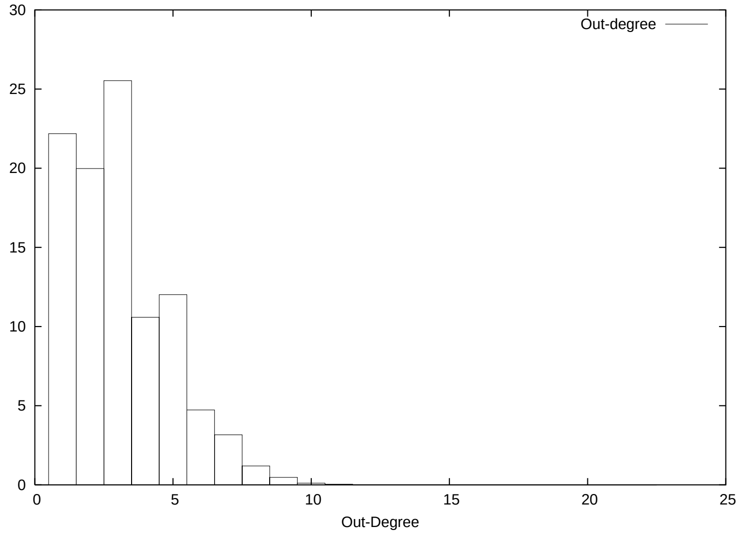
Graph: mcrl/lift4-modif

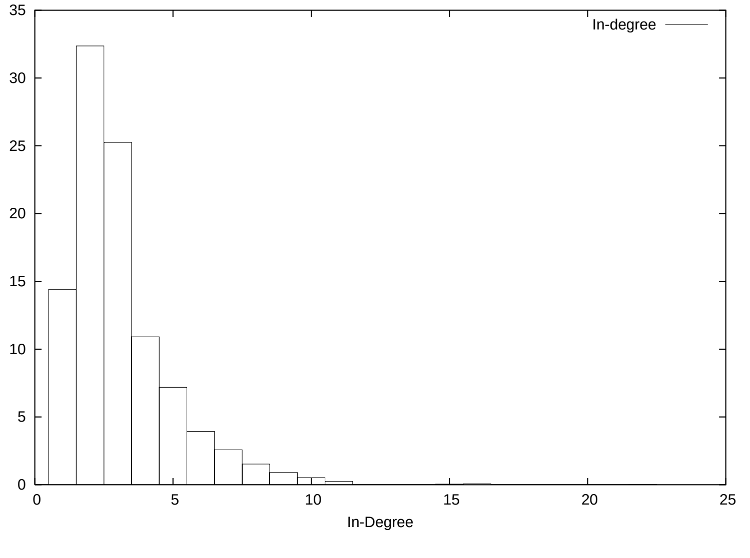
General Info

Example title	Distributed Lift System
Parameter	4
Reduction	
Modification	
States	129,849
Edges	398,596
Average degree	3

Out-Degrees distribution:



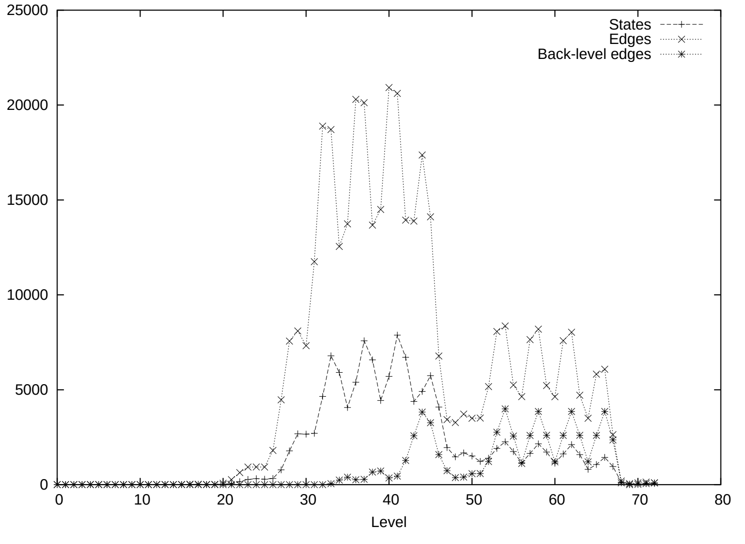
In-Degrees distribution:



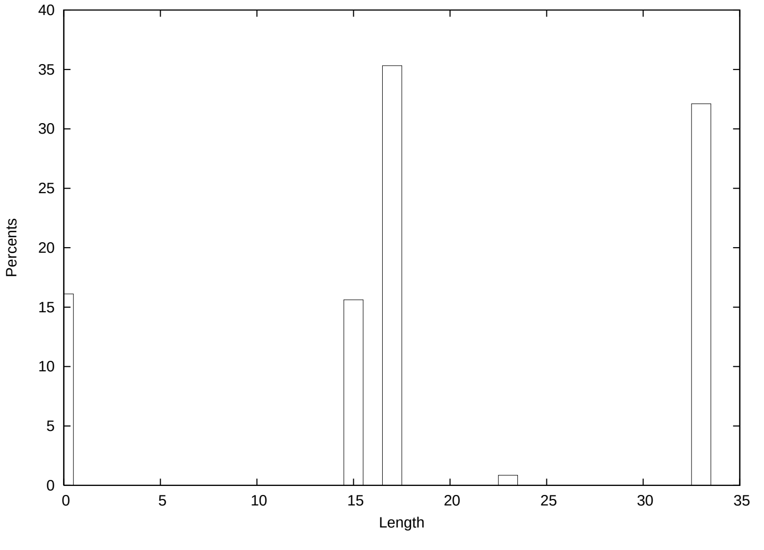
BFS Info

BFS height	72
BFS width	7,876 (6%)
Back level edges	59,800 (15%)

BFS level info:



Back level edges lengths:



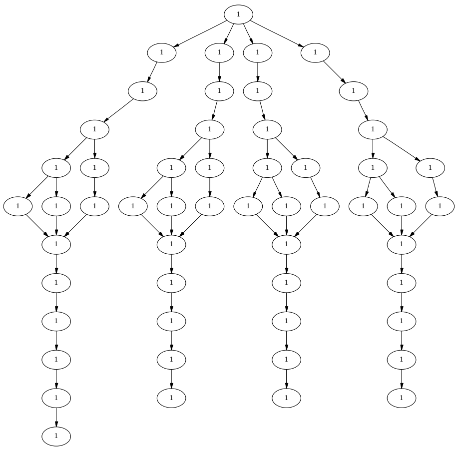
SCC Info

SCC components	3,629
SCC quetient height	30
SCC quetient nontrivial height	1
Number of terminal components	4
The largest component is	terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
31,556	4	97.2%
1	3,625	2.7%

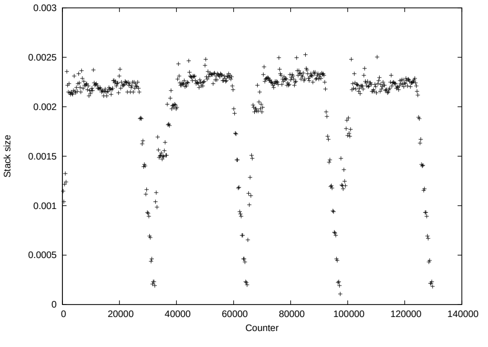
SCC component graph (part):



DFS Info

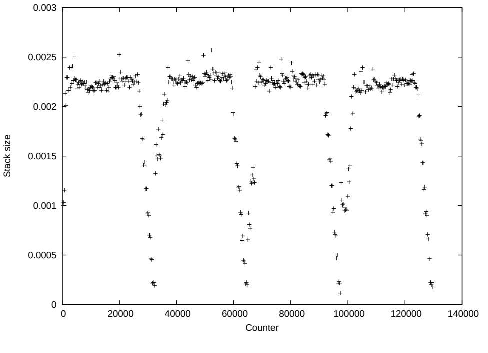
Run 0

front-edges : back-edges : cross-edges = 129,848 : 2,548 : 266,200 = 32.5%:0.6%:66.7%
Max. stack size: 343 (0.2%)
Shortest cycle detected: 16
Most often detected lengths of cycles: 61 (204), 60 (163), 161 (159), 100 (127), 38 (119)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 129,848 : 2,586 : 266,162 = 32.5%:0.6%:66.7%
Max. stack size: 340 (0.2%)
Shortest cycle detected: 16
Most often detected lengths of cycles: 62 (278), 61 (184), 39 (138), 224 (105), 162 (104)
Stack graph:



Local Structure

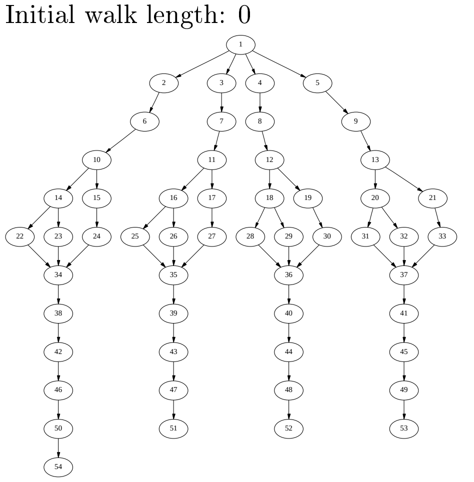
Short cycles(up to 6)
none
Diamonds

79,960 (61.5%)

