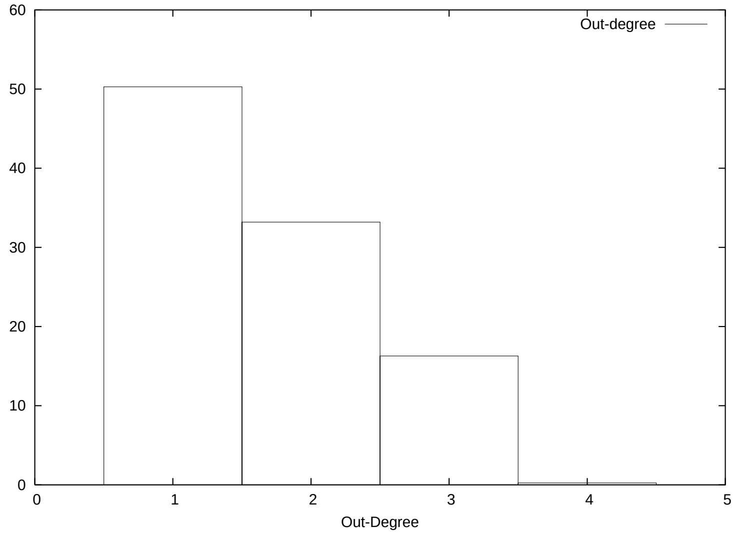
Graph: divine/msmie-1-2

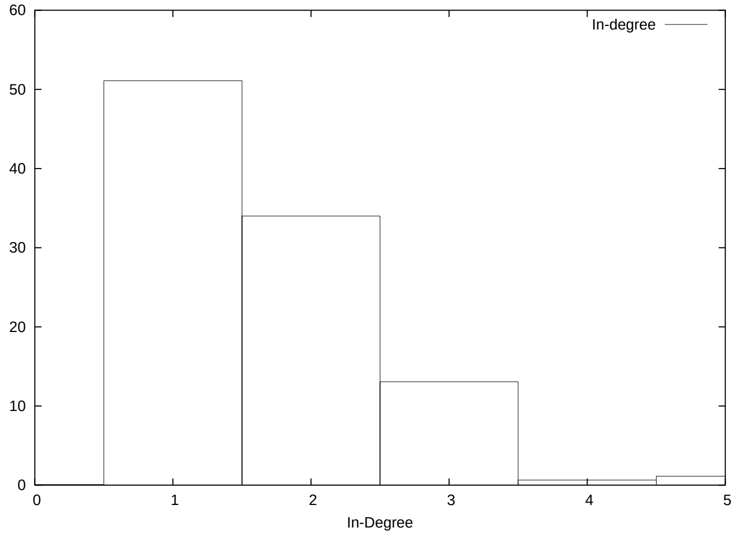
General Info

Example title	MSMIE protocol
Parameter	parameters: number of slaves
Reduction	number of masters,
Modification	1,2
States	1,241
Edges	2,066
Average degree	1.6

Out-Degrees distribution:



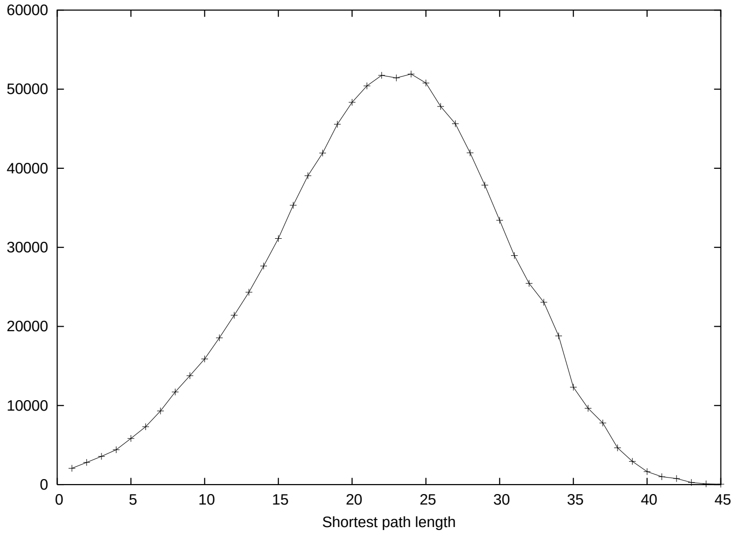
In-Degrees distribution:



Shortest Paths Info

Diameter: 45
Average shortest path length: 22.0427

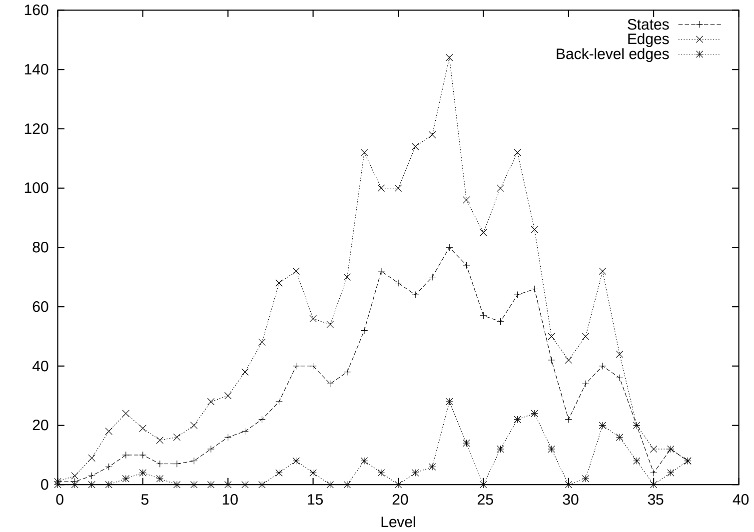
Shortest paths lengths frequencies:



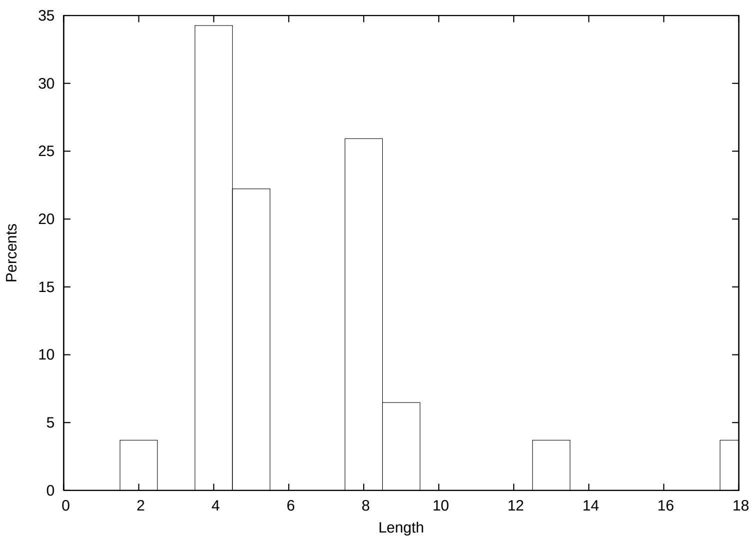
BFS Info

BFS height	37
BFS width	80 (6.4%)
Back level edges	216 (10.4%)

BFS level info:



Back level edges lengths:



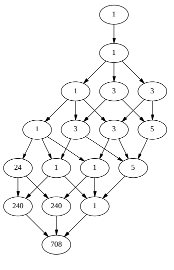
SCC Info

SCC components	17
SCC quetient height	6
SCC quetient nontrivial height	5
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
708	1	57%
240	2	38.6%
24	1	1.9%
5	2	0.8%
3	4	0.9%
1	7	0.5%

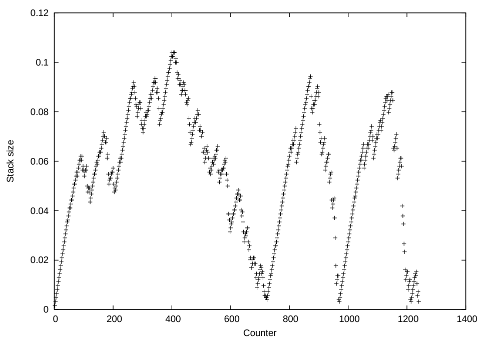
SCC component graph (part):



