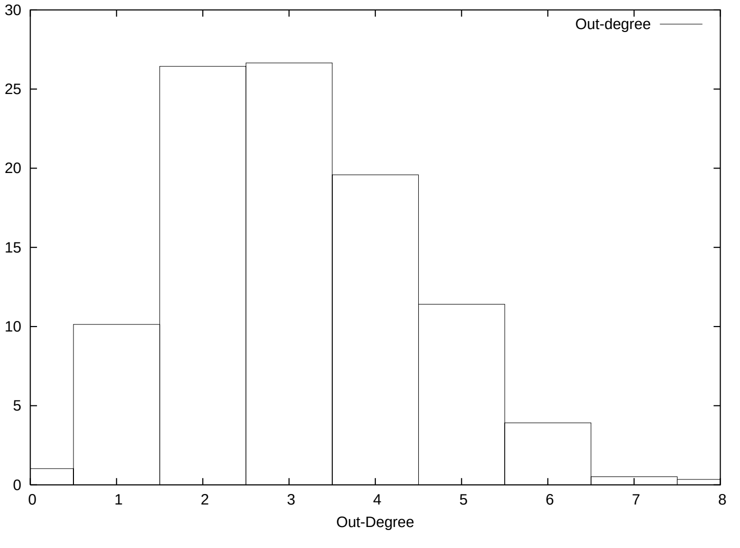
Graph: divine/brp

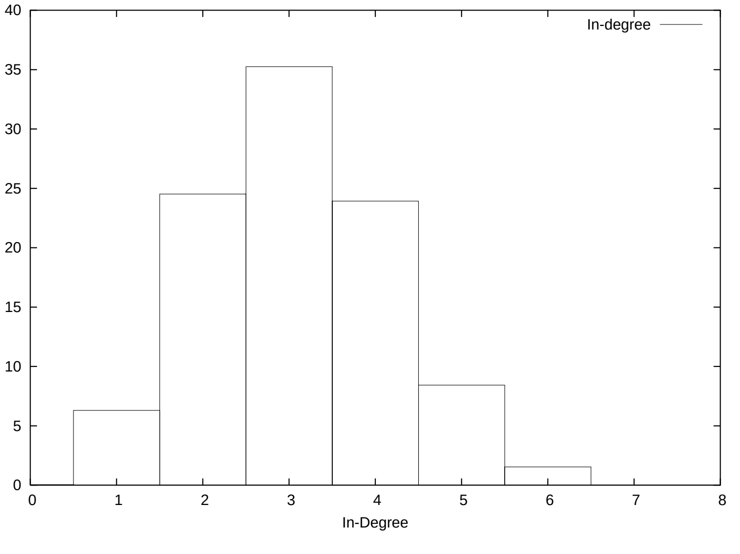
General Info

Example title	Communication protocols
Parameter	2
Reduction	
Modification	brp
States	2,349
Edges	7,238
Average degree	3

Out-Degrees distribution:



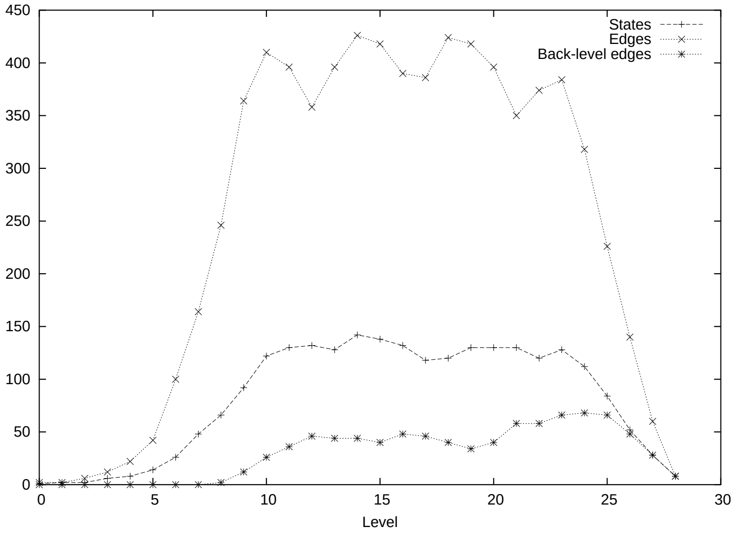
In-Degrees distribution:



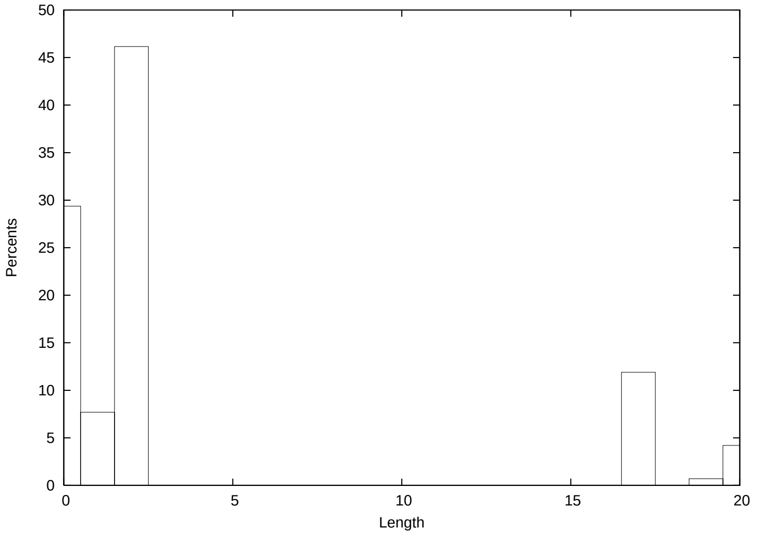
BFS Info

BFS height	28
BFS width	142 (6%)
Back level edges	858 (11.8%)

BFS level info:



Back level edges lengths:



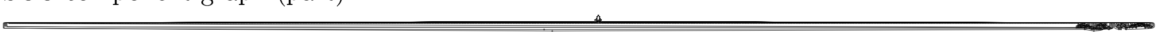
SCC Info

SCC components	1,018
SCC quetient height	15
SCC quetient nontrivial height	2
Number of terminal components	24
The largest component is	intermediate

Statistics according to **sizes**:

Size	Number of components	Number of states here
1,332	1	56.7%
1	1,017	43.2%

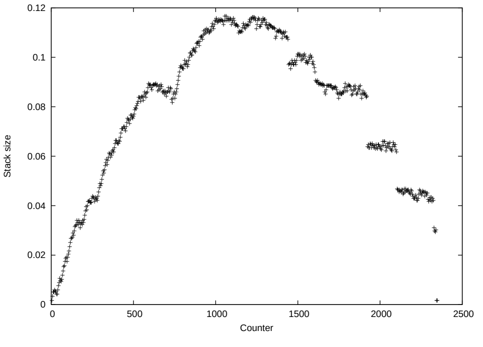
SCC component graph (part):



DFS Info

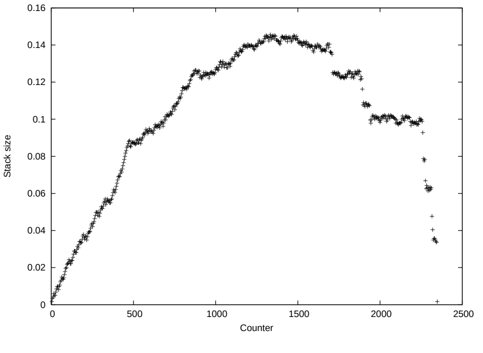
Run 0

front-edges : back-edges : cross-edges = 2,348 : 507 : 4,383 = 32.4%:7%:60.5%
Max. stack size: 274 (11.6%)
Shortest cycle detected: 18
Most often detected lengths of cycles: 23 (53), 24 (42), 129 (34), 134 (27), 88 (23)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 2,348 : 632 : 4,258 = 32.4%:8.7%:58.8%
Max. stack size: 342 (14.5%)
Shortest cycle detected: 20
Most often detected lengths of cycles: 23 (49), 221 (29), 176 (28), 153 (27), 44 (26)
Stack graph:



Local Structure

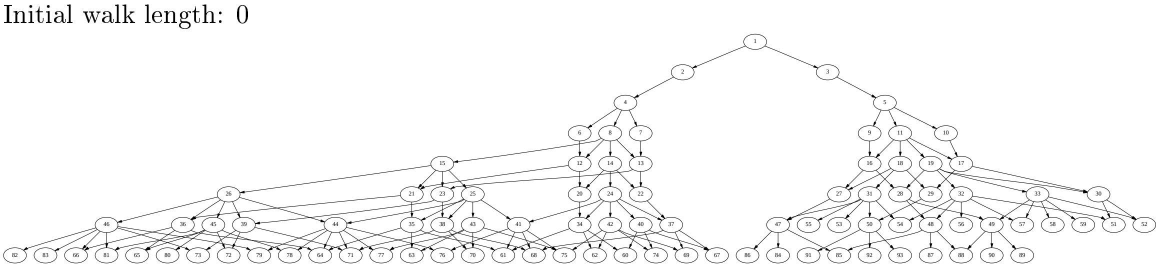
Short cycles(up to 6)
none
Diamonds

2,010 (85.5%)

