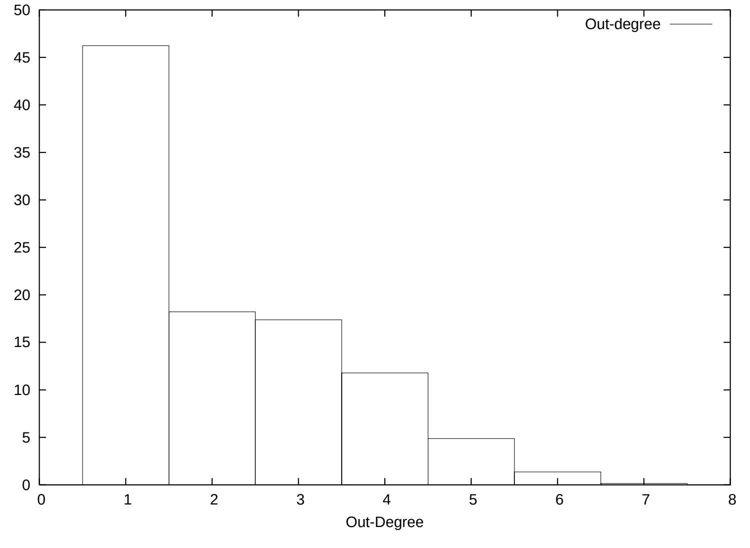
Graph: spin/pftp

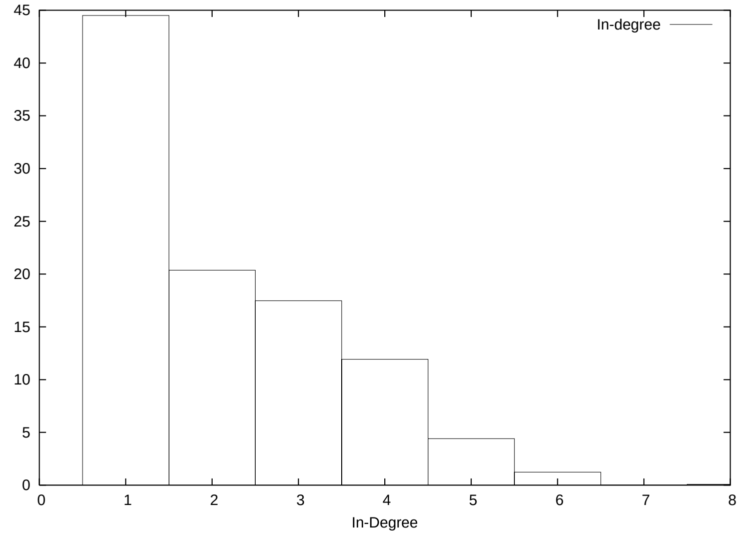
General Info

Example title	Flow control layer validation
Parameter	
Reduction	
Modification	
States	219,167
Edges	472,301
Average degree	2.1

Out-Degrees distribution:



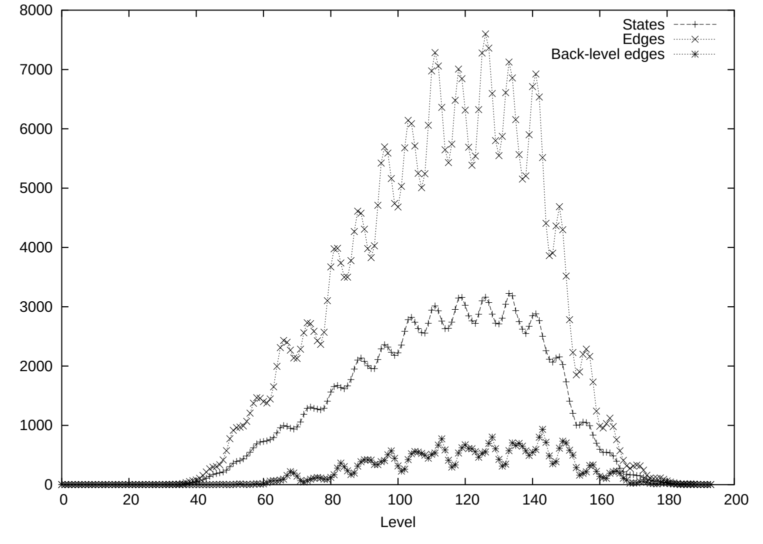
In-Degrees distribution:



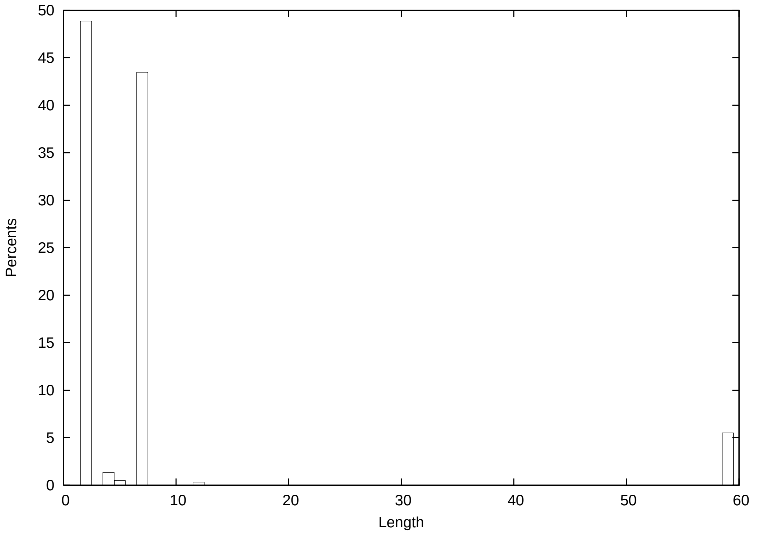
BFS Info

BFS height	193
BFS width	3,224 (1.4%)
Back level edges	41,326 (8.7%)

BFS level info:



Back level edges lengths:



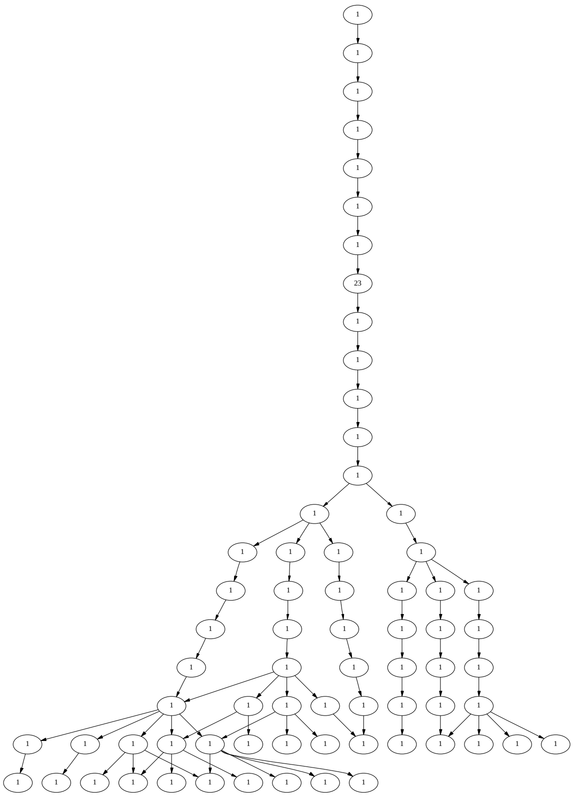
SCC Info

SCC components	195,948
SCC quetient height	421
SCC quetient nontrivial height	49
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
5,448	3	7.4%
23	1	0%
11	459	2.3%
3	1,133	1.5%
1	194,352	88.6%

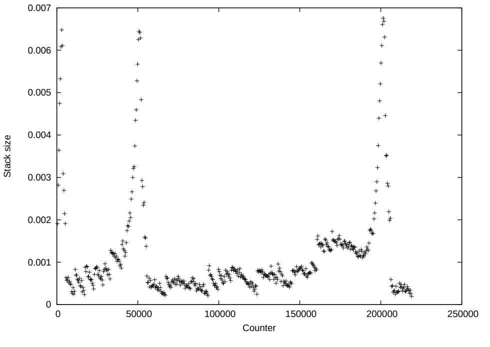
SCC component graph (part):



