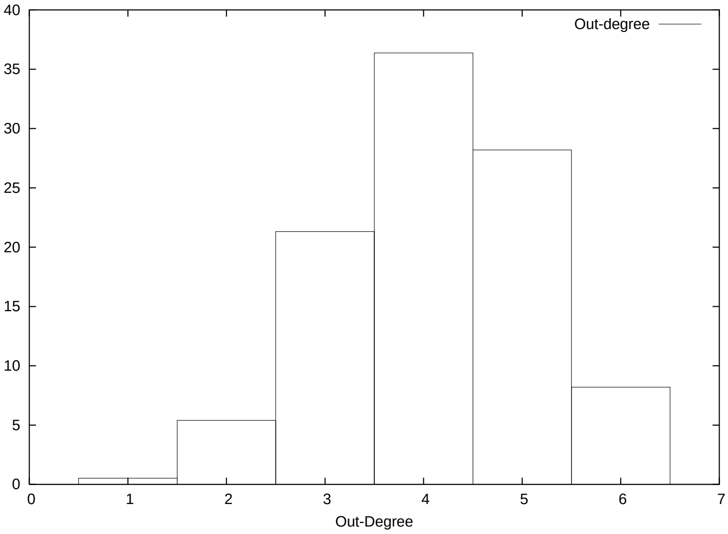
Graph: spin/sort6

General Info

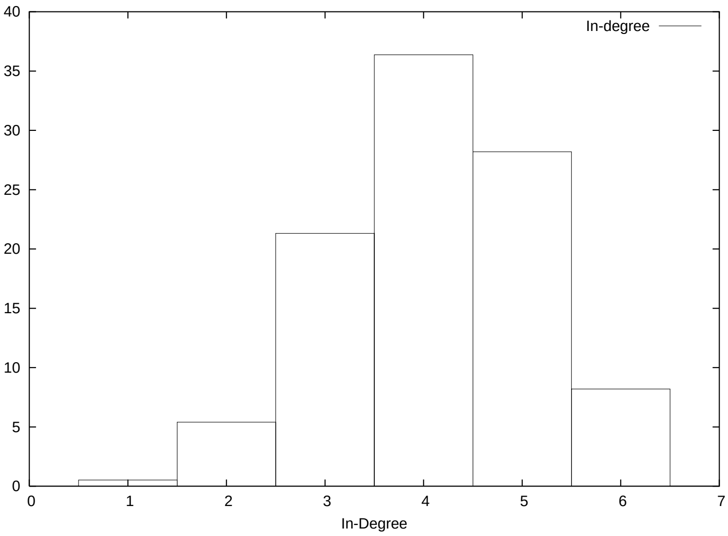
Example title	Concurrent sorting
Parameter	concurrent sort of N numbers, 60 lines of Promela
Reduction	6
Modification	

States	22,350
Edges	91,839
Average degree	4.1

Out-Degrees distribution:



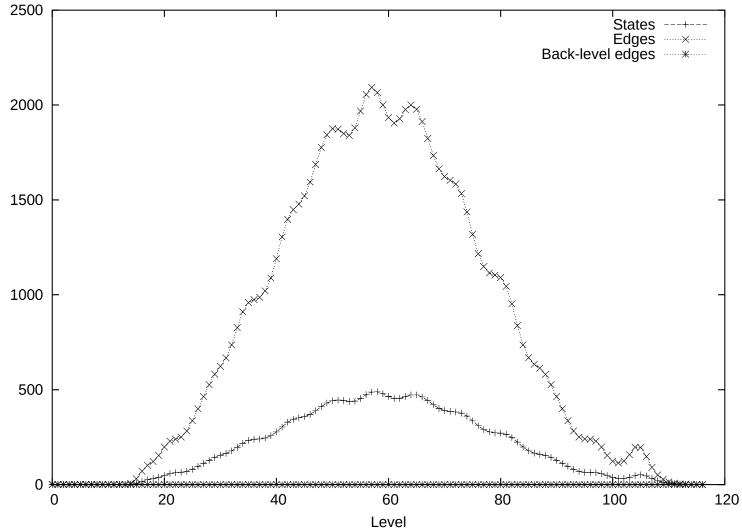
In-Degrees distribution:



BFS Info

BFS height	116
BFS width	489 (2.1%)
Back level edges	0 (0%)

BFS level info:



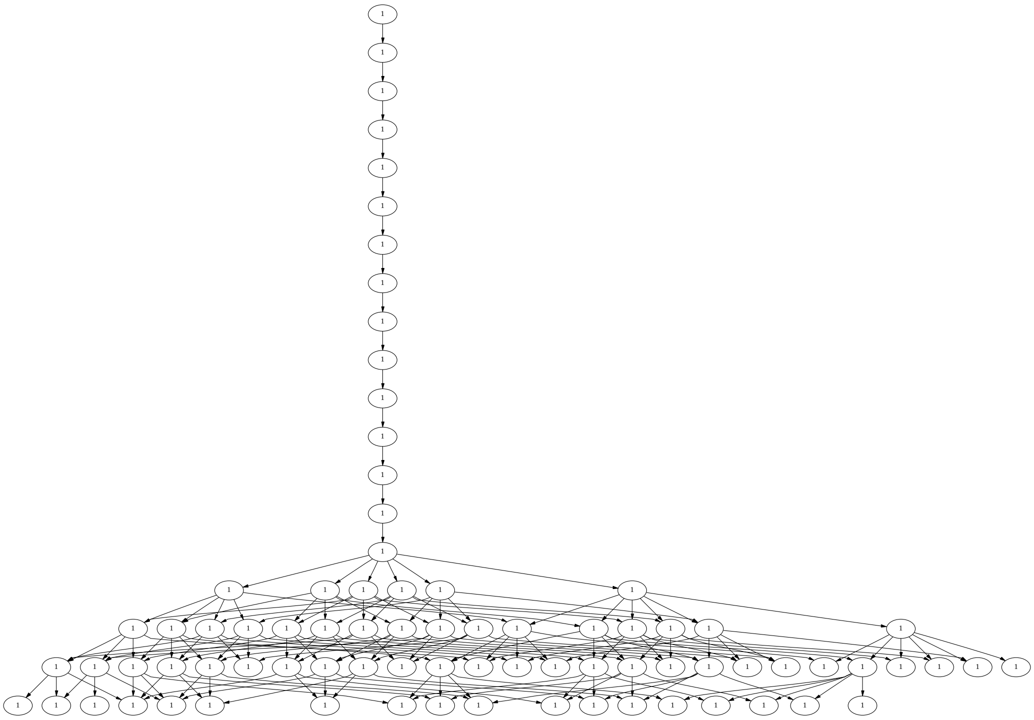
SCC Info

SCC components	22,350
SCC quetient height	116
SCC quetient nontrivial height	0
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
1	22,350	100%

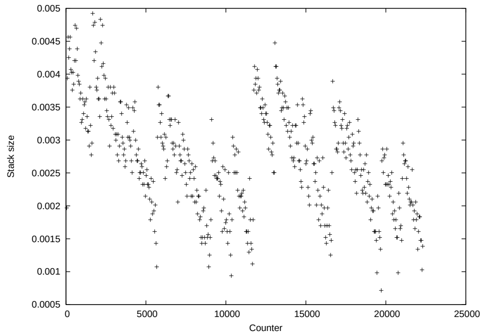
SCC component graph (part):



DFS Info

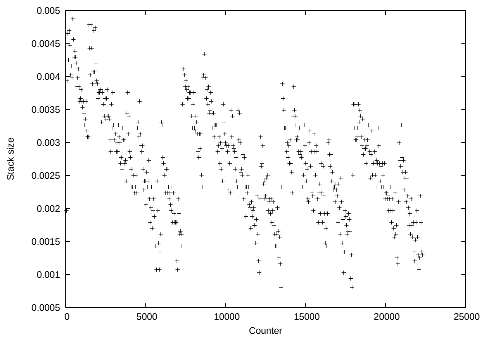
Run 0

front-edges : back-edges : cross-edges = 22,349 : 0 : 69,490 = 24.3%:0%:75.6%
Max. stack size: 117 (0.5%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 22,349 : 0 : 69,490 = 24.3%:0%:75.6%
Max. stack size: 117 (0.5%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Local Structure

