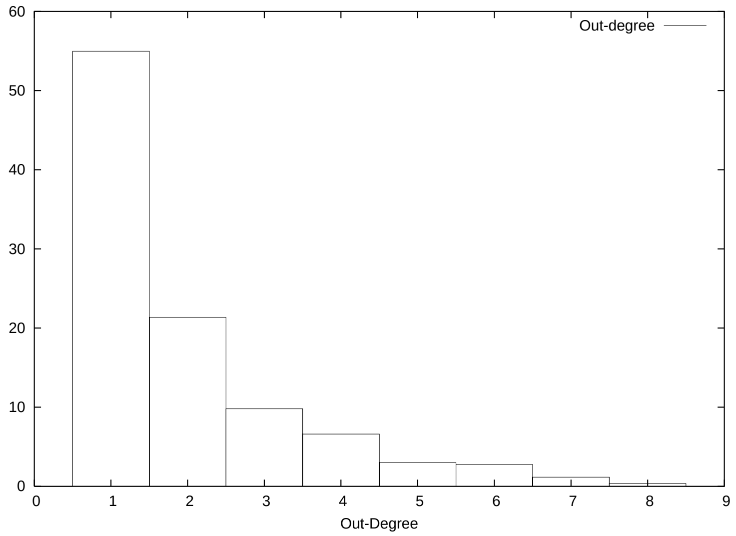
Graph: spin/pftp.red

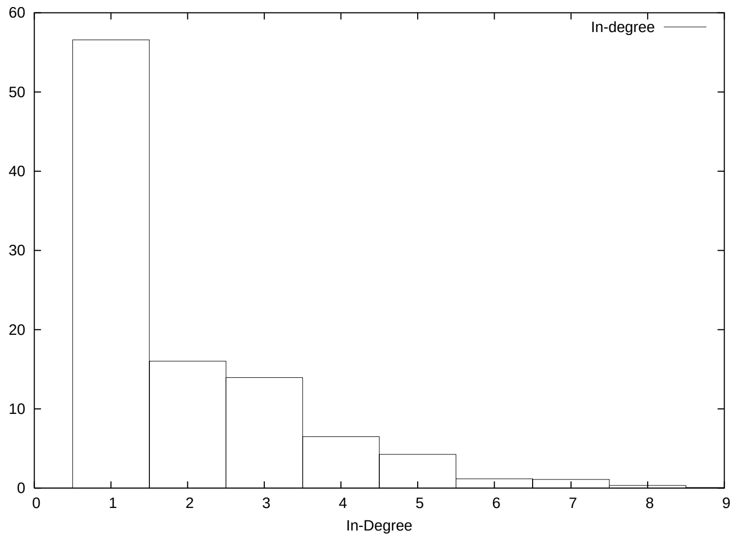
General Info

Example title	Flow control layer validation
Parameter	
Reduction	POR
Modification	
States	137,897
Edges	270,200
Average degree	1.9

Out-Degrees distribution:



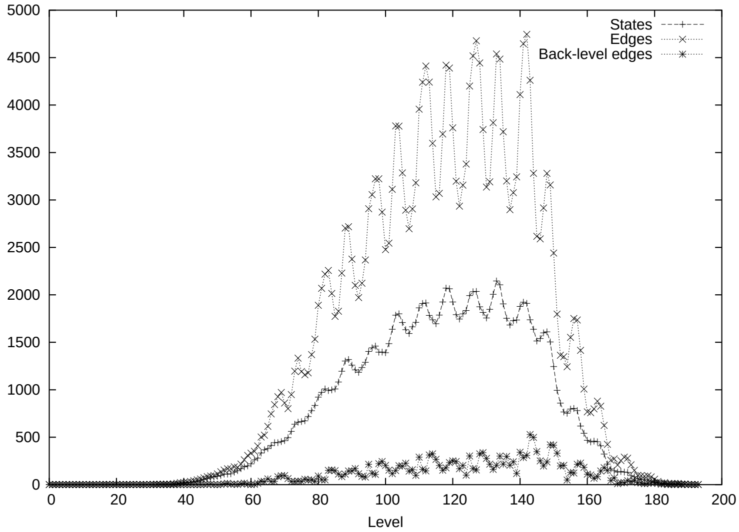
In-Degrees distribution:



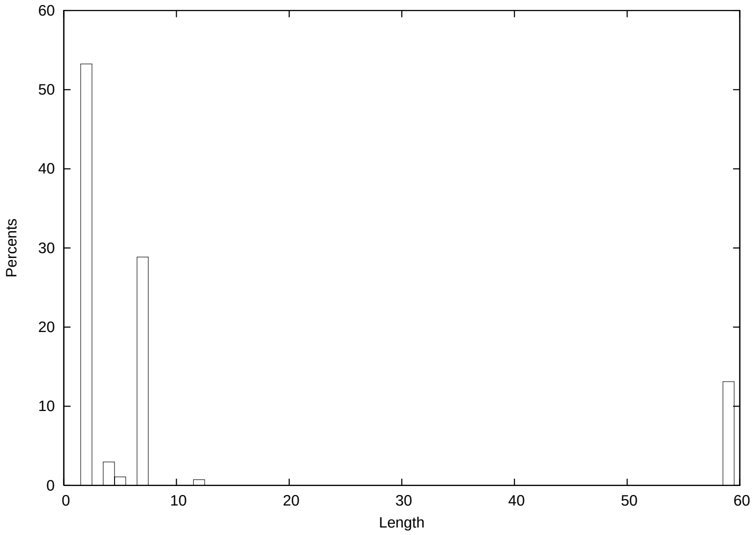
BFS Info

BFS height	193
BFS width	2,146 (1.5%)
Back level edges	18,679 (6.9%)

BFS level info:



Back level edges lengths:



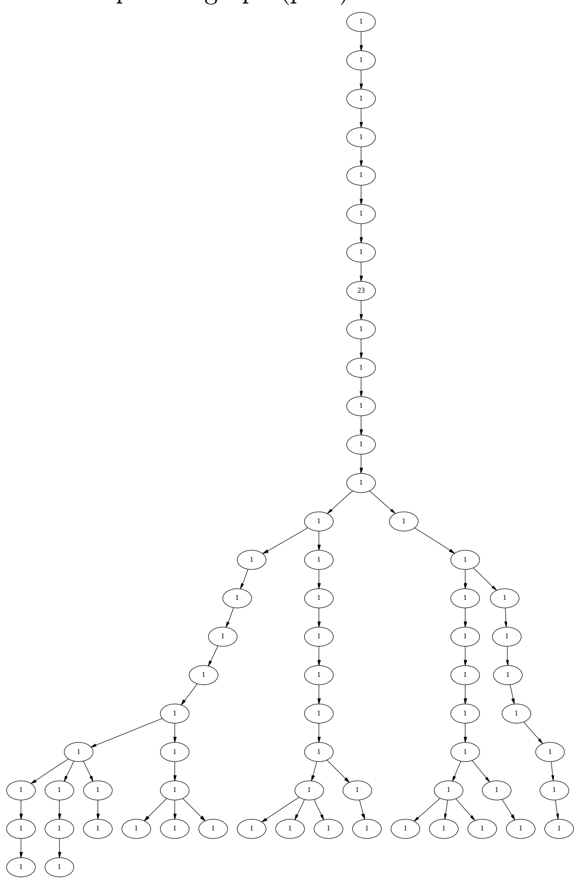
SCC Info

SCC components	121,777
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
4,326	1	3.1%
2,470	1	1.7%
2,449	1	1.7%
23	1	0%
11	459	3.6%
3	1,133	2.4%
1	120,181	87.1%

