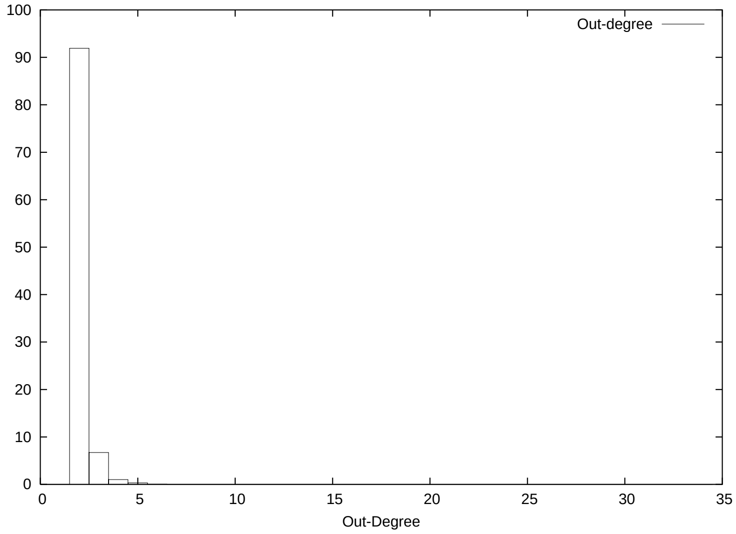
Graph: murphi/sci2

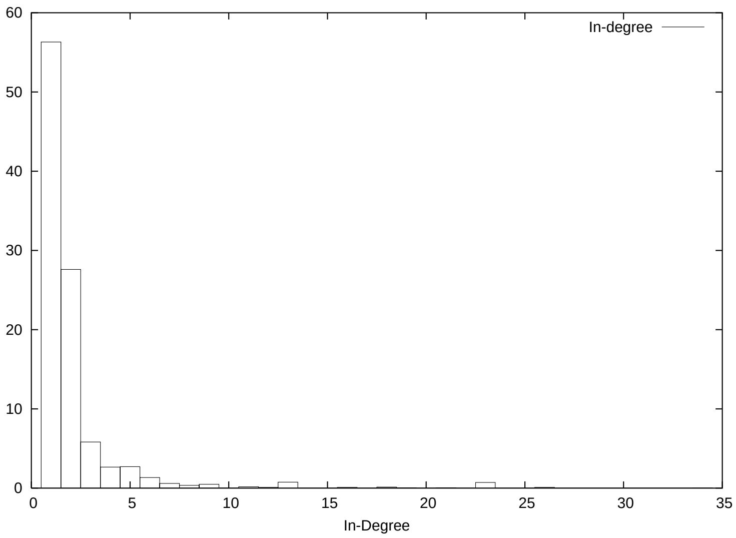
General Info

Example title	Scalable Coherent Interface (SCI)
Parameter	cachesize=1,nummemories=2
Reduction	
Modification	
States	18,059
Edges	37,900
Average degree	2

Out-Degrees distribution:



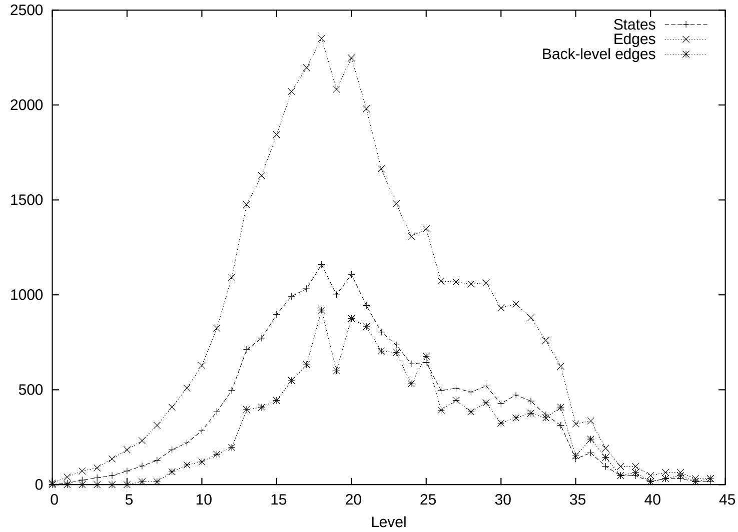
In-Degrees distribution:



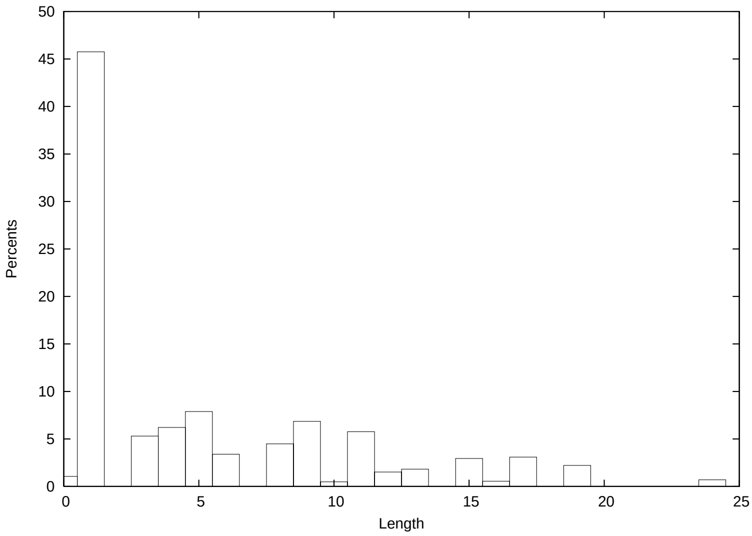
BFS Info

BFS height	44
BFS width	1,160 (6.4%)
Back level edges	13,200 (34.8%)

BFS level info:



Back level edges lengths:



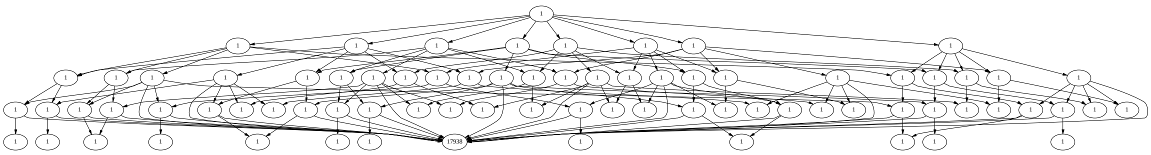
SCC Info

SCC components	106
SCC quetient height	6
SCC quetient nontrivial height	2
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
17,938	1	99.3%
2	16	0.1%
1	89	0.4%

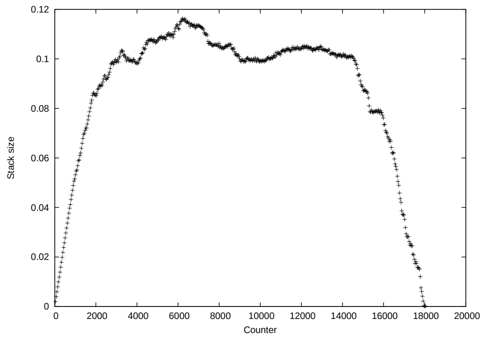
SCC component graph (part):



DFS Info

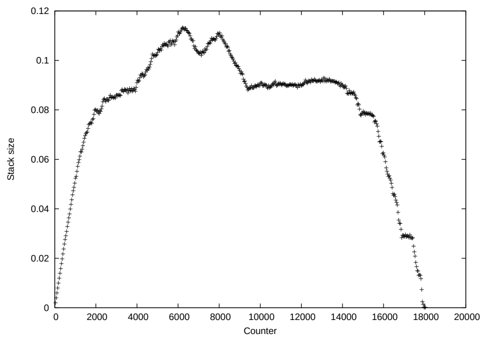
Run 0

front-edges : back-edges : cross-edges = 18,058 : 7,377 : 12,465 = 47.6%:19.4%:32.8%
Max. stack size: 2,104 (11.6%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (1530), 10 (776), 352 (52), 28 (44), 565 (36)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 18,058 : 7,354 : 12,488 = 47.6%:19.4%:32.9%
Max. stack size: 2,048 (11.3%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (1530), 10 (792), 471 (60), 40 (50), 39 (48)
Stack graph:



Local Structure

Short cycles(up to 6)

2	3,128	(17.3%)

Diamonds

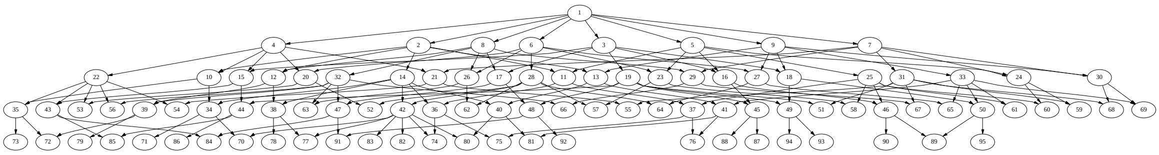
15,923 (88.1%)

