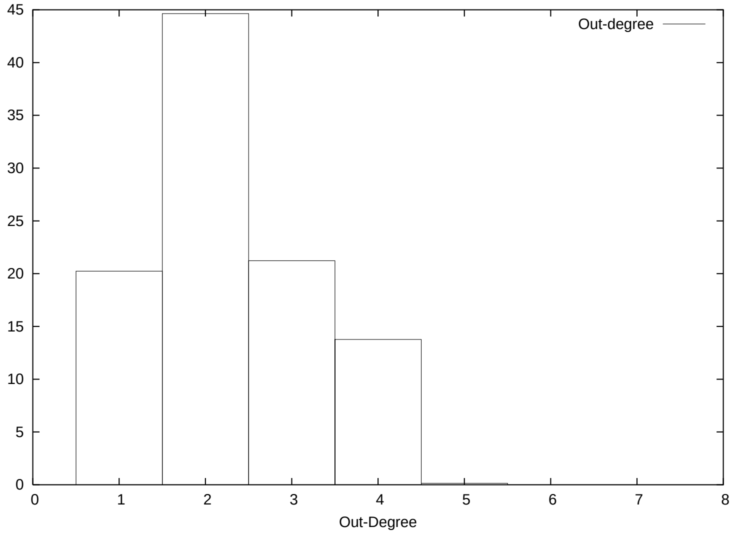
Graph: divine/msmie-2-2

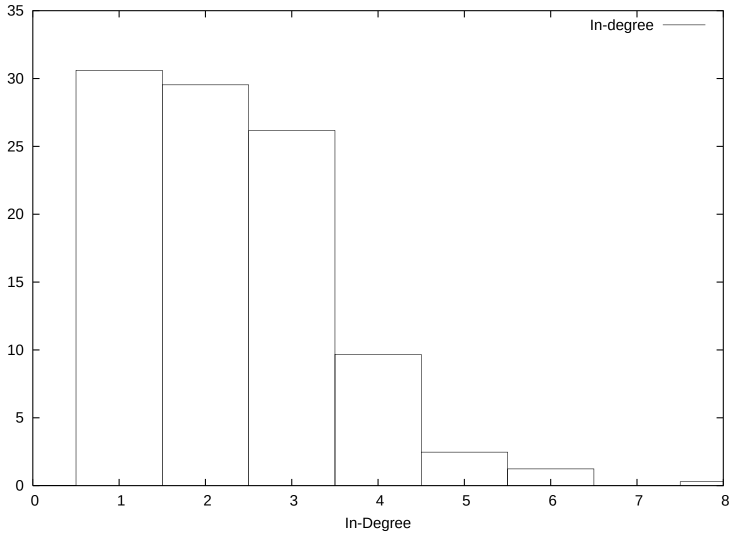
General Info

Example title	MSMIE protocol
Parameter	parameters: number of slaves
Reduction	number of masters,
Modification	2,2
States	4,127
Edges	9,449
Average degree	2.2

Out-Degrees distribution:



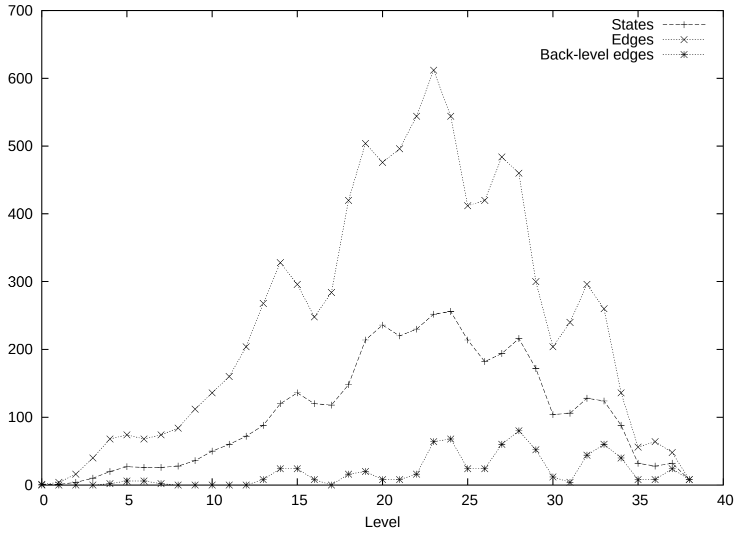
In-Degrees distribution:



