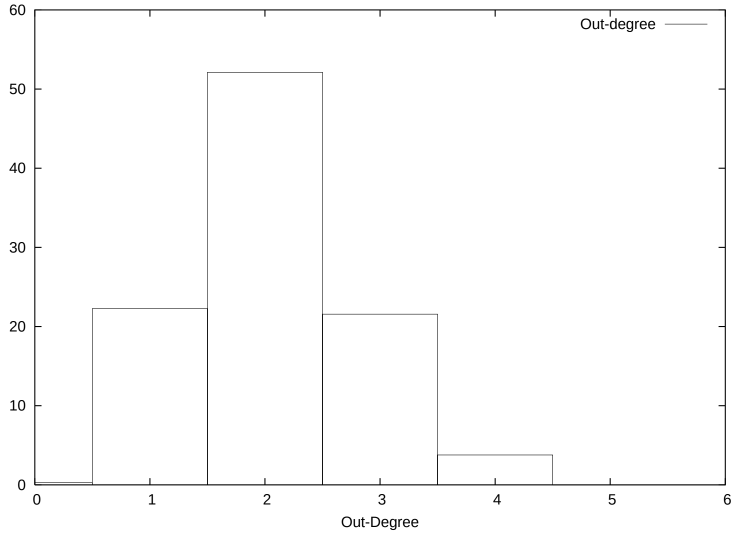
Graph: cadp/inres_protocol_int_4

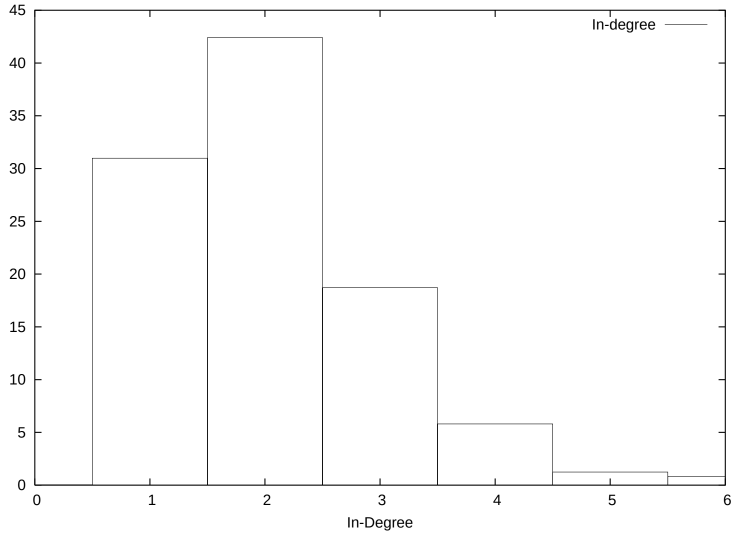
General Info

Example title	INRES protocol
Parameter	
Reduction	
Modification	version 4
States	2,811
Edges	5,798
Average degree	2

Out-Degrees distribution:



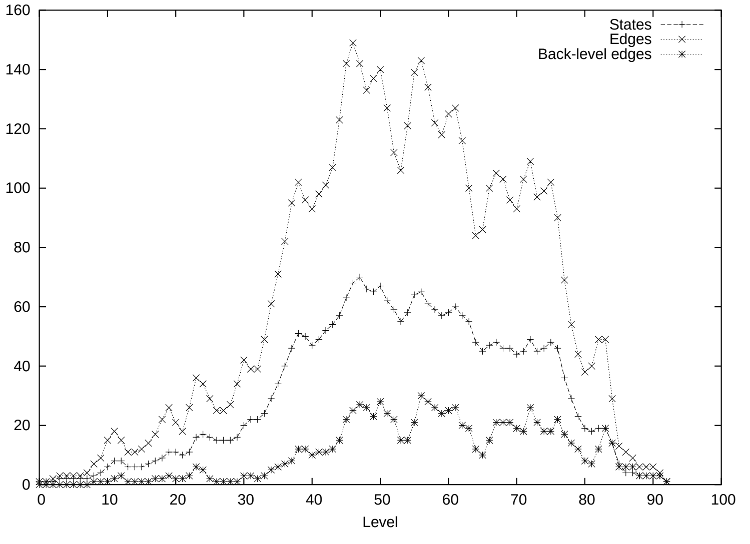
In-Degrees distribution:



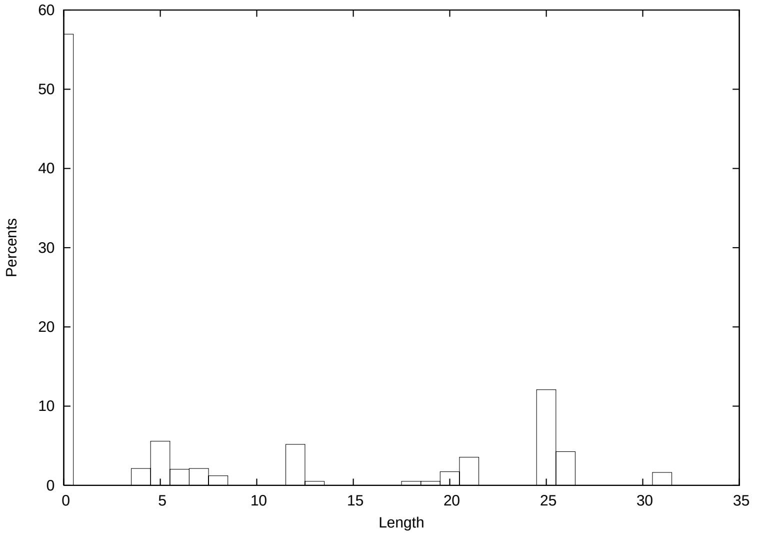
BFS Info

BFS height	92
BFS width	70 (2.4%)
Back level edges	985 (16.9%)

BFS level info:



Back level edges lengths:



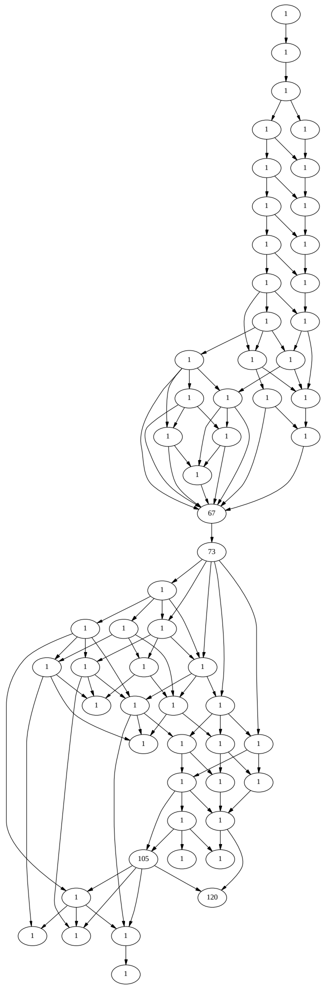
SCC Info

SCC components	129
SCC quetient height	43
SCC quetient nontrivial height	10
Number of terminal components	8
The largest component is	intermediate

Statistics according to **sizes**:

Size	Number of components	Number of states here
2,084	1	74.1%
130	1	4.6%
120	1	4.2%
110	1	3.9%
105	1	3.7%
73	1	2.5%
67	1	2.3%
1	122	4.3%

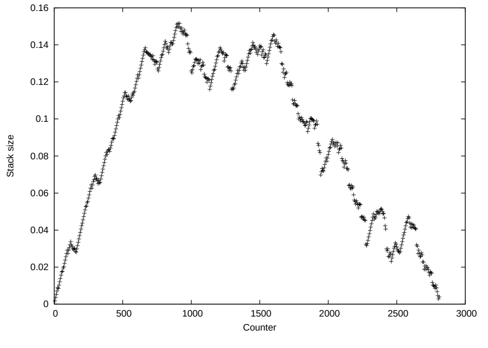
SCC component graph (part):



