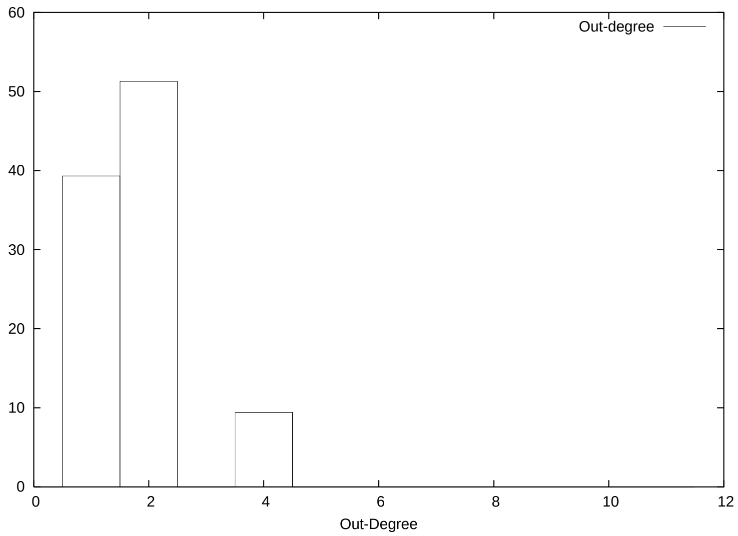
Graph: cadp/brp_service

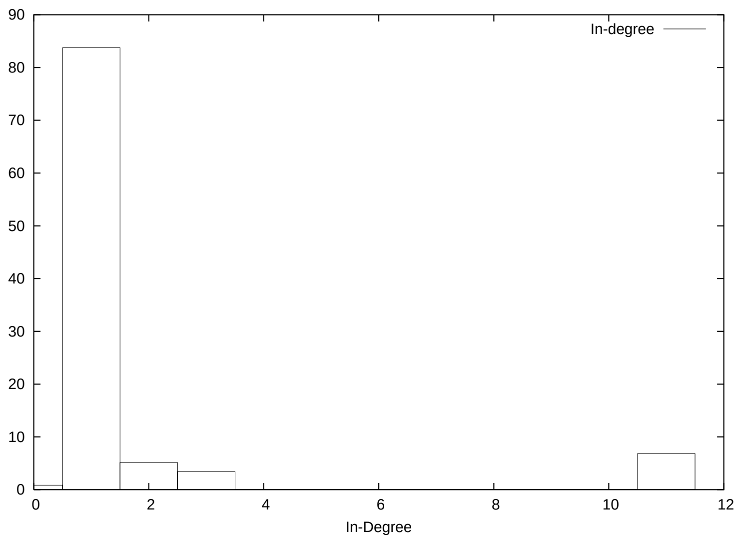
General Info

Example title	Philips' Bounded Retransmission Protocol
Parameter	
Reduction	
Modification	service description
States	117
Edges	210
Average degree	1.7

Out-Degrees distribution:



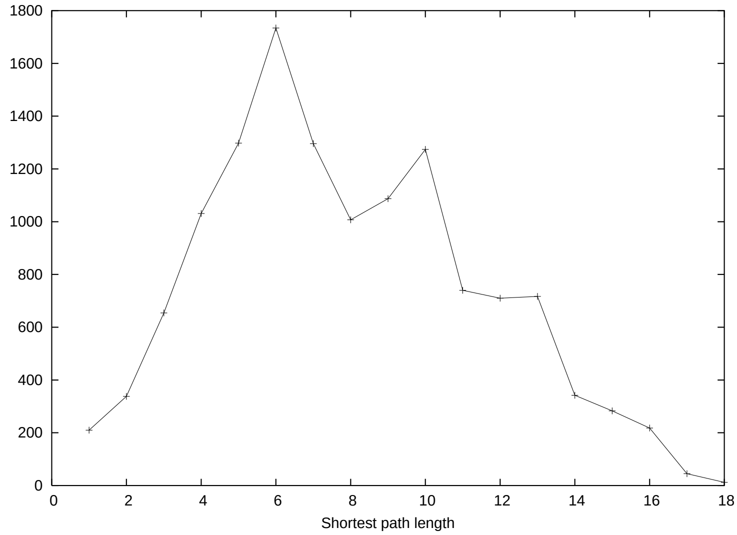
In-Degrees distribution:



