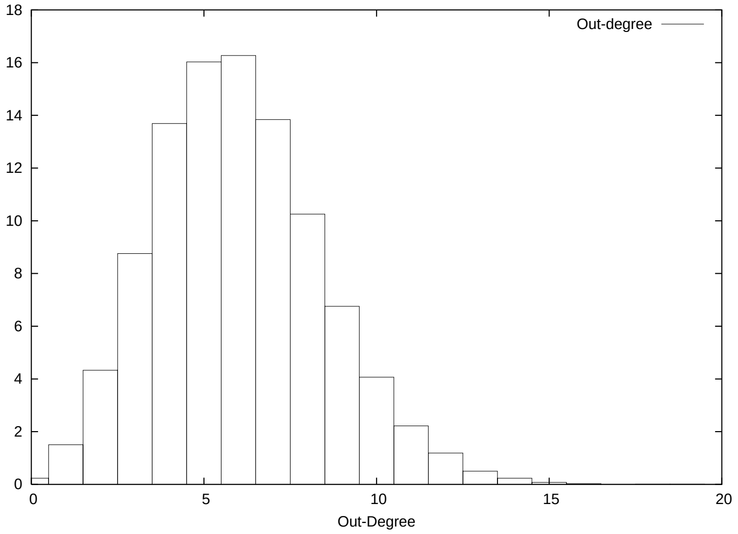
Graph: other/random_30_6

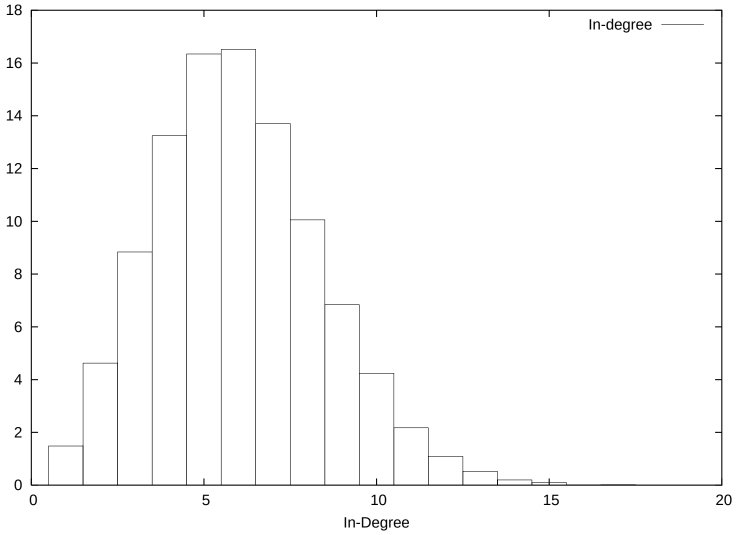
General Info

Example title	Random
Parameter	N=30000,M=180000
Reduction	
Modification	
States	29,932
Edges	179,550
Average degree	5.9

Out-Degrees distribution:



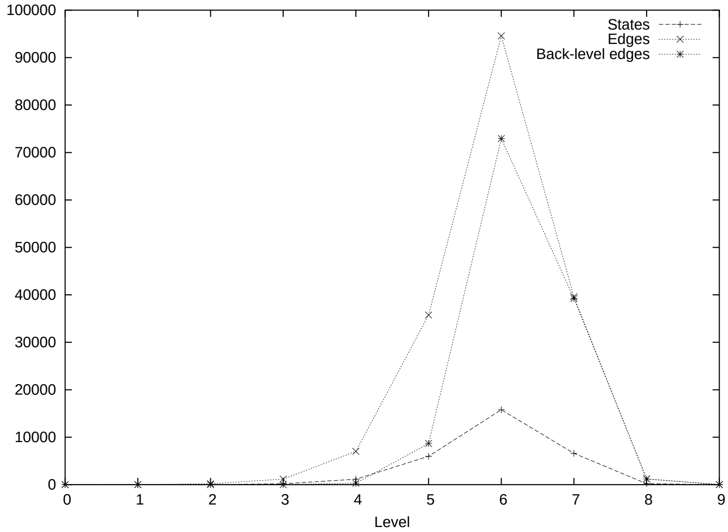
In-Degrees distribution:



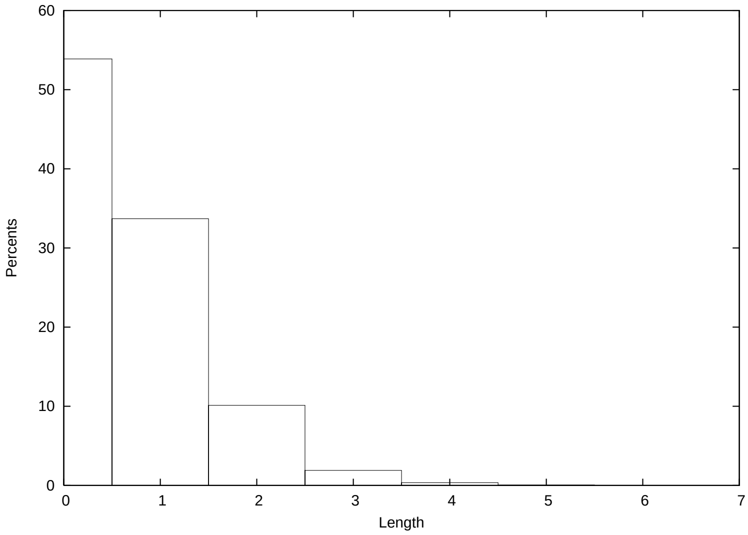
BFS Info

BFS height	9
BFS width	15,786 (52.7%)
Back level edges	122,416 (68.1%)

