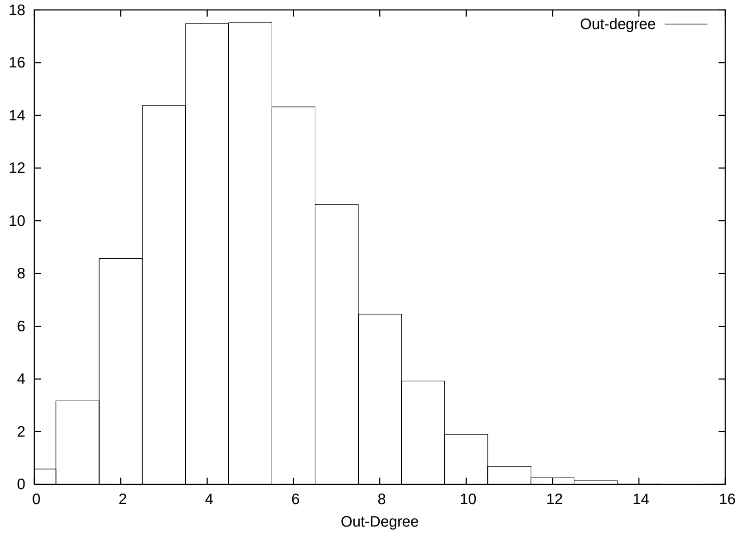
Graph: other/random_10_5

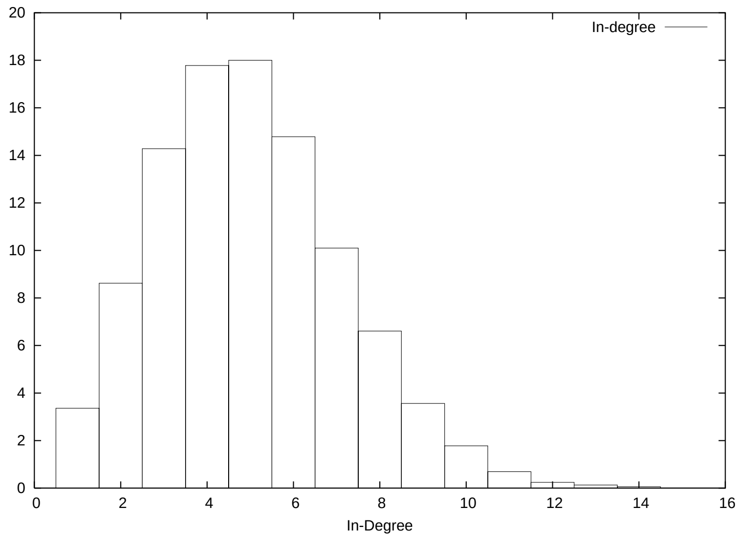
General Info

Example title	Random
Parameter	N=10000,M=5-000
Reduction	
Modification	
States	9,943
Edges	49,690
Average degree	4.9

Out-Degrees distribution:



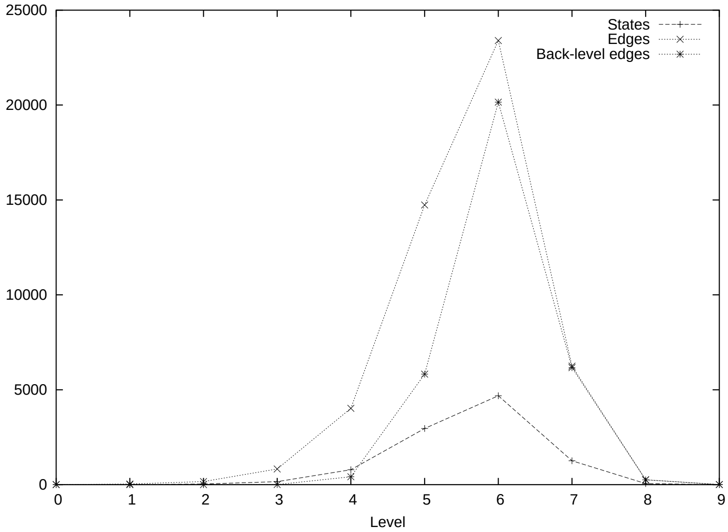
In-Degrees distribution:



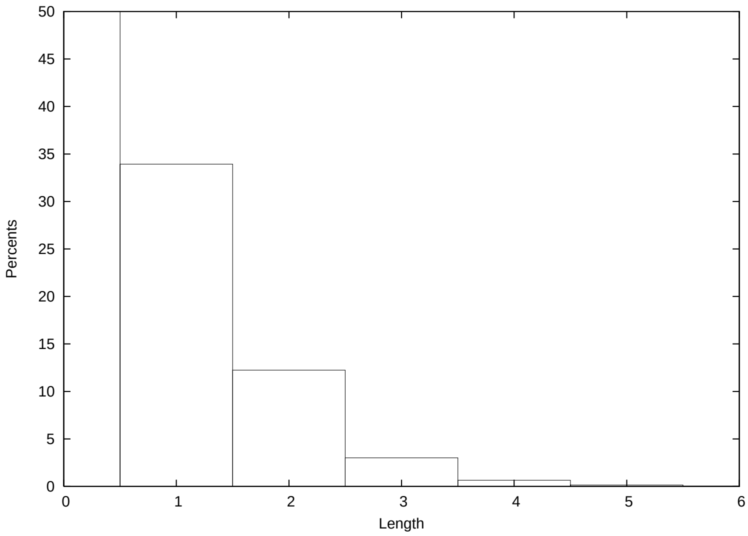
BFS Info

BFS height	9
BFS width	4,684 (47.1%)
Back level edges	32,831 (66%)