DFS Info

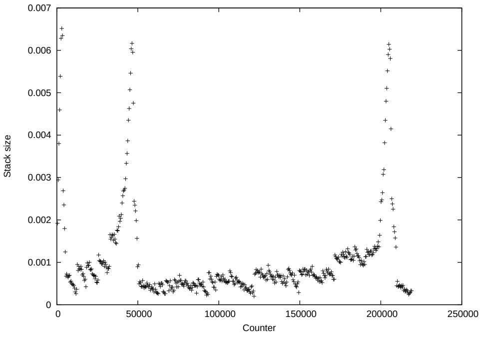
Run 0

front-edges : back-edges : cross-edges = 219,166 : 6,644 : 246,491 = 46.4%:1.4%:52.1%
Max. stack size: 1,497 (0.6%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 3 (1694), 120 (459), 60 (398), 240 (381), 300 (325)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 219,166 : 6,486 : 246,649 = 46.4%:1.3%:52.2%
Max. stack size: 1,475 (0.6%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 3 (1694), 180 (499), 120 (449), 60 (411), 300 (364)
Stack graph:



Local Structure

Short cycles(up to 6)

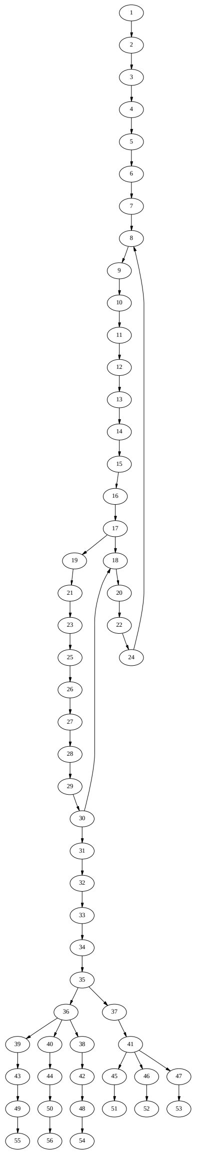
2	0	(0%)
3	5,082	(2.3%)

Diamonds
103,246 (47.1%)

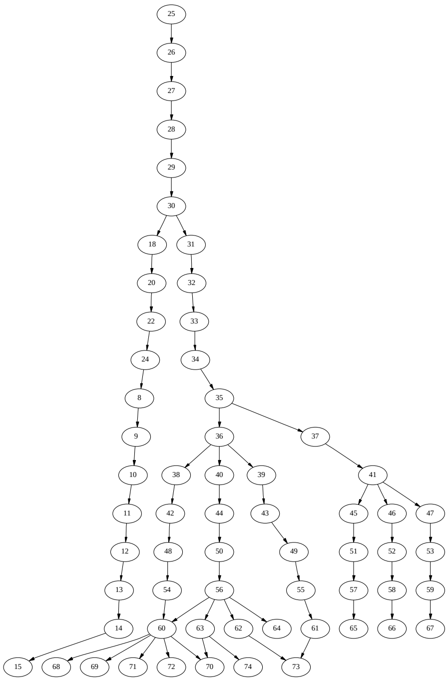
Neighborhoods

k	avg size	avg clustering
1	3.1	1
2	7.1	1.1
3	13.2	1.2
4	21.7	1.3

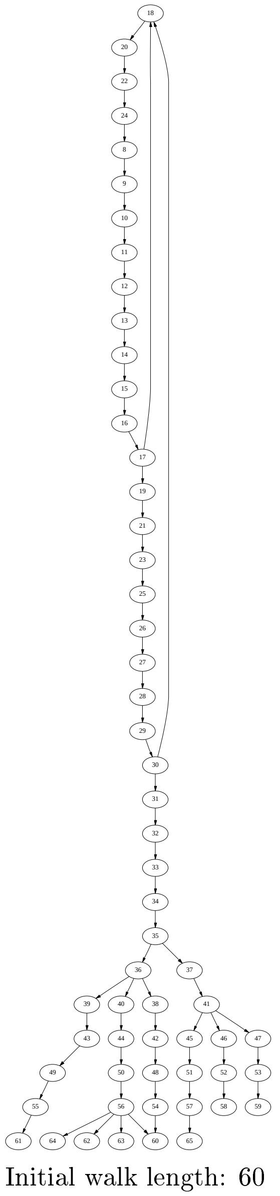
Visualization of some parts of the state state space:
Initial walk length: 0