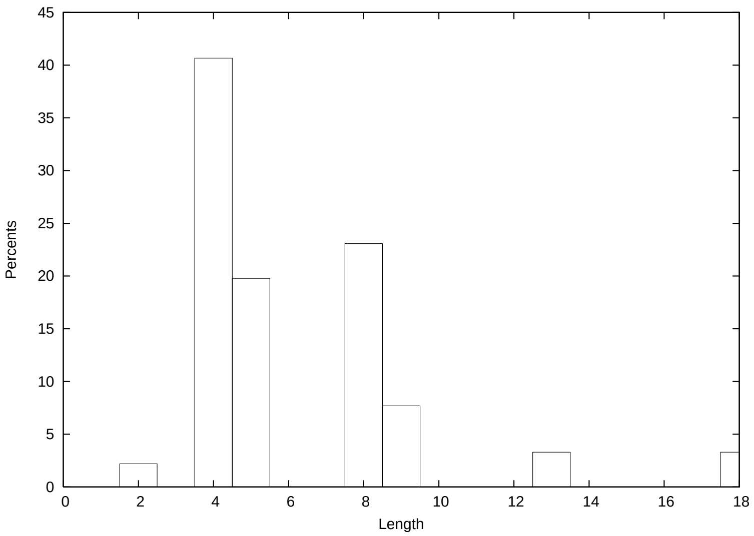
BFS Info

BFS height	38
BFS width	256 (6.2%)
Back level edges	728 (7.7%)

BFS level info:



Back level edges lengths:



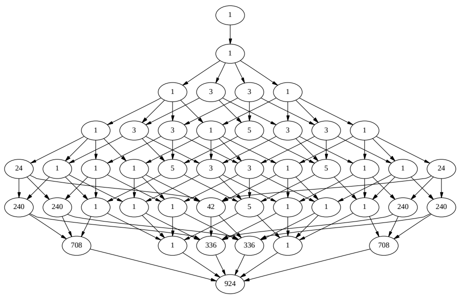
SCC Info

SCC components	45
SCC quetient height	7
SCC quetient nontrivial height	6
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
924	1	22.3%
708	2	34.3%
336	2	16.2%
240	4	23.2%
42	1	1%
24	2	1.1%
5	4	0.4%
3	8	0.5%
1	21	0.5%

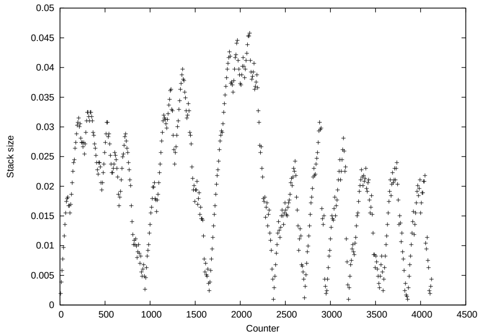
SCC component graph (part):



