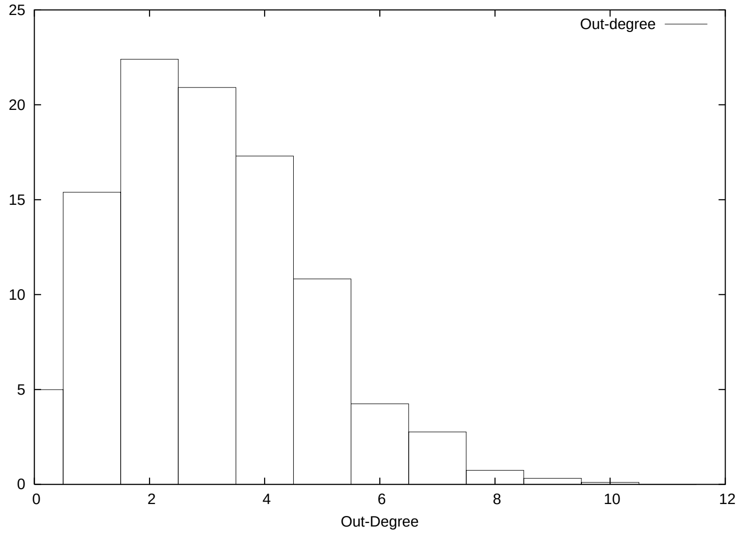
Graph: other/random_1_3

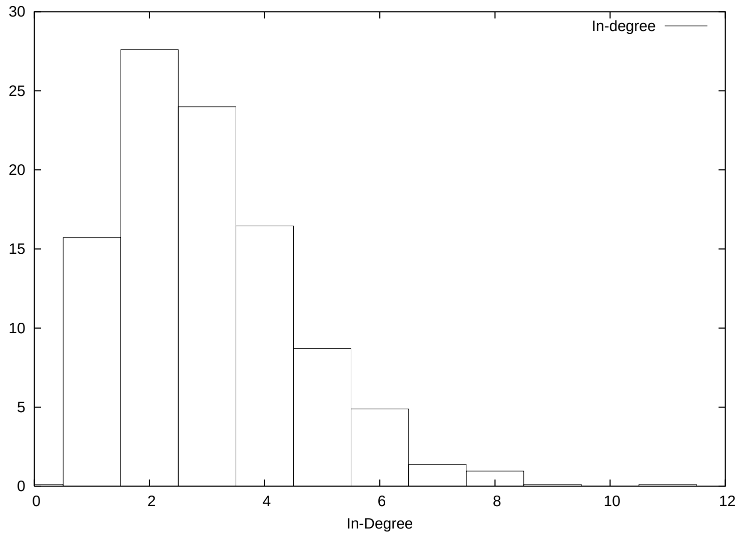
General Info

Example title	Random
Parameter	N=1000,M=3000
Reduction	
Modification	
States	942
Edges	2,835
Average degree	3

Out-Degrees distribution:



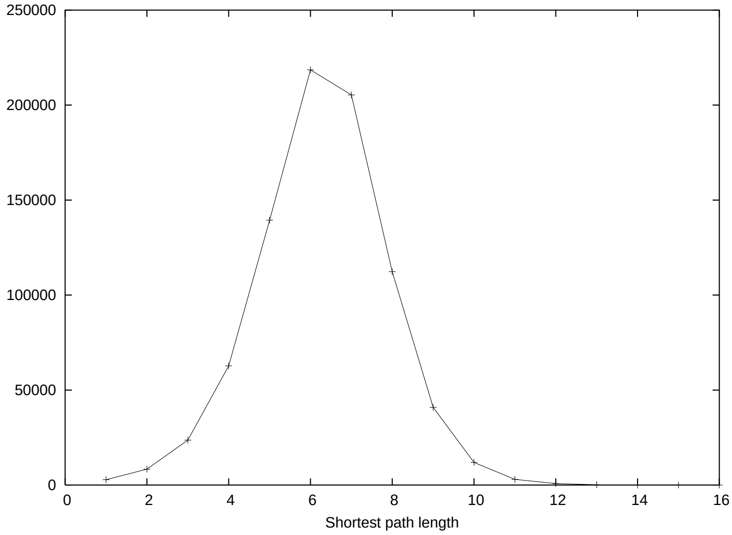
In-Degrees distribution:



Shortest Paths Info

Diameter: 16
Average shortest path length: 6.28675

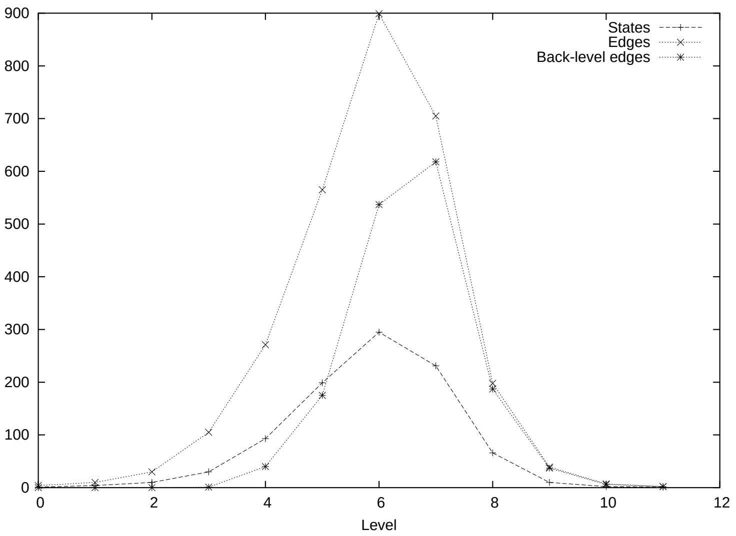
Shortest paths lengths frequencies:



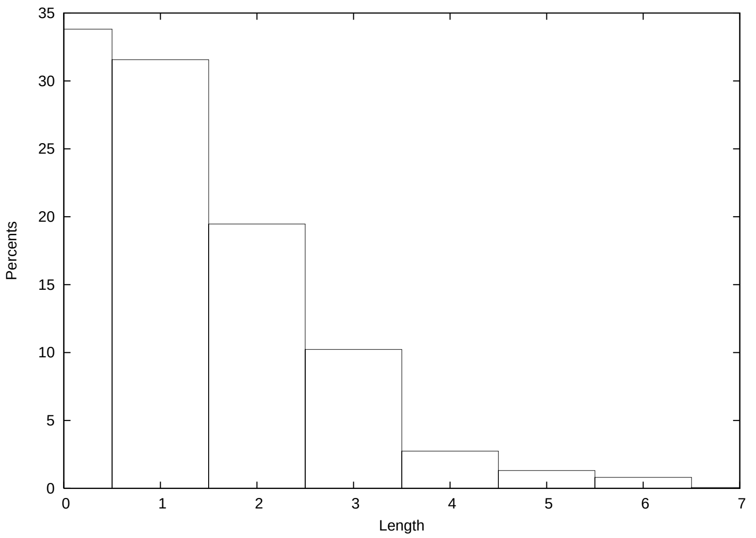
BFS Info

BFS height	11
BFS width	295 (31.3%)
Back level edges	1,603 (56.5%)

BFS level info:



Back level edges lengths:



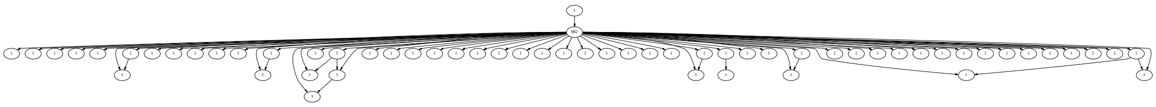
SCC Info

SCC components	61
SCC quetient height	4
SCC quetient nontrivial height	2
Number of terminal components	47
The largest component is	intermediate

Statistics according to **sizes**:

Size	Number of components	Number of states here
882	1	93.6%
1	60	6.3%

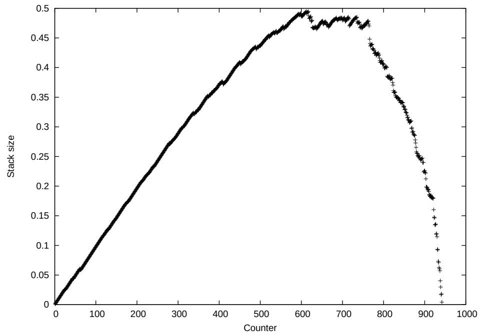
SCC component graph (part):