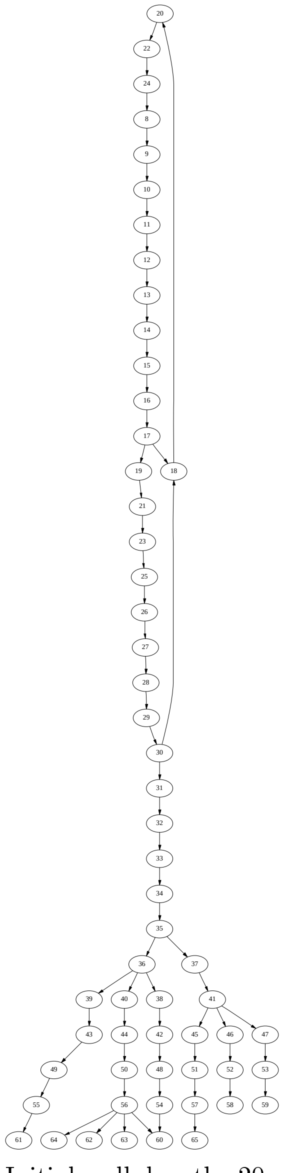
Initial walk length: 20



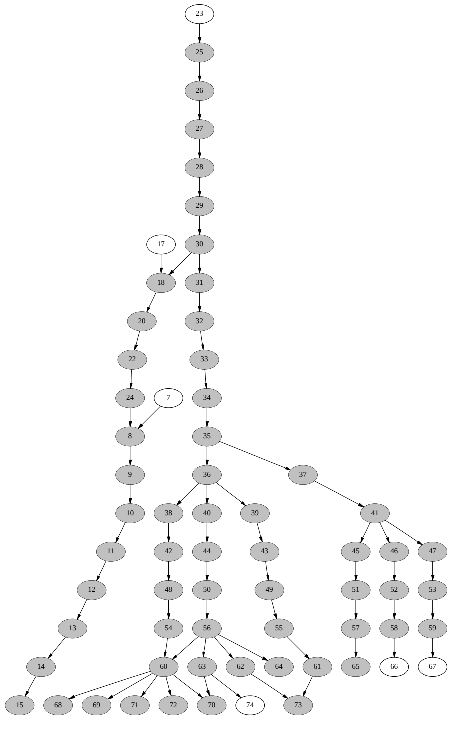
Initial walk length: 40



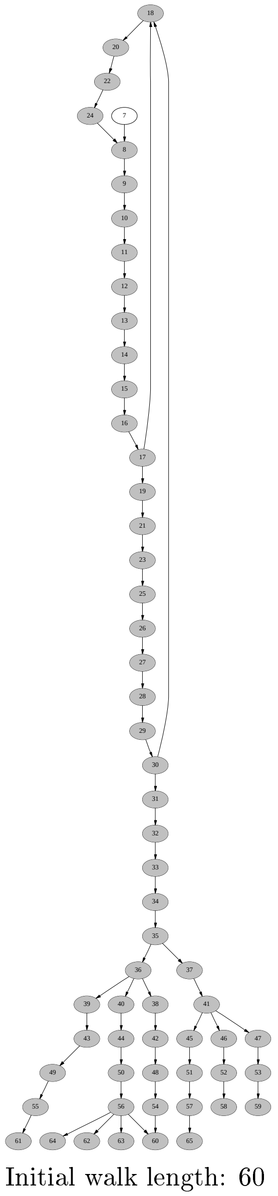
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60