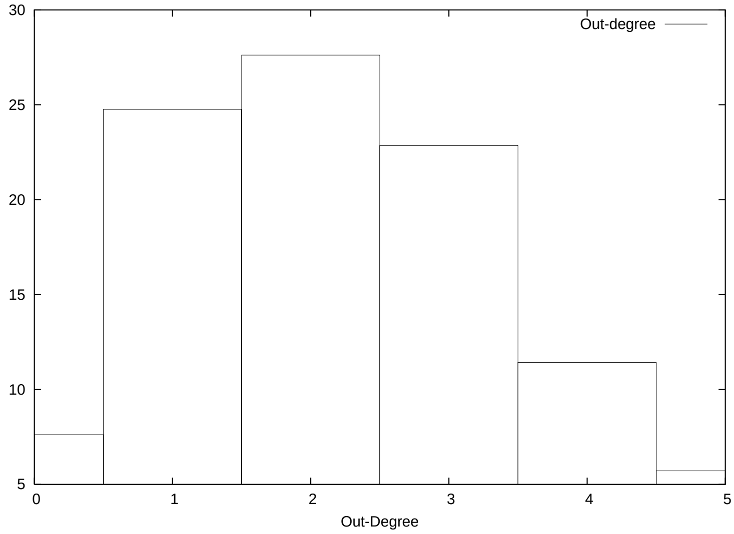
Graph: divine/brp-err

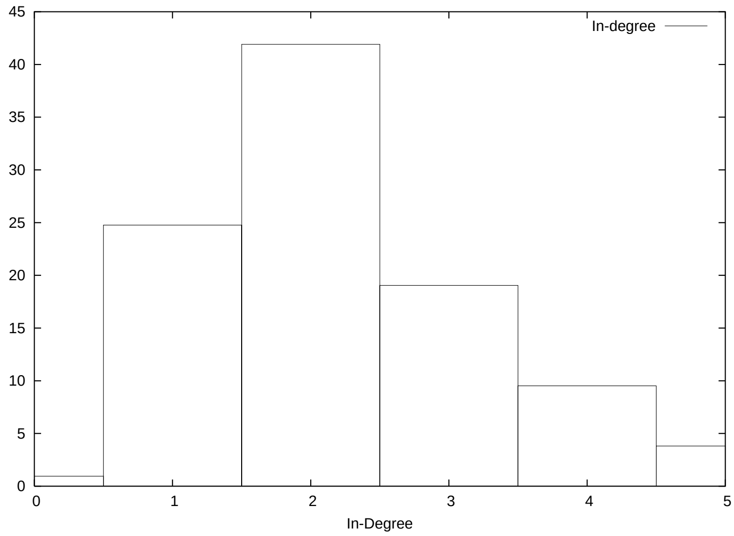
General Info

Example title	Communication protocols
Parameter	2
Reduction	
Modification	brp with error
States	105
Edges	234
Average degree	2.2

Out-Degrees distribution:



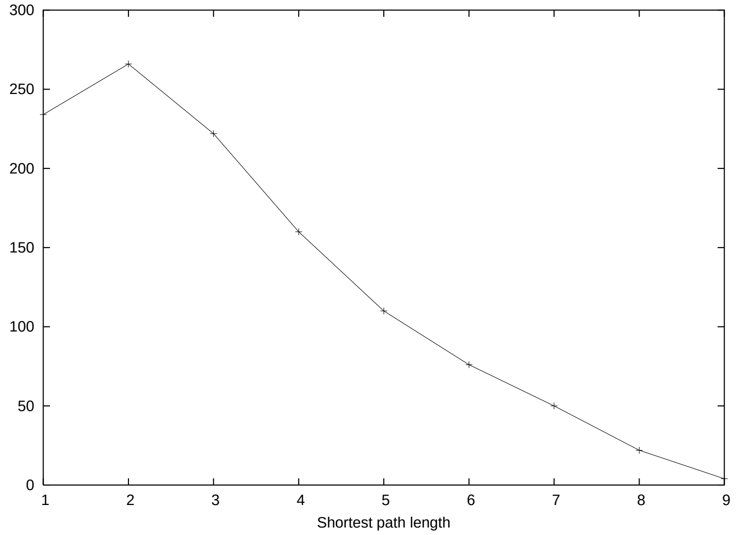
In-Degrees distribution:



Shortest Paths Info

Diameter: 9
Average shortest path length: 3.18182

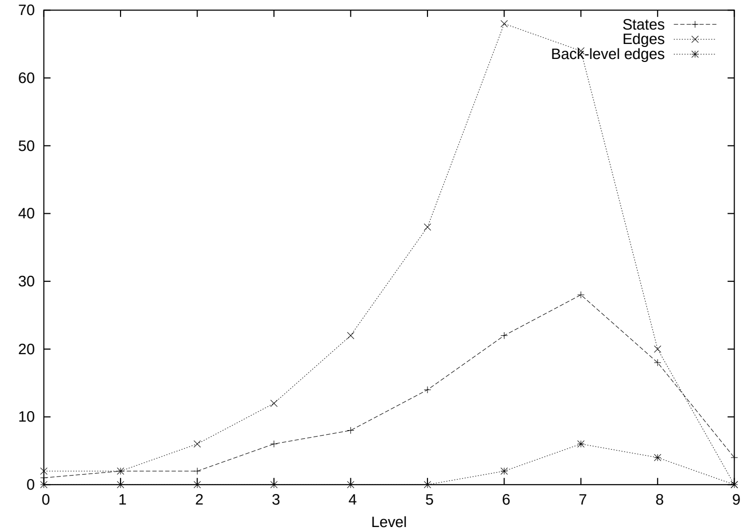
Shortest paths lengths frequencies:



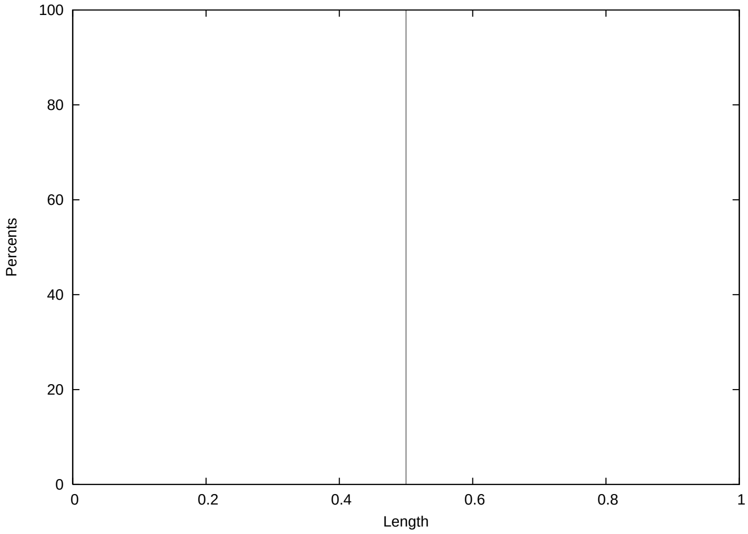
BFS Info

BFS height	9
BFS width	28 (26.6%)
Back level edges	12 (5.1%)

BFS level info:



Back level edges lengths:



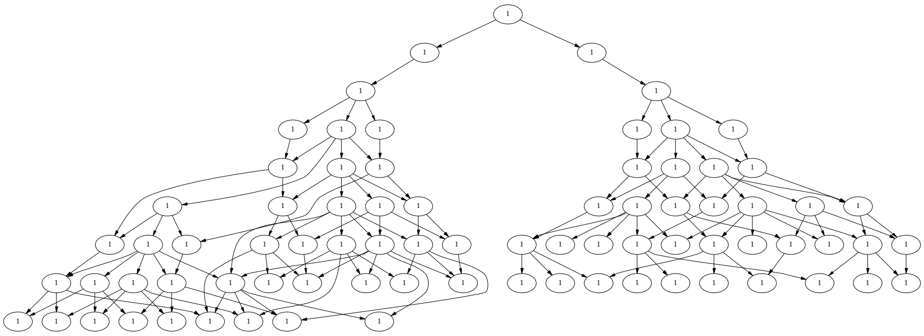
SCC Info

SCC components	105
SCC quetient height	10
SCC quetient nontrivial height	0
Number of terminal components	8
The largest component is	terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
1	105	100%

