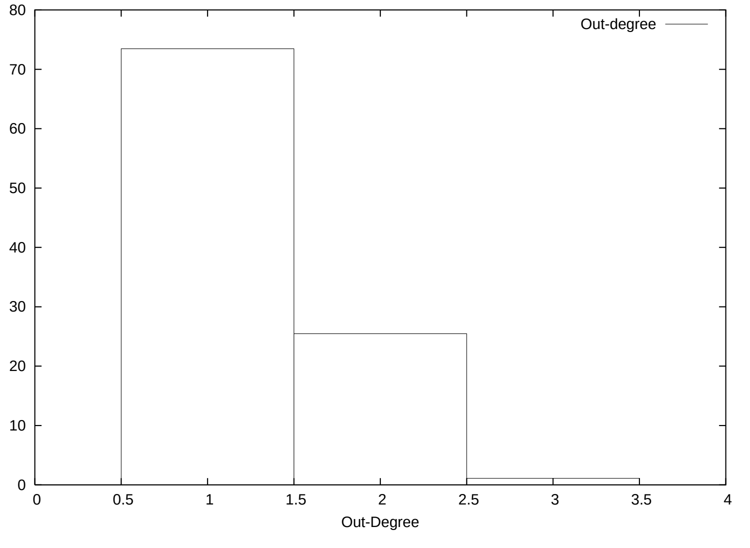
Graph: divine/msmie-1-1

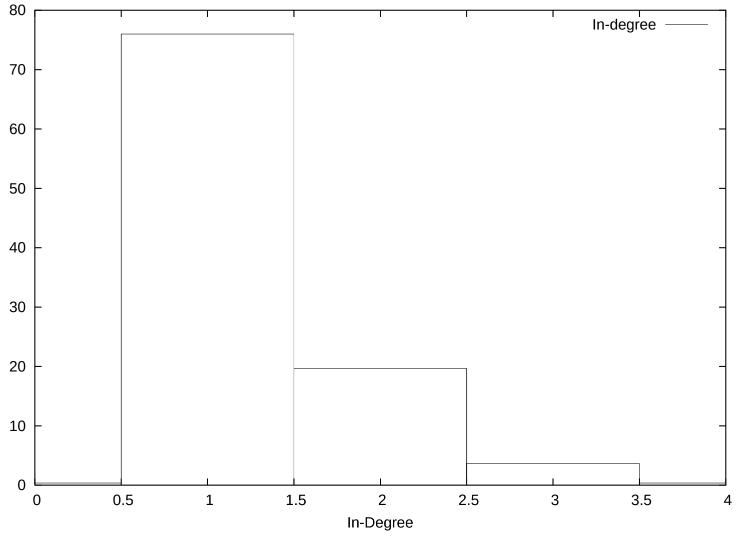
General Info

Example title	MSMIE protocol
Parameter	parameters: number of slaves
Reduction	number of masters,
Modification	1,1
States	275
Edges	351
Average degree	1.2

Out-Degrees distribution:



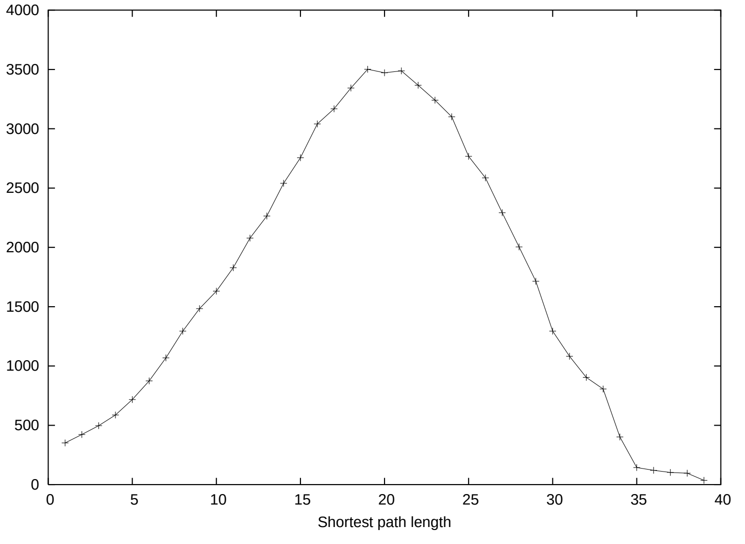
In-Degrees distribution:



