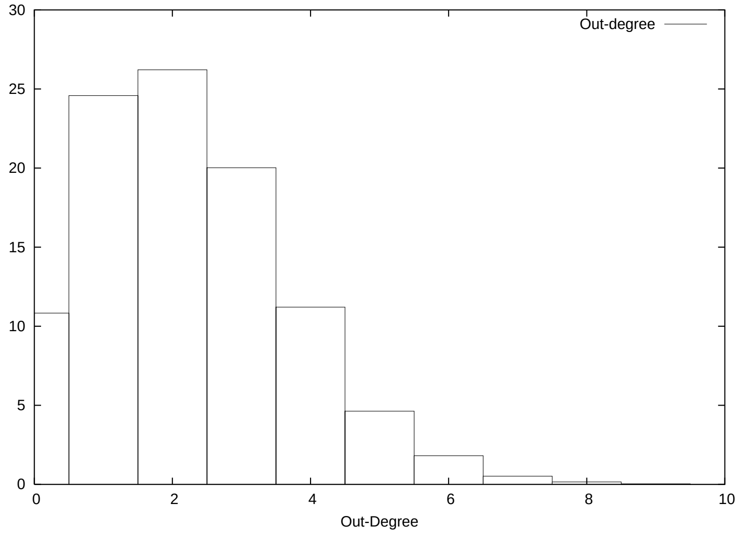
Graph: other/random_10_2.2

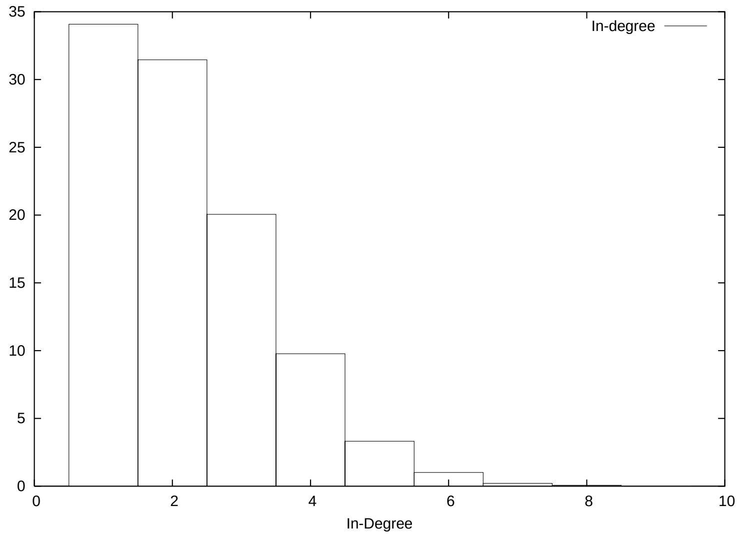
General Info

Example title	Random
Parameter	N=10000,M=22000
Reduction	
Modification	
States	8,495
Edges	18,781
Average degree	2.2

Out-Degrees distribution:



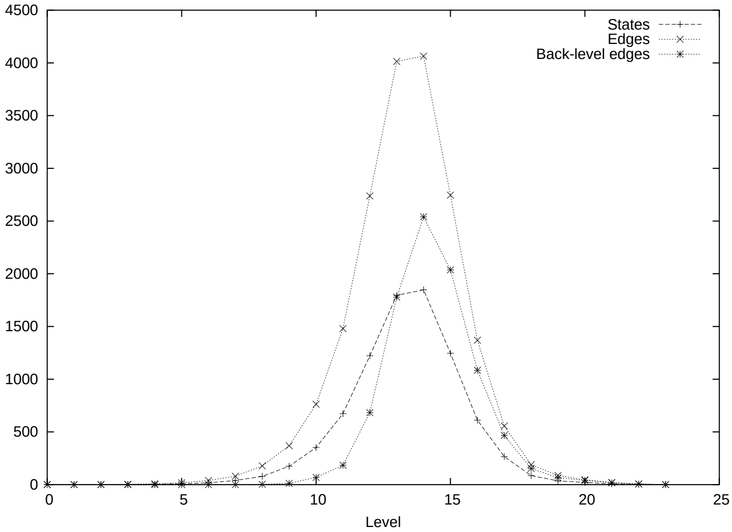
In-Degrees distribution:



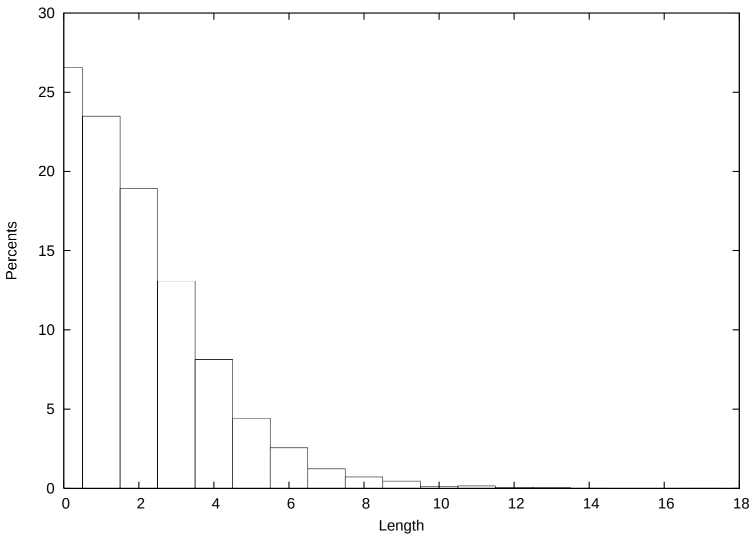
BFS Info

BFS height	23
BFS width	1,848 (21.7%)
Back level edges	9,141 (48.6%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	1,277
SCC quetient height	6
SCC quetient nontrivial height	2
Number of terminal components	920
The largest component is	intermediate

Statistics according to **sizes**:

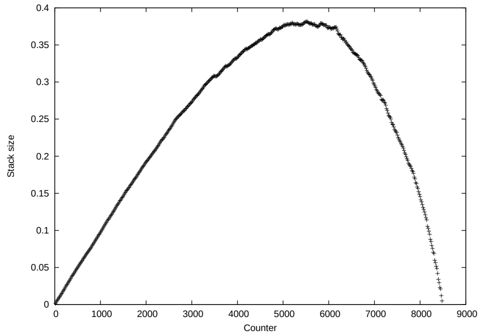
Size	Number of components	Number of states here
7,219	1	84.9%
1	1,276	15%

SCC component graph (part):

DFS Info

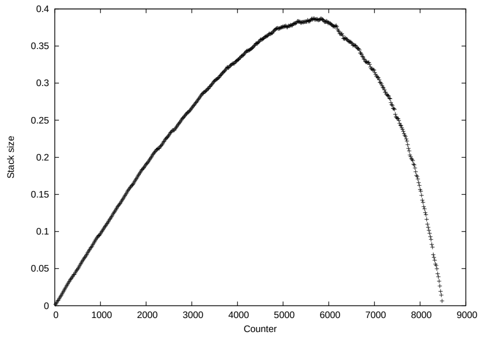
Run 0

front-edges : back-edges : cross-edges = 8,494 : 3,860 : 6,427 = 45.2%:20.5%:34.2%
Max. stack size: 3,247 (38.2%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 6 (7), 1310 (6), 358 (6), 67 (6), 1864 (6)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 8,494 : 3,927 : 6,360 = 45.2%:20.9%:33.8%
Max. stack size: 3,294 (38.7%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 257 (6), 1571 (6), 65 (6), 259 (6), 320 (6)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	15	(0.1%)
4	16	(0.1%)
5	75	(0.8%)
6	178	(2%)

