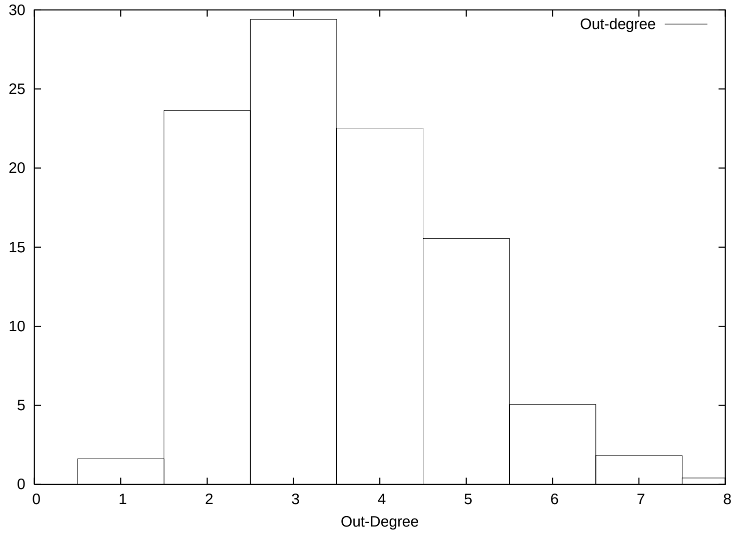
Graph: divine/simple2

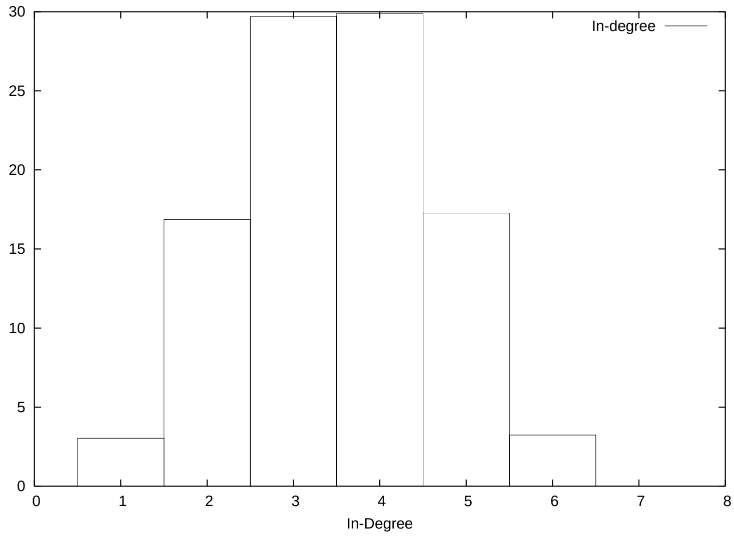
General Info

Example title	Communication protocols
Parameter	
Reduction	
Modification	sends ack once
States	1,980
Edges	6,954
Average degree	3.5

Out-Degrees distribution:



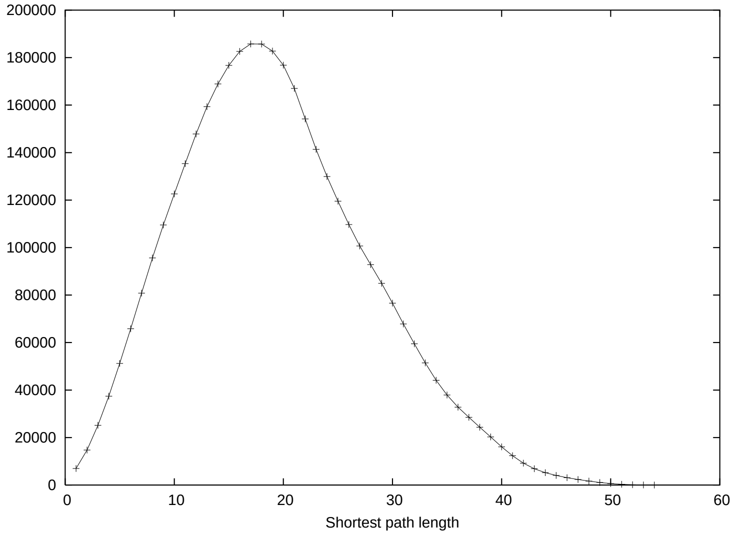
In-Degrees distribution:



Shortest Paths Info

Diameter: 54
Average shortest path length: 19.2923

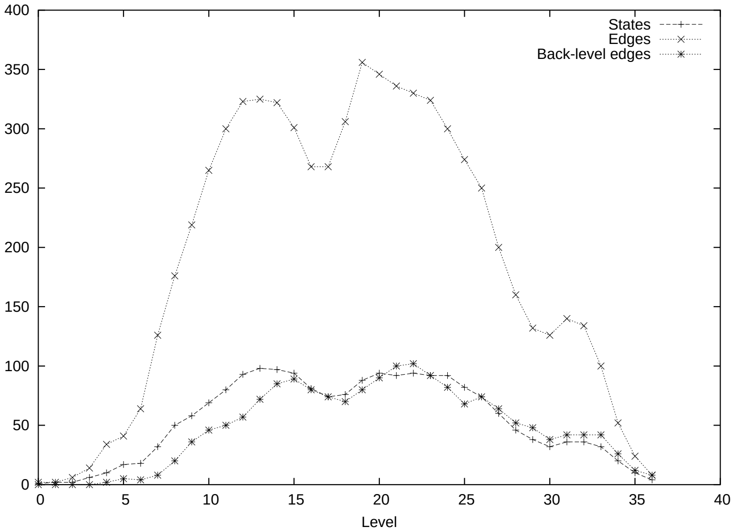
Shortest paths lengths frequencies:



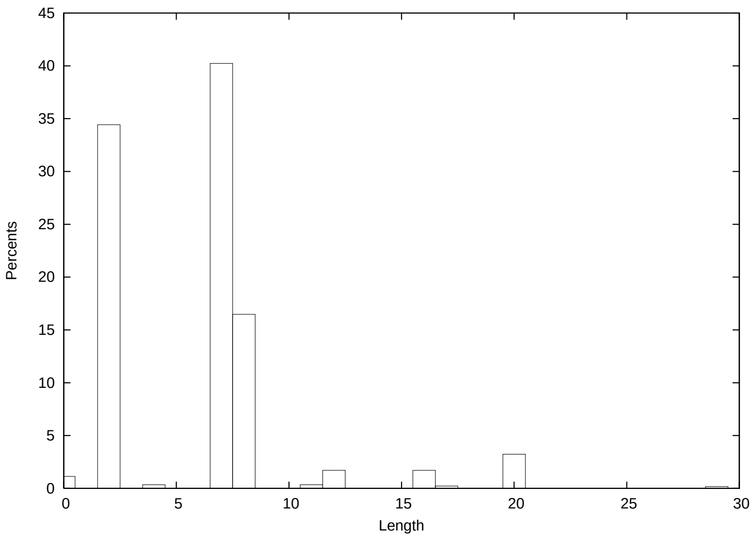
BFS Info

BFS height	36
BFS width	98 (4.9%)
Back level edges	1,760 (25.3%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	1
SCC quetient height	0
SCC quetient nontrivial height	0
Number of terminal components	1
The largest component is	initial the only terminal

Statistics according to **sizes**:

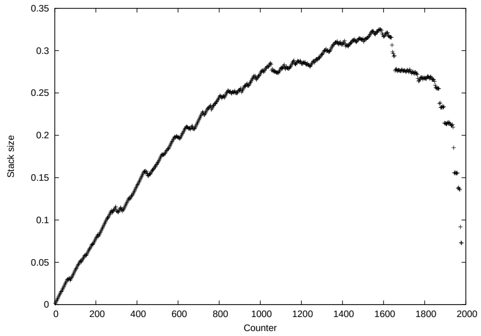
Size	Number of components	Number of states here
1,980	1	100%

SCC component graph (part):

DFS Info

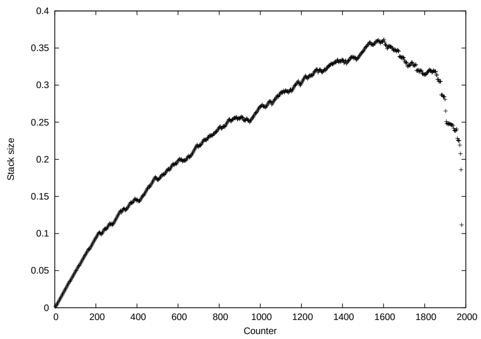
Run 0

front-edges : back-edges : cross-edges = 1,979 : 1,746 : 3,229 = 28.4%:25.1%:46.4%
Max. stack size: 645 (32.5%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 3 (257), 21 (26), 68 (26), 24 (23), 8 (23)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 1,979 : 1,777 : 3,198 = 28.4%:25.5%:45.9%
Max. stack size: 717 (36.2%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 3 (275), 39 (30), 69 (30), 8 (29), 194 (24)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	1,152	(58.1%)

Diamonds

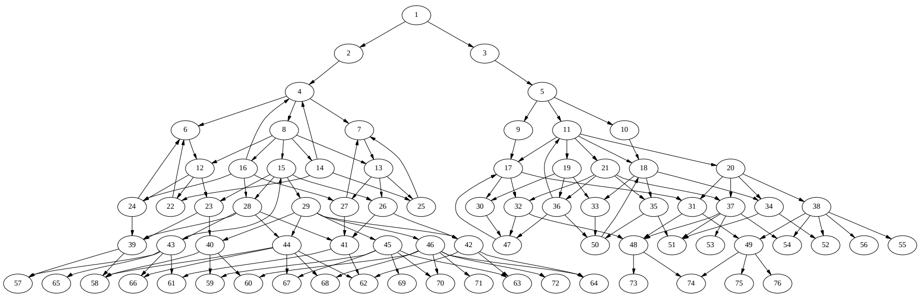
1,928 (97.3%)

