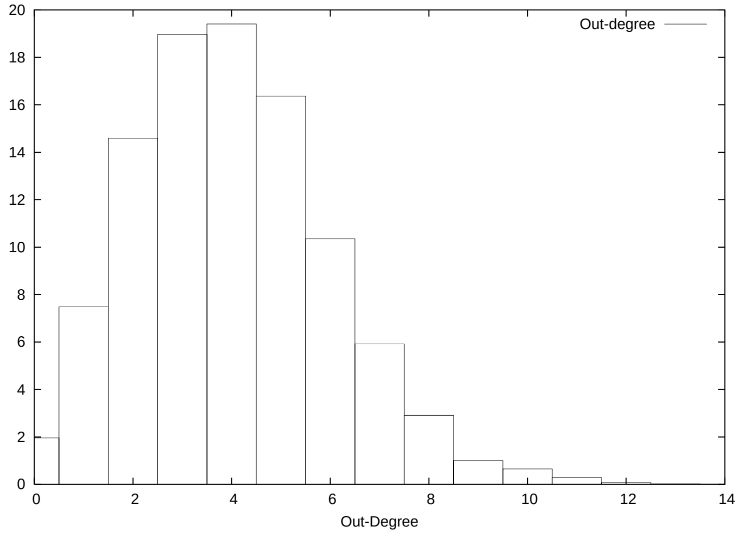
Graph: other/random_10_4

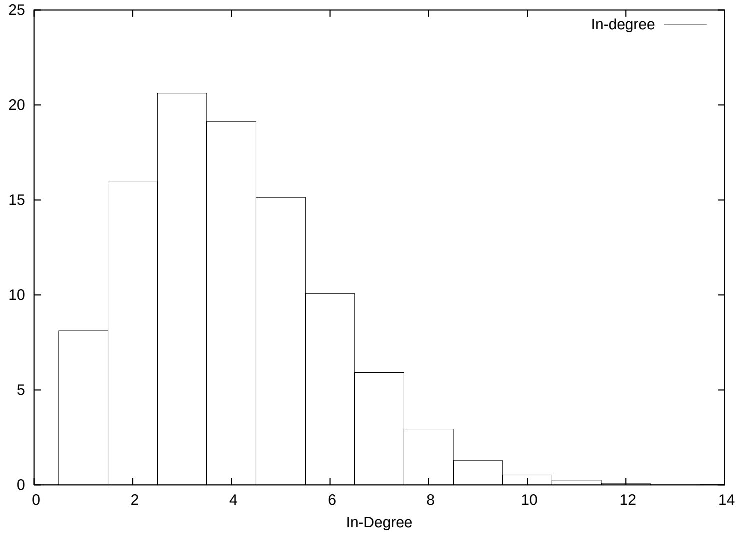
General Info

Example title	Random
Parameter	N=10000,M=40000
Reduction	
Modification	
States	9,795
Edges	39,162
Average degree	3.9

Out-Degrees distribution:



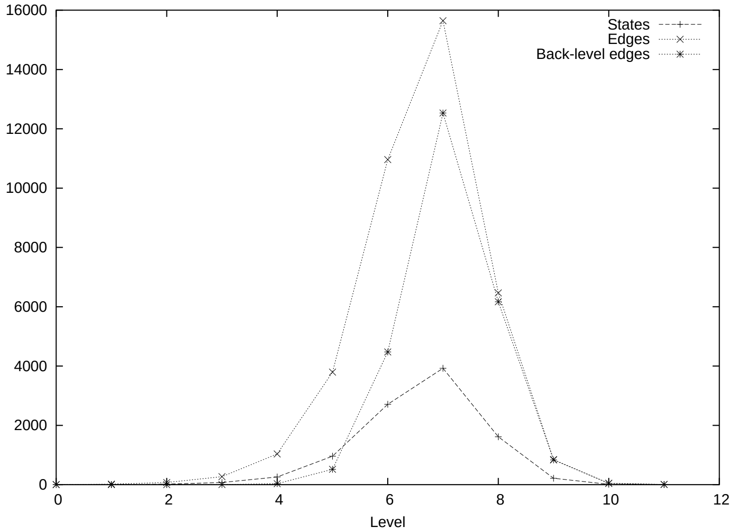
In-Degrees distribution:



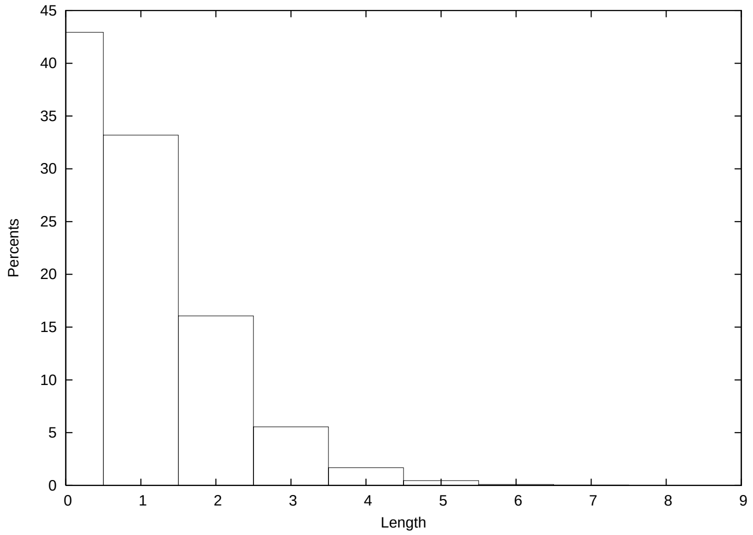
BFS Info

BFS height	11
BFS width	3,926 (40%)
Back level edges	24,613 (62.8%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	214
SCC quetient height	2
SCC quetient nontrivial height	1
Number of terminal components	192
The largest component is	initial