Diamonds

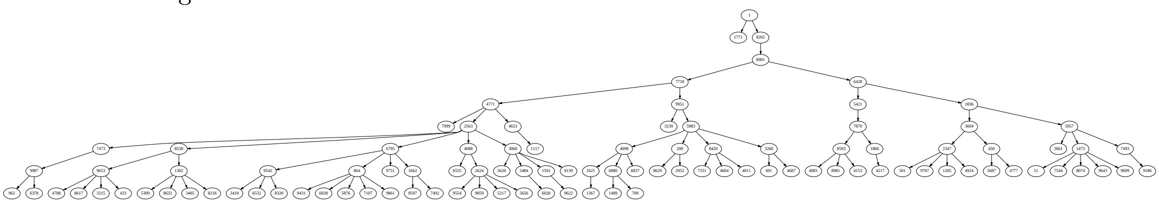
14 (0.1%)

Neighborhoods

k	avg size	avg clustering
1	3.2	1
2	8	1
3	18.7	1
4	42.2	1

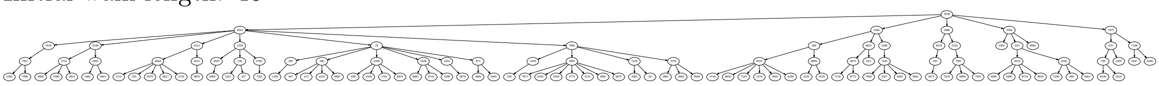
Visualization of some parts of the state state space:

Initial walk length: 0

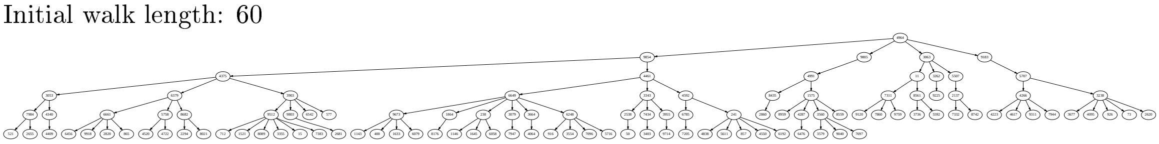


Initial walk length: 20

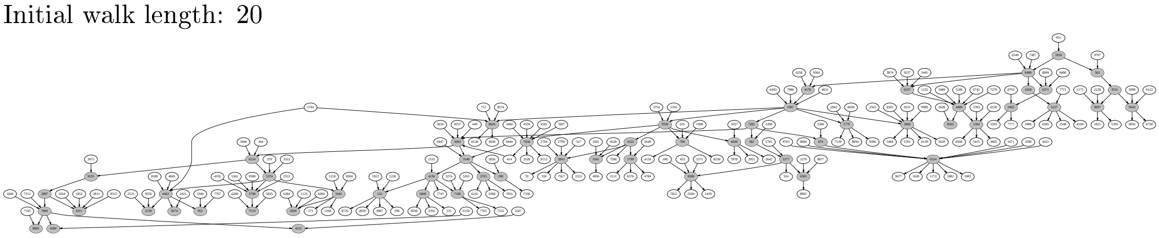
Initial walk length: 40



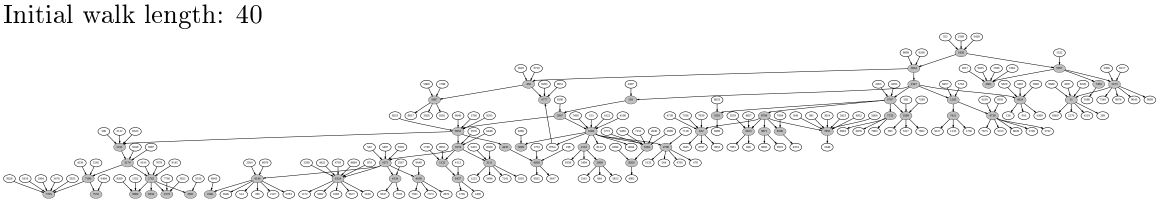
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60