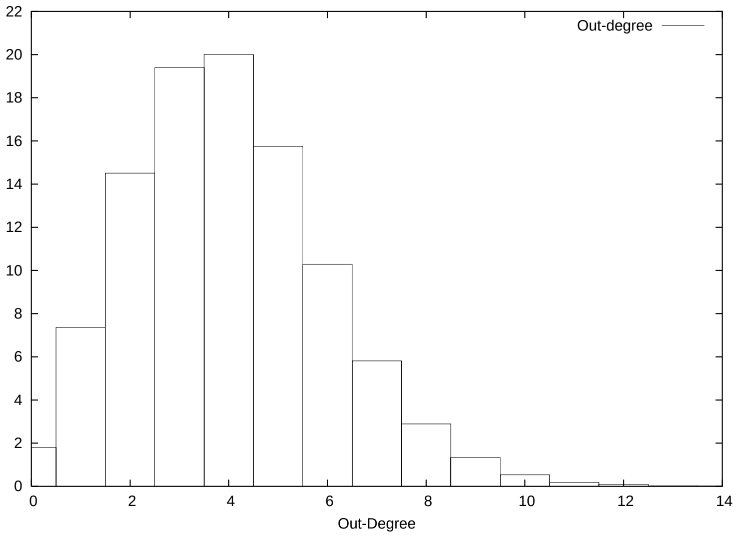
Graph: other/random_30_4

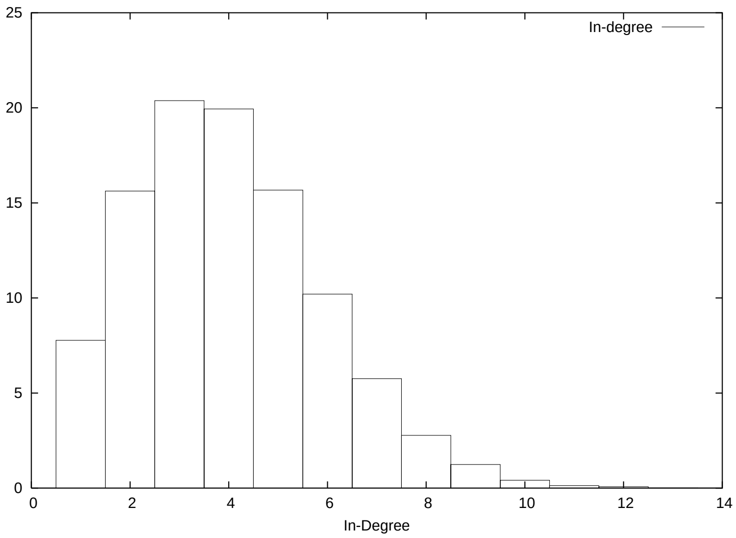
General Info

Example title	Random
Parameter	N=30000,M=120000
Reduction	
Modification	
States	29,435
Edges	117,712
Average degree	3.9

Out-Degrees distribution:



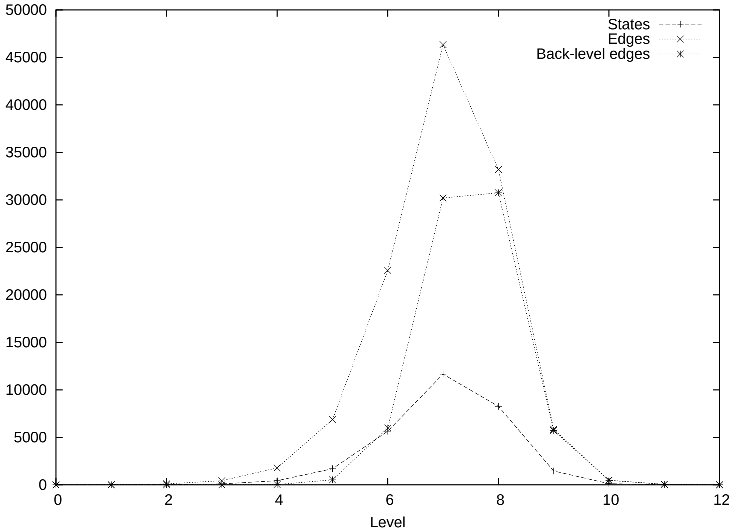
In-Degrees distribution:



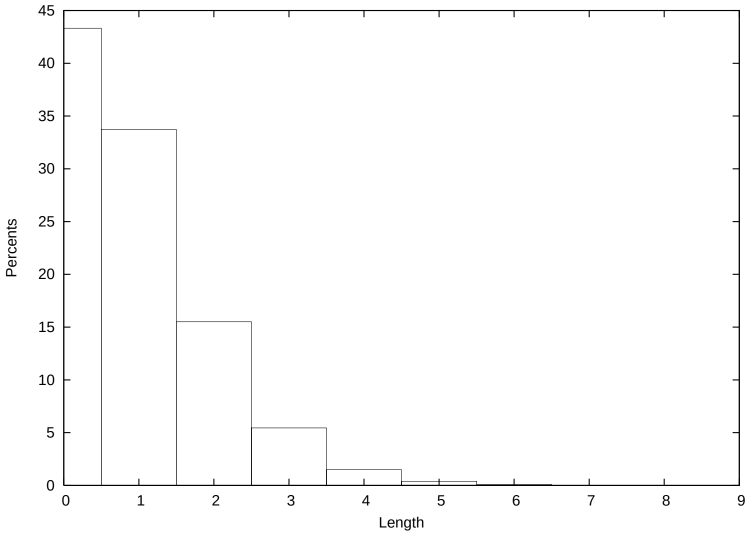
BFS Info

BFS height	12
BFS width	11,662 (39.6%)
Back level edges	73,749 (62.6%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	576
SCC quetient height	3
SCC quetient nontrivial height	1
Number of terminal components	530
The largest component is	initial

