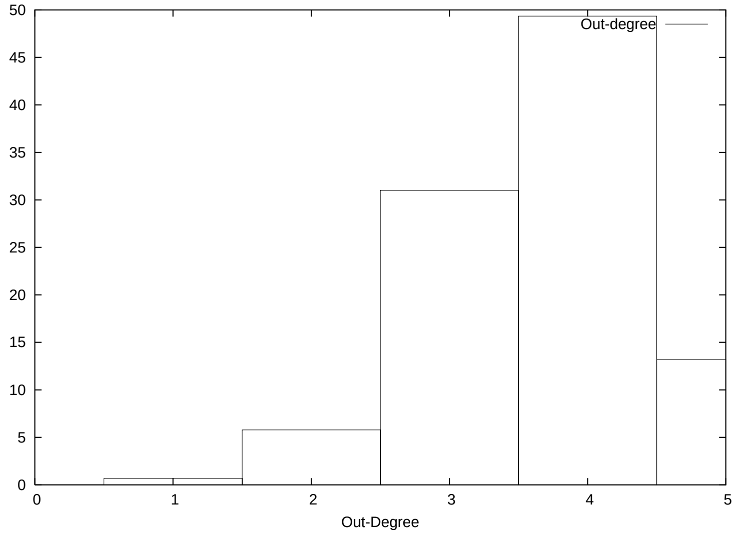
Graph: spin/leader

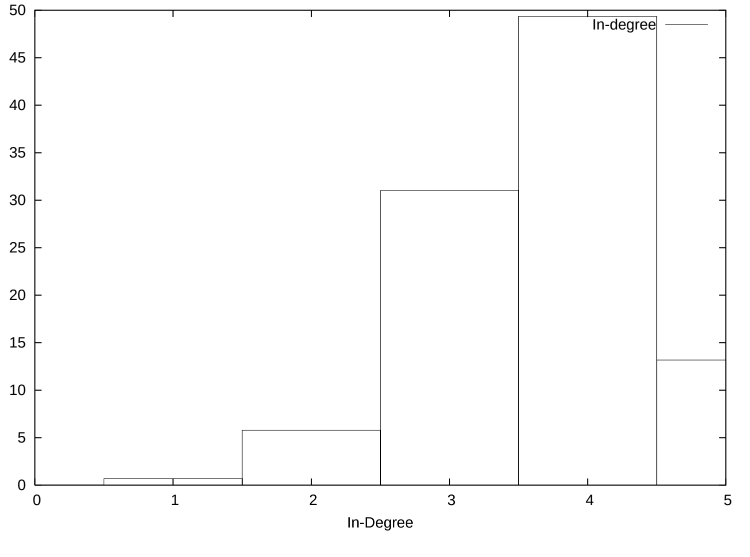
General Info

Example title	Leader election in unidirectional ring
Parameter	5
Reduction	
Modification	
States	15,791
Edges	58,192
Average degree	3.6

Out-Degrees distribution:



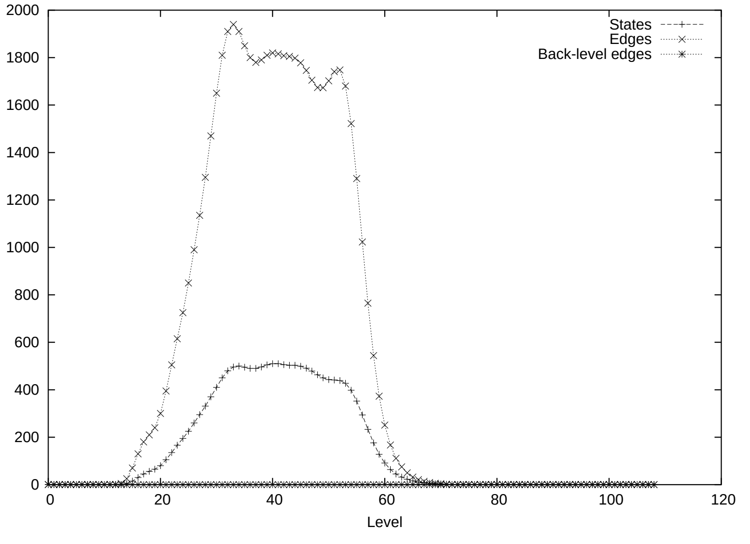
In-Degrees distribution:



BFS Info

BFS height	108
BFS width	510 (3.2%)
Back level edges	0 (0%)

BFS level info:



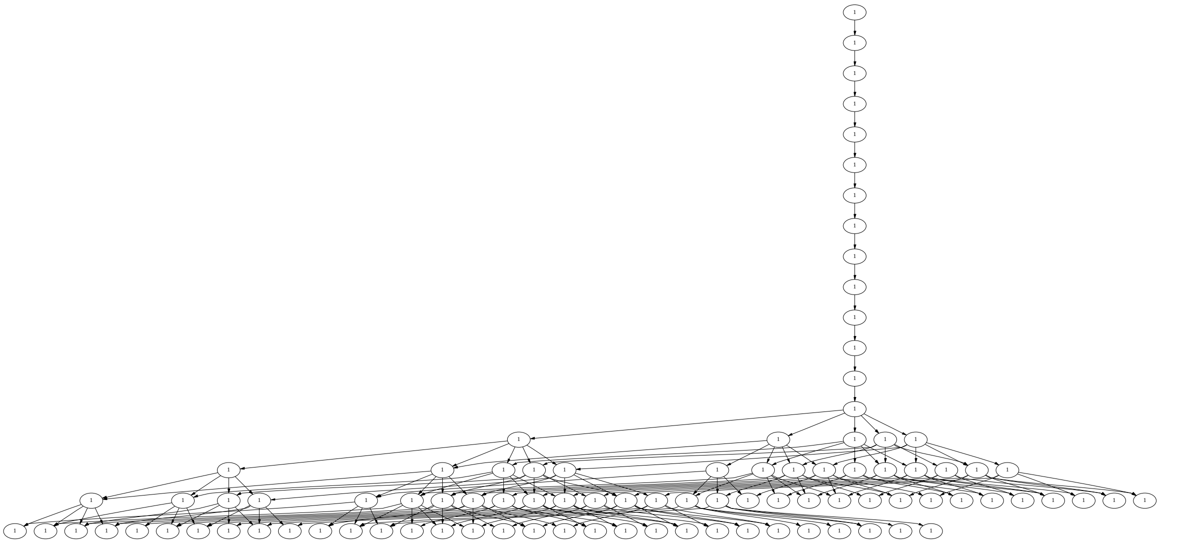
SCC Info

SCC components	15,791
SCC quetient height	108
SCC quetient nontrivial height	0
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
1	15,791	100%

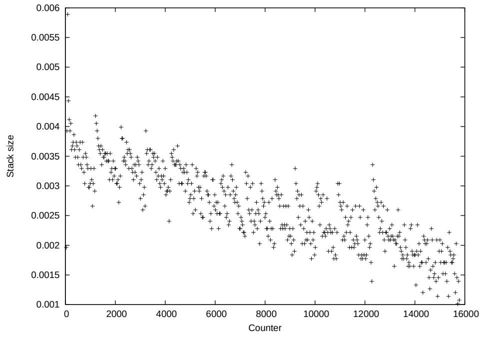
SCC component graph (part):



DFS Info

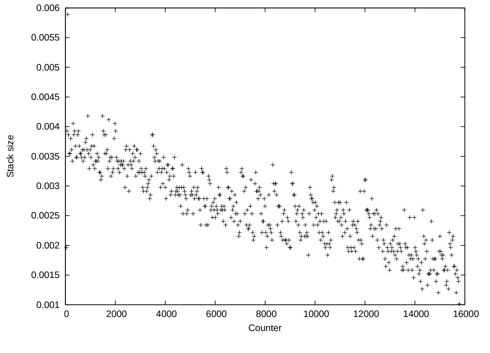
Run 0

front-edges : back-edges : cross-edges = 15,790 : 0 : 42,402 = 27.1%:0%:72.8%
Max. stack size: 109 (0.6%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 15,790 : 0 : 42,402 = 27.1%:0%:72.8%
Max. stack size: 109 (0.6%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Local Structure

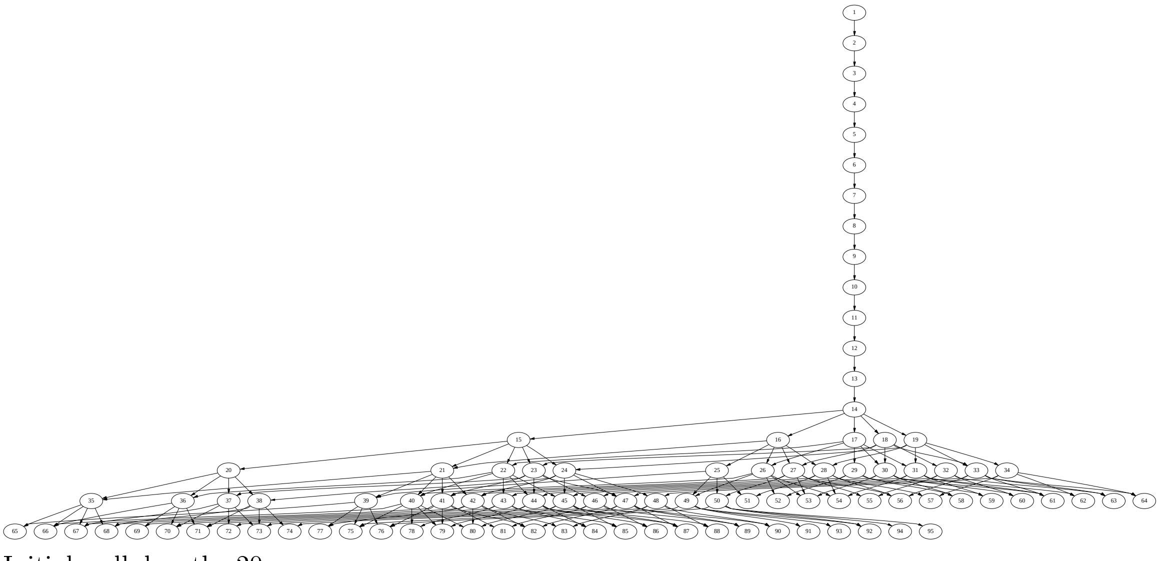
Short cycles(up to 6)
none
Diamonds

15,682 (99.3%)