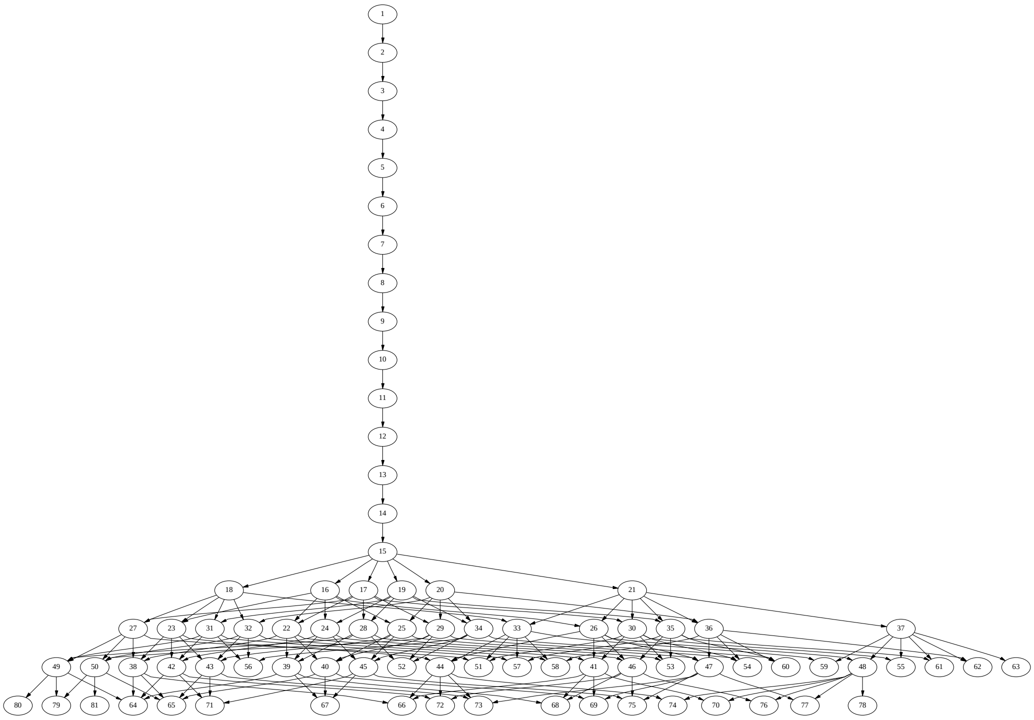
Short cycles(up to 6)
none
Diamonds

22,233 (99.4%)

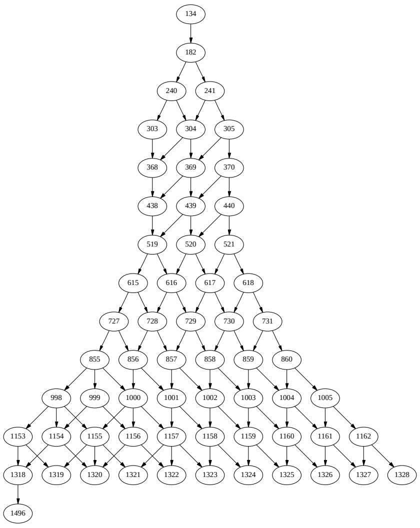
Neighborhoods

k	avg size	avg clustering
1	5.1	1
2	14.3	1.4
3	30.2	1.8
4	53.8	2

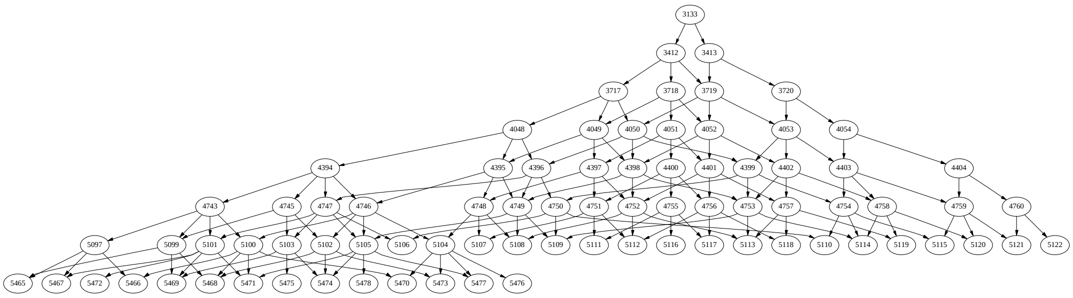
Visualization of some parts of the state state space:
Initial walk length: 0