DFS Info

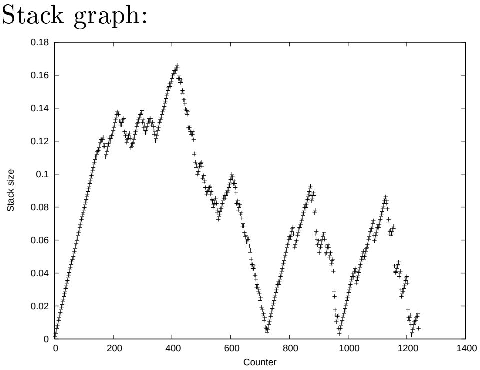
Run 0

front-edges : back-edges : cross-edges = 1,240 : 152 : 674 = 60%:7.3%:32.6%
Max. stack size: 130 (10.4%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 6 (42), 10 (30), 9 (17), 3 (8), 15 (8)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 1,240 : 158 : 668 = 60%:7.6%:32.3%
Max. stack size: 206 (16.5%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 6 (40), 10 (27), 9 (15), 15 (9), 3 (8)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	22	(1.7%)
4	0	(0%)
5	0	(0%)
6	264	(21.2%)

Diamonds

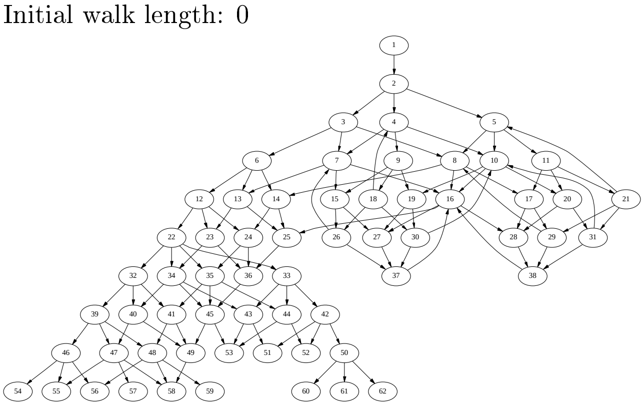
526 (42.3%)

Neighborhoods

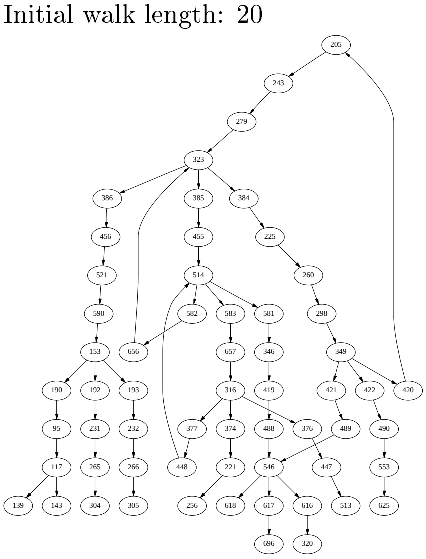
k	avg size	avg clustering
1	2.6	1
2	4.9	1.1
3	7.7	1.1
4	11.3	1.1

Visualization of some parts of the state state space:

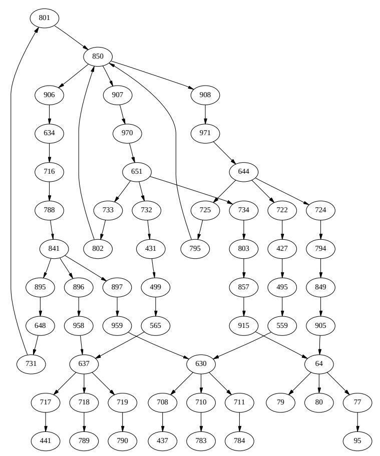
Initial walk length: 0



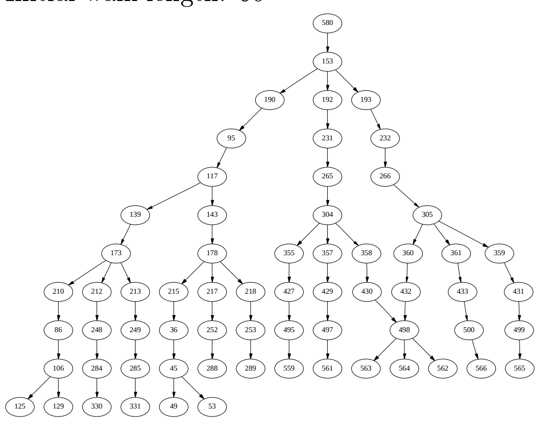
Initial walk length: 20



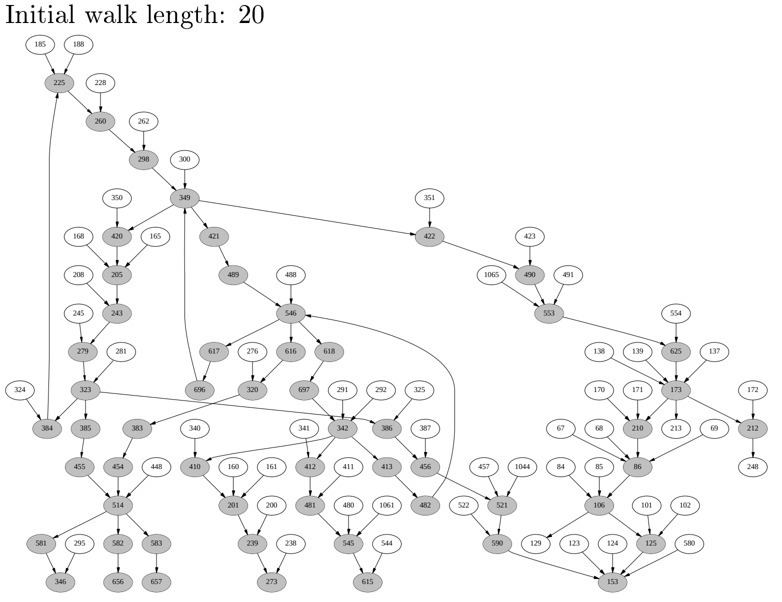
Initial walk length: 40



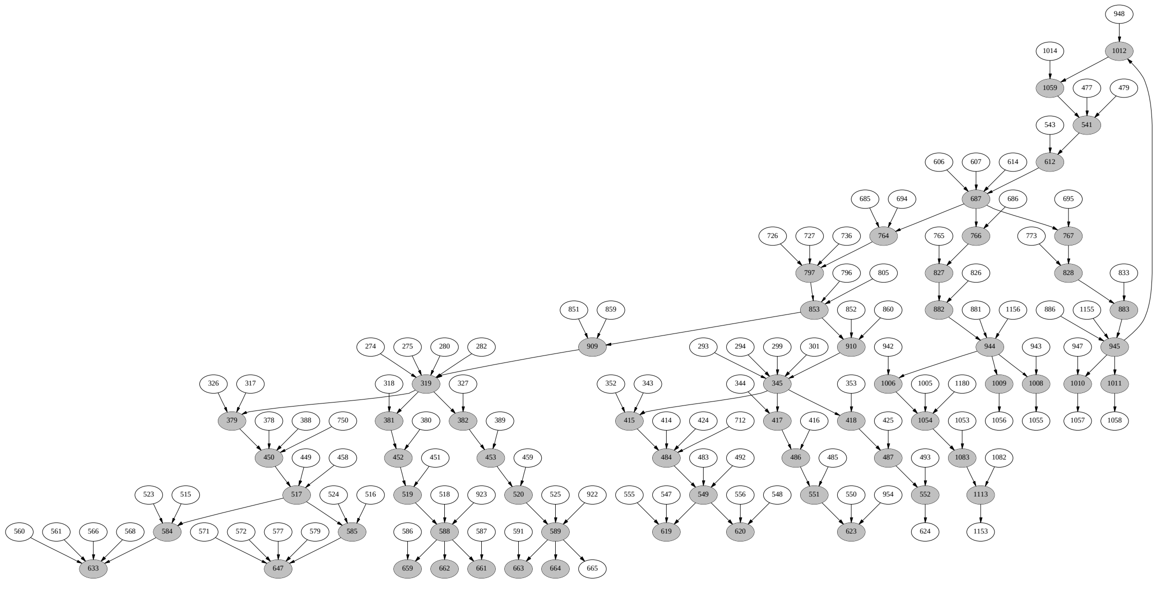
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60