Shortest Paths Info

Diameter: 18
Average shortest path length: 7.92552

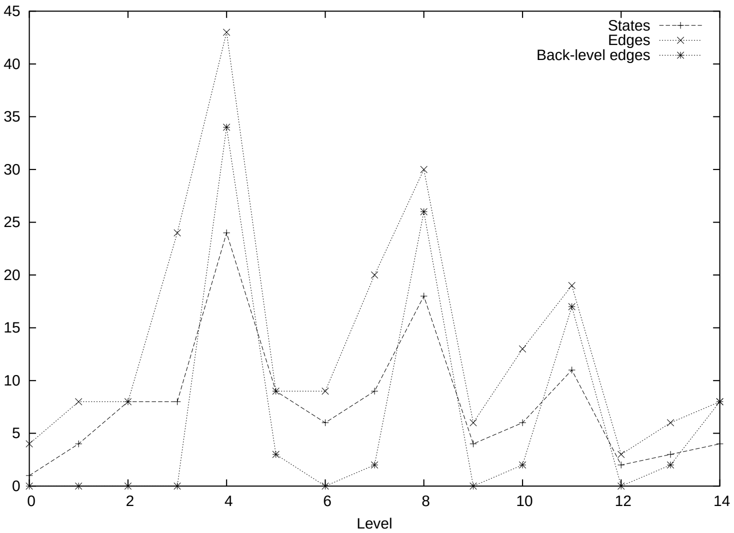
Shortest paths lengths frequencies:



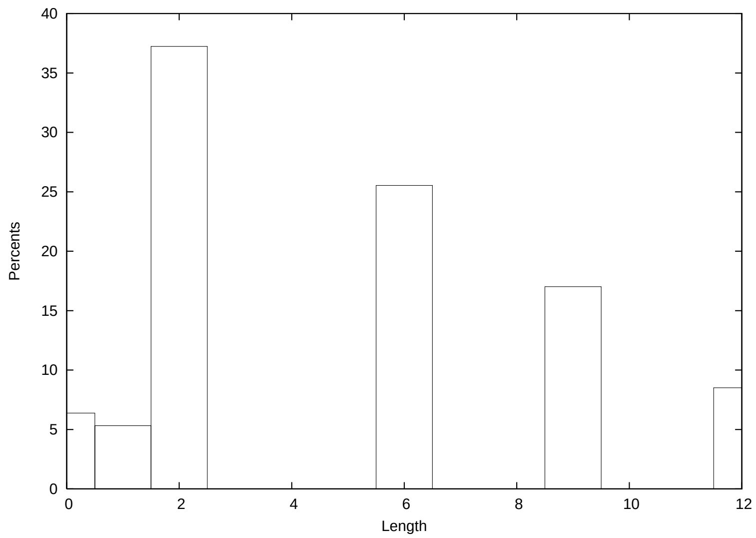
BFS Info

BFS height	14
BFS width	24 (20.5%)
Back level edges	94 (44.7%)

BFS level info:



Back level edges lengths:



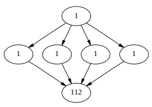
SCC Info

SCC components	6
SCC quetient height	2
SCC quetient nontrivial height	1
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
112	1	95.7%
1	5	4.2%

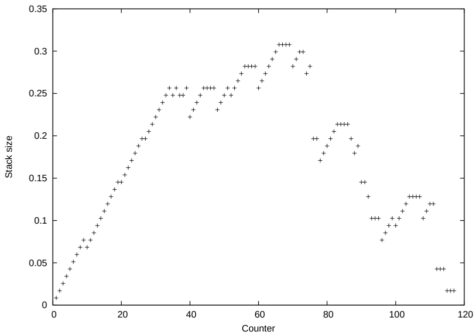
SCC component graph (part):