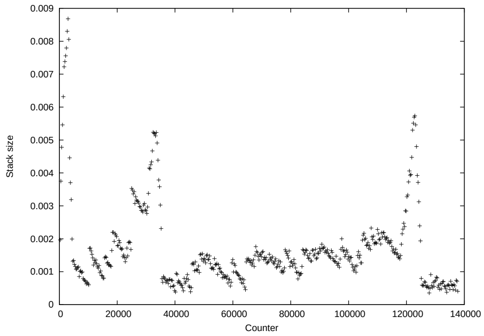
SCC component graph (part):



DFS Info

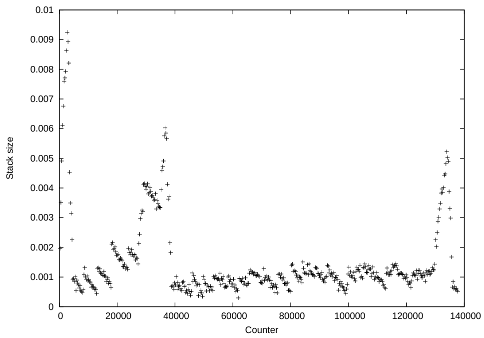
Run 0

front-edges : back-edges : cross-edges = 137,896 : 4,164 : 128,140 = 51%:1.5%:47.4%
Max. stack size: 1,210 (0.8%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 3 (1694), 8 (335), 11 (324), 60 (317), 120 (267)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 137,896 : 4,322 : 127,982 = 51%:1.5%:47.3%
Max. stack size: 1,293 (0.9%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 3 (1694), 60 (335), 8 (335), 11 (304), 120 (233)
Stack graph:



Local Structure

Short cycles(up to 6)

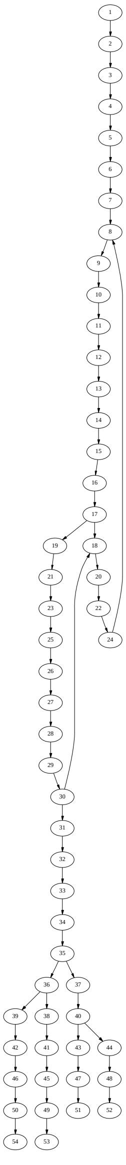
2	0	(0%)
3	5,082	(3.6%)

Diamonds
44,290 (32.1%)

