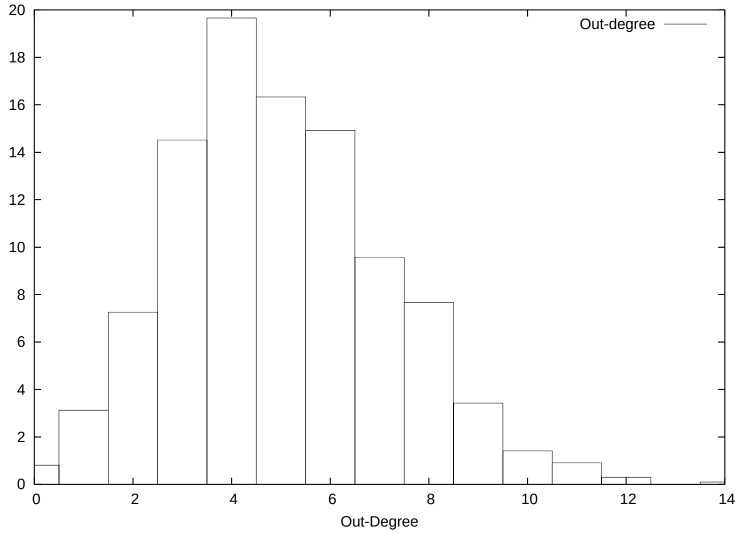
Graph: other/random_1_5

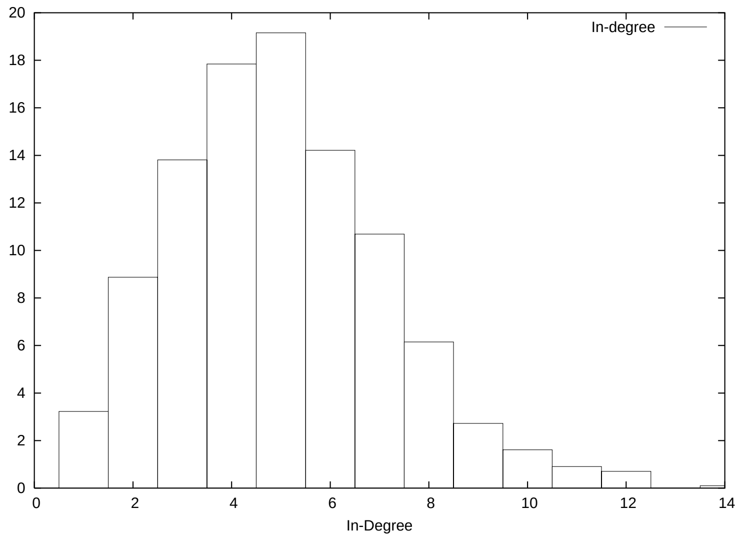
General Info

Example title	Random
Parameter	N=1000,M=5000
Reduction	
Modification	
States	992
Edges	4,953
Average degree	4.9

Out-Degrees distribution:



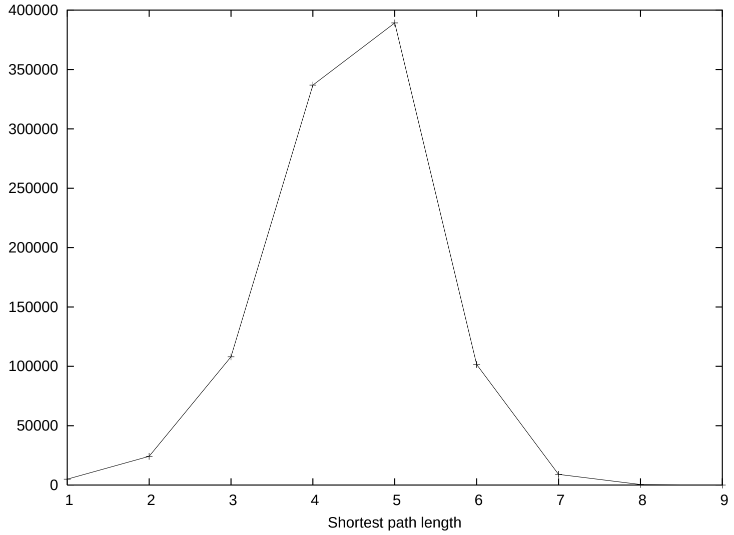
In-Degrees distribution:



Shortest Paths Info

Diameter: 9
Average shortest path length: 4.46156

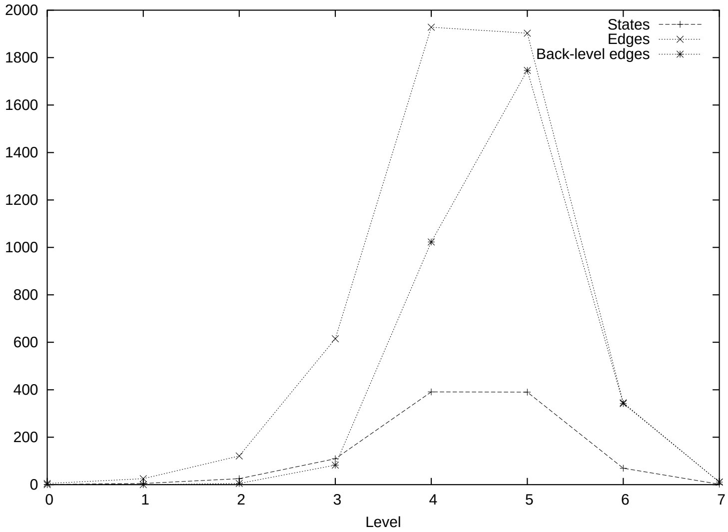
Shortest paths lengths frequencies:



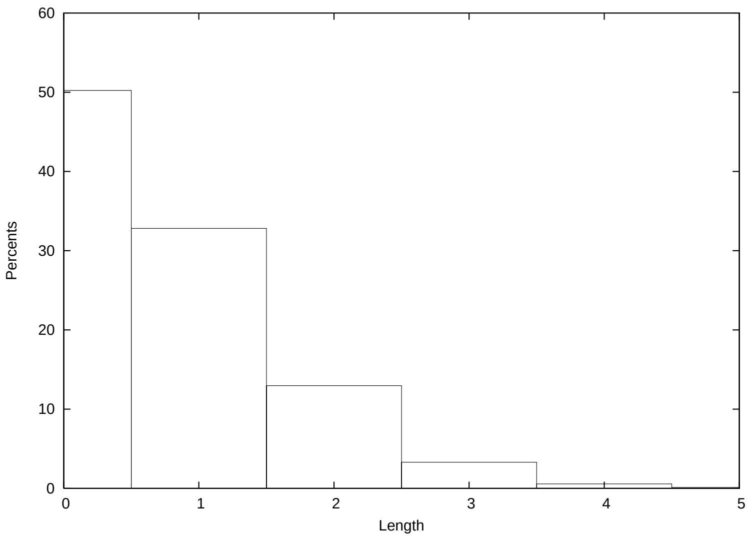
BFS Info

BFS height	7
BFS width	391 (39.4%)
Back level edges	3,209 (64.7%)

BFS level info:



Back level edges lengths:



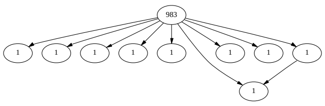
SCC Info

SCC components	10
SCC quetient height	2
SCC quetient nontrivial height	1
Number of terminal components	8
The largest component is	initial

Statistics according to **sizes**:

Size	Number of components	Number of states here
983	1	99%
1	9	0.9%

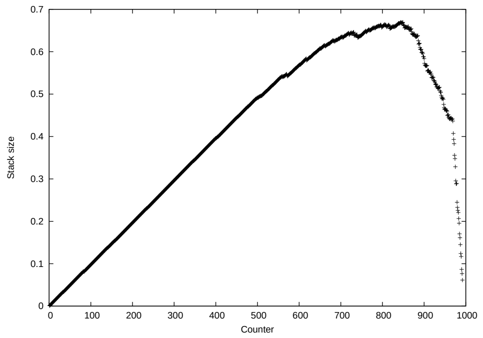
SCC component graph (part):



DFS Info

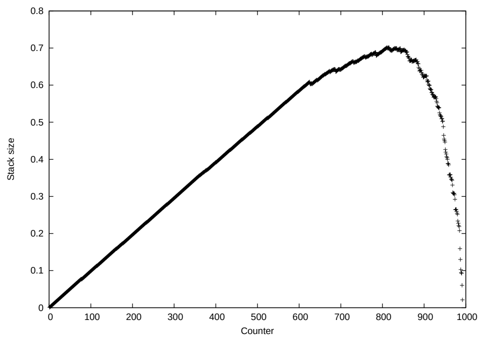
Run 0

front-edges : back-edges : cross-edges = 991 : 1,992 : 1,970 = 20%:40.2%:39.7%
Max. stack size: 664 (66.9%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 105 (11), 139 (9), 171 (9), 182 (9), 159 (9)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 991 : 2,042 : 1,920 = 20%:41.2%:38.7%
Max. stack size: 696 (70.1%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 418 (10), 200 (10), 184 (10), 166 (10), 249 (9)
Stack graph:



Local Structure

Short cycles(up to 6)

2	29	(2.9%)
3	94	(9.4%)
4	348	(35%)
5	391	(39.4%)
6	111	(11.1%)

Diamonds

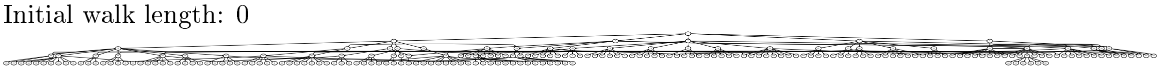
244 (24.5%)

Neighborhoods

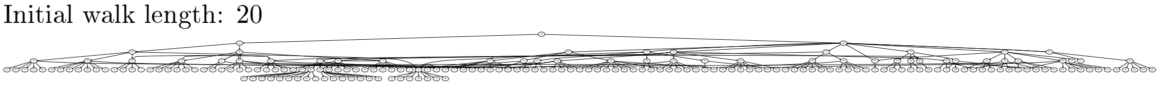
k	avg size	avg clustering
1	5.9	1
2	30.3	1
3	139.2	1
4	478.8	1.3

Visualization of some parts of the state state space:

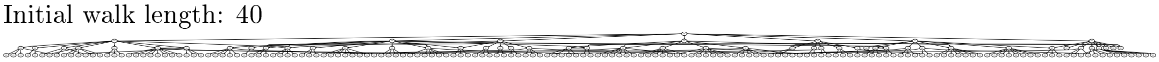
Initial walk length: 0



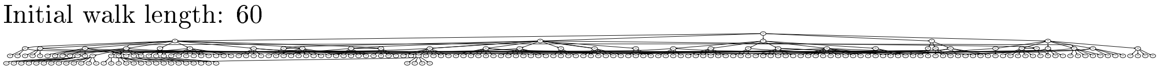
Initial walk length: 20



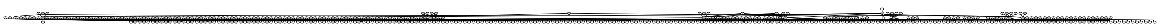
Initial walk length: 40



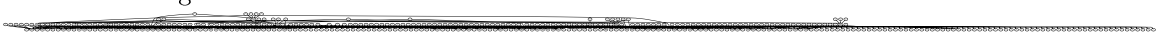
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60