DFS Info

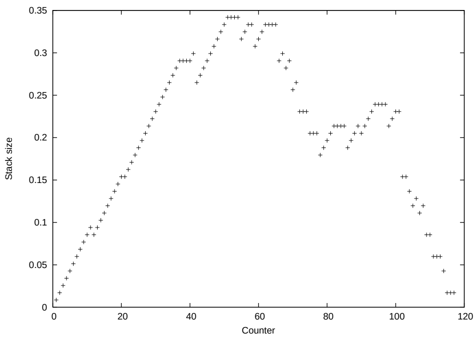
Run 0

front-edges : back-edges : cross-edges = 116 : 40 : 54 = 55.2%:19%:25.7%
Max. stack size: 36 (30.7%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 13 (4), 6 (3), 10 (3), 21 (2), 7 (2)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 116 : 45 : 49 = 55.2%:21.4%:23.3%
Max. stack size: 40 (34.1%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 6 (4), 16 (3), 32 (2), 21 (2), 7 (2)
Stack graph:



Local Structure

Short cycles(up to 6)

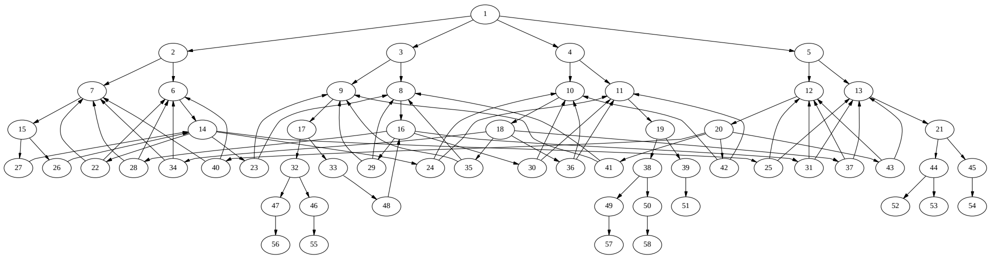
2	0	(0%)
3	12	(10.2%)
4	0	(0%)
5	4	(3.4%)
6	24	(20.5%)

Diamonds
4 (3.4%)

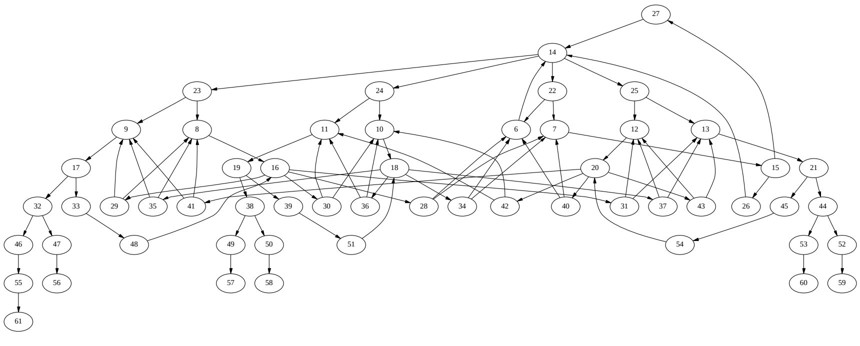
Neighborhoods

k	avg size	avg clustering
1	2.7	1
2	5.6	1
3	11.2	1
4	20	1

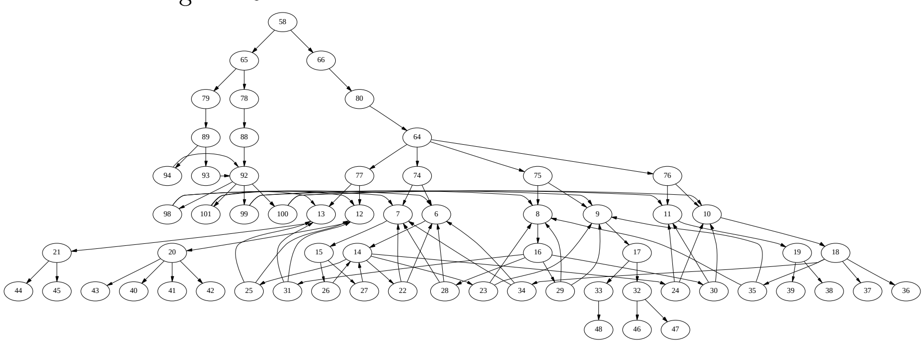
Visualization of some parts of the state state space:
Initial walk length: 0