Shortest Paths Info

Diameter: 39
Average shortest path length: 19.1318

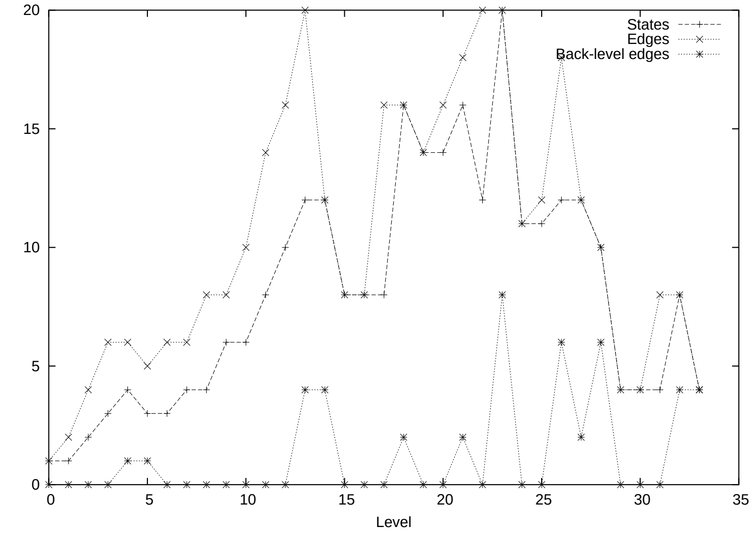
Shortest paths lengths frequencies:



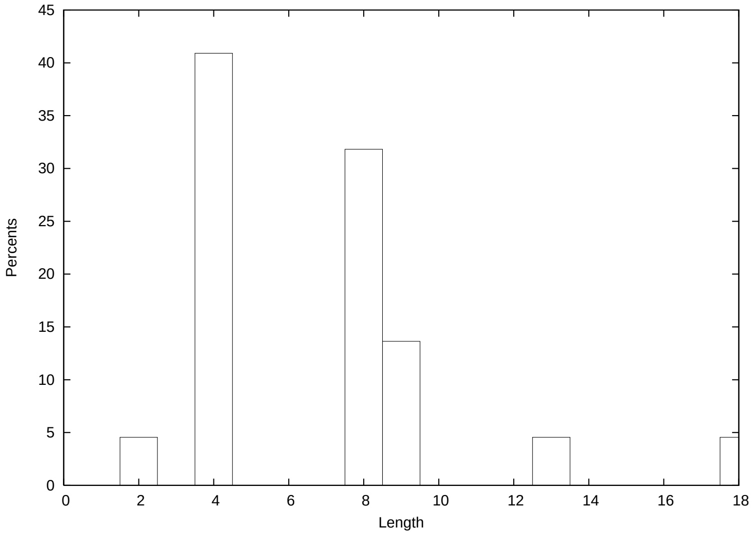
BFS Info

BFS height	33
BFS width	20 (7.2%)
Back level edges	44 (12.5%)

BFS level info:



Back level edges lengths:



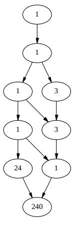
SCC Info

SCC components	9
SCC quetient height	5
SCC quetient nontrivial height	4
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
240	1	87.2%
24	1	8.7%
3	2	2.1%
1	5	1.8%

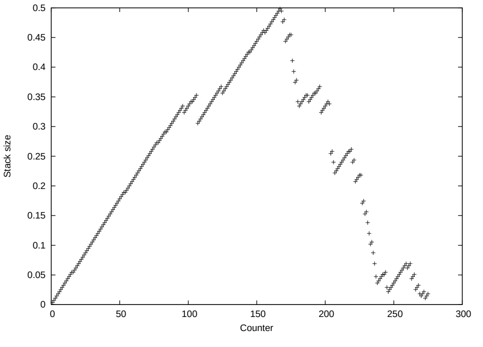
SCC component graph (part):



DFS Info

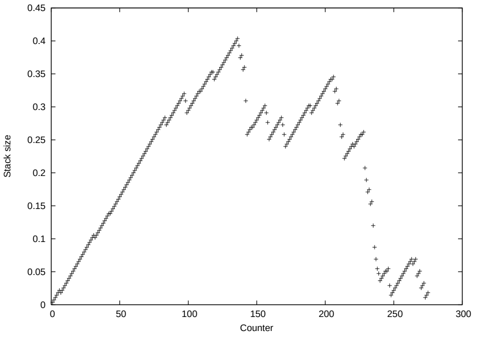
Run 0

front-edges : back-edges : cross-edges = 274 : 27 : 50 = 78%:7.6%:14.2%
Max. stack size: 137 (49.8%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 10 (9), 9 (6), 84 (2), 3 (2), 103 (2)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 274 : 29 : 48 = 78%:8.2%:13.6%
Max. stack size: 111 (40.3%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 10 (8), 9 (6), 75 (3), 33 (2), 3 (2)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	6	(2.1%)

Diamonds

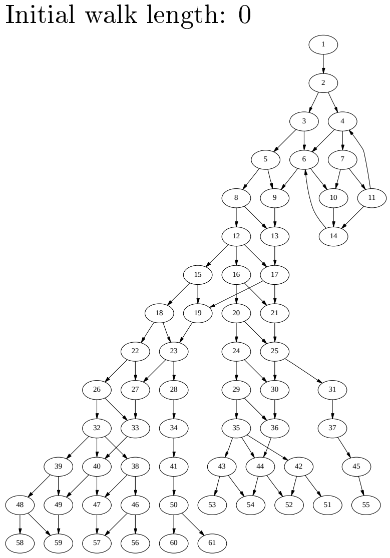
30 (10.9%)

