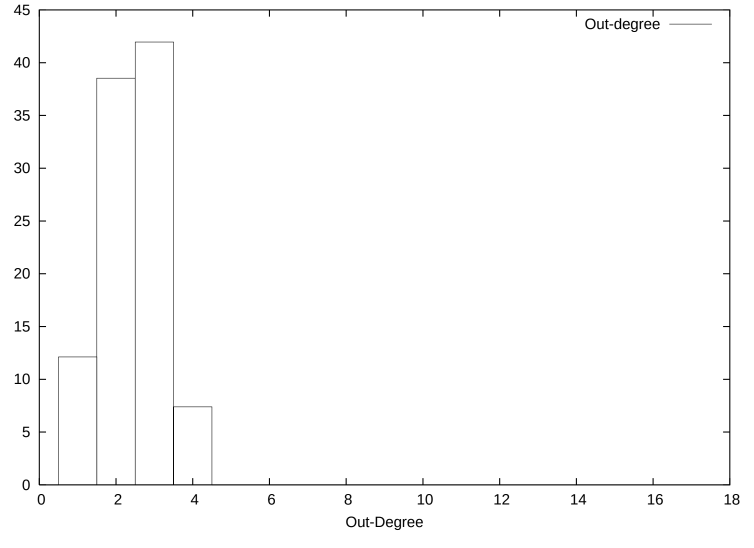
Graph: cadp/inres_protocol_int_6

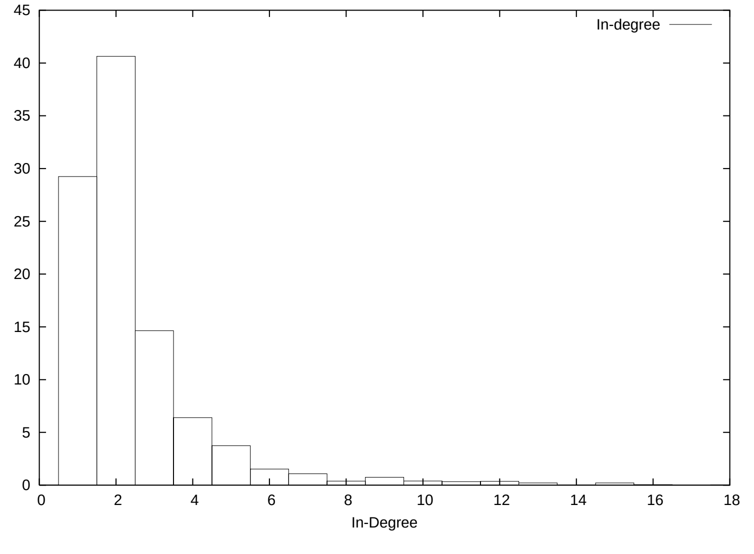
General Info

Example title	INRES protocol
Parameter	
Reduction	
Modification	version 6
States	7,887
Edges	19,293
Average degree	2.4

Out-Degrees distribution:



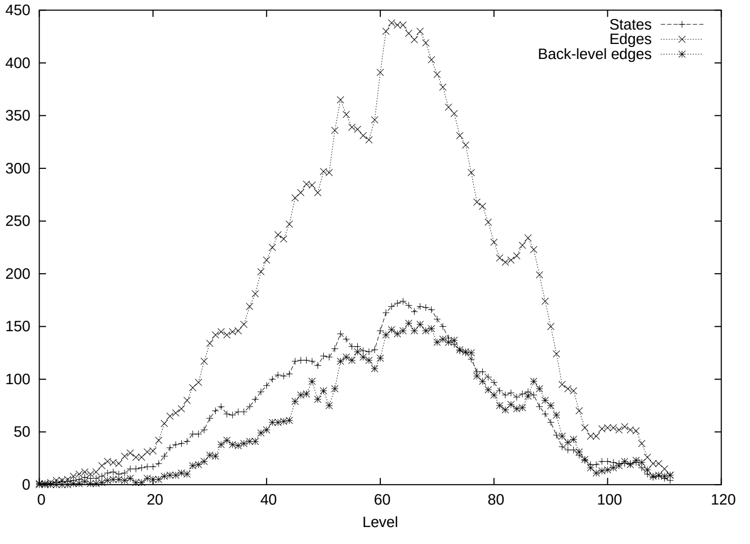
In-Degrees distribution:



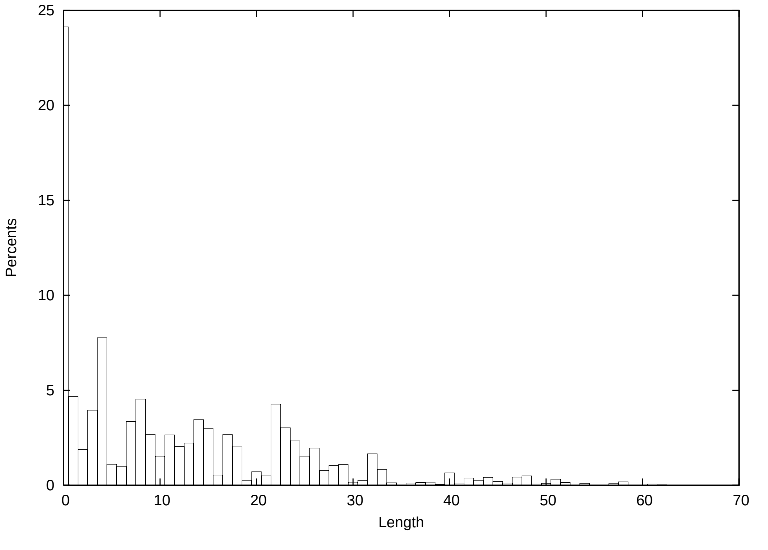
BFS Info

BFS height	111
BFS width	174 (2.2%)
Back level edges	6,354 (32.9%)

BFS level info:



Back level edges lengths:



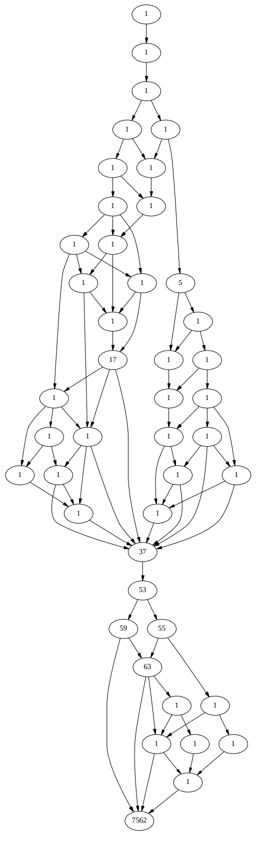
SCC Info

SCC components	44
SCC quetient height	21
SCC quetient nontrivial height	8
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
7,562	1	95.8%
63	1	0.7%
59	1	0.7%
55	1	0.6%
53	1	0.6%
37	1	0.4%
17	1	0.2%
5	1	0%
1	36	0.4%

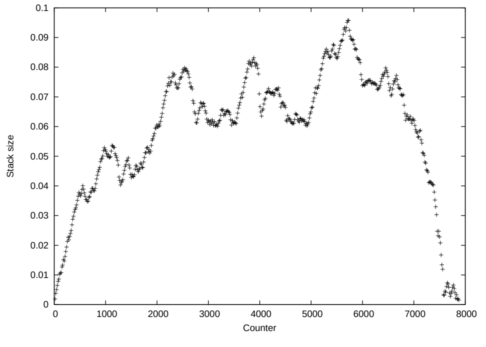
SCC component graph (part):



DFS Info

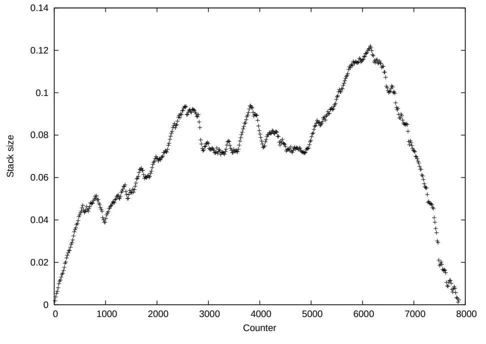
Run 0

front-edges : back-edges : cross-edges = 7,886 : 2,334 : 9,073 = 40.8%:12%:47%
Max. stack size: 756 (9.5%)
Shortest cycle detected: 5
Most often detected lengths of cycles: 5 (245), 15 (123), 19 (118), 16 (62), 18 (60)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 7,886 : 2,411 : 8,996 = 40.8%:12.4%:46.6%
Max. stack size: 965 (12.2%)
Shortest cycle detected: 5
Most often detected lengths of cycles: 5 (257), 15 (126), 19 (86), 10 (65), 24 (58)
Stack graph:



Local Structure

Short cycles(up to 6)

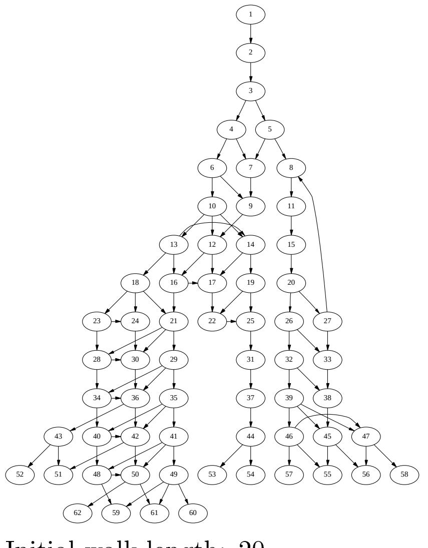
2	0	(0%)
3	0	(0%)
4	0	(0%)
5	1,830	(23.2%)

Diamonds
6,022 (76.3%)

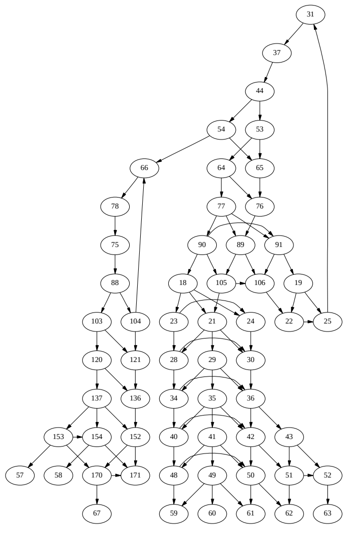
Neighborhoods

k	avg size	avg clustering
1	3.4	1
2	7.4	1.2
3	13.4	1.3
4	21.8	1.4

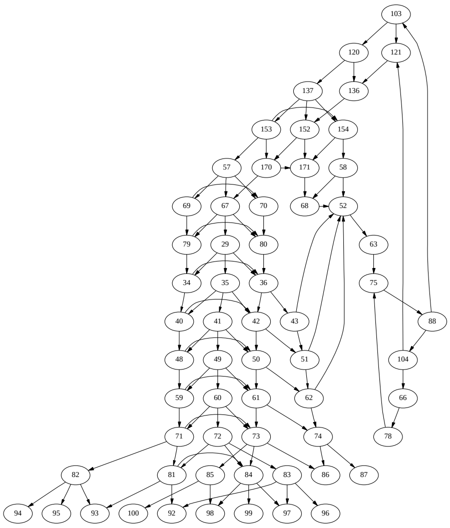
Visualization of some parts of the state state space:
Initial walk length: 0