BFS level info:



Back level edges lengths:



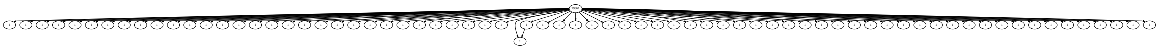
SCC Info

SCC components	72
SCC quetient height	2
SCC quetient nontrivial height	1
Number of terminal components	70
The largest component is	initial

Statistics according to **sizes**:

Size	Number of components	Number of states here
29,861	1	99.7%
1	71	0.2%

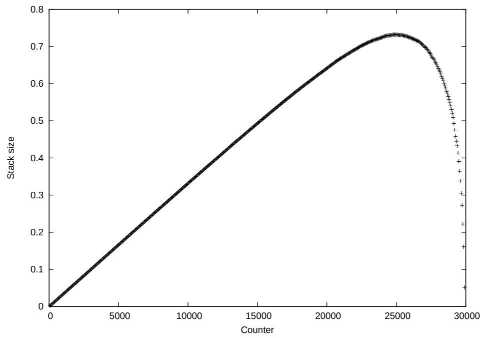
SCC component graph (part):



DFS Info

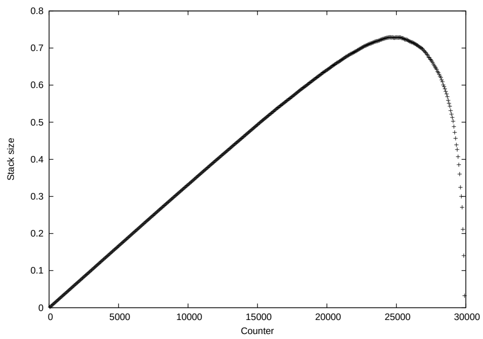
Run 0

front-edges : back-edges : cross-edges = 29,931 : 78,329 : 71,290 = 16.6%:43.6%:39.7%
Max. stack size: 21,924 (73.2%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2652 (17), 5571 (17), 319 (16), 969 (15), 1363 (15)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 29,931 : 78,447 : 71,172 = 16.6%:43.6%:39.6%
Max. stack size: 21,826 (72.9%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 1261 (16), 448 (15), 73 (15), 4886 (14), 333 (14)
Stack graph:



Local Structure

Short cycles(up to 6)

2	38	(0.1%)
3	161	(0.5%)
4	1,319	(4.4%)
5	6,020	(20.1%)
6	14,576	(48.6%)

Diamonds

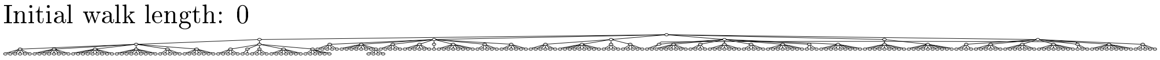
629 (2.1%)

Neighborhoods

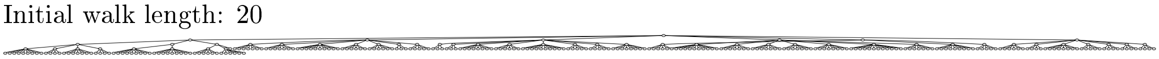
k	avg size	avg clustering
1	6.9	1
2	42.9	1
3	256.9	1
4	1495.4	1

Visualization of some parts of the state state space:

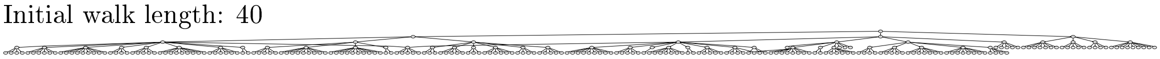
Initial walk length: 0



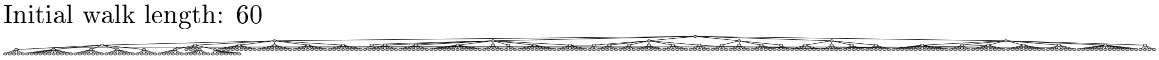
Initial walk length: 20



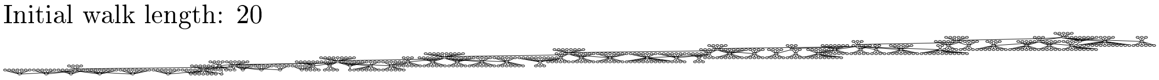
Initial walk length: 40



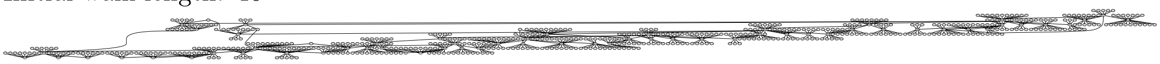
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60