Statistics according to **sizes**:

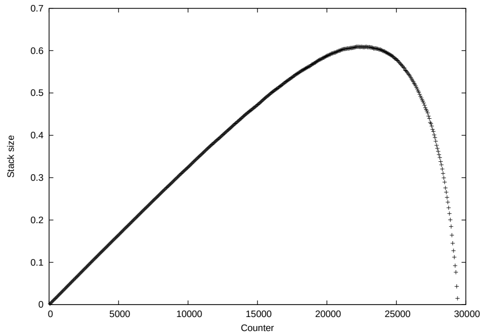
Size	Number of components	Number of states here
28,860	1	98%
1	575	1.9%

SCC component graph (part):

DFS Info

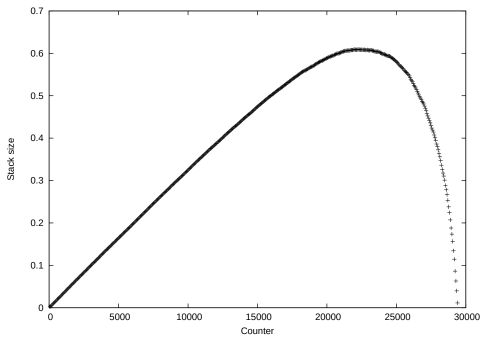
Run 0

front-edges : back-edges : cross-edges = 29,434 : 43,567 : 44,711 = 25%:37%:37.9%
Max. stack size: 17,942 (60.9%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 972 (12), 8999 (12), 94 (12), 1564 (12), 2823 (12)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 29,434 : 43,364 : 44,914 = 25%:36.8%:38.1%
Max. stack size: 17,939 (60.9%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 845 (12), 4839 (11), 3527 (11), 1754 (11), 827 (11)
Stack graph:



Local Structure

Short cycles(up to 6)

2	24	(0%)
3	54	(0.1%)
4	297	(1%)
5	1,055	(3.5%)
6	3,251	(11%)

Diamonds

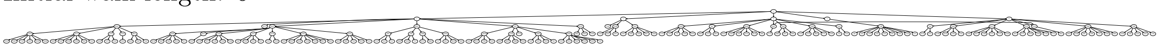
135 (0.4%)

Neighborhoods

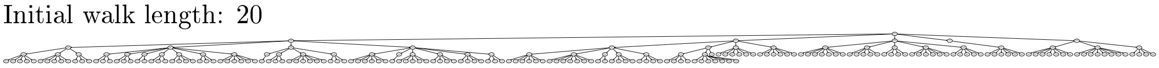
k	avg size	avg clustering
1	4.9	1
2	20.9	1
3	84.5	1
4	336	1

Visualization of some parts of the state state space:

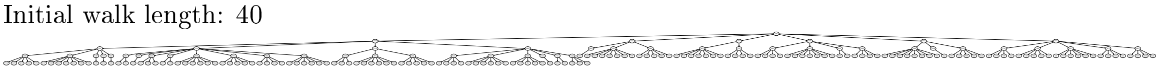
Initial walk length: 0



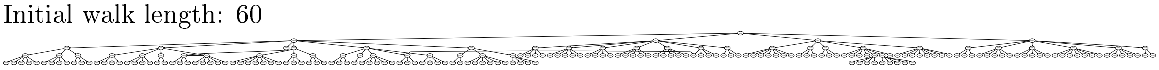
Initial walk length: 20



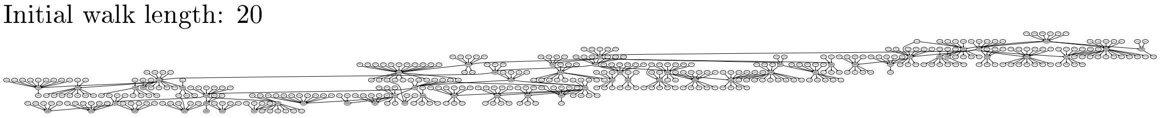
Initial walk length: 40



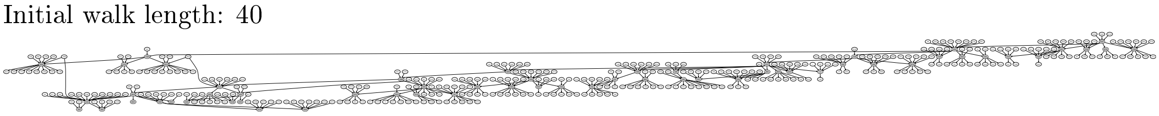
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60