DFS Info

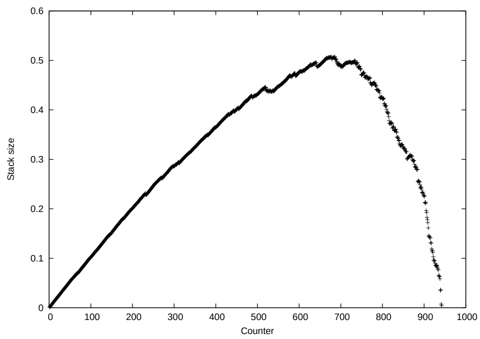
Run 0

front-edges : back-edges : cross-edges = 941 : 801 : 1,093 = 33.1%:28.2%:38.5%
Max. stack size: 466 (49.4%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 46 (8), 300 (7), 53 (7), 34 (7), 104 (6)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 941 : 804 : 1,090 = 33.1%:28.3%:38.4%
Max. stack size: 478 (50.7%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 84 (7), 101 (6), 78 (6), 128 (6), 57 (5)
Stack graph:



Local Structure

Short cycles(up to 6)

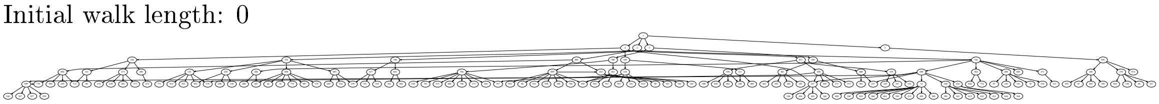
2	14	(1.4%)
3	17	(1.8%)
4	78	(8.2%)
5	154	(16.3%)
6	247	(26.2%)

Diamonds
36 (3.8%)

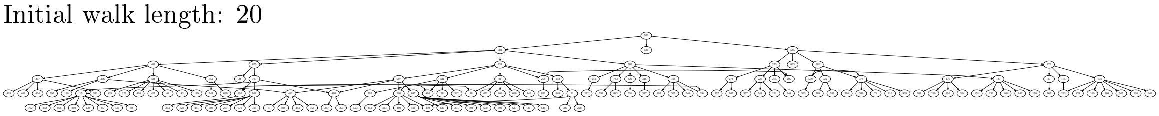
Neighborhoods

k	avg size	avg clustering
1	4	1
2	12.8	1
3	37.9	1
4	104.5	1

Visualization of some parts of the state state space:
Initial walk length: 0

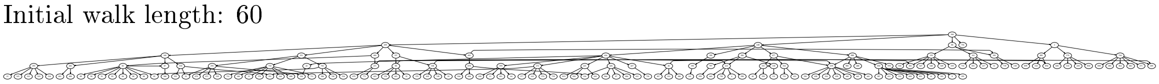


Initial walk length: 20

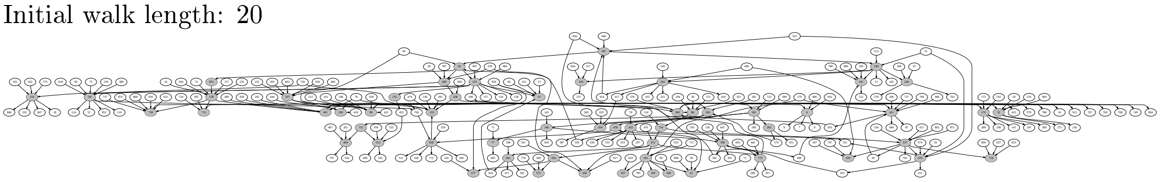


Initial walk length: 40

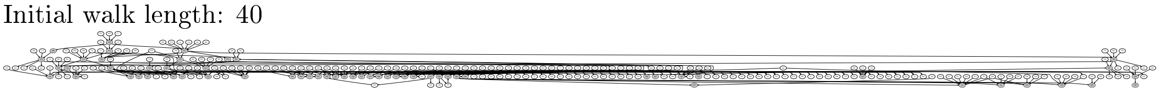
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60