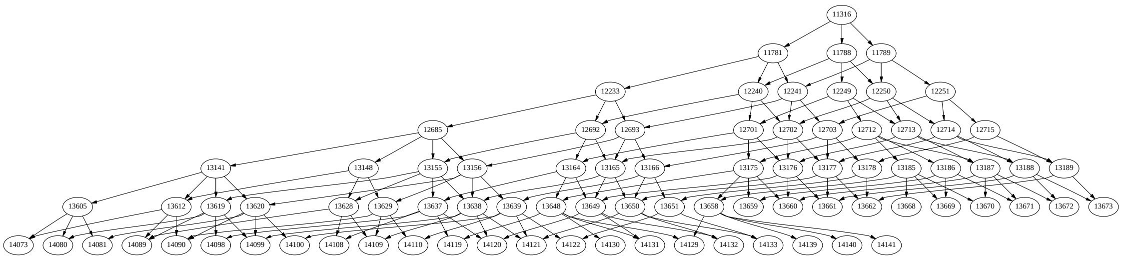
Initial walk length: 20



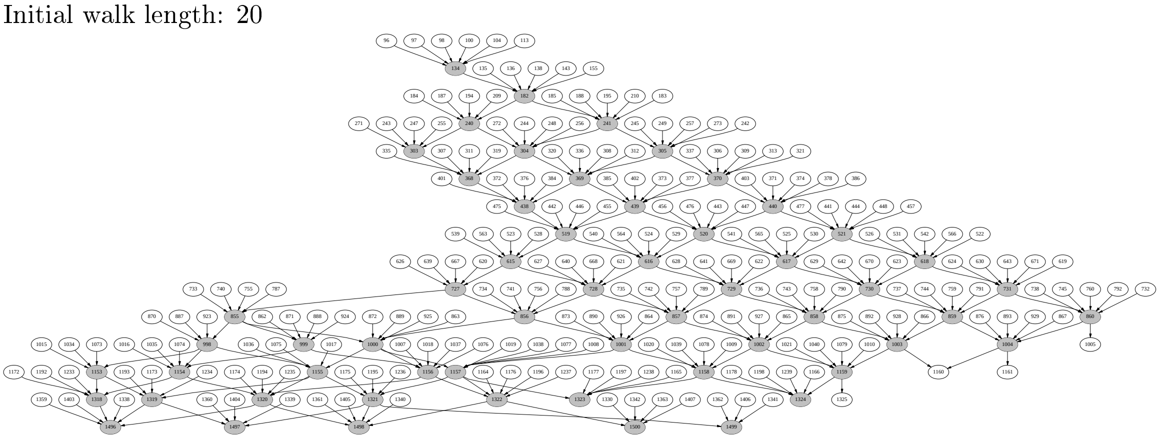
Initial walk length: 40



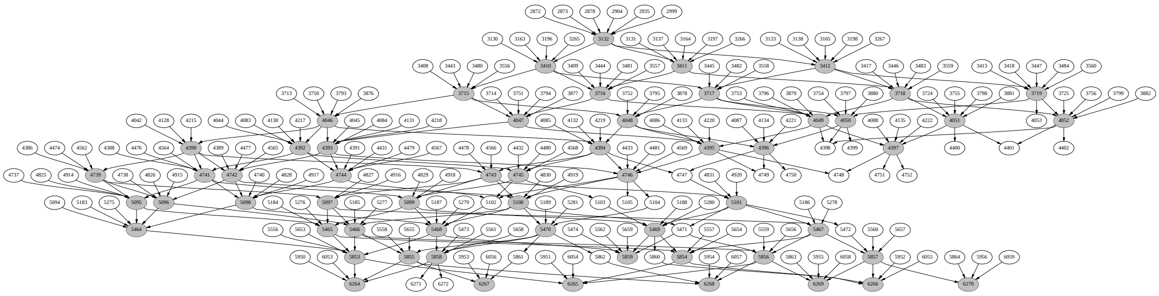
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60