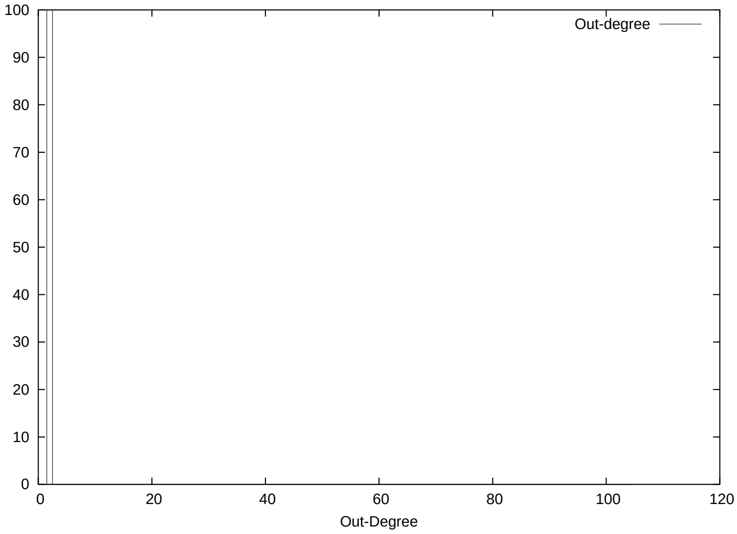
Graph: maso/puzzle50

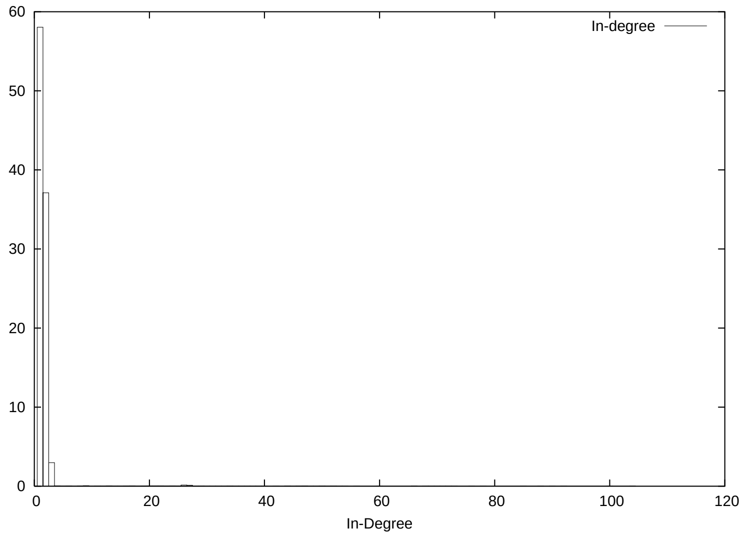
General Info

Example title	Adding Puzzle
Parameter	50
Reduction	
Modification	
States	56,561
Edges	113,138
Average degree	2

Out-Degrees distribution:



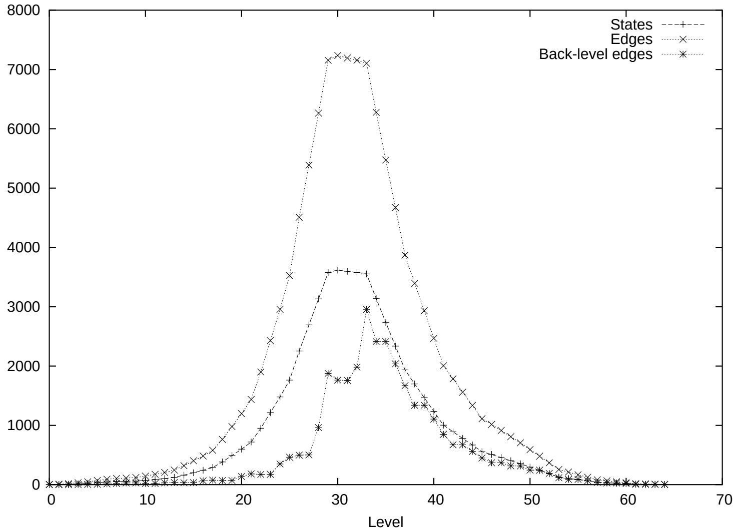
In-Degrees distribution:



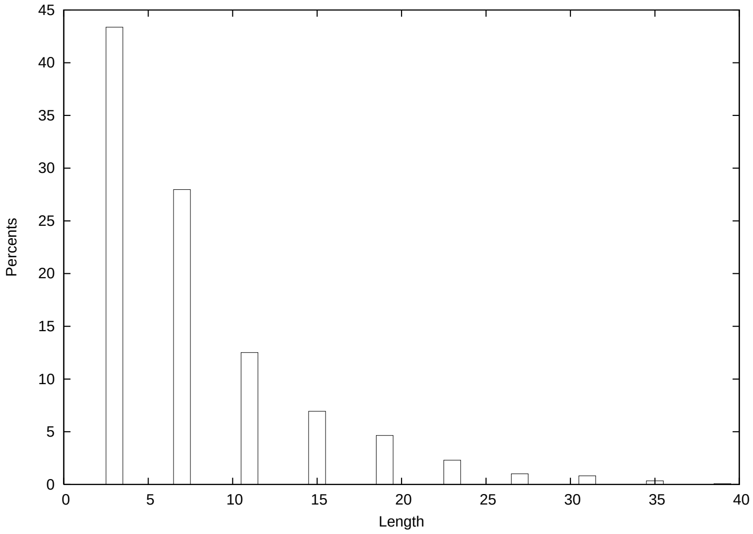
BFS Info

BFS height	64
BFS width	3,618 (6.3%)
Back level edges	32,374 (28.6%)

BFS level info:



Back level edges lengths:



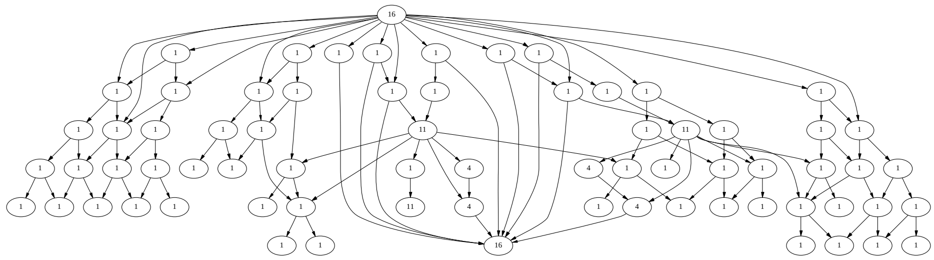
SCC Info

SCC components	55,072
SCC quetient height	137
SCC quetient nontrivial height	18
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%
12	2	0%
11	12	0.2%
4	434	3%
1	54,621	96.5%

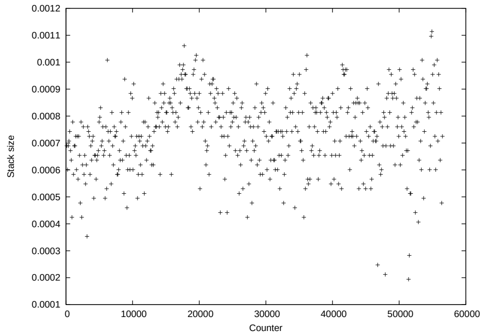
SCC component graph (part):



