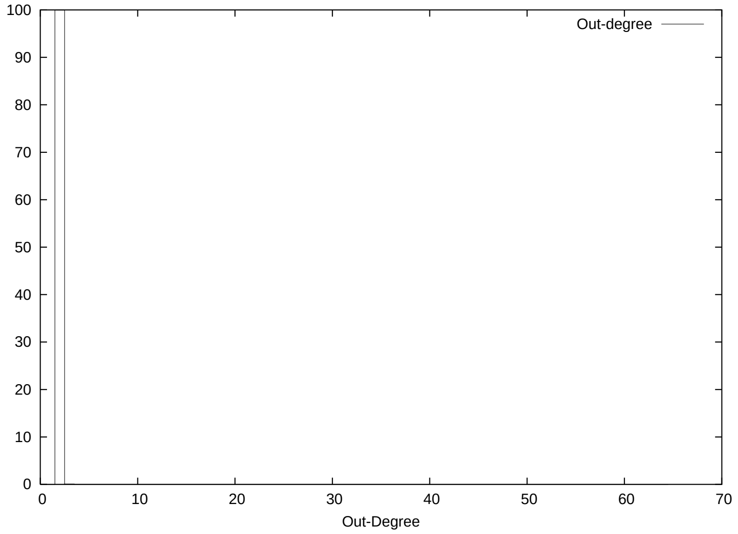
Graph: maso/puzzle30

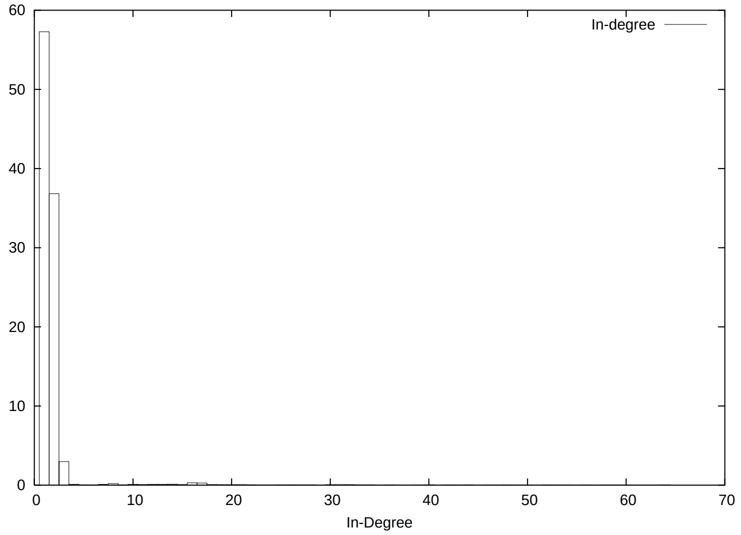
General Info

Example title	Adding Puzzle
Parameter	30
Reduction	
Modification	
States	21,489
Edges	42,994
Average degree	2

Out-Degrees distribution:



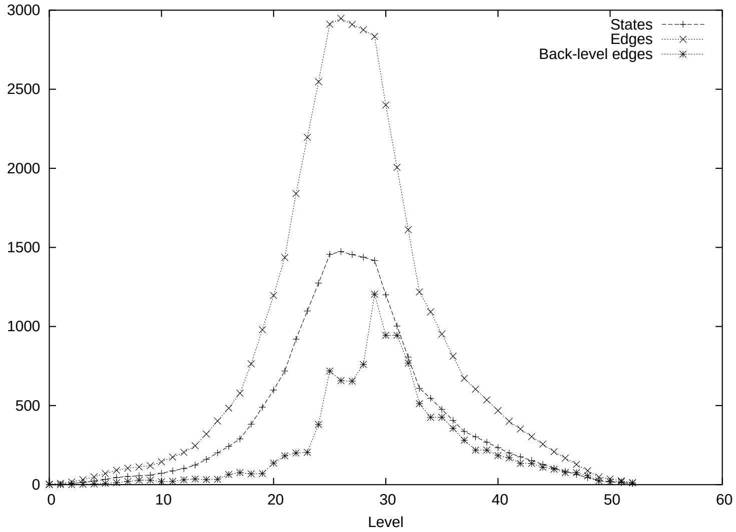
In-Degrees distribution:



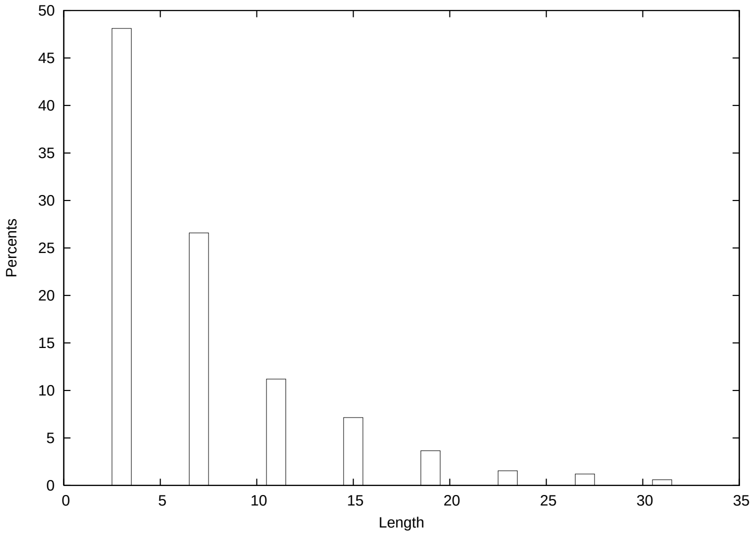
BFS Info

BFS height	52
BFS width	1,474 (6.8%)
Back level edges	11,848 (27.5%)

BFS level info:



Back level edges lengths:



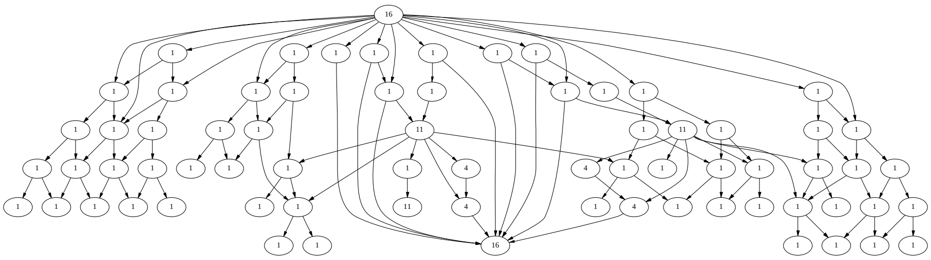
SCC Info

SCC components	20,512
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	0.2%
12	2	0.1%
11	10	0.5%
4	270	5%
1	20,227	94.1%

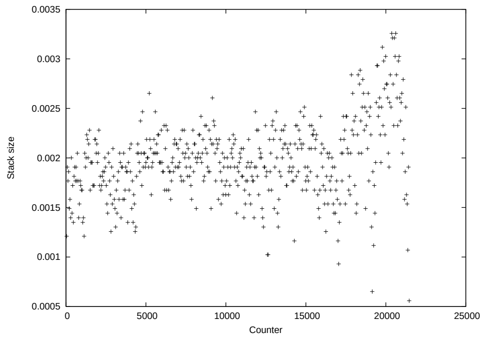
SCC component graph (part):