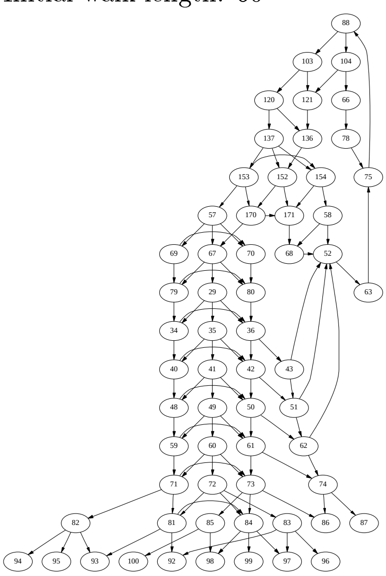
Initial walk length: 20



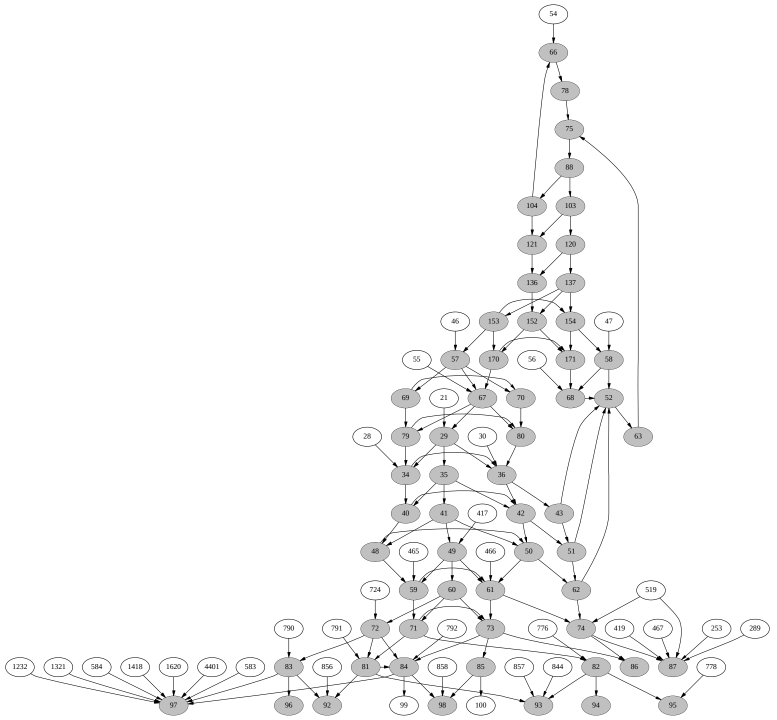
Initial walk length: 40



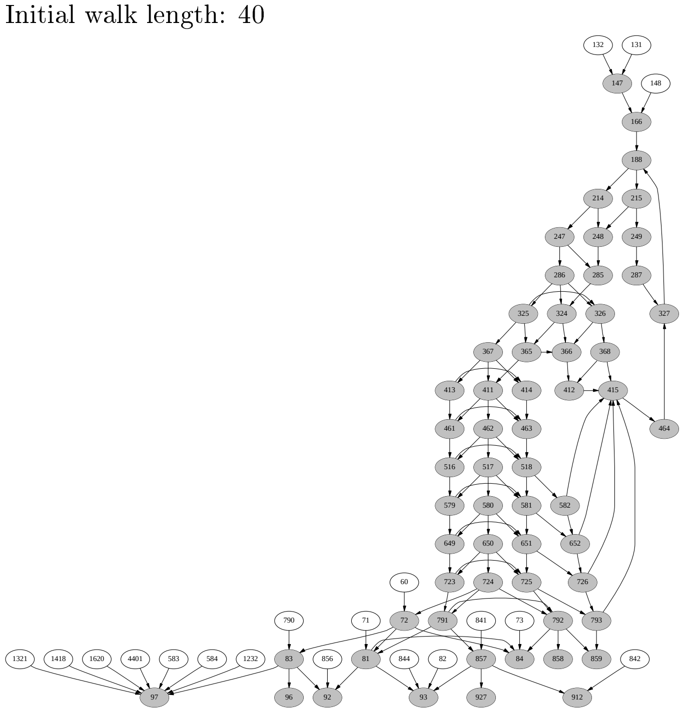
Initial walk length: 60



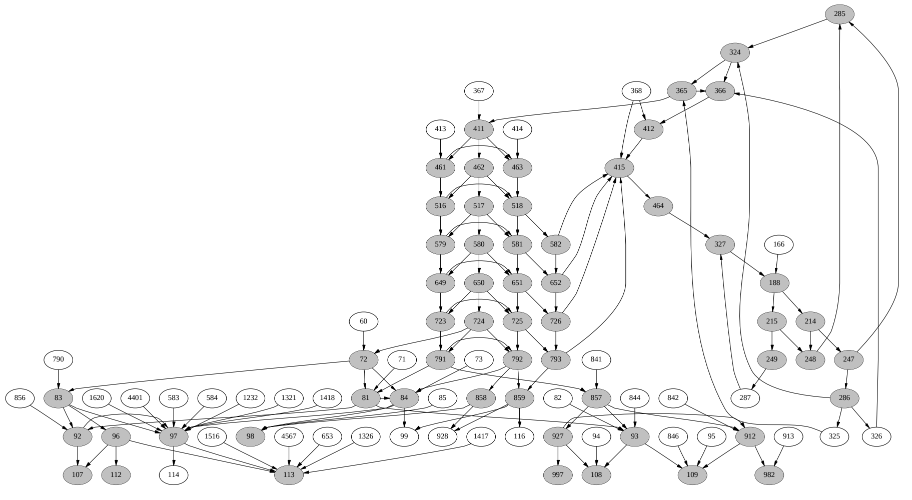
Initial walk length: 20



Initial walk length: 40



Initial walk length: 60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