DFS Info

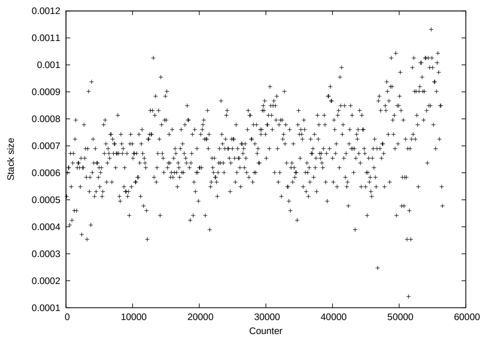
Run 0

front-edges : back-edges : cross-edges = 56,560 : 522 : 56,056 = 49.9%:0.4%:49.5%
Max. stack size: 69 (0.1%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (472), 8 (44), 12 (6), (), ()
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 56,560 : 517 : 56,061 = 49.9%:0.4%:49.5%
Max. stack size: 73 (0.1%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (474), 8 (41), 12 (2), (), ()
Stack graph:



Local Structure

Short cycles(up to 6)

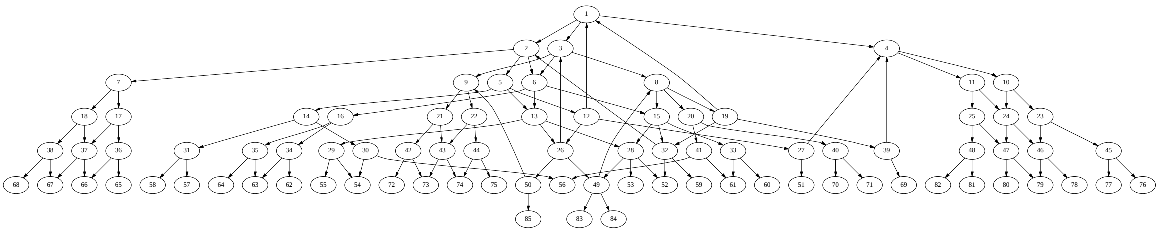
2	0	(0%)
3	0	(0%)
4	1,904	(3.3%)

Diamonds
42,979 (75.9%)

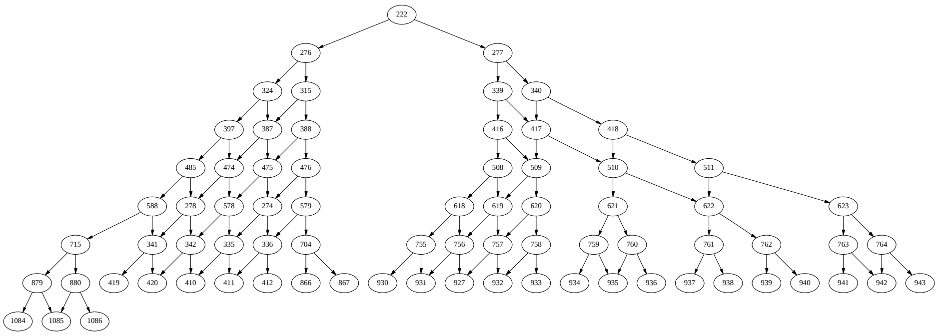
Neighborhoods

k	avg size	avg clustering
1	3	1
2	6.2	1.1
3	11	1.2
4	17.9	1.3

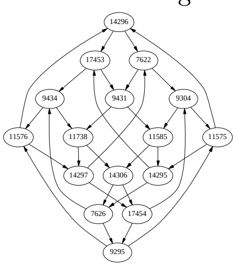
Visualization of some parts of the state state space:
Initial walk length: 0



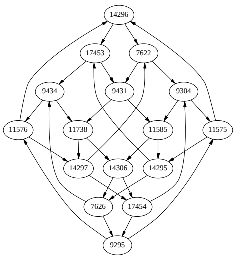
Initial walk length: 20



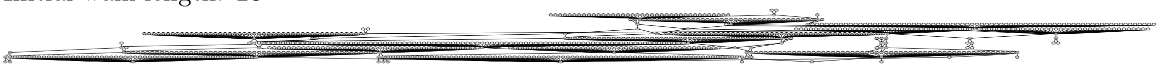
Initial walk length: 40



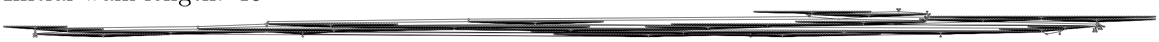
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60