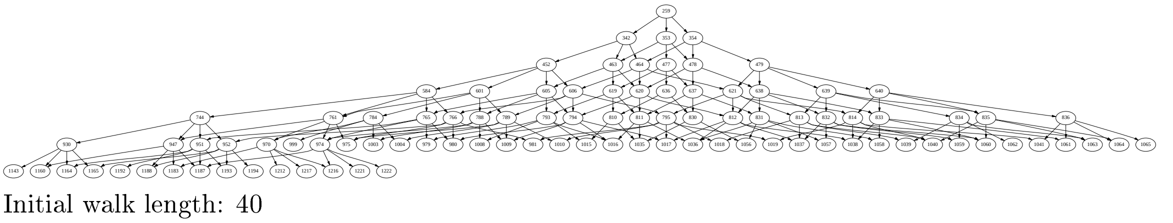
Neighborhoods

k	avg size	avg clustering
1	4.6	1
2	13.1	1.4
3	28.6	1.7
4	53.4	1.9

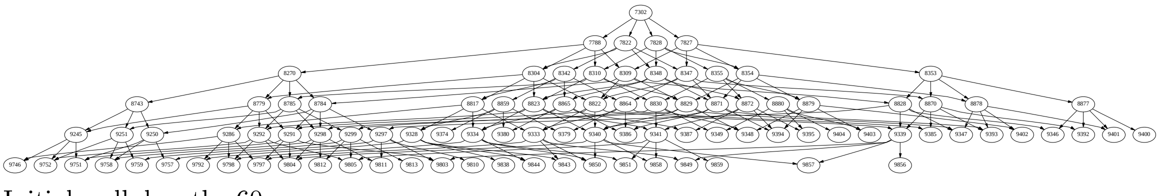
Visualization of some parts of the state state space:
Initial walk length: 0



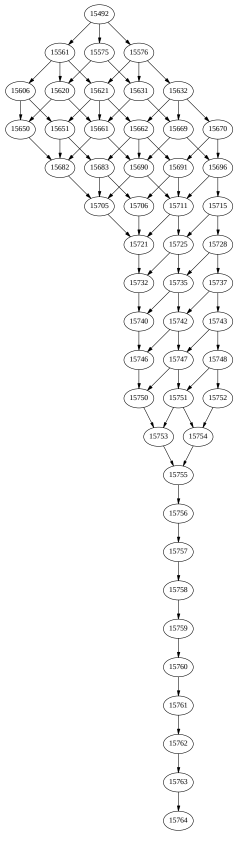
Initial walk length: 20



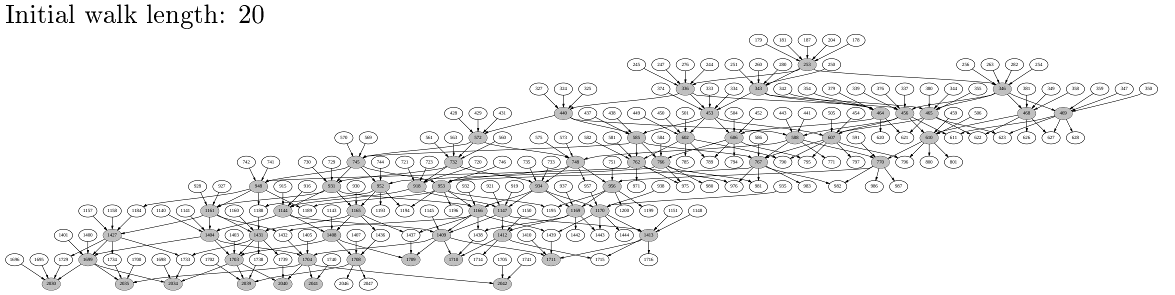
Initial walk length: 40



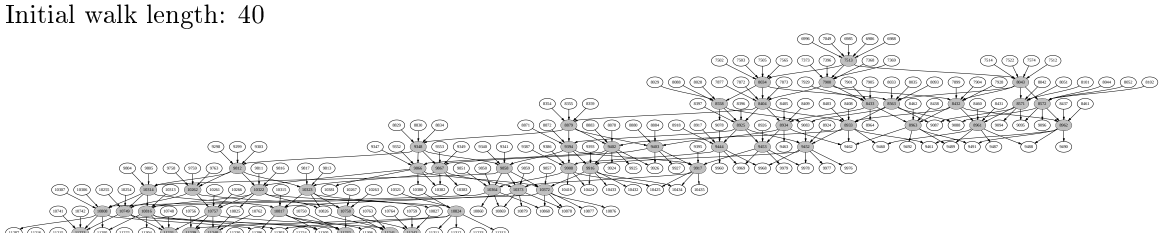
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60