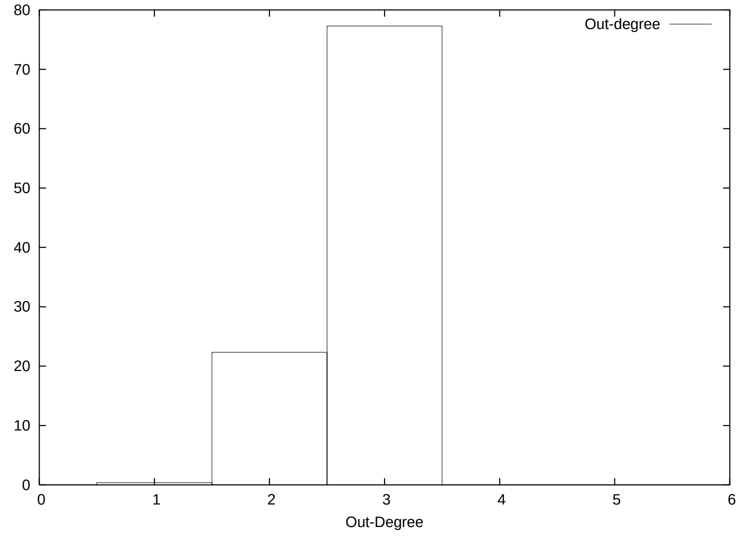
Graph: spin/petersonN

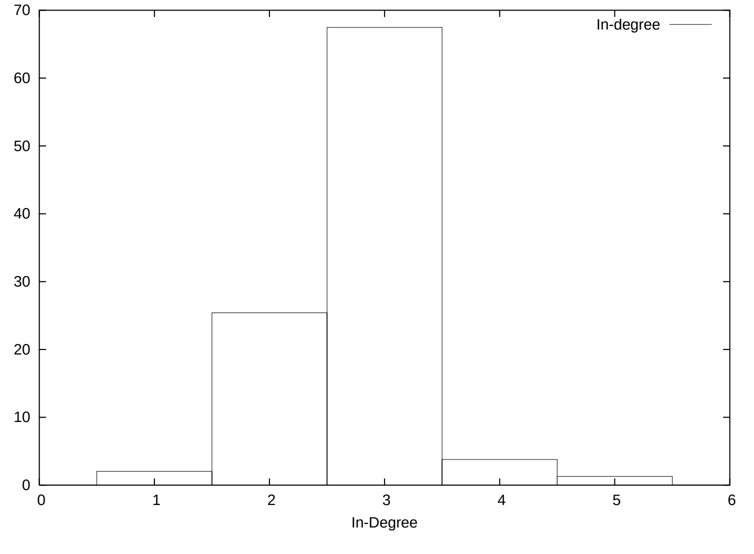
General Info

Example title	Peterson protocol for N processes
Parameter	3
Reduction	
Modification	
States	30,432
Edges	84,268
Average degree	2.7

Out-Degrees distribution:



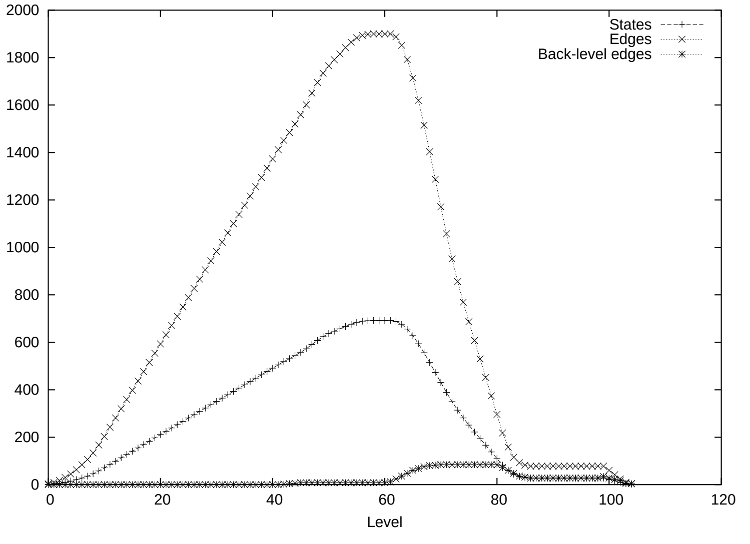
In-Degrees distribution:



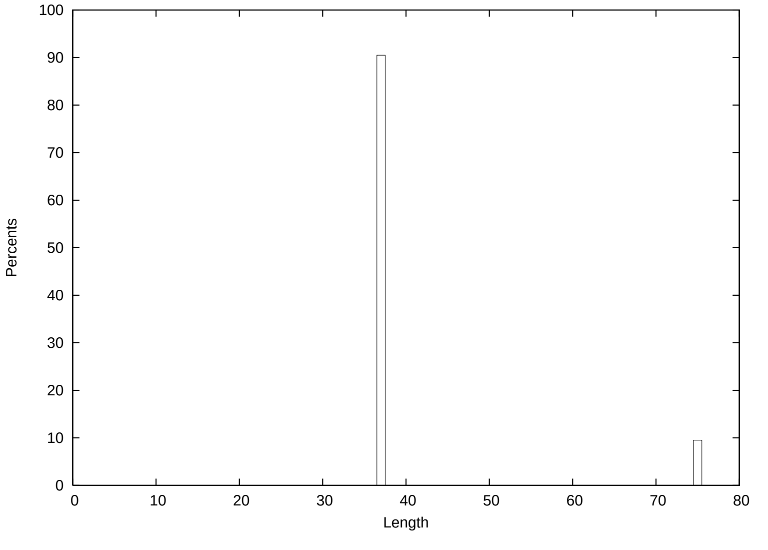
BFS Info

BFS height	104
BFS width	692 (2.2%)
Back level edges	2,272 (2.6%)

BFS level info:



Back level edges lengths:



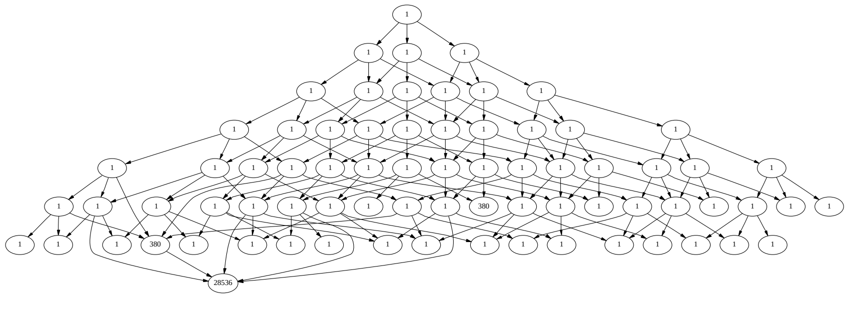
SCC Info

SCC components	836
SCC quetient height	30
SCC quetient nontrivial height	2
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
28,536	1	93.7%
380	2	2.4%
304	1	0.9%
1	832	2.7%

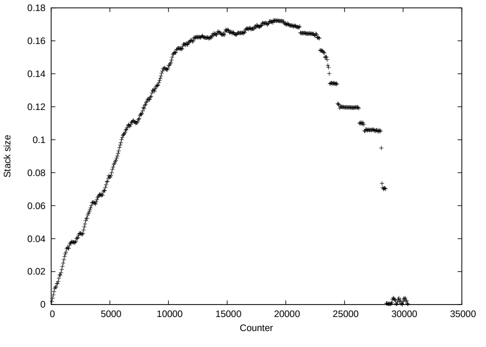
SCC component graph (part):



DFS Info

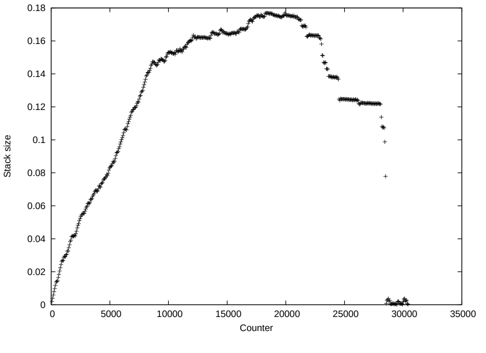
Run 0

front-edges : back-edges : cross-edges = 30,431 : 8,770 : 45,067 = 36.1%:10.4%:53.4%
Max. stack size: 5,252 (17.2%)
Shortest cycle detected: 76
Most often detected lengths of cycles: 114 (683), 228 (483), 342 (254), 1292 (215), 1520 (195)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 30,431 : 9,006 : 44,831 = 36.1%:10.6%:53.2%
Max. stack size: 5,392 (17.7%)
Shortest cycle detected: 76
Most often detected lengths of cycles: 114 (521), 228 (482), 152 (316), 304 (275), 1140 (220)
Stack graph:



Local Structure

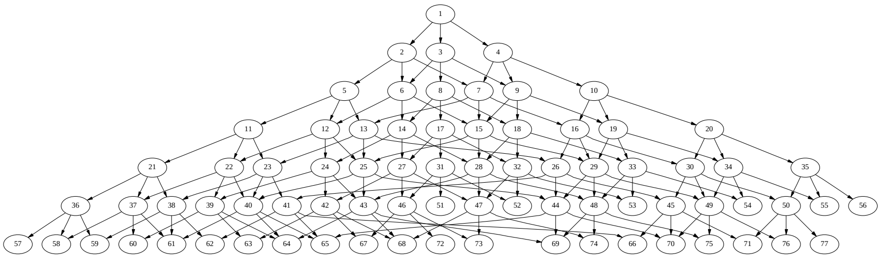
Short cycles(up to 6)
none
Diamonds

30,295 (99.5%)

