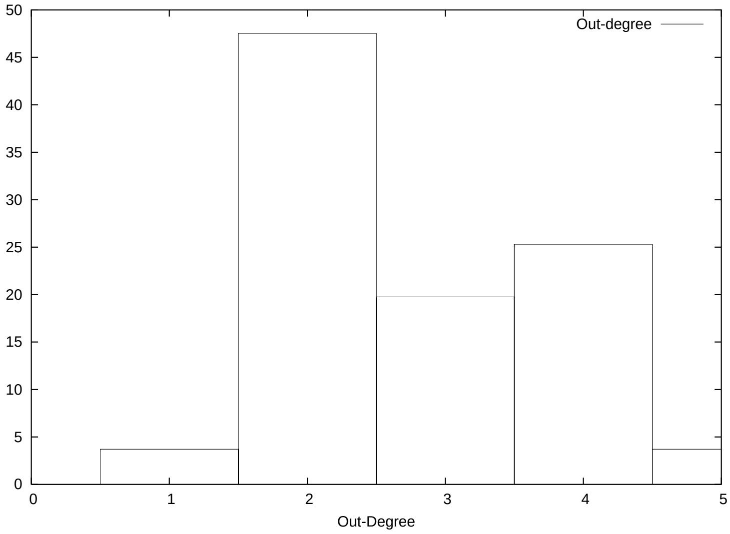
Graph: divine/naive

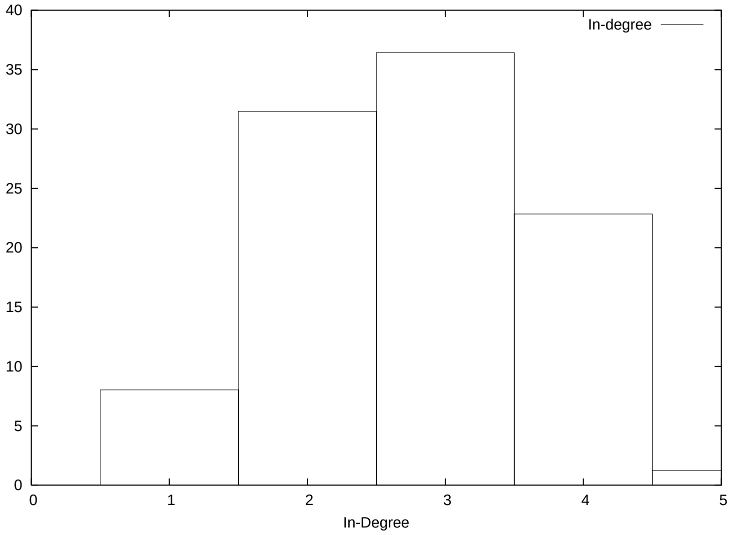
General Info

Example title	Communication protocols
Parameter	
Reduction	
Modification	naive
States	648
Edges	1,800
Average degree	2.7

Out-Degrees distribution:



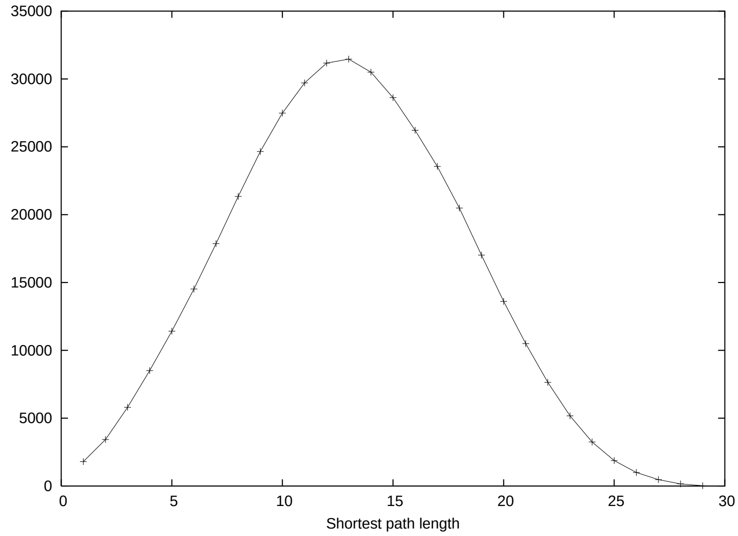
In-Degrees distribution:



Shortest Paths Info

Diameter: 29
Average shortest path length: 12.9356

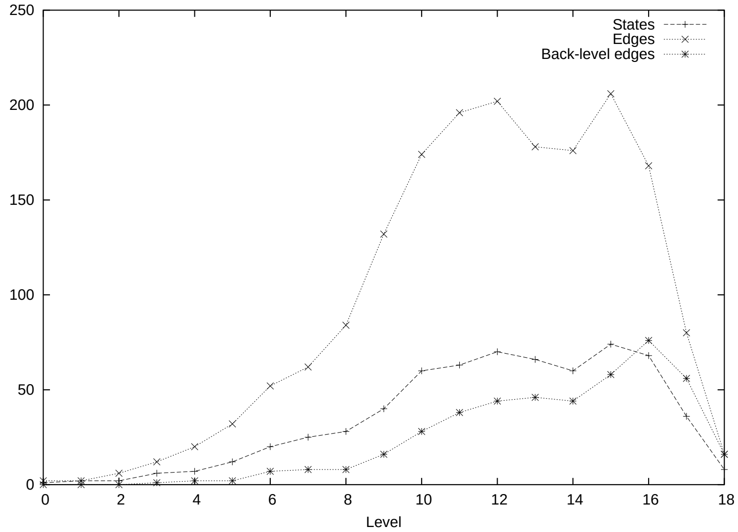
Shortest paths lengths frequencies:



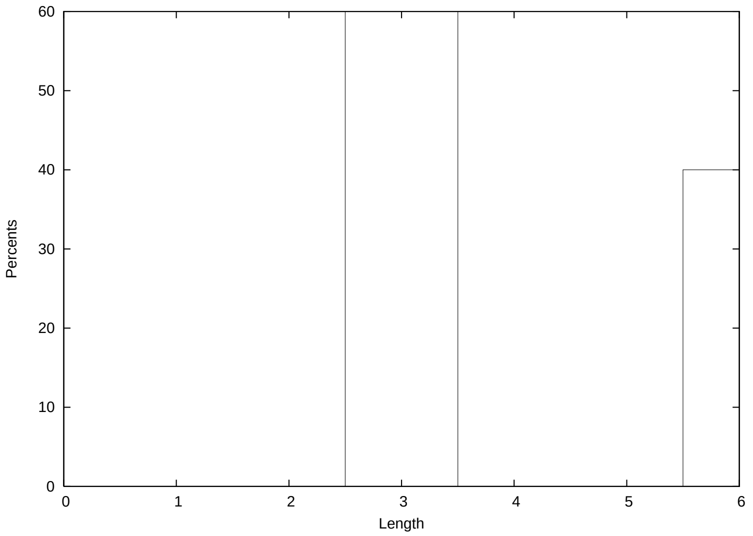
BFS Info

BFS height	18
BFS width	74 (11.4%)
Back level edges	450 (25%)

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**:

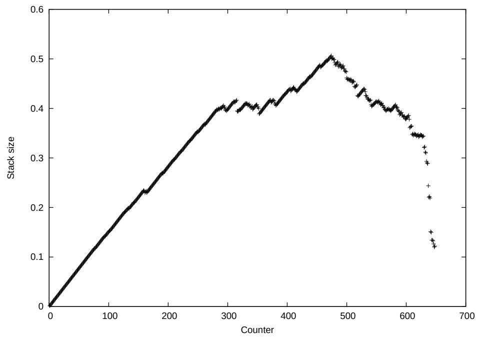
Size	Number of components	Number of states here
648	1	100%

SCC component graph (part):

DFS Info

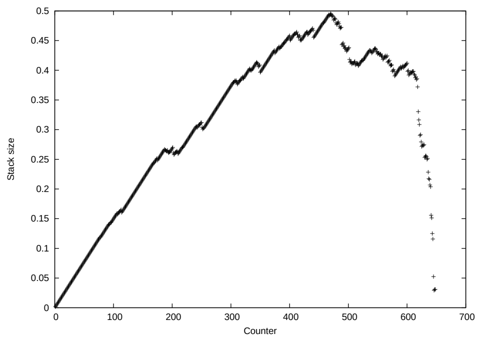
Run 0

front-edges : back-edges : cross-edges = 647 : 541 : 612 = 35.9%:30%:34%
Max. stack size: 328 (50.6%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (50), 15 (21), 19 (16), 30 (16), 51 (12)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 647 : 530 : 623 = 35.9%:29.4%:34.6%
Max. stack size: 321 (49.5%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (34), 63 (26), 67 (20), 104 (16), 101 (15)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	0	(0%)
4	288	(44.4%)

