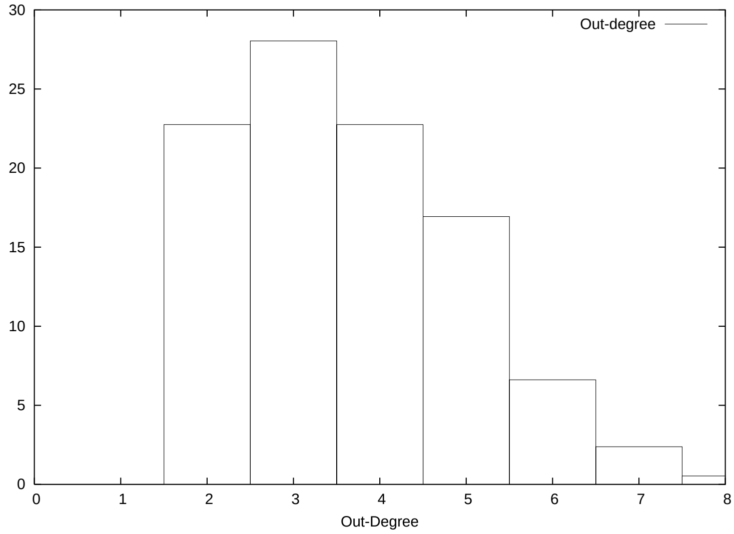
Graph: divine/simple1

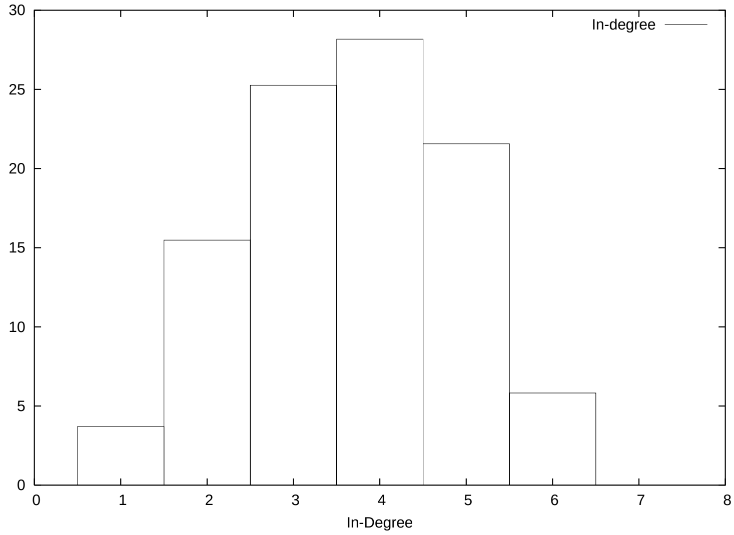
General Info

Example title	Communication protocols
Parameter	
Reduction	
Modification	sends ack repetedly
States	1,512
Edges	5,532
Average degree	3.6

Out-Degrees distribution:



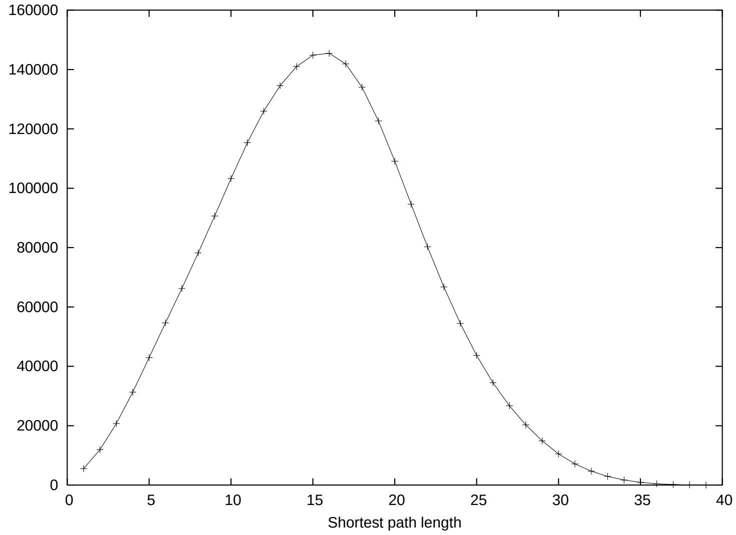
In-Degrees distribution:



Shortest Paths Info

Diameter: 39
Average shortest path length: 15.4212

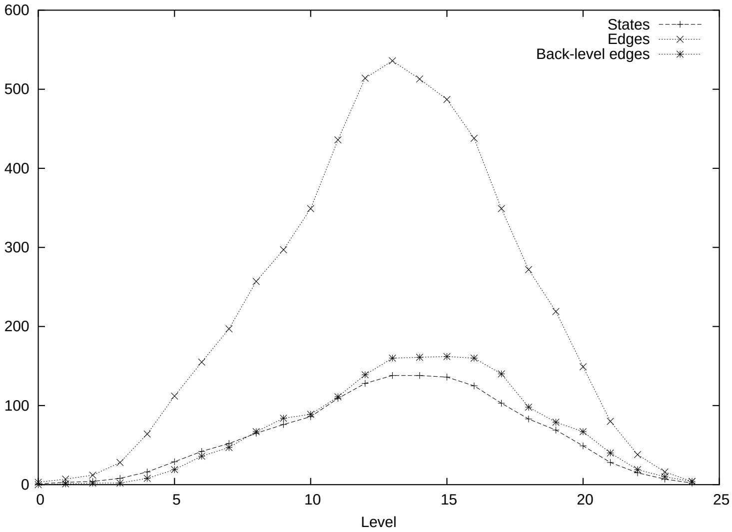
Shortest paths lengths frequencies:



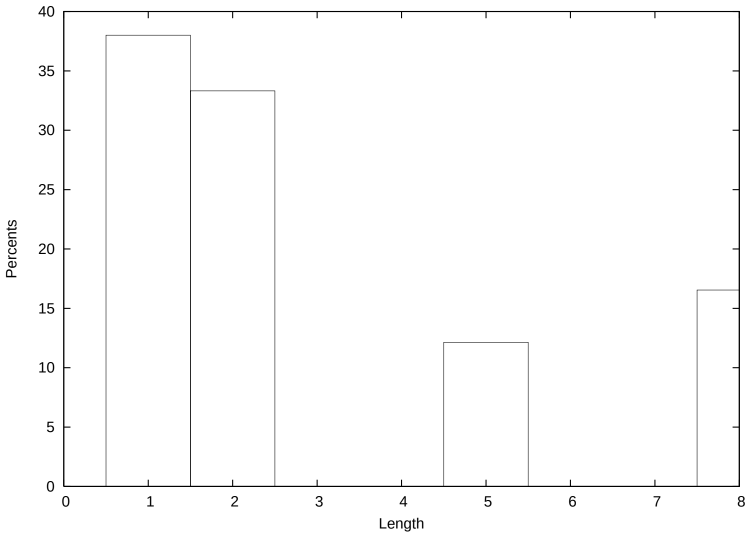
BFS Info

BFS height	24
BFS width	138 (9.1%)
Back level edges	1,705 (30.8%)

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**:

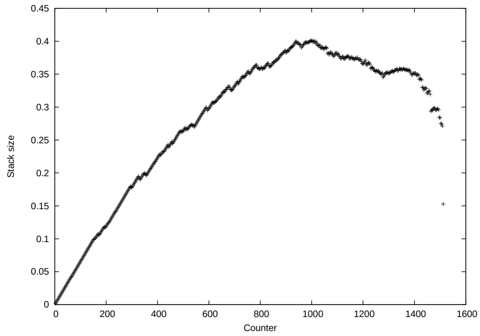
Size	Number of components	Number of states here
1,512	1	100%

SCC component graph (part):

DFS Info

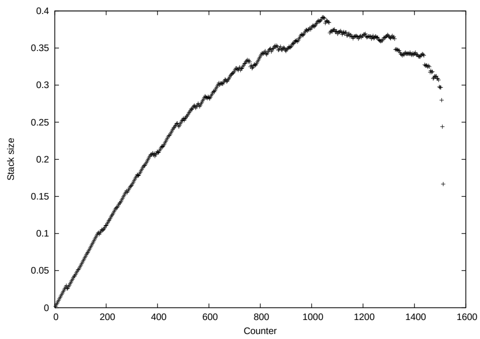
Run 0

front-edges : back-edges : cross-edges = 1,511 : 1,696 : 2,325 = 27.3%:30.6%:42%
Max. stack size: 607 (40.1%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 3 (190), 2 (169), 6 (24), 167 (17), 9 (17)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 1,511 : 1,752 : 2,269 = 27.3%:31.6%:41%
Max. stack size: 593 (39.2%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (190), 3 (185), 8 (21), 128 (20), 220 (19)
Stack graph:



Local Structure

Short cycles(up to 6)

2	576	(38%)
3	576	(38%)

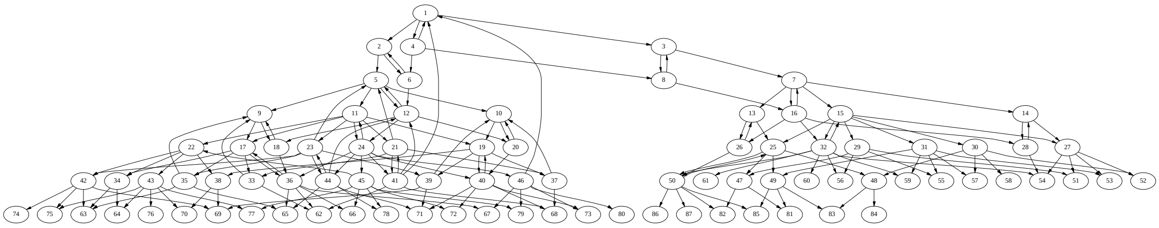
Diamonds

1,512 (100%)