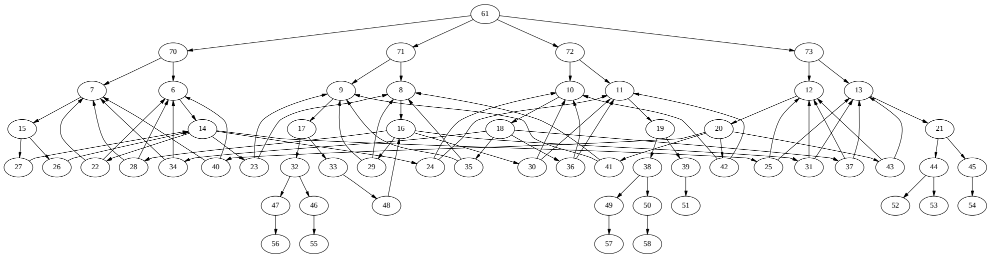
Initial walk length: 20



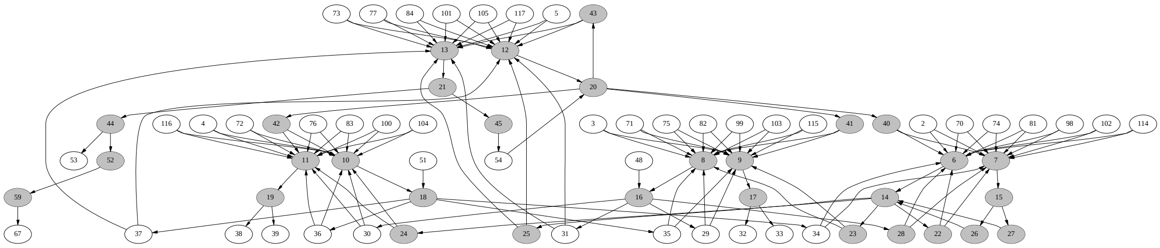
Initial walk length: 40



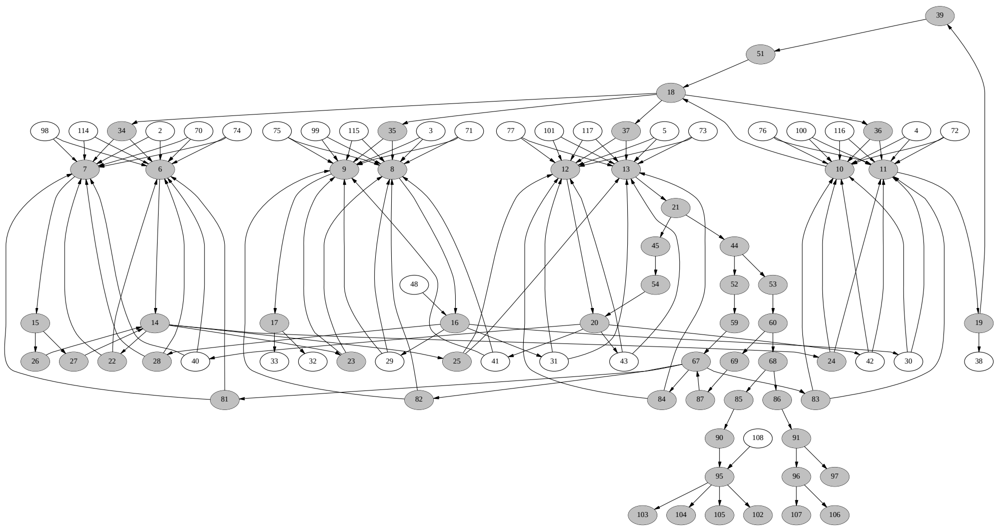
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60