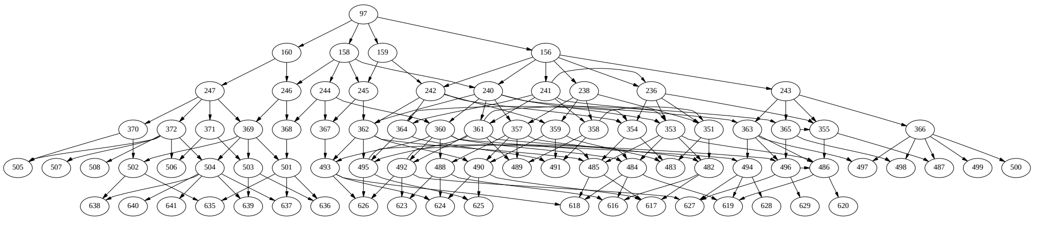
Neighborhoods

k	avg size	avg clustering
1	4	1
2	9.2	1.3
3	15.7	1.5
4	23.4	1.6

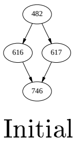
Visualization of some parts of the state state space:
Initial walk length: 0



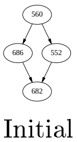
Initial walk length: 20



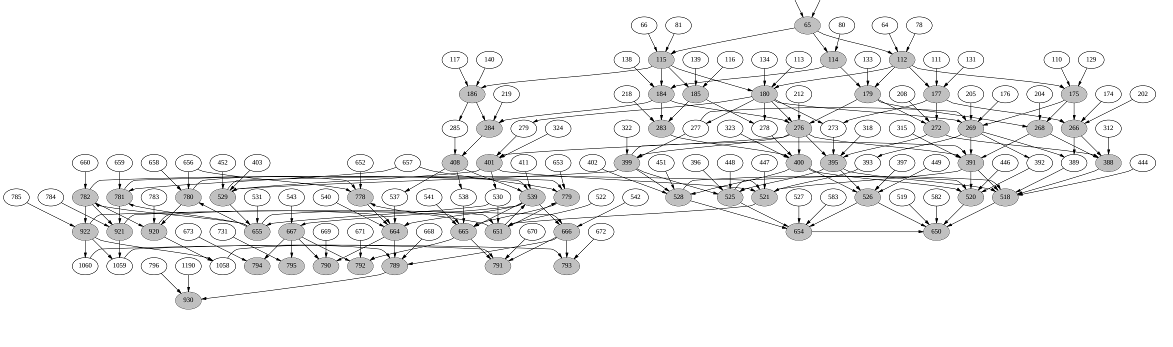
Initial walk length: 40



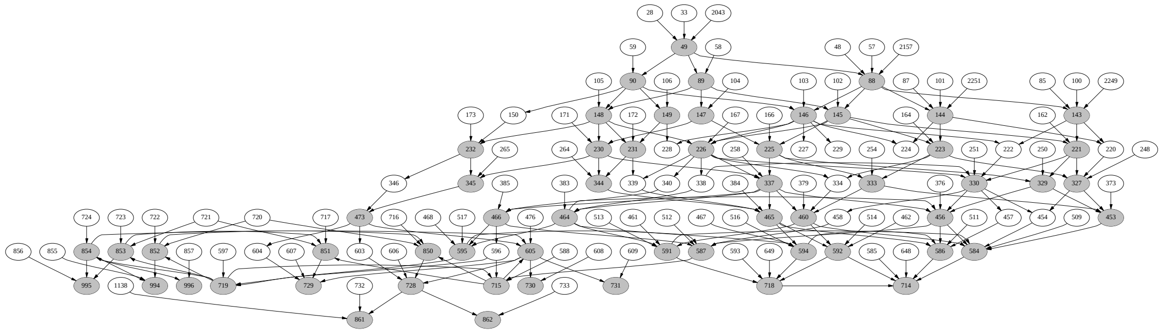
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60