Neighborhoods

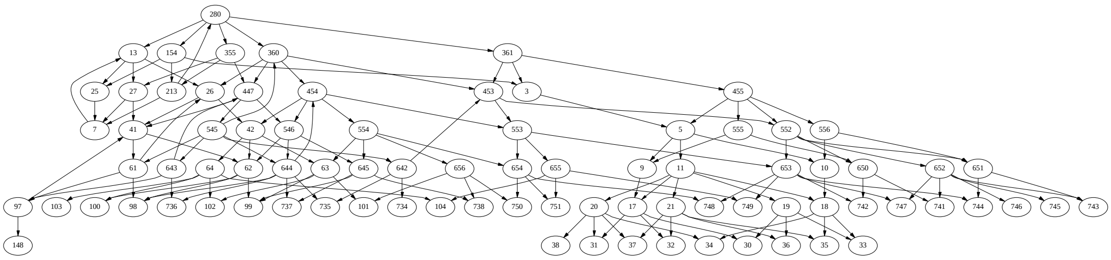
k	avg size	avg clustering
1	4.5	1
2	11.9	1.3
3	24.6	1.6
4	43.5	1.9

Visualization of some parts of the state state space:

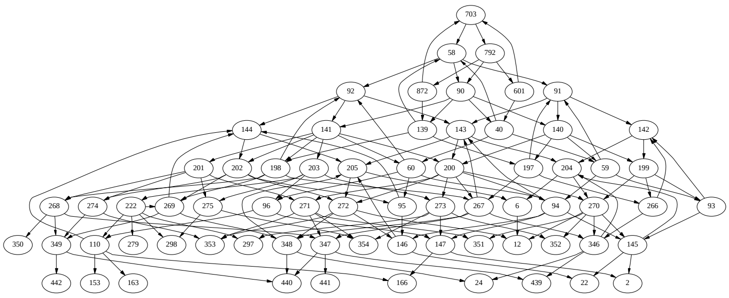
Initial walk length: 0



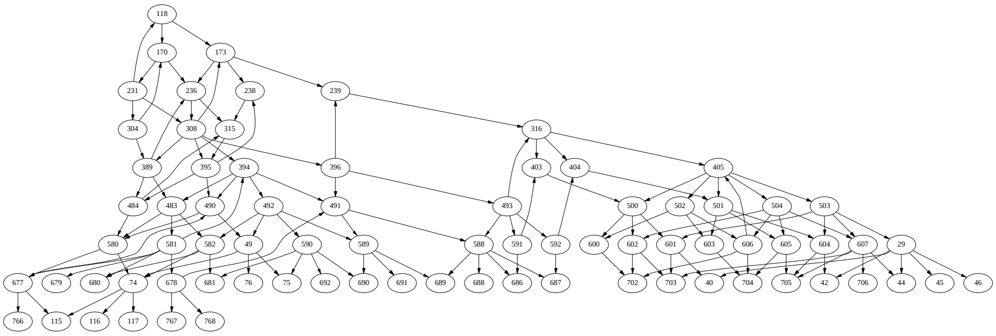
Initial walk length: 20



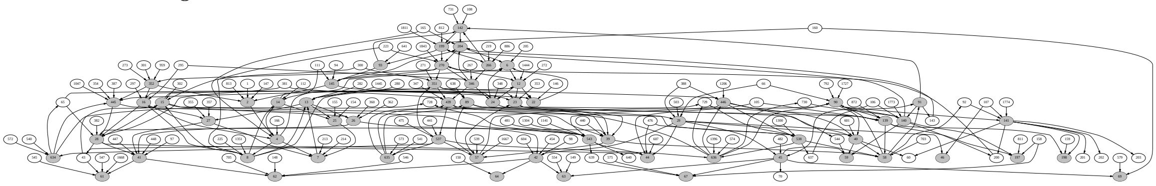
Initial walk length: 40



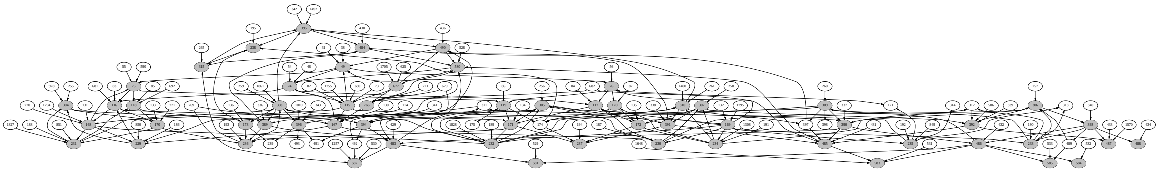
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60