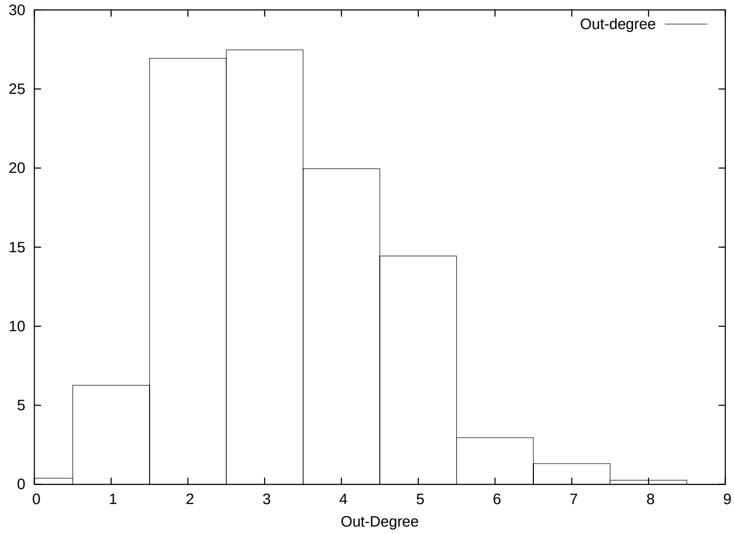
Graph: divine/brp5

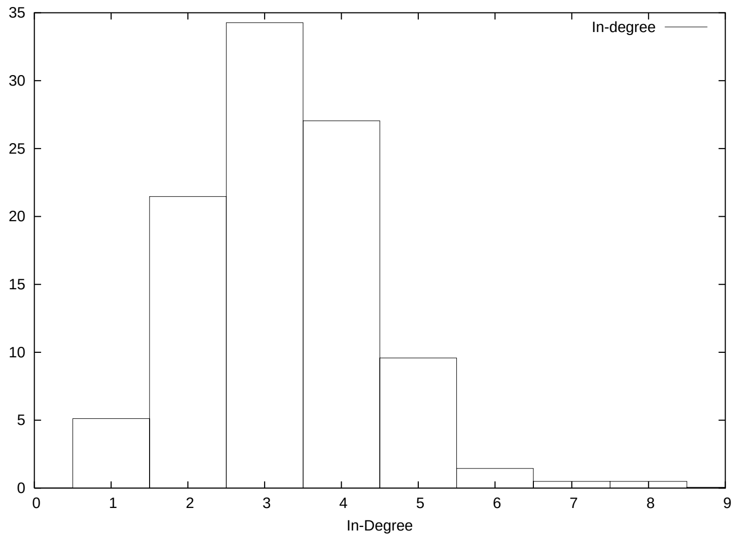
General Info

Example title	Communication protocols
Parameter	5
Reduction	
Modification	brp
States	6,093
Edges	19,718
Average degree	3.2

Out-Degrees distribution:



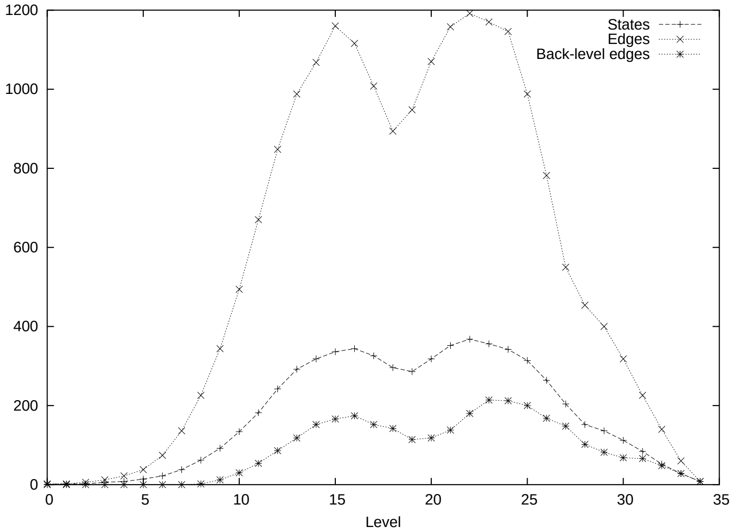
In-Degrees distribution:



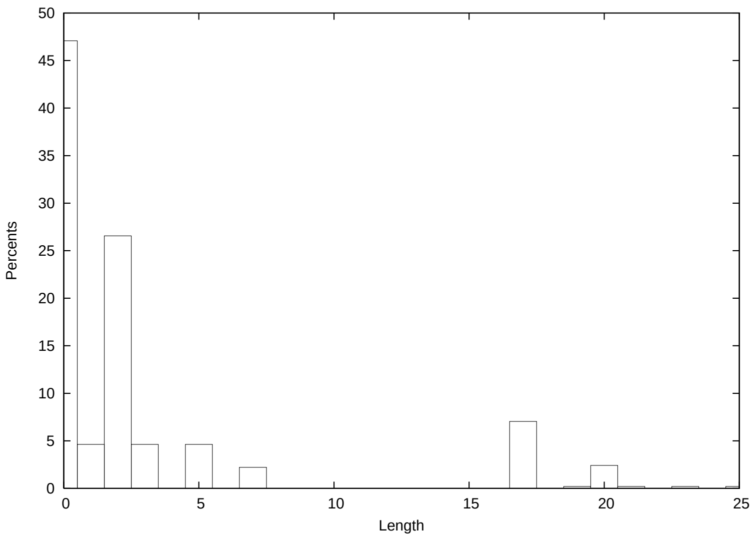
BFS Info

BFS height	34
BFS width	368 (6%)
Back level edges	2,982 (15.1%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	1,522
SCC quetient height	21
SCC quetient nontrivial height	2
Number of terminal components	24
The largest component is	intermediate

Statistics according to **sizes**:

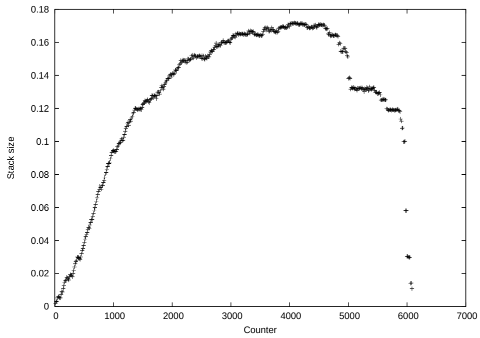
Size	Number of components	Number of states here
4,572	1	75%
1	1,521	24.9%

SCC component graph (part):

DFS Info

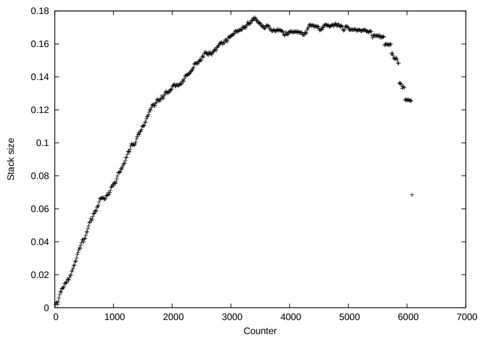
Run 0

front-edges : back-edges : cross-edges = 6,092 : 2,379 : 11,247 = 30.8%:12%:57%
Max. stack size: 1,048 (17.2%)
Shortest cycle detected: 18
Most often detected lengths of cycles: 352 (41), 67 (40), 188 (31), 57 (27), 540 (27)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 6,092 : 2,539 : 11,087 = 30.8%:12.8%:56.2%
Max. stack size: 1,074 (17.6%)
Shortest cycle detected: 28
Most often detected lengths of cycles: 579 (49), 890 (45), 732 (37), 321 (34), 791 (33)
Stack graph:



Local Structure

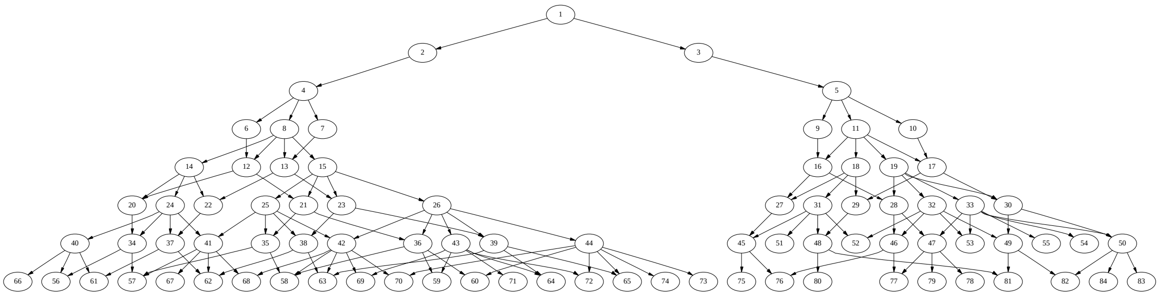
Short cycles(up to 6)
none
Diamonds

5,478 (89.9%)