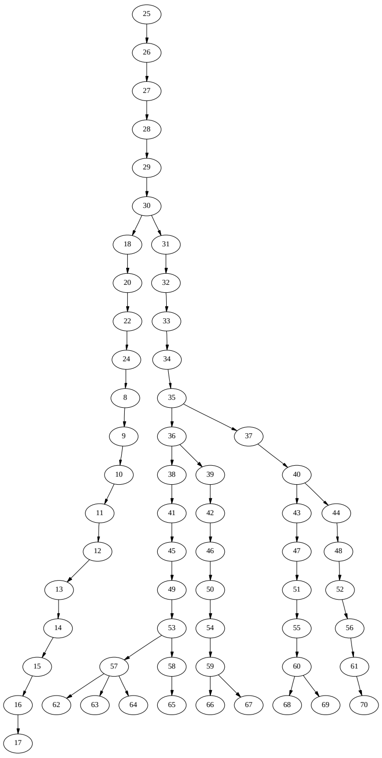
Neighborhoods

k	avg size	avg clustering
1	2.7	1
2	5.4	1.1
3	9	1.2
4	13.8	1.3

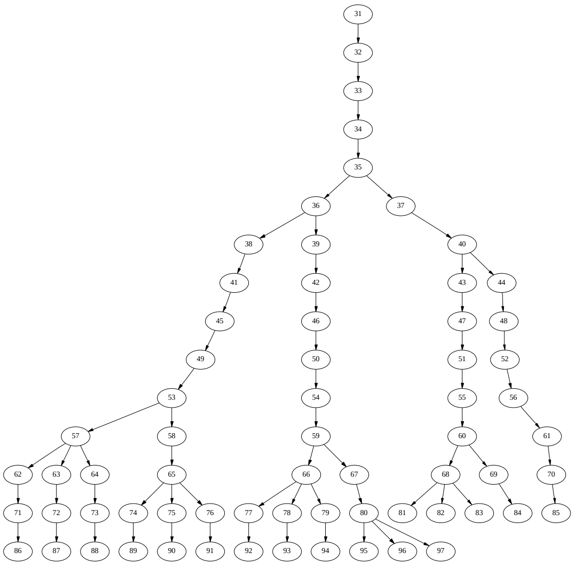
Visualization of some parts of the state state space:
Initial walk length: 0



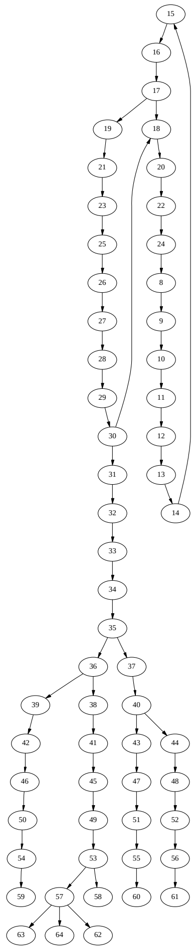
Initial walk length: 20



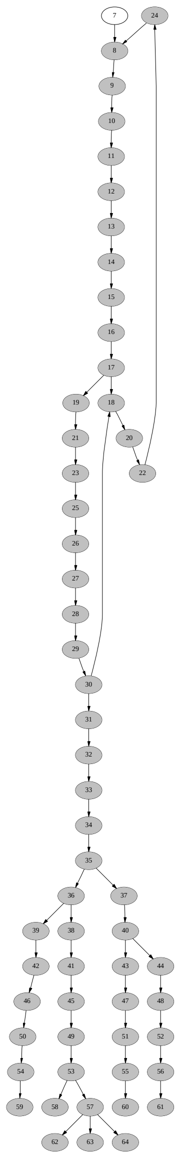
Initial walk length: 40



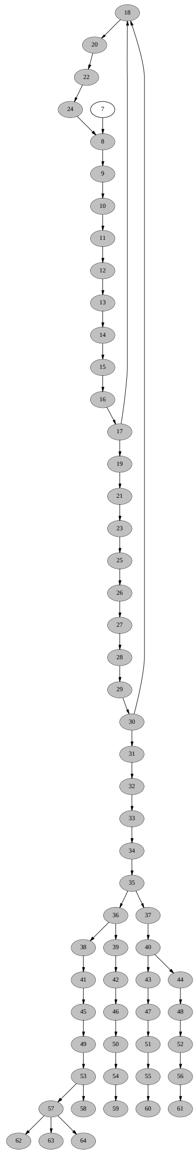
Initial walk length: 60



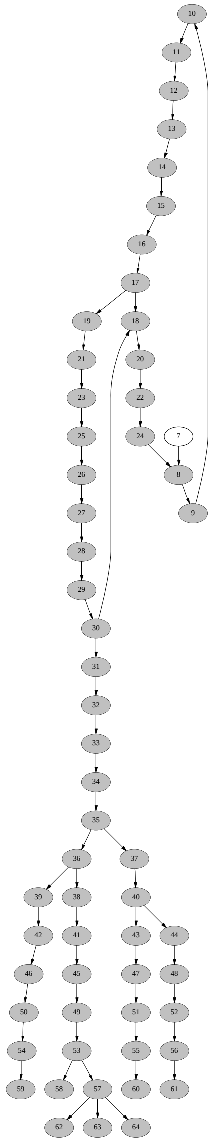
Initial walk length: 20



Initial walk length: 40



Initial walk length: 60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