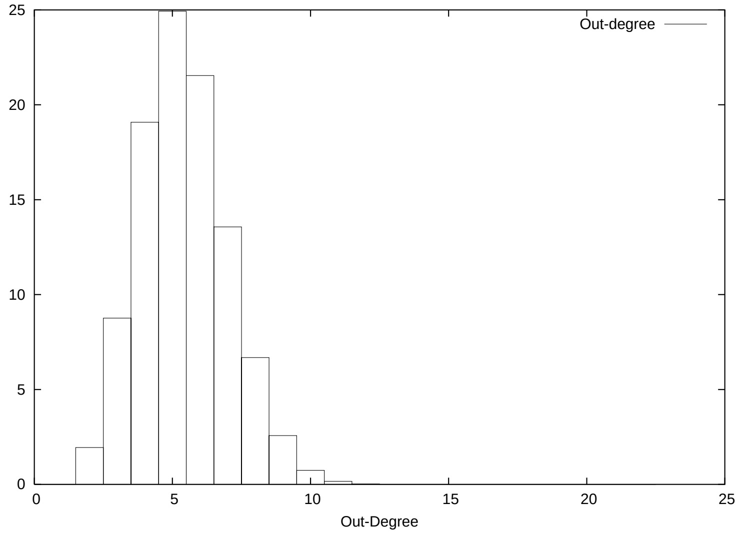
Graph: mcrl/onebit

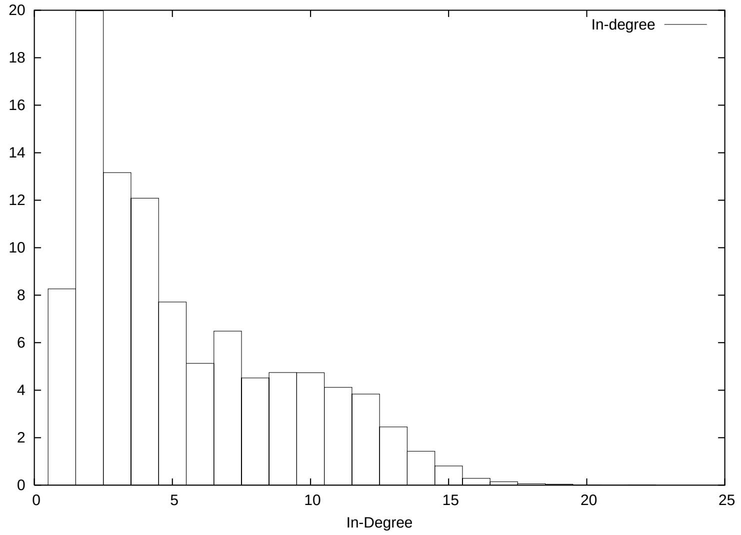
General Info

Example title	Onebit sliding window protocol
Parameter	
Reduction	
Modification	
States	319,732
Edges	1,731068
Average degree	5.4

Out-Degrees distribution:



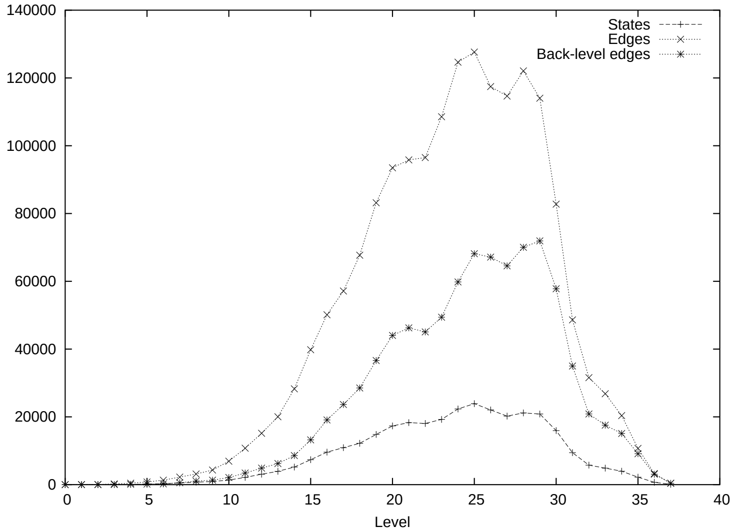
In-Degrees distribution:



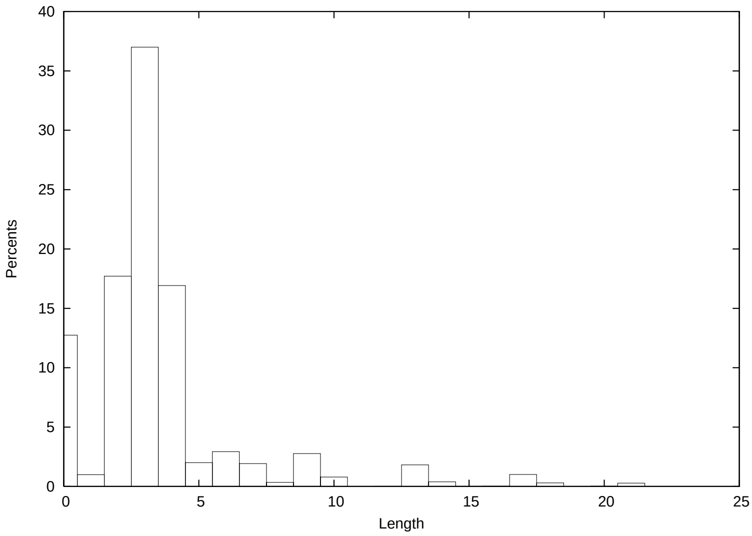
BFS Info

BFS height	37
BFS width	23,900 (7.4%)
Back level edges	895,072 (51.7%)

BFS level info:



Back level edges lengths:



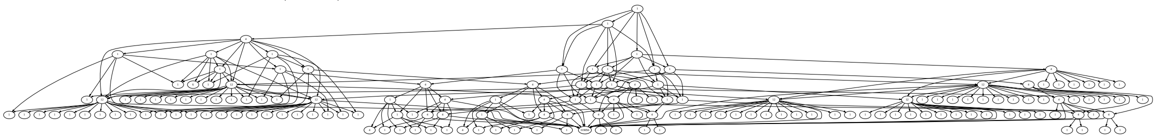
SCC Info

SCC components	293
SCC quetient height	22
SCC quetient nontrivial height	15
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
319,056	1	99.7%
12	18	0%
6	6	0%
4	52	0%
1	216	0%

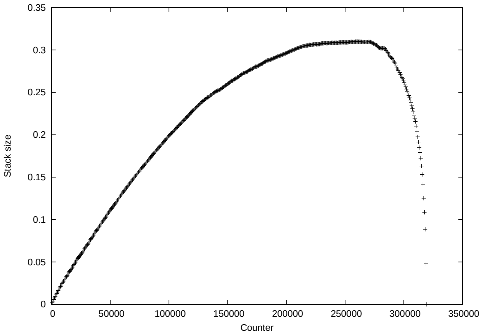
SCC component graph (part):



DFS Info

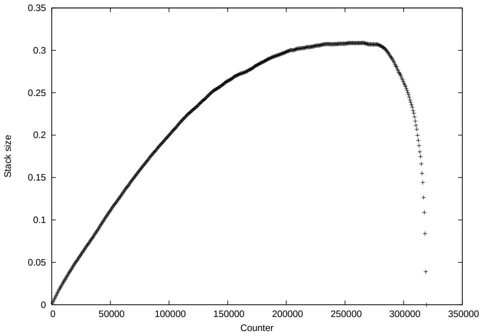
Run 0

front-edges : back-edges : cross-edges = 319,731 : 622,792 : 788,545 = 18.4%:35.9%:45.5%
Max. stack size: 99,101 (30.9%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 3 (30499), 5 (10698), 4 (9635), 8 (1908), 7 (1350)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 319,731 : 623,648 : 787,689 = 18.4%:36%:45.5%
Max. stack size: 98,742 (30.8%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 3 (30410), 5 (11022), 4 (9798), 8 (1963), 7 (1410)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	163,192	(51%)
4	24,624	(7.7%)
5	10,532	(3.2%)

