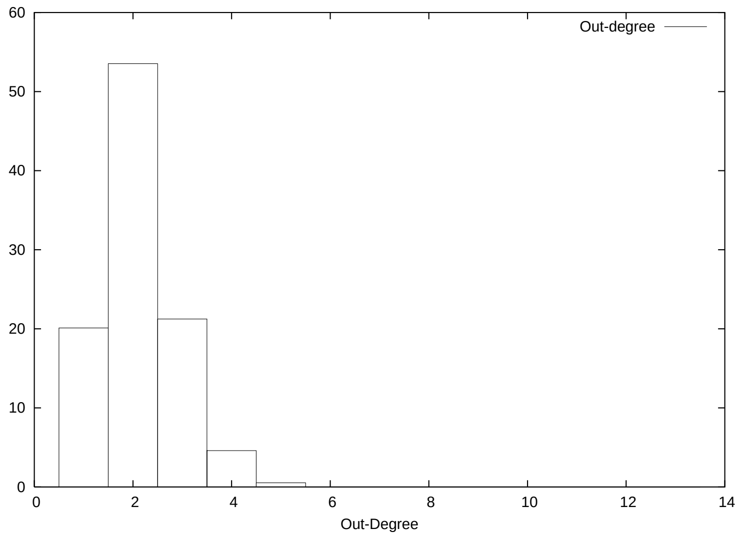
Graph: spin/cambridge00

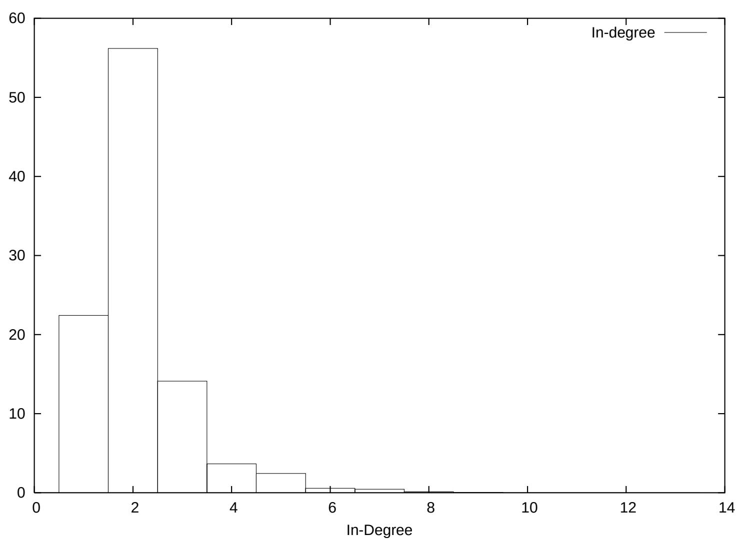
General Info

Example title	Cambridge Ring Protocol
Parameter	00
Reduction	none
Modification	
States	162,530
Edges	344,410
Average degree	2.1

Out-Degrees distribution:



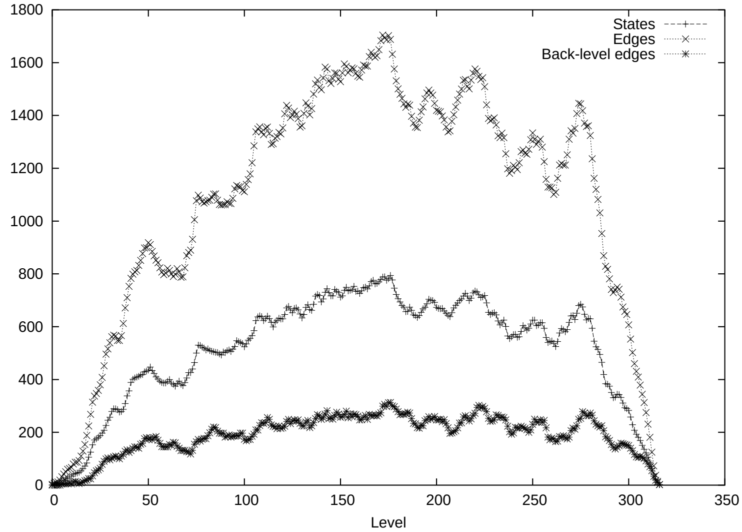
In-Degrees distribution:



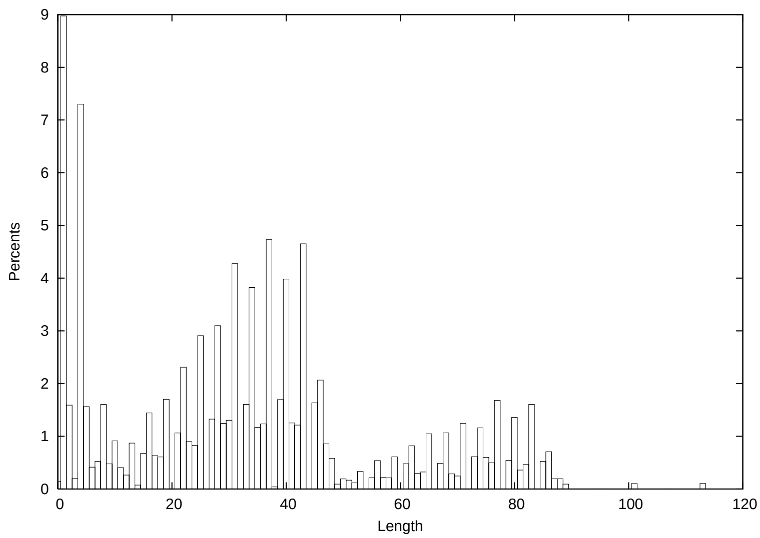
BFS Info

BFS height	316
BFS width	794 (0.4%)
Back level edges	60,438 (17.5%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	1
SCC quetient height	0
SCC quetient nontrivial height	0
Number of terminal components	1
The largest component is	initial the only terminal

Statistics according to **sizes**:

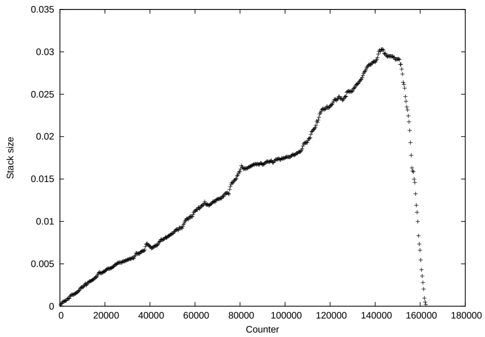
Size	Number of components	Number of states here
162,530	1	100%

SCC component graph (part):

DFS Info

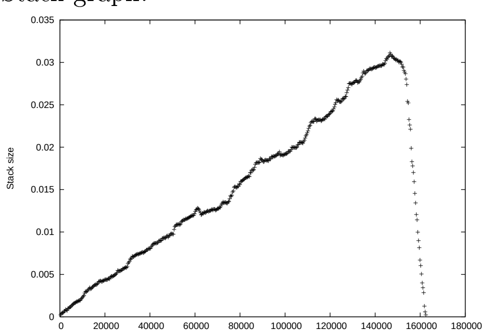
Run 0

front-edges : back-edges : cross-edges = 162,529 : 3,092 : 178,789 = 47.1%:0.8%:51.9%
Max. stack size: 4,937 (3%)
Shortest cycle detected: 5
Most often detected lengths of cycles: 217 (70), 648 (68), 5 (65), 429 (59), 221 (42)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 162,529 : 3,193 : 178,688 = 47.1%:0.9%:51.8%
Max. stack size: 5,065 (3.1%)
Shortest cycle detected: 5
Most often detected lengths of cycles: 5 (76), 664 (61), 166 (52), 212 (46), 145 (43)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	0	(0%)
4	0	(0%)
5	272	(0.1%)
6	47	(0%)

Diamonds

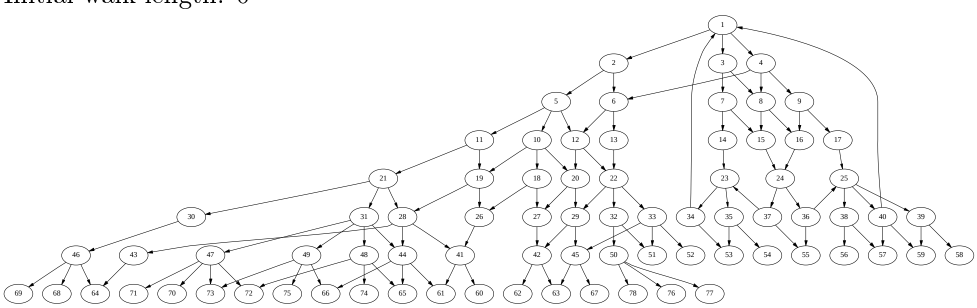
125,599 (77.2%)

