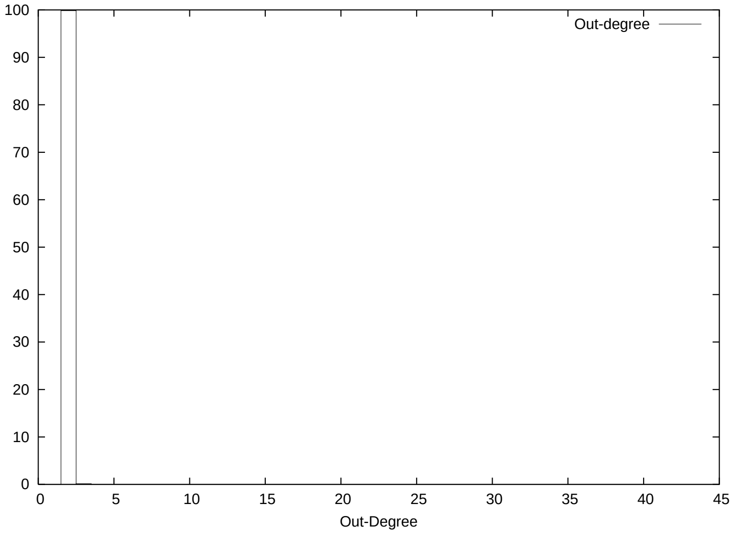
Graph: maso/puzzle20

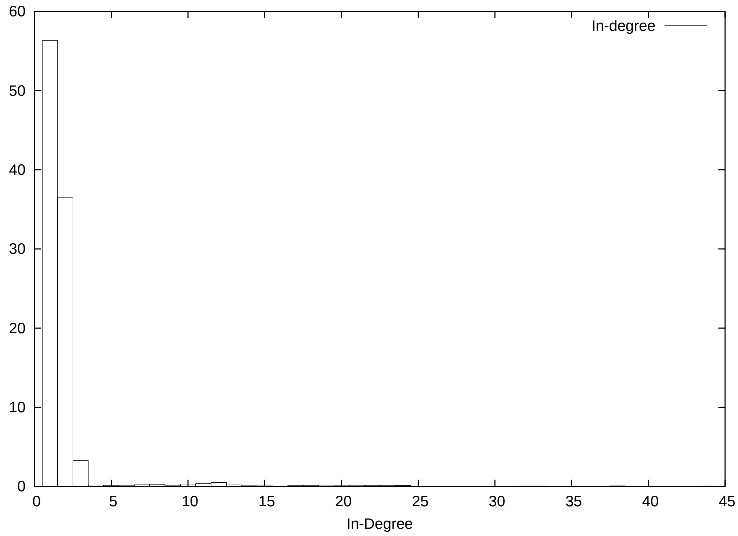
General Info

Example title	Adding Puzzle
Parameter	20
Reduction	
Modification	
States	10,869
Edges	21,754
Average degree	2

Out-Degrees distribution:



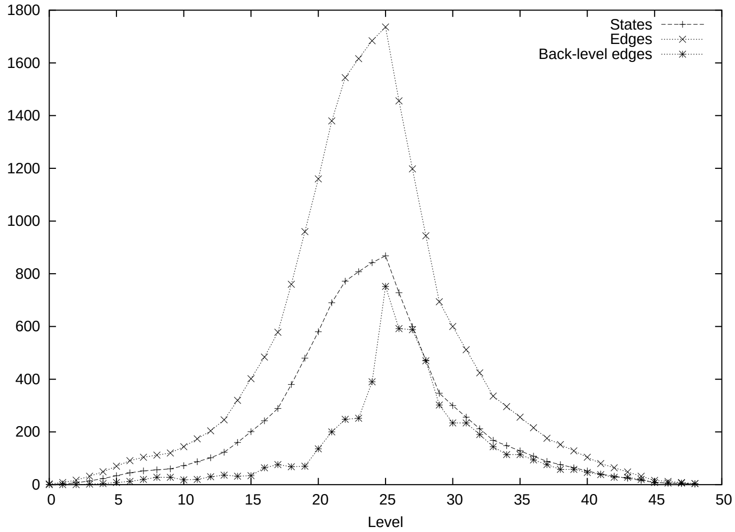
In-Degrees distribution:



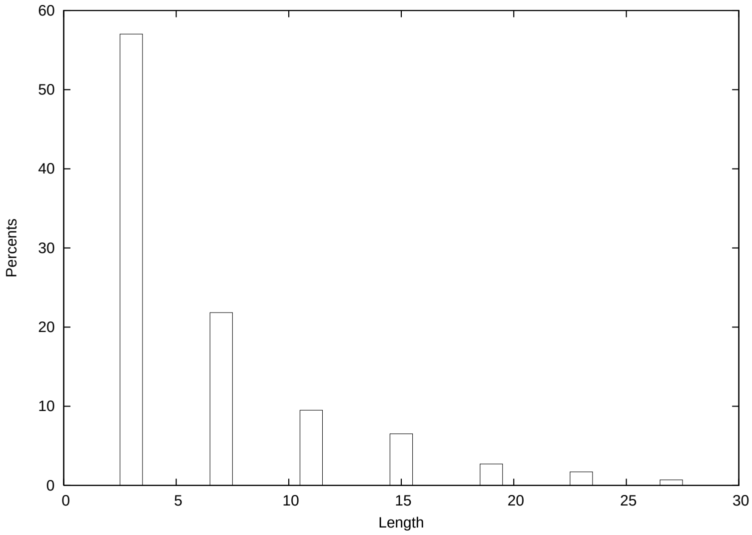
BFS Info

BFS height	48
BFS width	868 (7.9%)
Back level edges	5,980 (27.4%)

BFS level info:



Back level edges lengths:



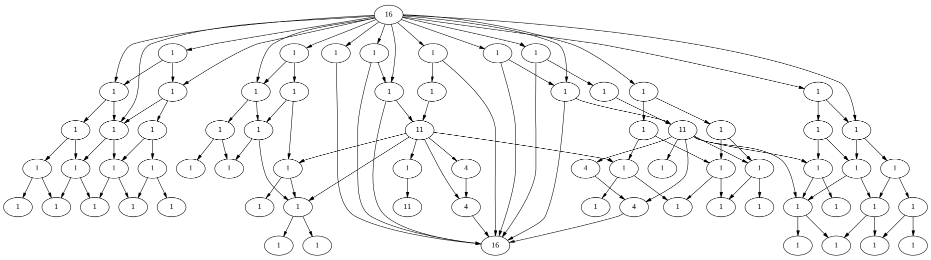
SCC Info

SCC components	10,132
SCC quetient height	105
SCC quetient nontrivial height	16
Number of terminal components	2
The largest component is	terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
16	3	0.4%
12	2	0.2%
11	10	1%
4	190	6.9%
1	9,927	91.3%

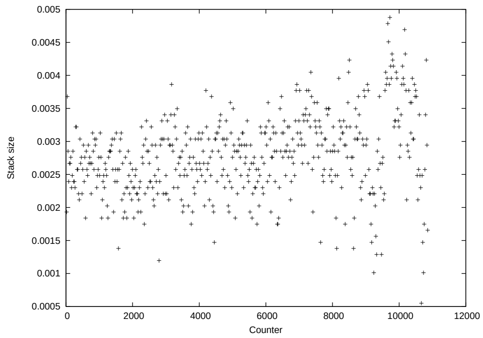
SCC component graph (part):



DFS Info

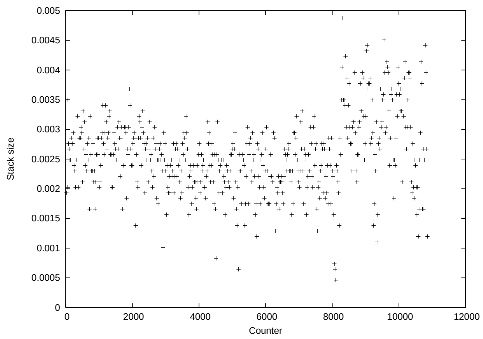
Run 0

front-edges : back-edges : cross-edges = 10,868 : 271 : 10,615 = 49.9%:1.2%:48.7%
Max. stack size: 57 (0.5%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (225), 8 (38), 12 (7), 16 (1), ()
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 10,868 : 280 : 10,606 = 49.9%:1.2%:48.7%
Max. stack size: 53 (0.4%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (223), 8 (52), 12 (5), (), ()
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	0	(0%)
4	912	(8.3%)