Statistics according to **sizes**:

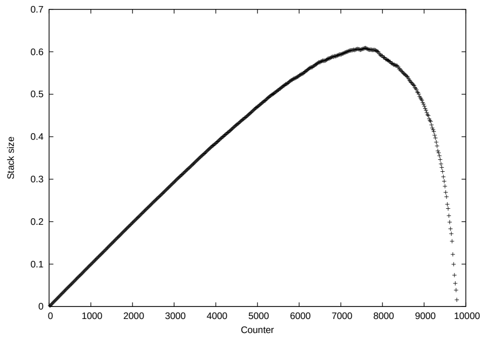
Size	Number of components	Number of states here
9,582	1	97.8%
1	213	2.1%

SCC component graph (part):

DFS Info

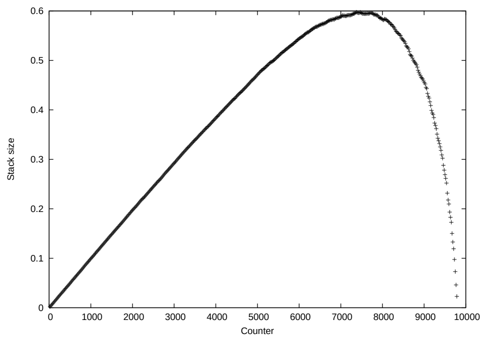
Run 0

front-edges : back-edges : cross-edges = 9,794 : 14,508 : 14,860 = 25%:37%:37.9%
Max. stack size: 5,965 (60.8%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 13 (13), 104 (13), 1254 (10), 247 (10), 1116 (10)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 9,794 : 14,421 : 14,947 = 25%:36.8%:38.1%
Max. stack size: 5,853 (59.7%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 1186 (11), 54 (11), 392 (10), 483 (10), 2607 (10)
Stack graph:



Local Structure

Short cycles(up to 6)

2	20	(0.2%)
3	51	(0.5%)
4	211	(2.1%)
5	808	(8.2%)
6	2,359	(24%)

Diamonds

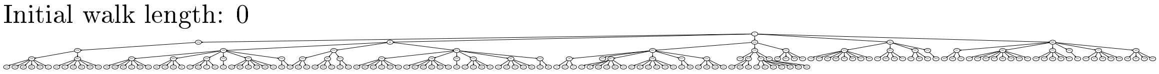
119 (1.2%)

Neighborhoods

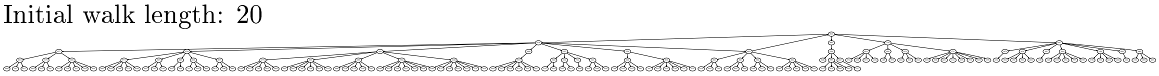
k	avg size	avg clustering
1	4.9	1
2	20.9	1
3	83.9	1
4	328.1	1

Visualization of some parts of the state state space:

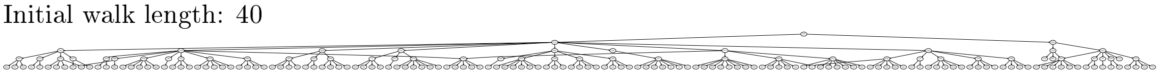
Initial walk length: 0



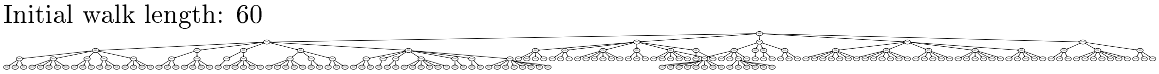
Initial walk length: 20



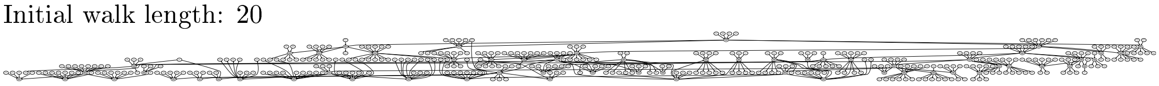
Initial walk length: 40



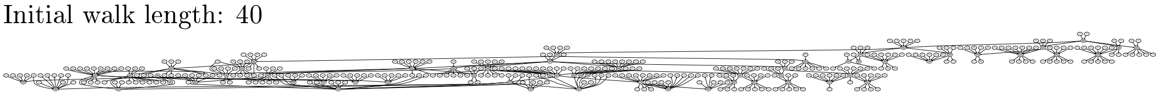
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60