DFS Info

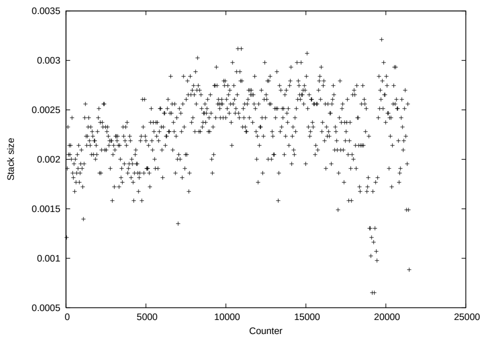
Run 0

front-edges : back-edges : cross-edges = 21,488 : 346 : 21,160 = 49.9%:0.8%:49.2%
Max. stack size: 73 (0.3%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (306), 8 (35), 12 (5), (), ()
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 21,488 : 344 : 21,162 = 49.9%:0.8%:49.2%
Max. stack size: 69 (0.3%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (304), 8 (30), 12 (9), 16 (1), ()
Stack graph:



Local Structure

Short cycles(up to 6)

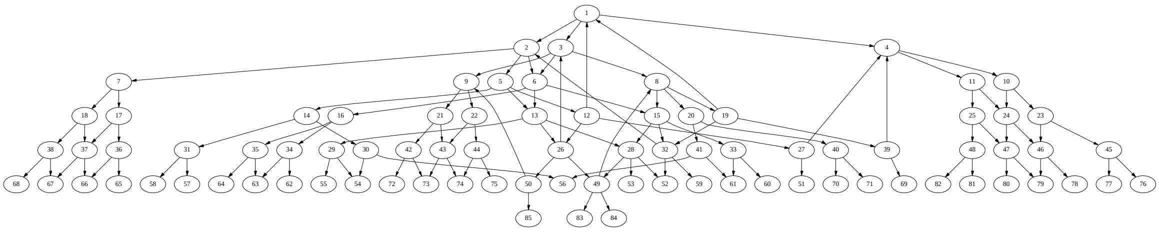
2	0	(0%)
3	0	(0%)
4	1,232	(5.7%)

Diamonds
16,427 (76.4%)

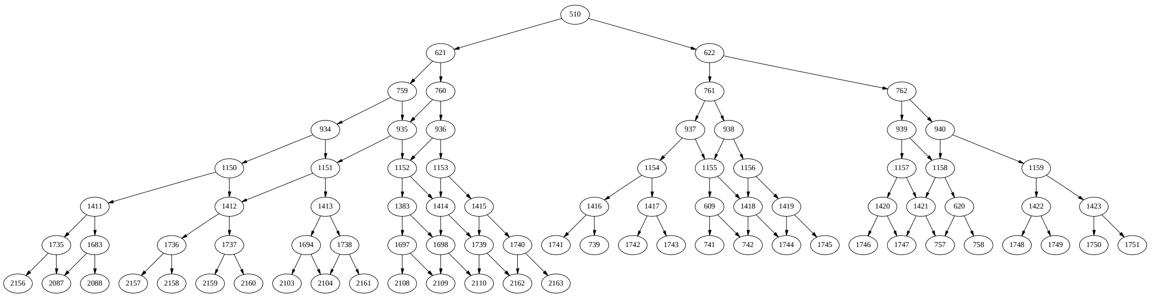
Neighborhoods

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

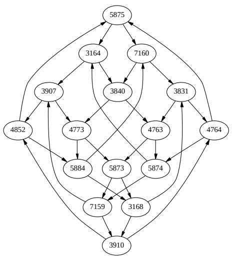
Visualization of some parts of the state state space:
Initial walk length: 0



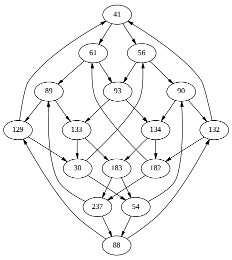
Initial walk length: 20



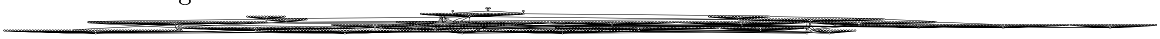
Initial walk length: 40



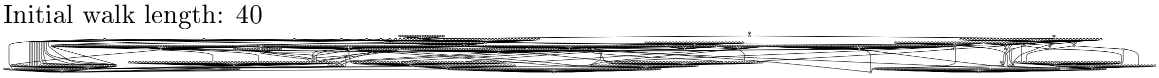
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60