Neighborhoods

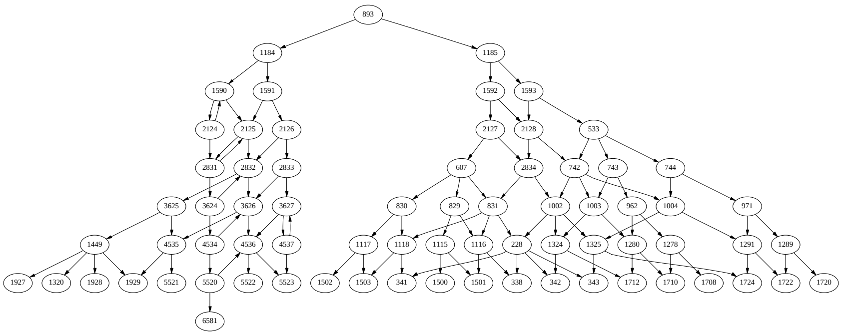
k	avg size	avg clustering
1	3	1
2	6.5	1.2
3	11.7	1.3
4	19.6	1.3

Visualization of some parts of the state state space:

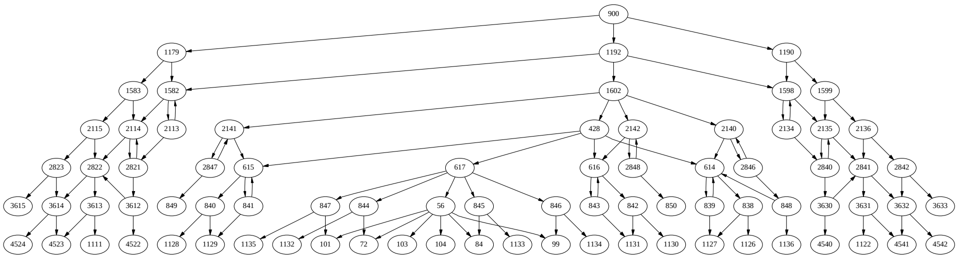
Initial walk length: 0



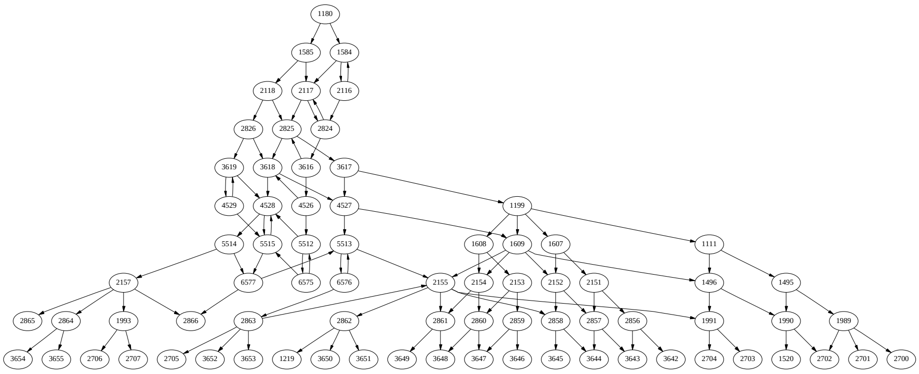
Initial walk length: 20



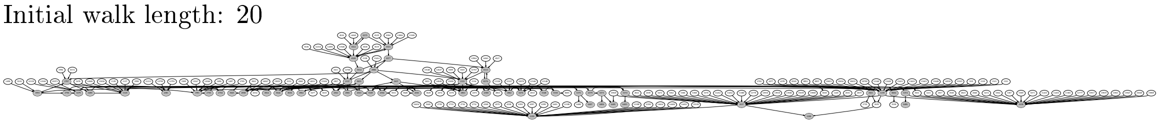
Initial walk length: 40



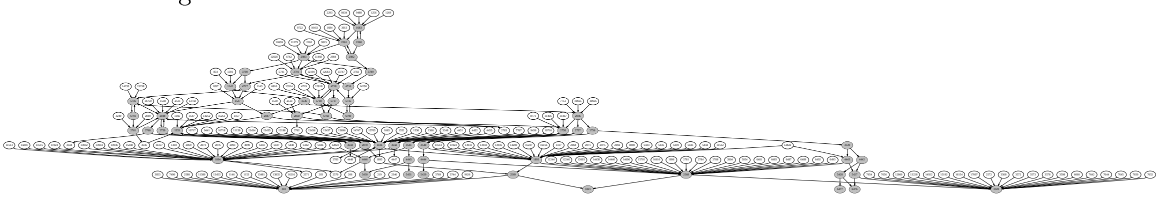
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60