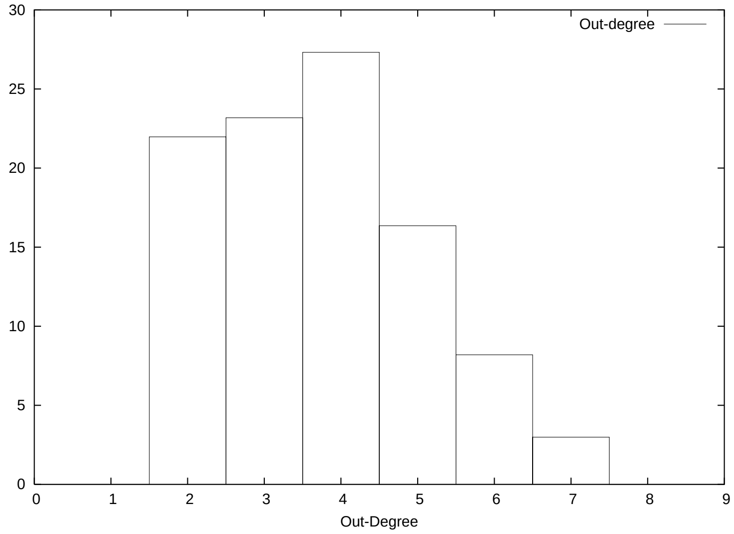
Graph: divine/abp

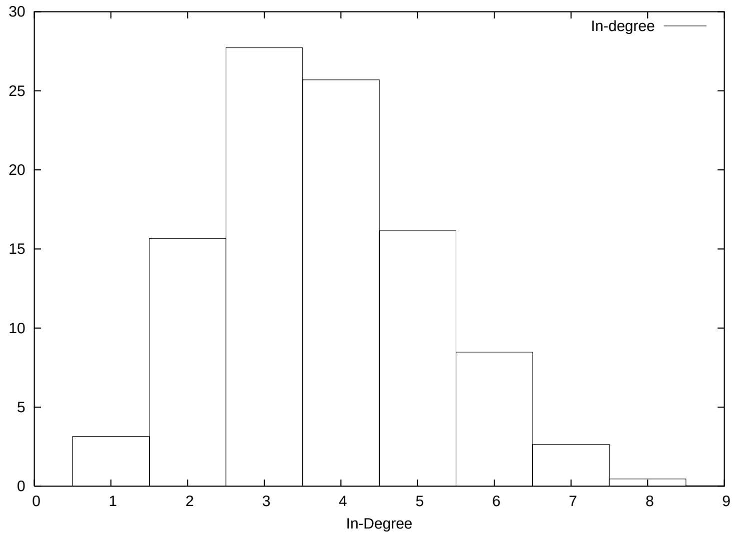
General Info

Example title	Communication protocols
Parameter	
Reduction	
Modification	abp
States	11,268
Edges	42,205
Average degree	3.7

Out-Degrees distribution:



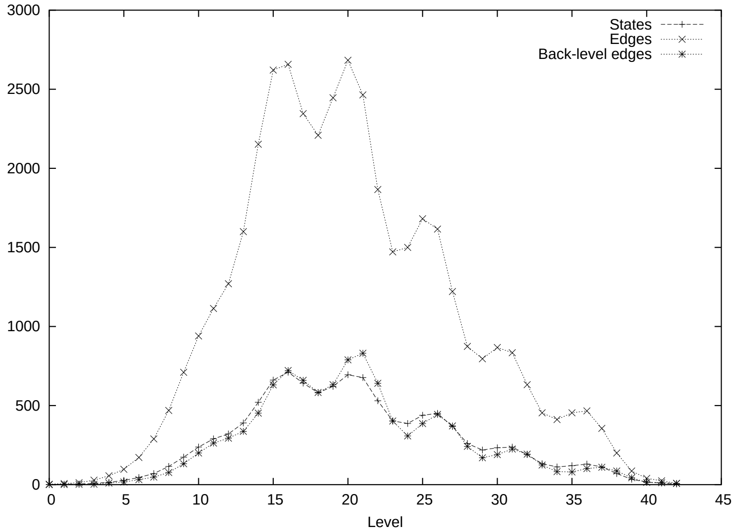
In-Degrees distribution:



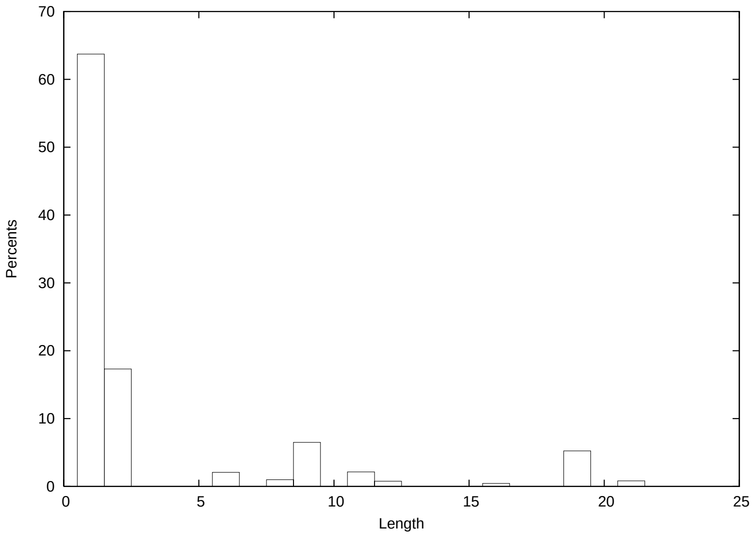
BFS Info

BFS height	42
BFS width	711 (6.3%)
Back level edges	10,950 (25.9%)

BFS level info:



Back level edges lengths:



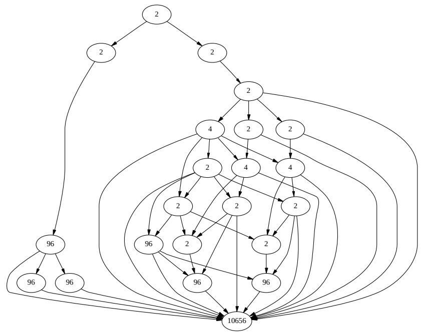
SCC Info

SCC components	22
SCC quetient height	8
SCC quetient nontrivial height	8
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
10,656	1	94.5%
96	6	5.1%
4	3	0.1%
2	12	0.2%

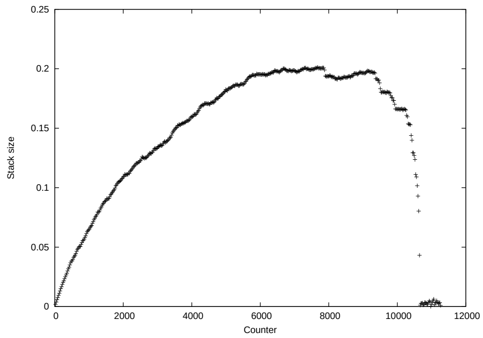
SCC component graph (part):



DFS Info

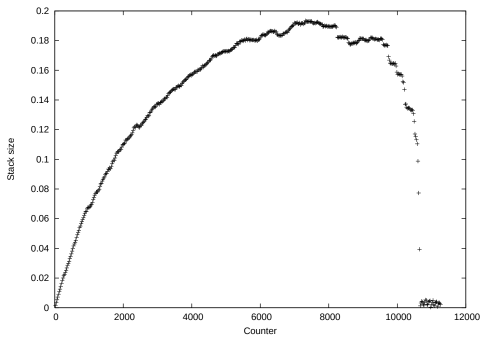
Run 0

front-edges : back-edges : cross-edges = 11,267 : 9,924 : 21,014 = 26.6%:23.5%:49.7%
Max. stack size: 2,270 (20.1%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (3051), 3 (322), 14 (68), 4 (61), 16 (51)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 11,267 : 9,769 : 21,169 = 26.6%:23.1%:50.1%
Max. stack size: 2,184 (19.3%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (3092), 3 (315), 14 (69), 12 (58), 4 (58)
Stack graph:



Local Structure

Short cycles(up to 6)

2	7,020	(62.3%)

Diamonds

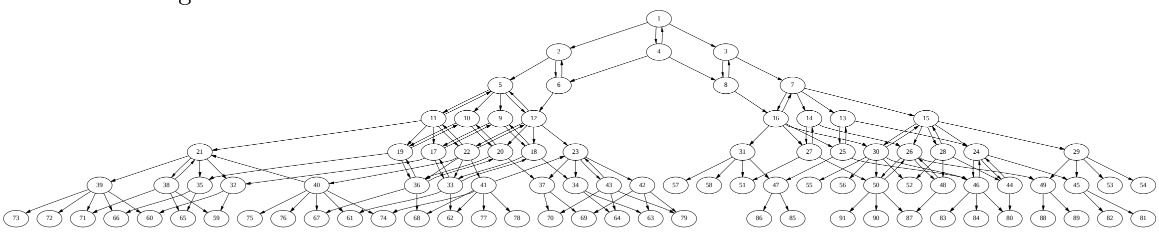
11,268 (100%)