Diamonds

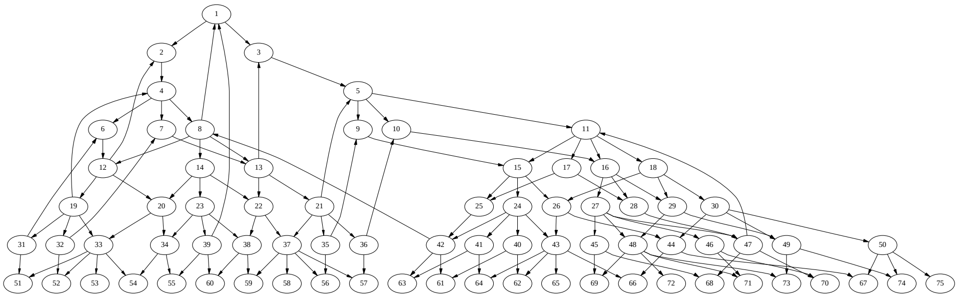
604 (93.2%)

Neighborhoods

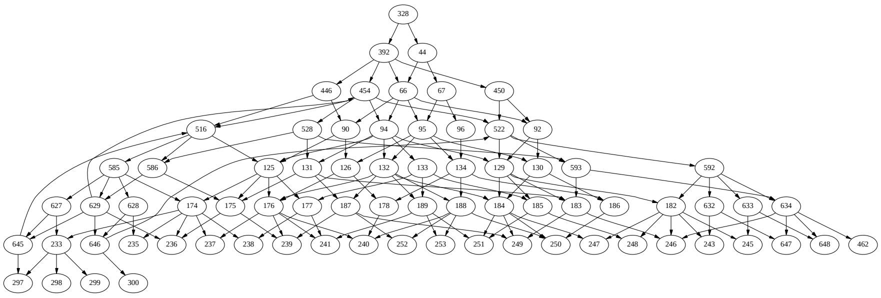
k	avg size	avg clustering
1	3.7	1
2	9	1.2
3	18	1.4
4	31.1	1.6

Visualization of some parts of the state state space:

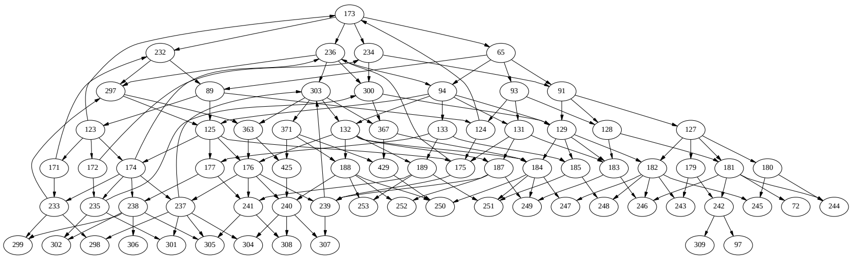
Initial walk length: 0



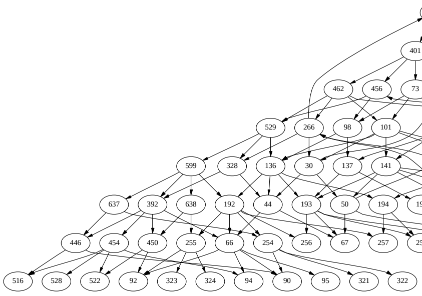
Initial walk length: 20



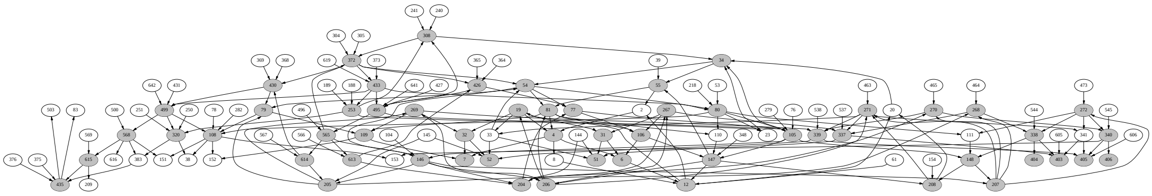
Initial walk length: 40



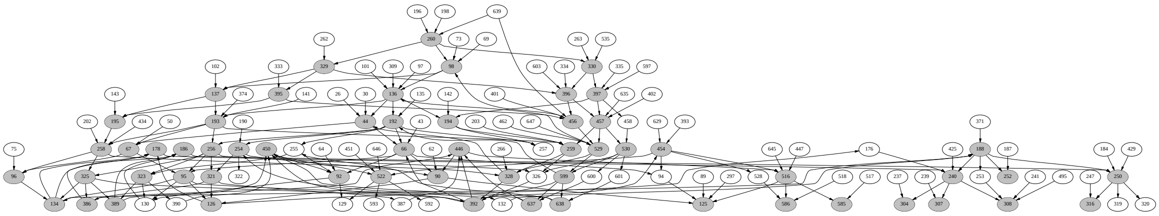
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60