DFS Info

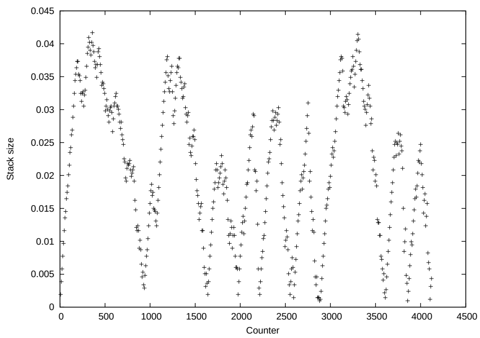
Run 0

front-edges : back-edges : cross-edges = 4,126 : 521 : 4,802 = 43.6%:5.5%:50.8%
Max. stack size: 192 (4.6%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 10 (128), 6 (123), 9 (52), 16 (28), 15 (23)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 4,126 : 523 : 4,800 = 43.6%:5.5%:50.7%
Max. stack size: 173 (4.1%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 10 (125), 6 (116), 9 (46), 15 (27), 16 (25)
Stack graph:



Local Structure

Short cycles(up to 6)

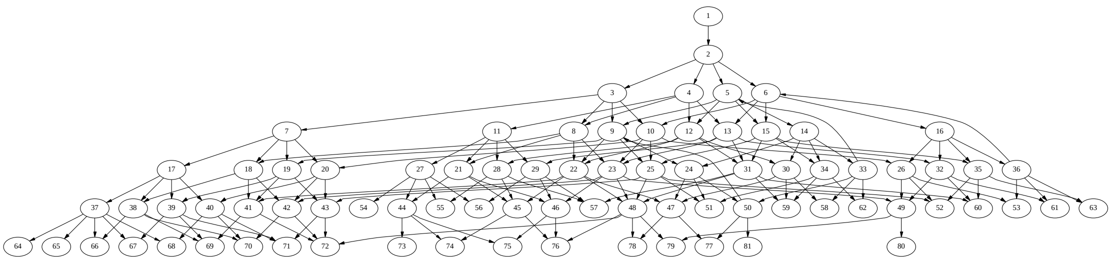
2	0	(0%)
3	44	(1%)
4	0	(0%)
5	0	(0%)
6	792	(19.1%)

Diamonds
3,195 (77.4%)

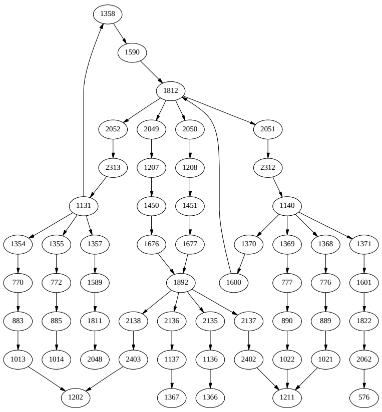
Neighborhoods

k	avg size	avg clustering
1	3.2	1
2	6.7	1.2
3	11.5	1.3
4	17.7	1.3

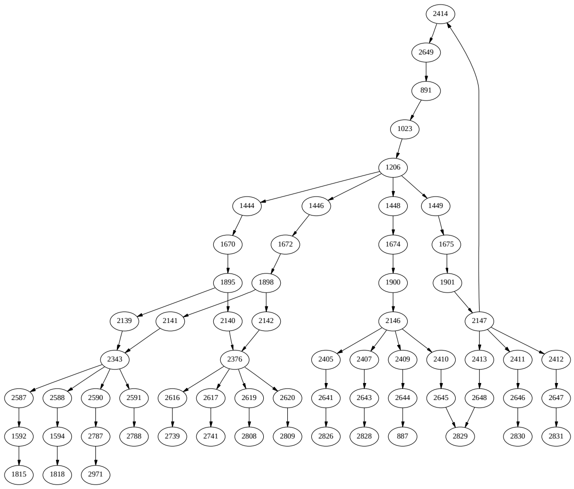
Visualization of some parts of the state state space:
Initial walk length: 0