Neighborhoods

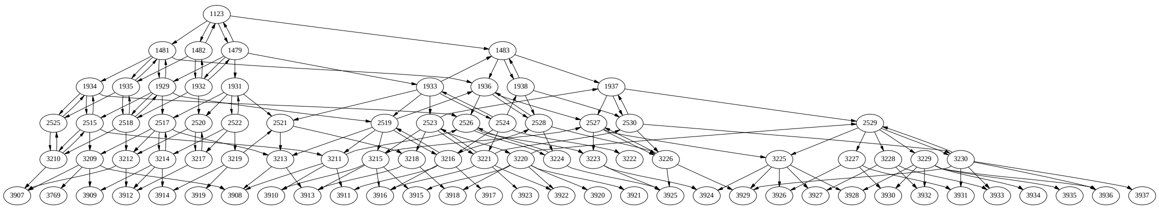
k	avg size	avg clustering
1	4.7	1
2	12.4	1.4
3	25.4	1.7
4	45.6	2

Visualization of some parts of the state state space:

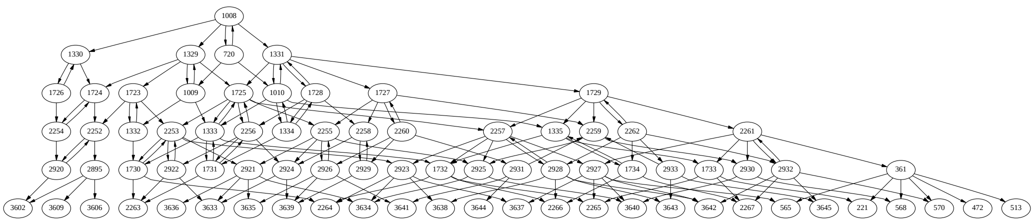
Initial walk length: 0



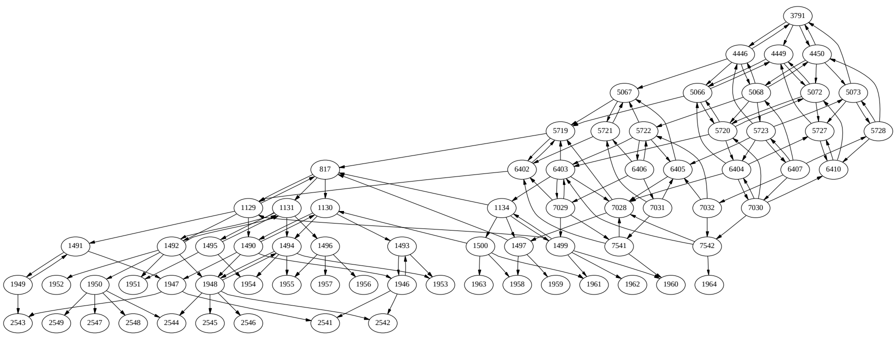
Initial walk length: 20



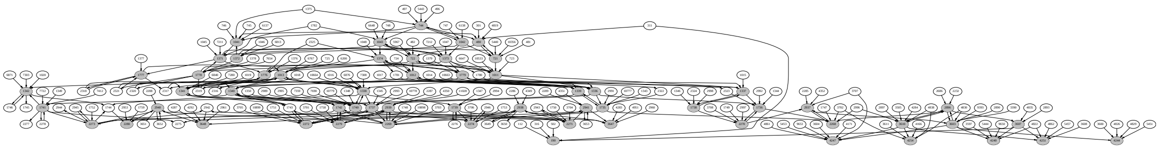
Initial walk length: 40



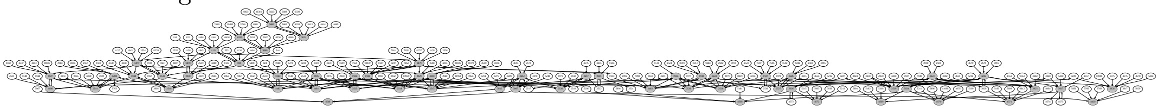
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60