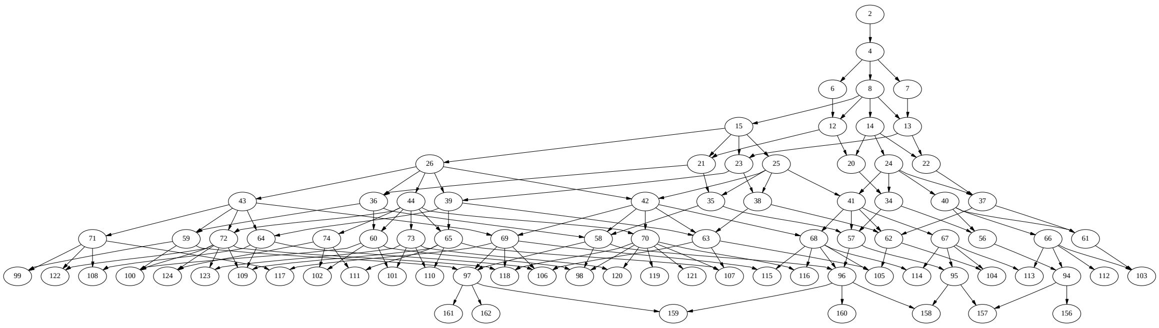
Neighborhoods

k	avg size	avg clustering
1	4.2	1
2	10.1	1.3
3	18.5	1.5
4	29.6	1.7

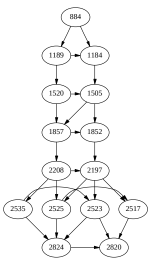
Visualization of some parts of the state state space:
Initial walk length: 0



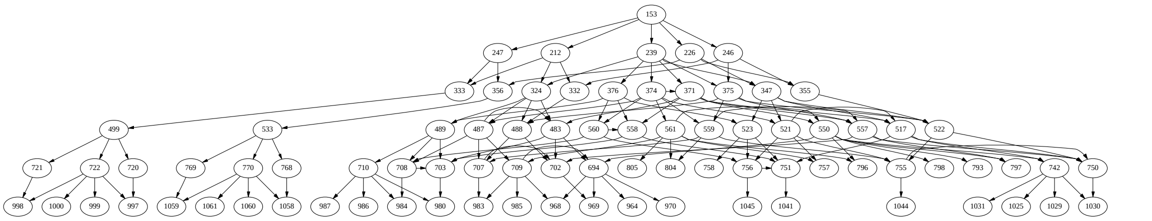
Initial walk length: 20



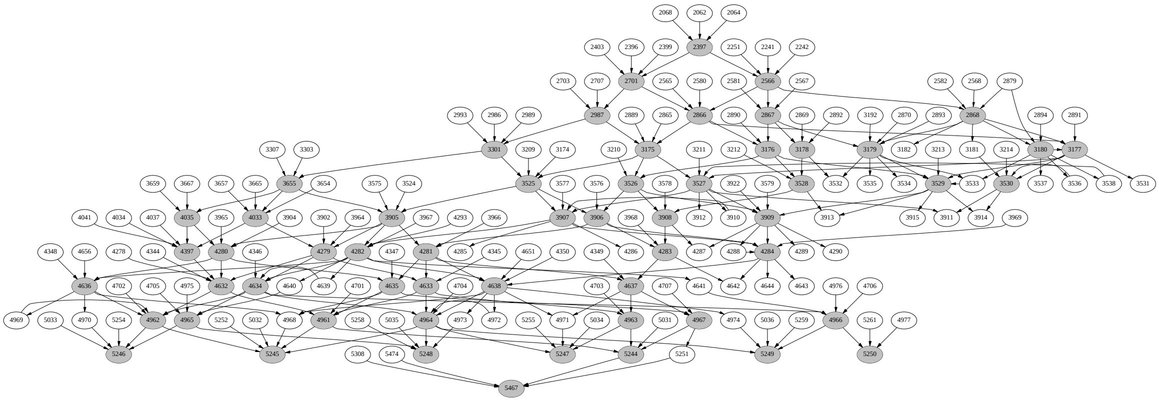
Initial walk length: 40



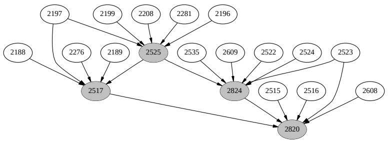
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60