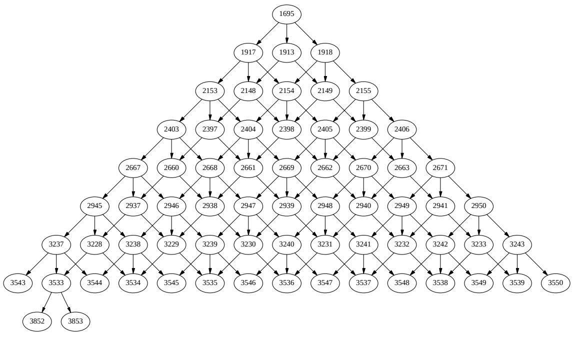
Neighborhoods

k	avg size	avg clustering
1	3.7	1
2	8.8	1.3
3	16.6	1.5
4	27.3	1.6

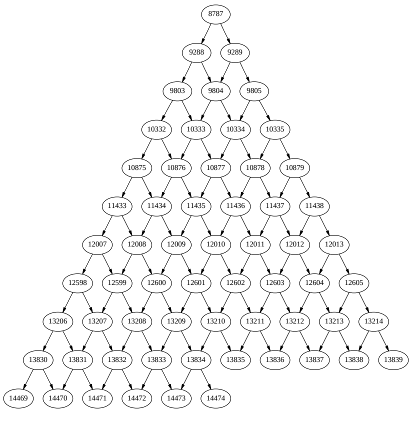
Visualization of some parts of the state state space:
Initial walk length: 0



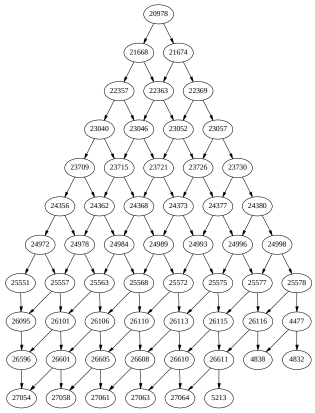
Initial walk length: 20



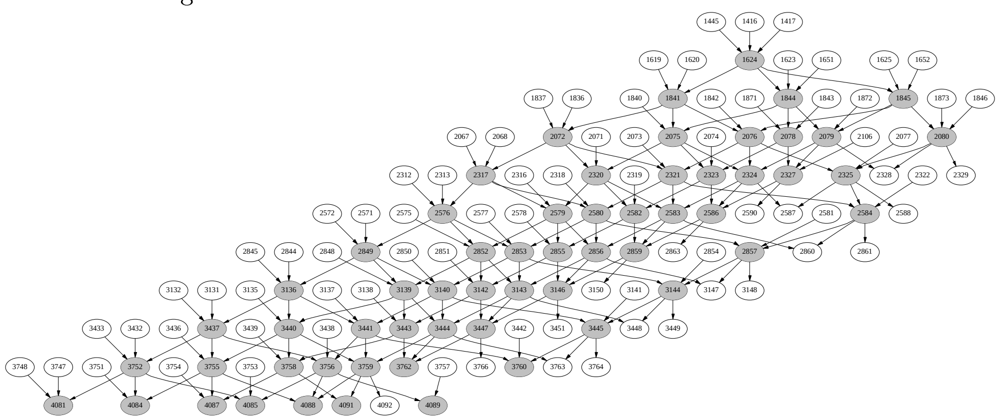
Initial walk length: 40



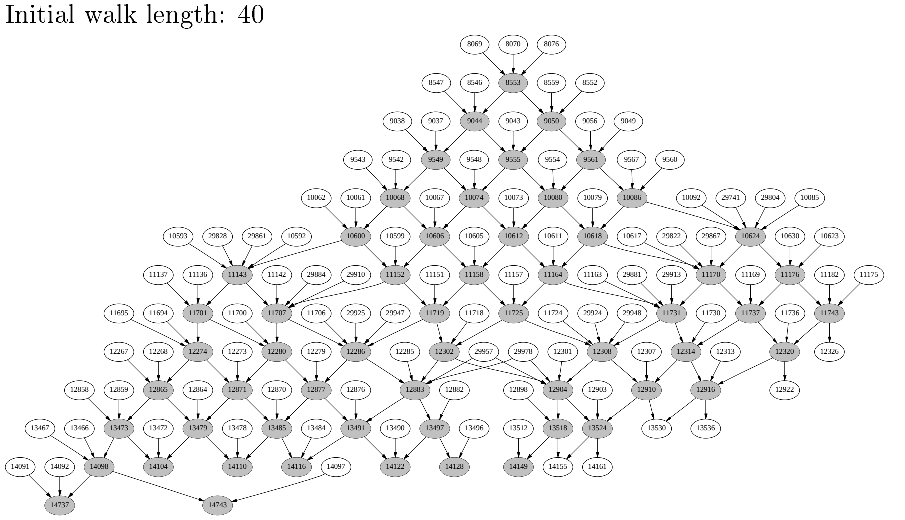
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60