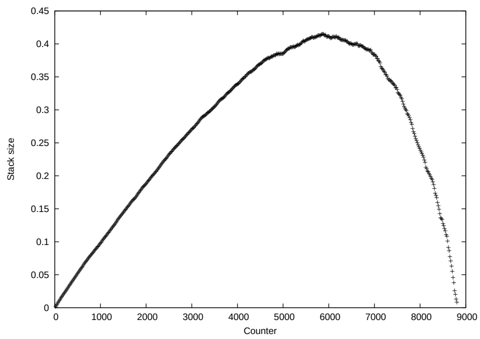
Run 0

front-edges : back-edges : cross-edges = 8,821 : 4,888 : 7,502 = 41.5%:23%:35.3%
Max. stack size: 3,631 (41.1%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 340 (8), 911 (7), 243 (7), 14 (7), 556 (7)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 8,821 : 5,048 : 7,342 = 41.5%:23.7%:34.6%
Max. stack size: 3,663 (41.5%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 11 (8), 710 (7), 191 (7), 426 (7), 1577 (7)
Stack graph:



Local Structure

Short cycles(up to 6)

2	6	(0%)
3	9	(0.1%)
4	52	(0.5%)
5	78	(0.8%)
6	191	(2.1%)

Diamonds

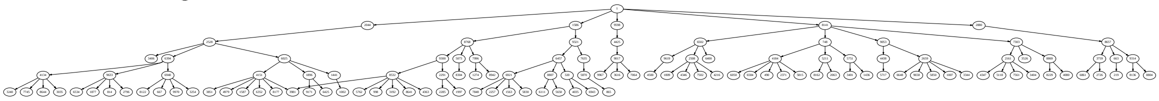
16 (0.1%)

Neighborhoods

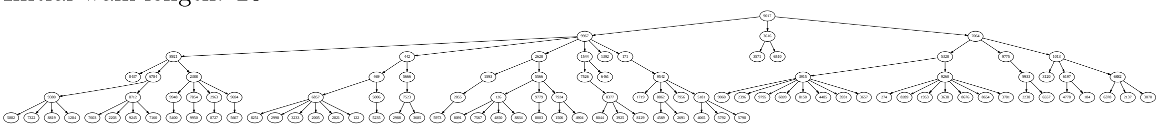
k	avg size	avg clustering
1	3.4	1
2	9.2	1
3	23.1	1
4	56.4	1

Visualization of some parts of the state state space:

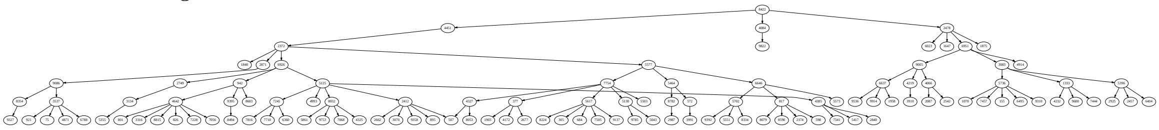
Initial walk length: 0



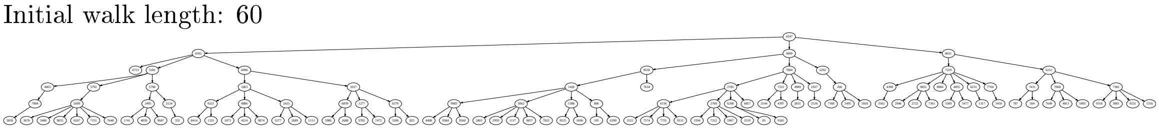
Initial walk length: 20



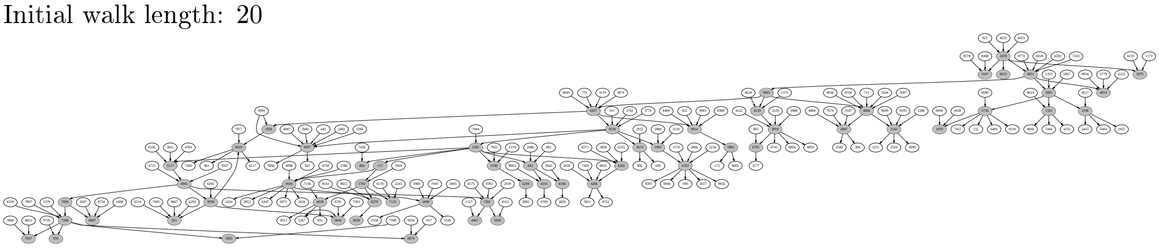
Initial walk length: 40



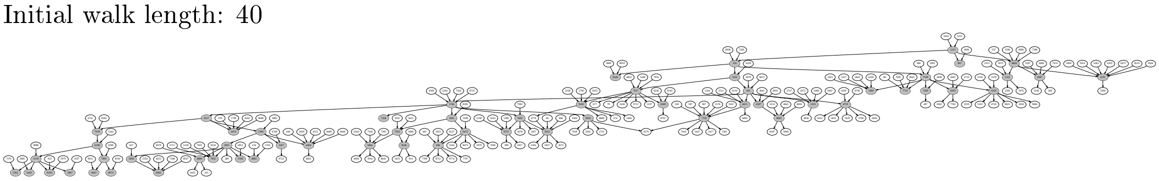
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60