Diamonds

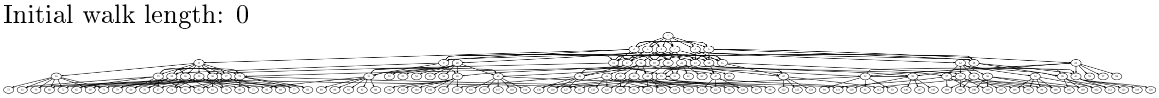
315,108 (98.5%)

Neighborhoods

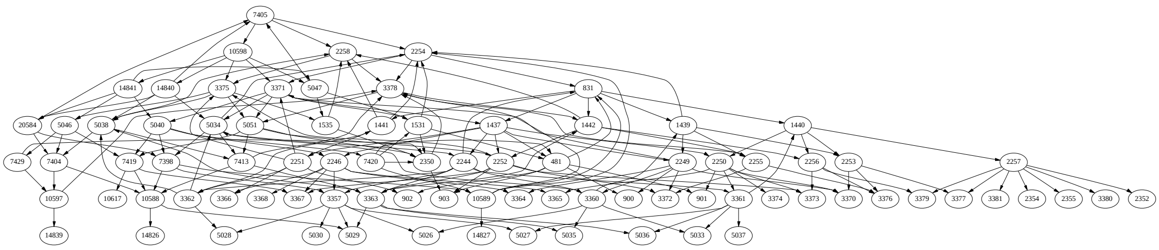
k	avg size	avg clustering
1	6.4	1
2	22.2	1.4
3	57.3	1.8
4	124.9	2.2

Visualization of some parts of the state state space:

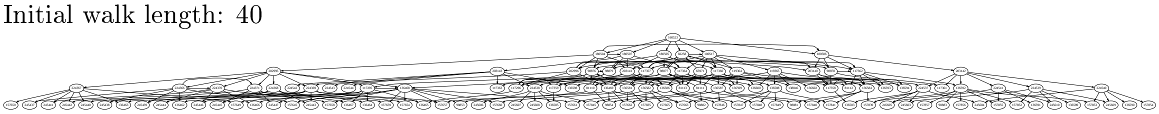
Initial walk length: 0



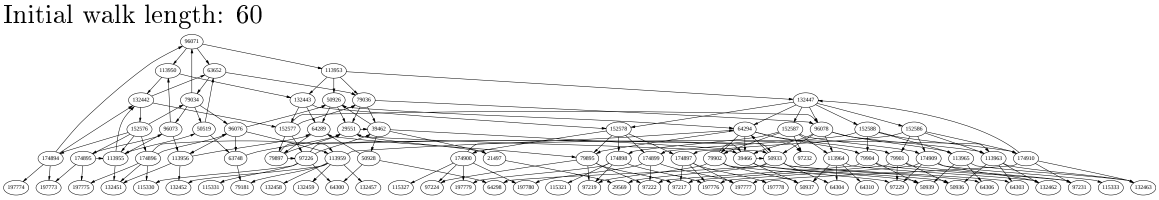
Initial walk length: 20



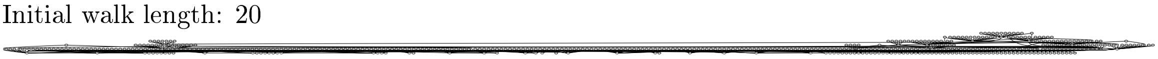
Initial walk length: 40



Initial walk length: 60



Initial walk length: 20



Initial walk length: 40

Initial walk length: 60