DFS Info

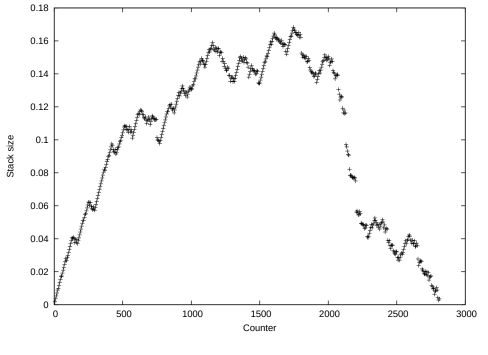
Run 0

front-edges : back-edges : cross-edges = 2,810 : 429 : 2,559 = 48.4%:7.3%:44.1%
Max. stack size: 428 (15.2%)
Shortest cycle detected: 13
Most often detected lengths of cycles: 27 (60), 14 (49), 28 (40), 15 (37), 20 (30)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 2,810 : 421 : 2,567 = 48.4%:7.2%:44.2%
Max. stack size: 476 (16.9%)
Shortest cycle detected: 13
Most often detected lengths of cycles: 21 (45), 27 (43), 15 (33), 14 (32), 22 (31)
Stack graph:



Local Structure

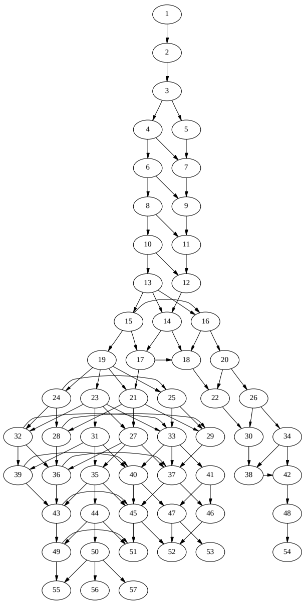
Short cycles(up to 6)
none
Diamonds

1,956 (69.5%)

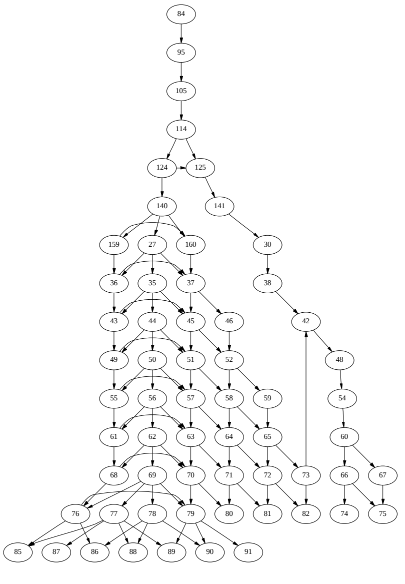
Neighborhoods

k	avg size	avg clustering
1	3	1
2	5.7	1.2
3	8.9	1.3
4	12.6	1.4

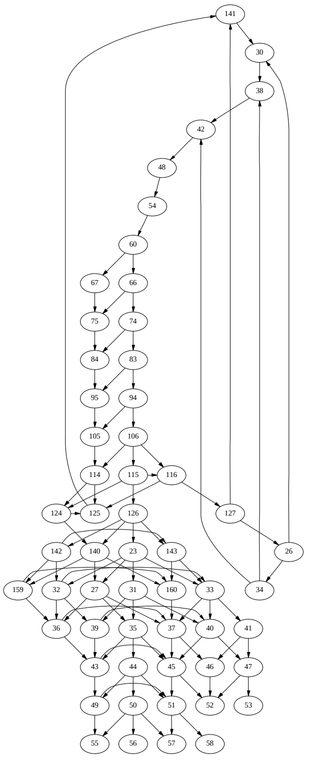
Visualization of some parts of the state state space:
Initial walk length: 0