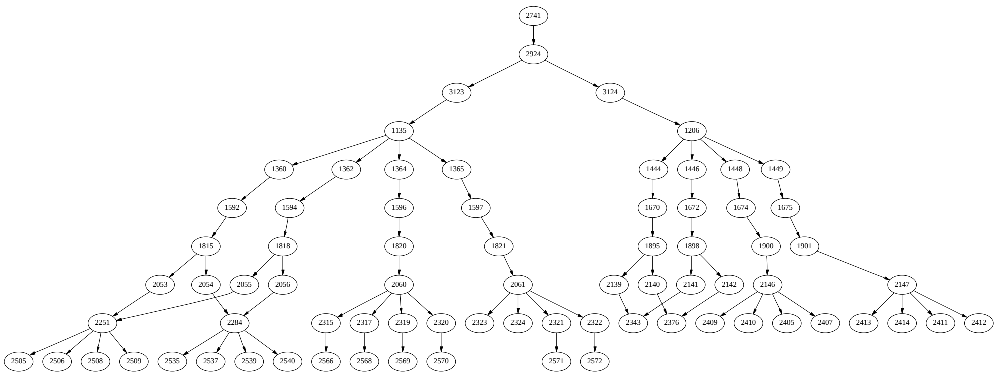
Initial walk length: 20



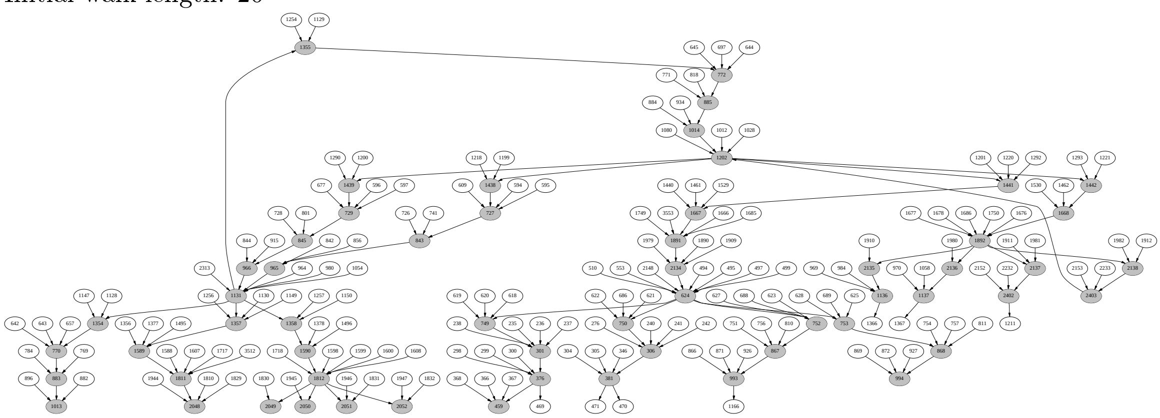
Initial walk length: 40



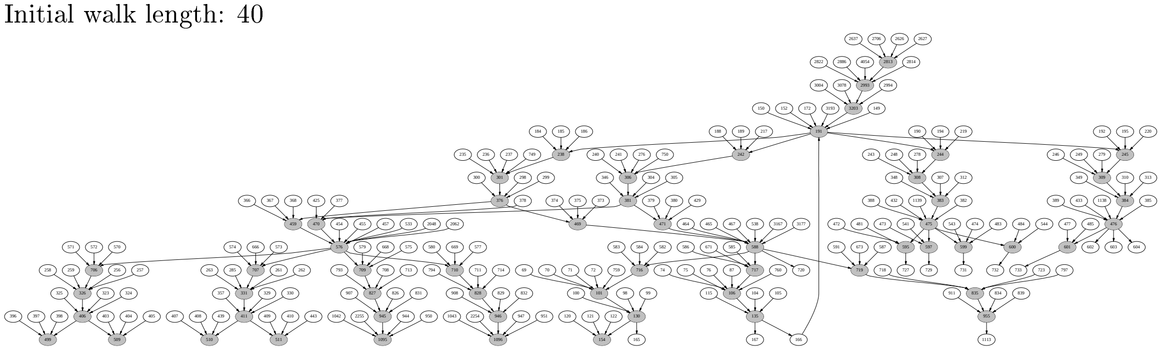
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60