Neighborhoods

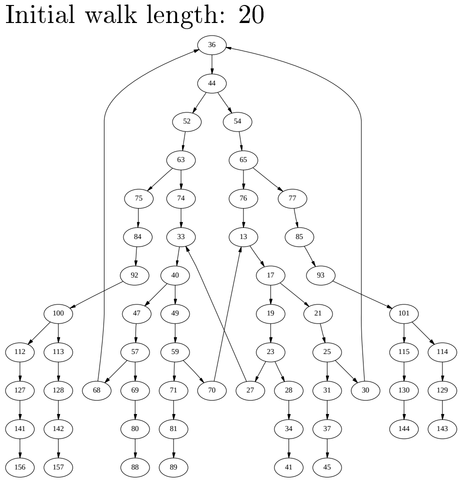
k	avg size	avg clustering
1	2.2	1
2	3.8	1
3	5.6	1
4	7.7	1

Visualization of some parts of the state state space:

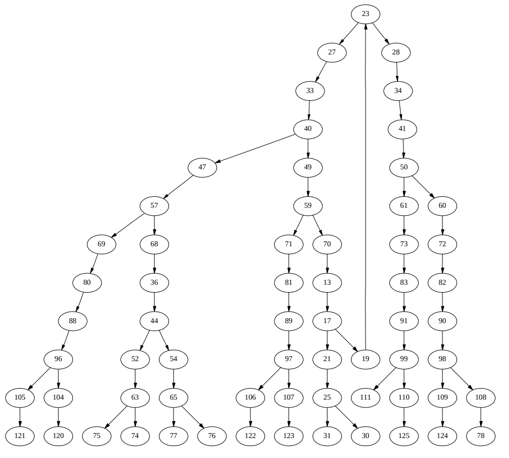
Initial walk length: 0



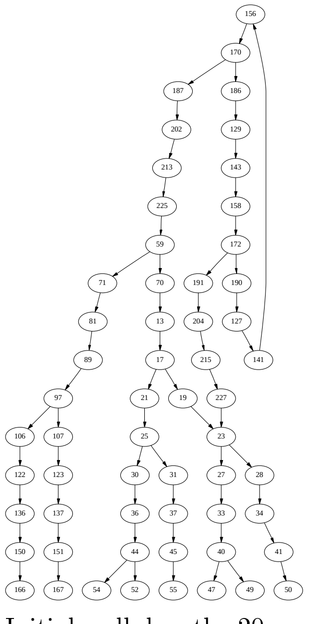
Initial walk length: 20



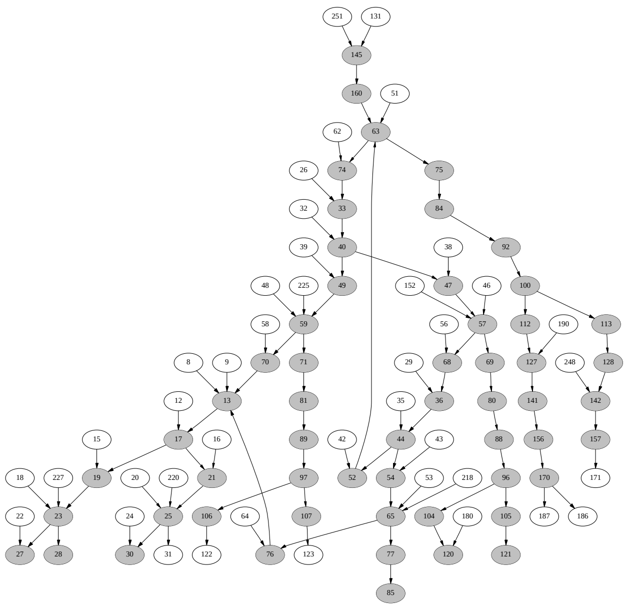
Initial walk length: 40



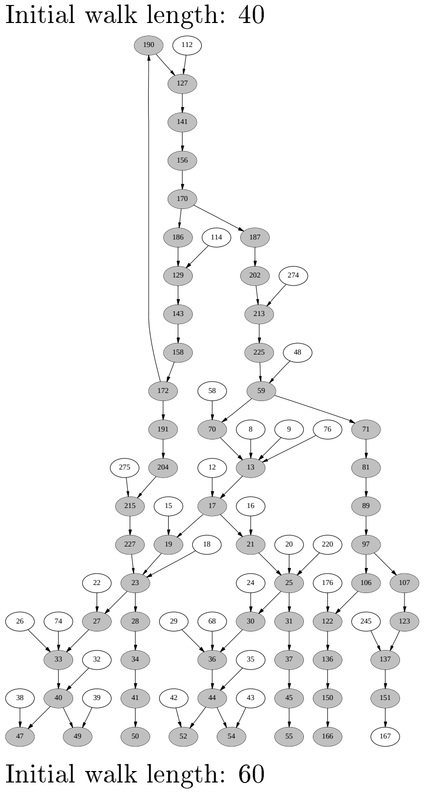
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60