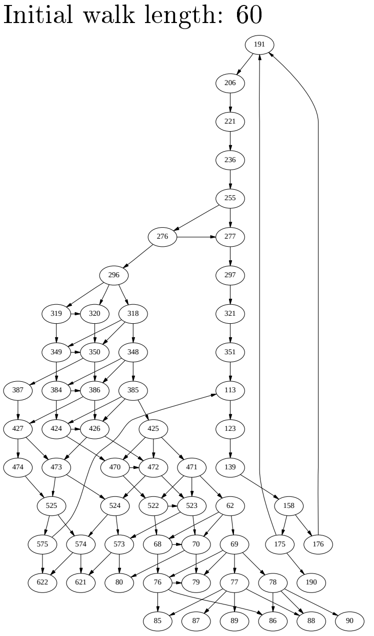
Initial walk length: 20



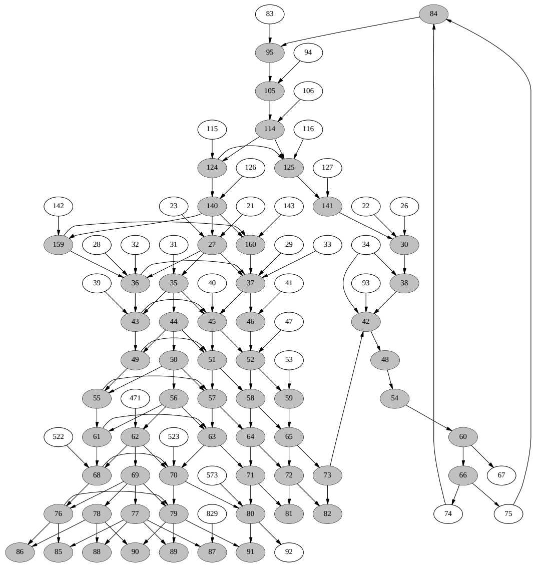
Initial walk length: 40



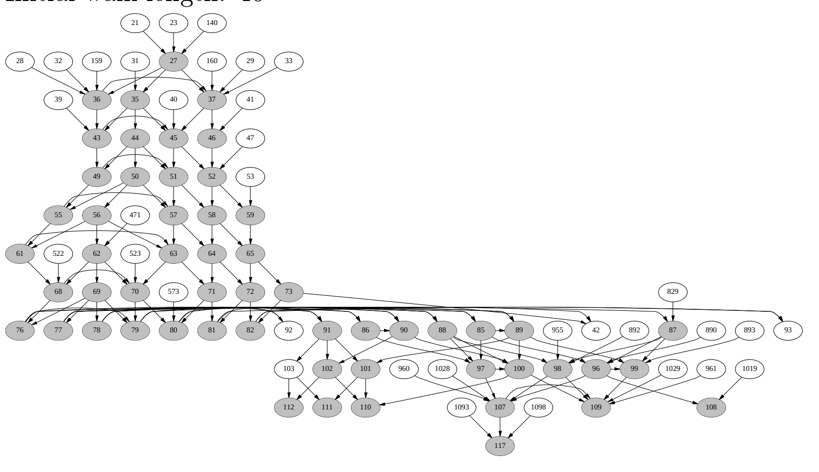
Initial walk length: 60



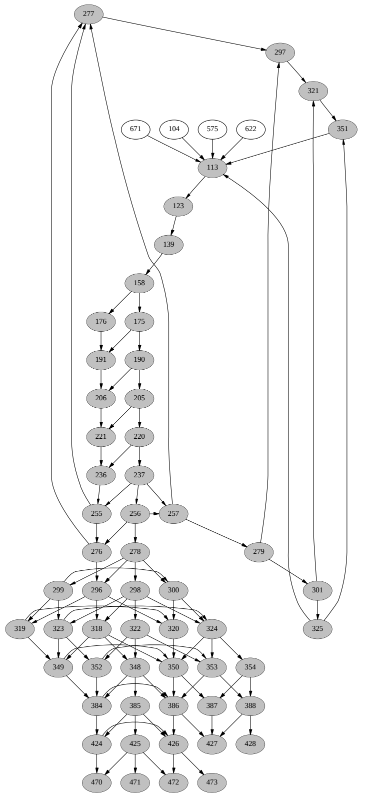
Initial walk length: 20



Initial walk length: 40



Initial walk length: 60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