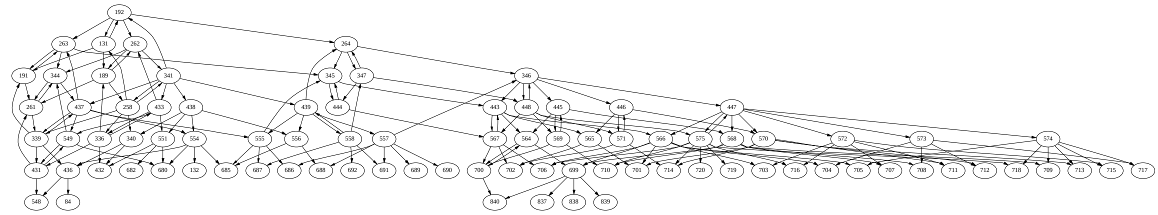
Neighborhoods

k	avg size	avg clustering
1	4.6	1
2	12.5	1.3
3	26.2	1.7
4	46.9	2

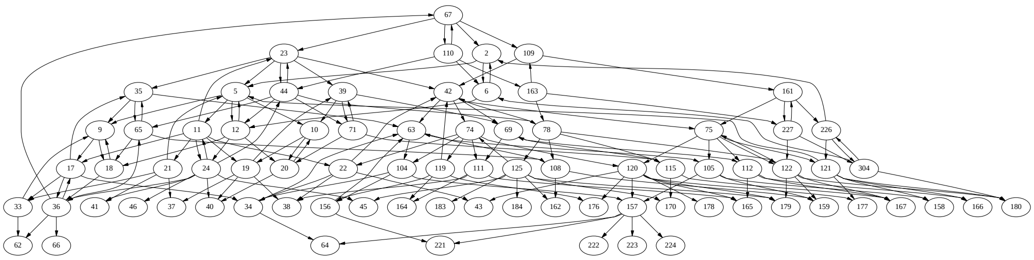
Visualization of some parts of the state state space:
Initial walk length: 0



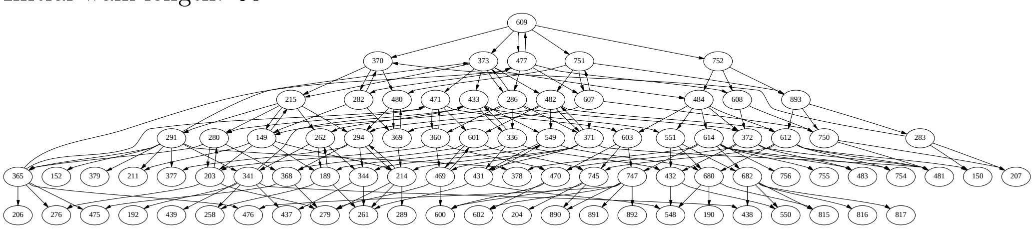
Initial walk length: 20



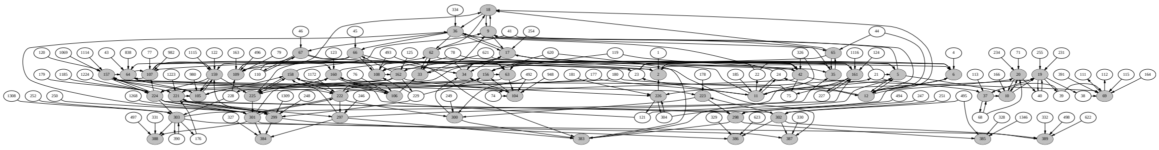
Initial walk length: 40



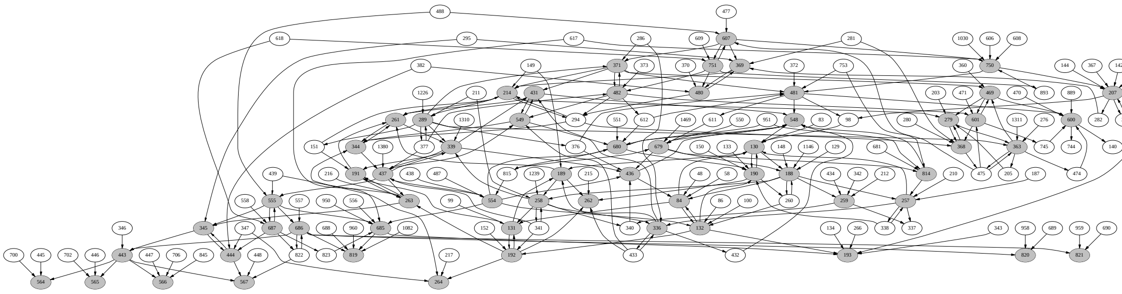
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60