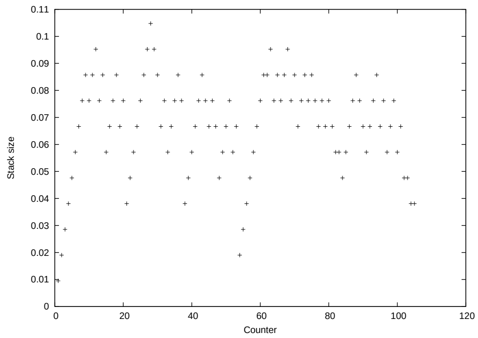
SCC component graph (part):



DFS Info

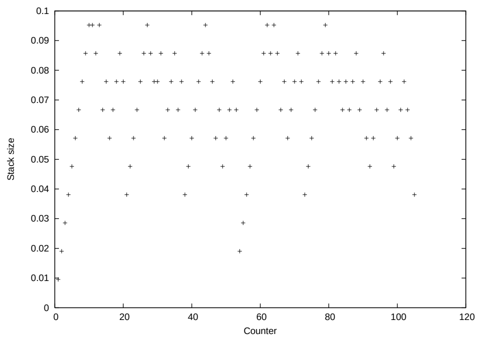
Run 0

front-edges : back-edges : cross-edges = 104 : 0 : 130 = 44.4%:0%:55.5%
Max. stack size: 11 (10.4%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 104 : 0 : 130 = 44.4%:0%:55.5%
Max. stack size: 10 (9.5%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Local Structure

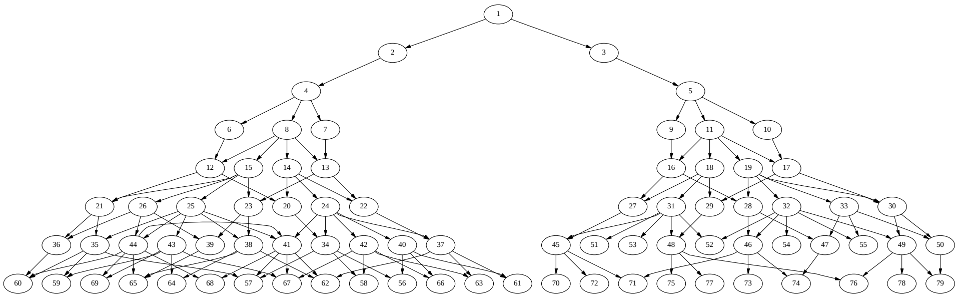
Short cycles(up to 6)
none
Diamonds

54 (51.4%)

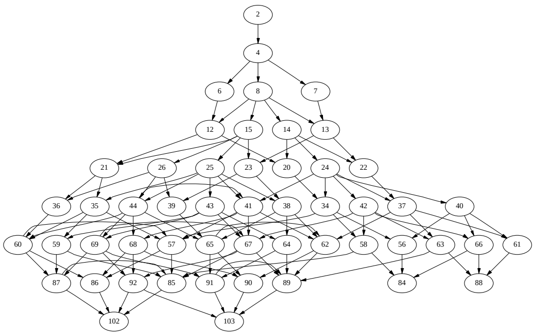
Neighborhoods

k	avg size	avg clustering
1	3.2	1
2	5.7	1.2
3	7.8	1.3
4	9.4	1.4

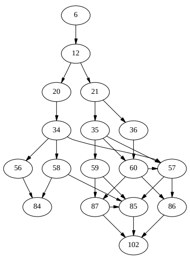
Visualization of some parts of the state state space:
Initial walk length: 0



Initial walk length: 20

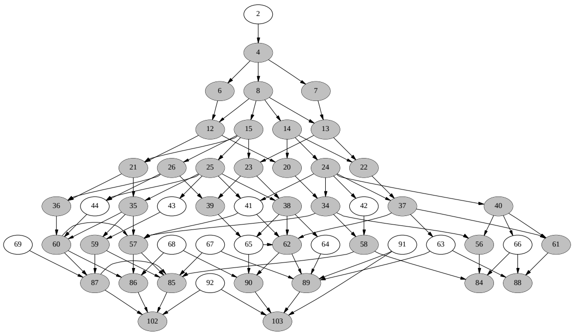


Initial walk length: 40

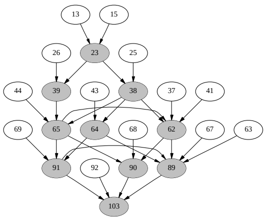


Initial walk length: 60

Initial walk length: 20



Initial walk length: 40



Initial walk length: 60