BFS level info:



Back level edges lengths:



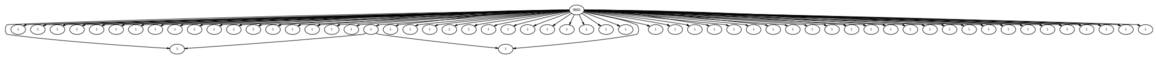
SCC Info

SCC components	61
SCC quetient height	2
SCC quetient nontrivial height	1
Number of terminal components	58
The largest component is	initial

Statistics according to **sizes**:

Size	Number of components	Number of states here
9,883	1	99.3%
1	60	0.6%

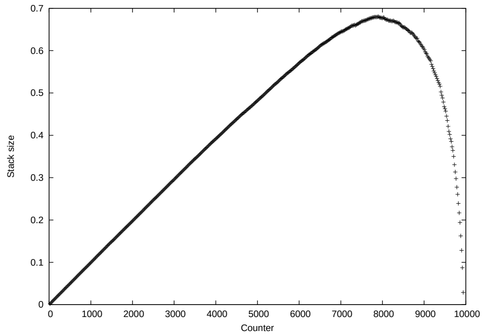
SCC component graph (part):



DFS Info

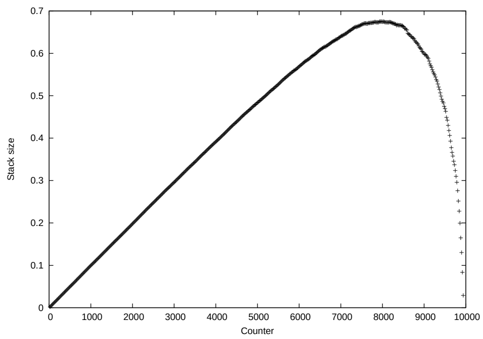
Run 0

front-edges : back-edges : cross-edges = 9,942 : 20,399 : 19,349 = 20%:41%:38.9%
Max. stack size: 6,766 (68%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 1491 (13), 456 (13), 764 (12), 1565 (12), 1903 (12)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 9,942 : 20,377 : 19,371 = 20%:41%:38.9%
Max. stack size: 6,716 (67.5%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 950 (14), 214 (13), 16 (13), 240 (13), 619 (12)
Stack graph:



Local Structure

Short cycles(up to 6)

2	12	(0.1%)
3	116	(1.1%)
4	627	(6.3%)
5	2,237	(22.4%)
6	4,377	(44%)

Diamonds

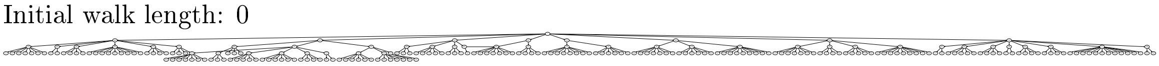
271 (2.7%)

Neighborhoods

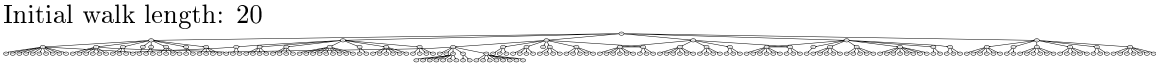
k	avg size	avg clustering
1	5.9	1
2	30.8	1
3	153.7	1
4	734.6	1

Visualization of some parts of the state state space:

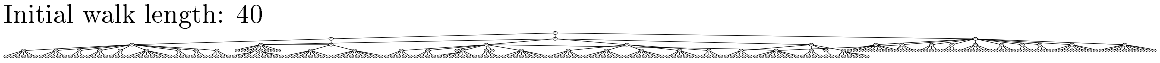
Initial walk length: 0



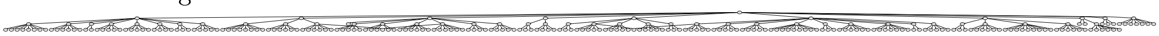
Initial walk length: 20



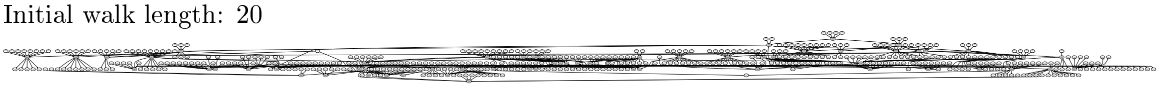
Initial walk length: 40



Initial walk length: 60



Initial walk length: 20



Initial walk length: 40

Initial walk length: 60