Neighborhoods

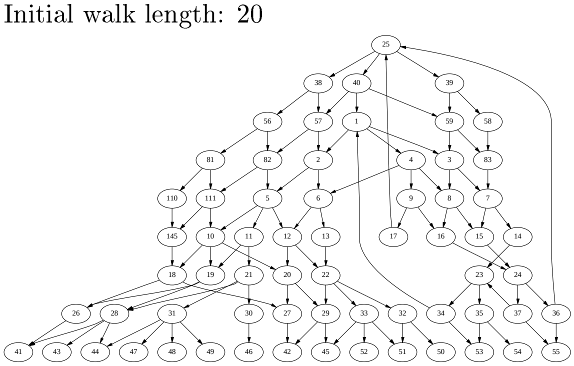
k	avg size	avg clustering
1	3.1	1
2	6.7	1.1
3	12.3	1.2
4	20.1	1.3

Visualization of some parts of the state state space:

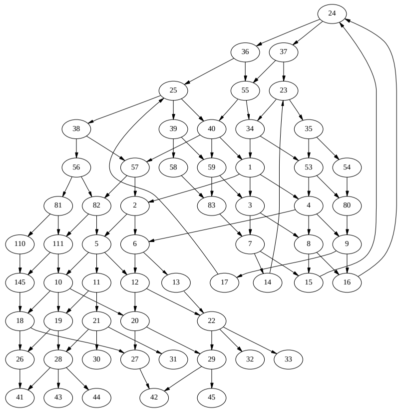
Initial walk length: 0



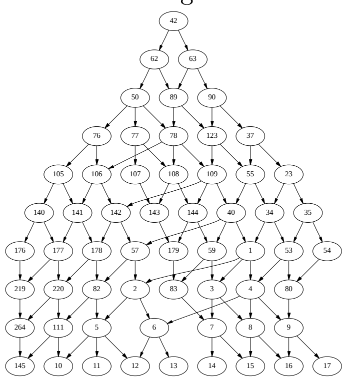
Initial walk length: 20



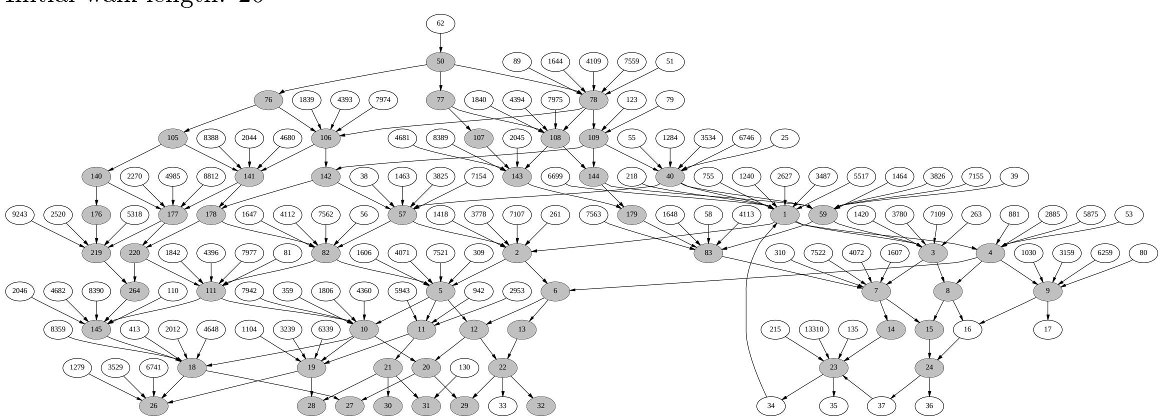
Initial walk length: 40



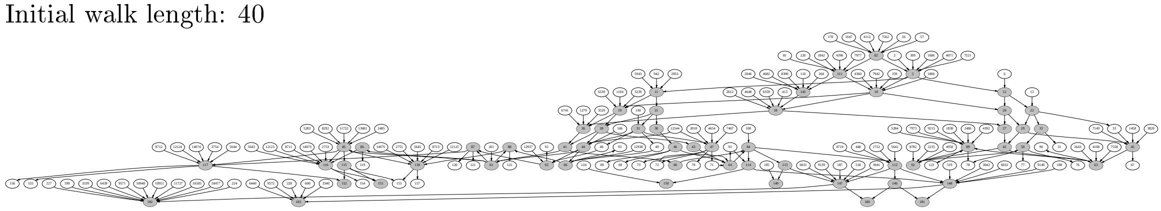
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60