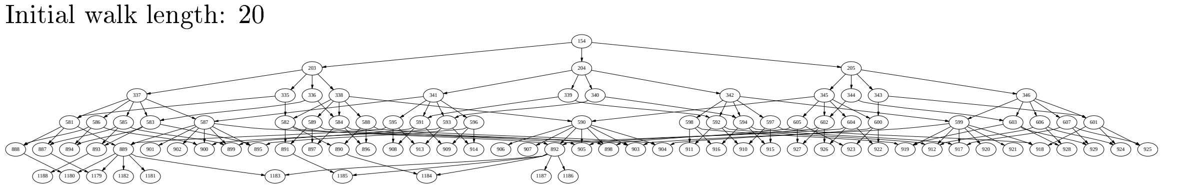
Neighborhoods

k	avg size	avg clustering
1	4	1
2	10.1	1.2
3	21	1.3
4	39.6	1.4

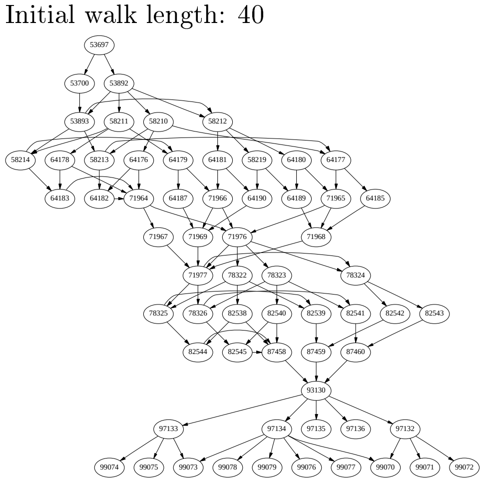
Visualization of some parts of the state state space:
Initial walk length: 0



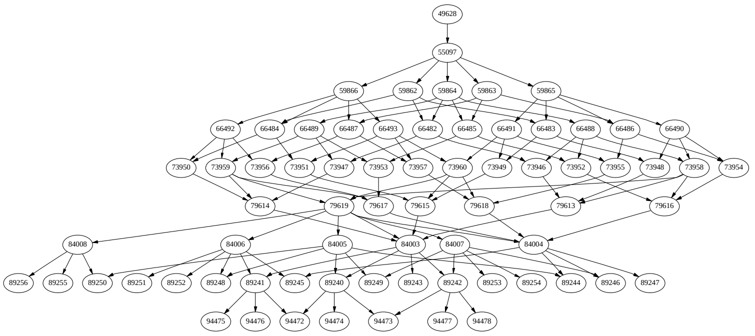
Initial walk length: 20



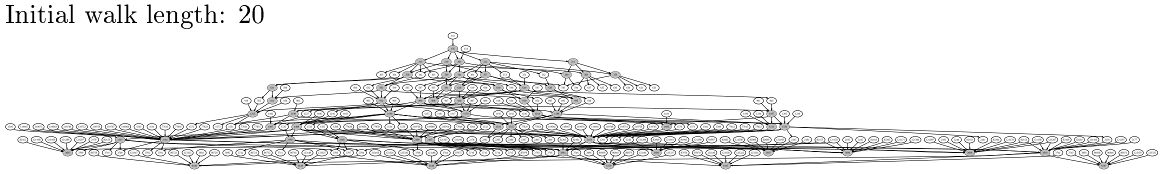
Initial walk length: 40



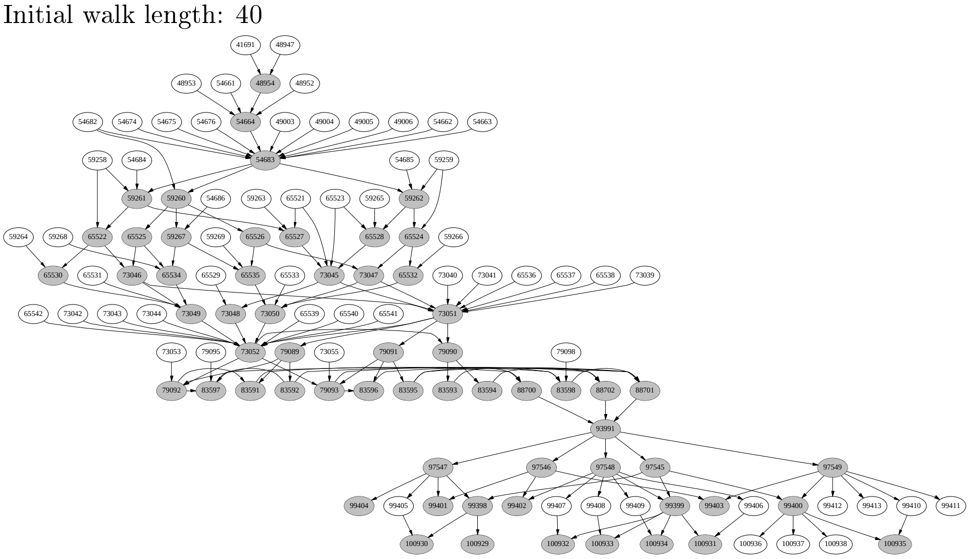
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60