Diamonds

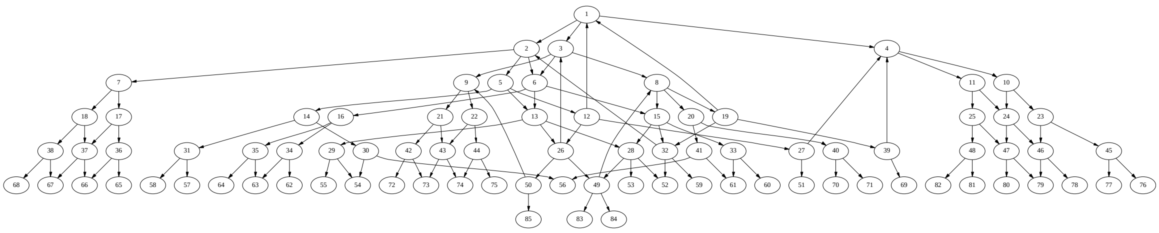
8,365 (76.9%)

Neighborhoods

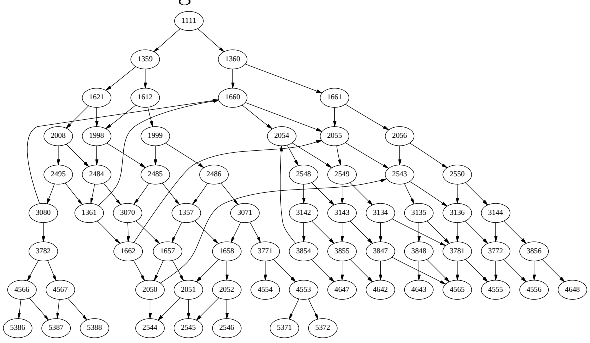
k	avg size	avg clustering
1	3	1
2	6.2	1.1
3	11	1.2
4	17.8	1.3

Visualization of some parts of the state state space:

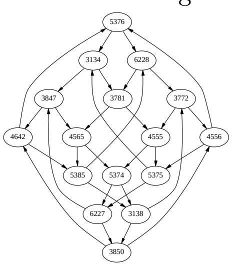
Initial walk length: 0



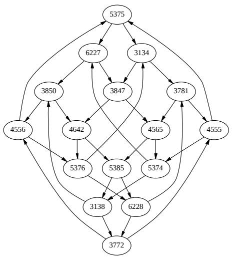
Initial walk length: 20



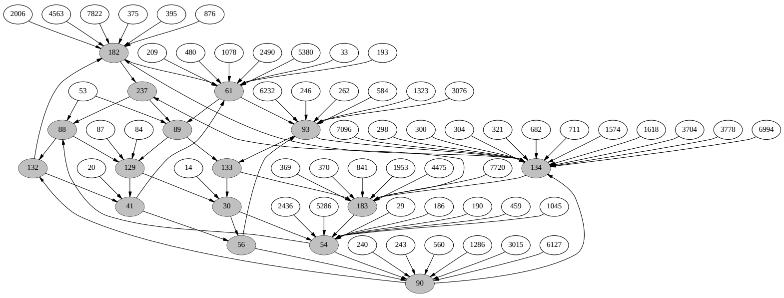
Initial walk length: 40



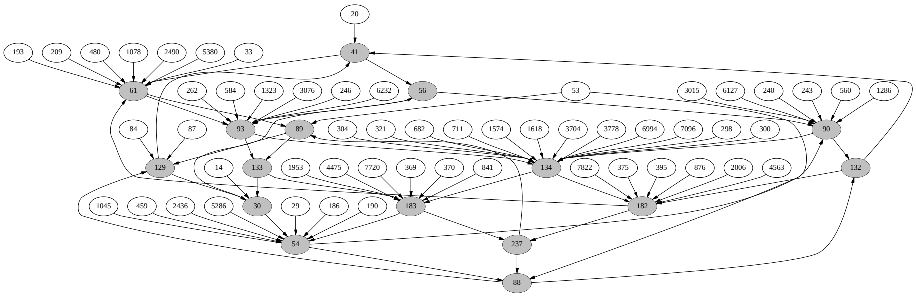
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60