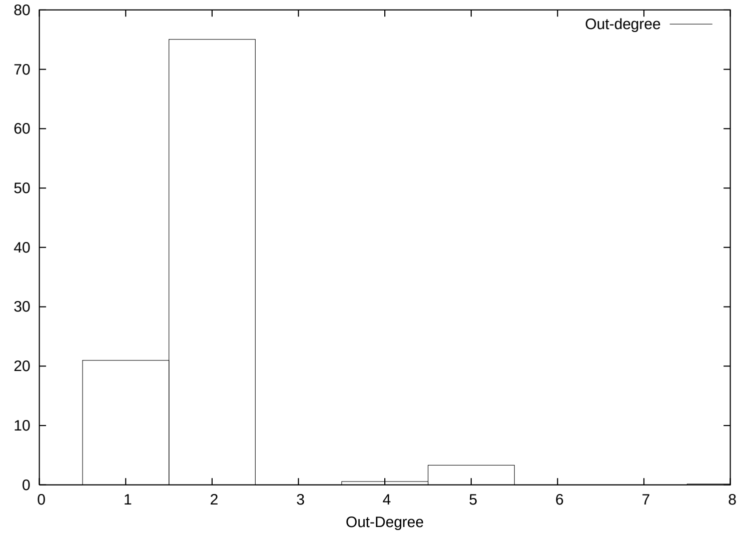
Graph: murphi/sci

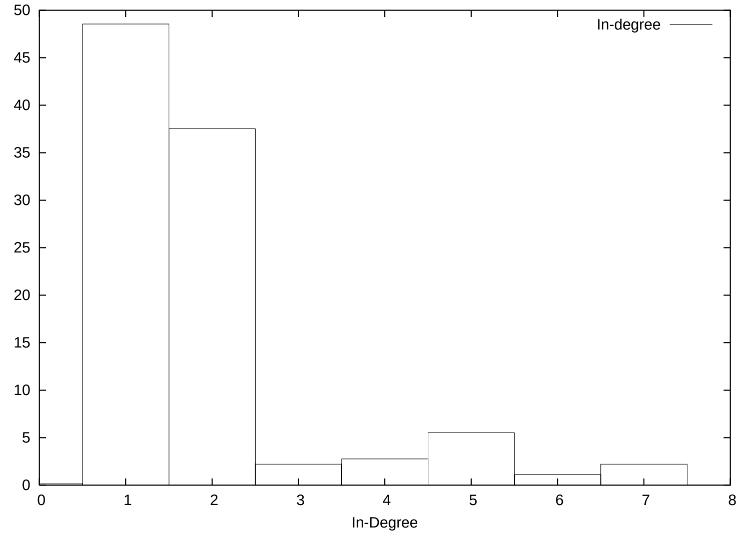
General Info

Example title	Scalable Coherent Interface (SCI)
Parameter	cachesize=2,nummemories=1
Reduction	
Modification	
States	725
Edges	1,384
Average degree	1.9

Out-Degrees distribution:



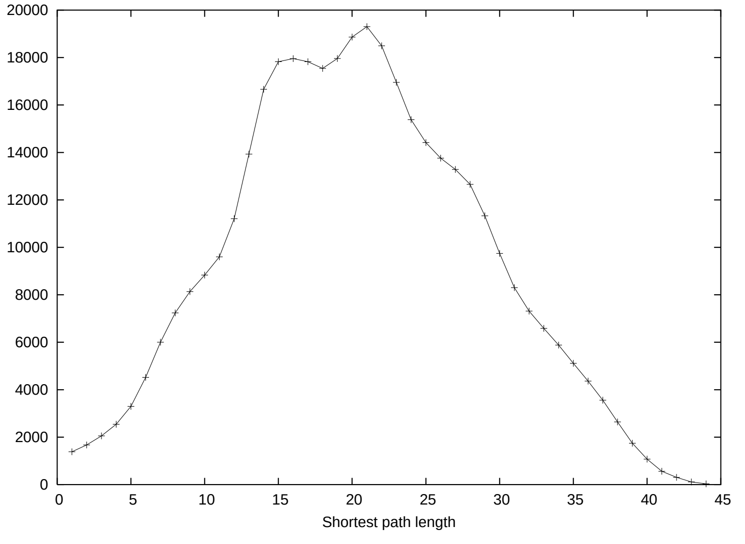
In-Degrees distribution:



Shortest Paths Info

Diameter: 44
Average shortest path length: 20.4183

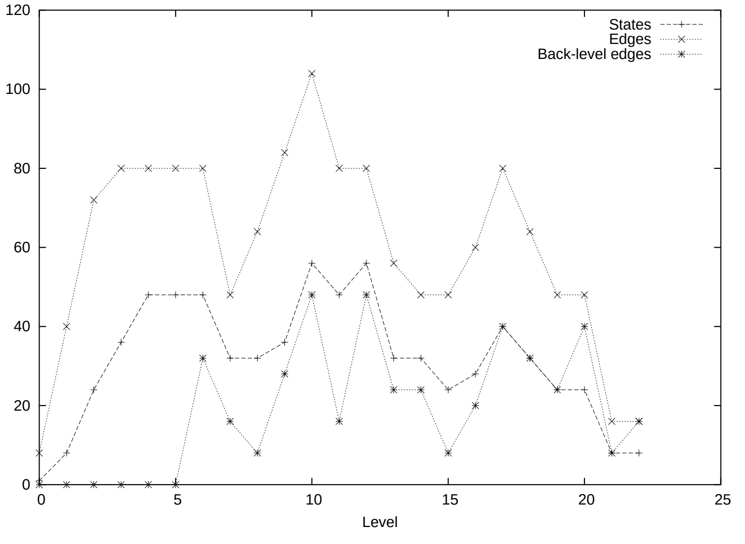
Shortest paths lengths frequencies:



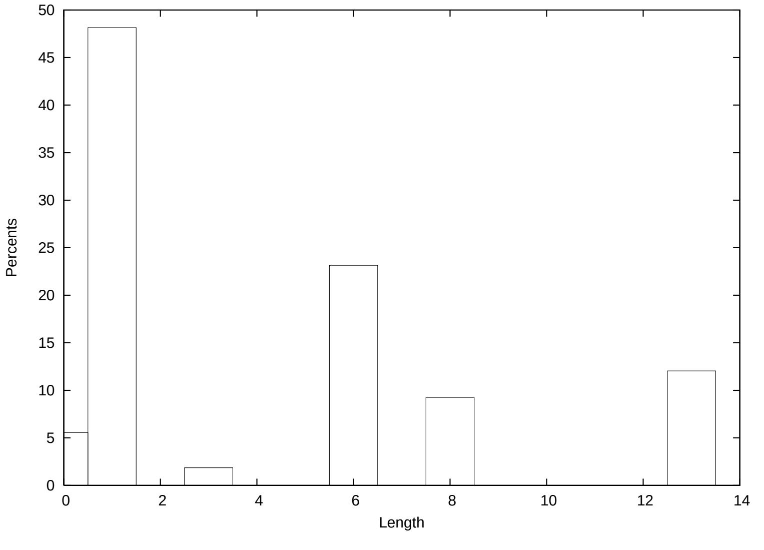
BFS Info

BFS height	22
BFS width	56 (7.7%)
Back level edges	432 (31.2%)

BFS level info:



Back level edges lengths:



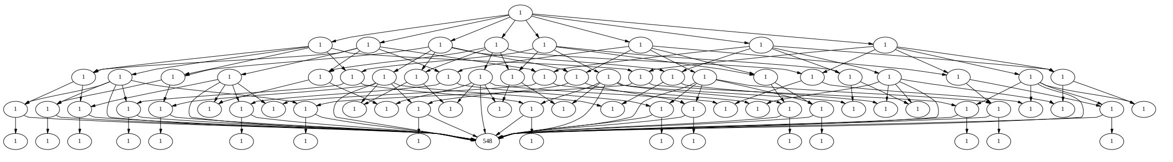
SCC Info

SCC components	146
SCC quetient height	7
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
548	1	75.5%
2	32	8.8%
1	113	15.5%

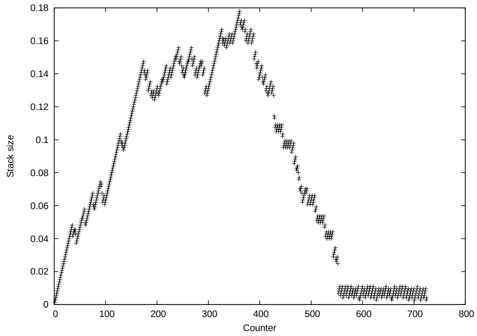
SCC component graph (part):



DFS Info

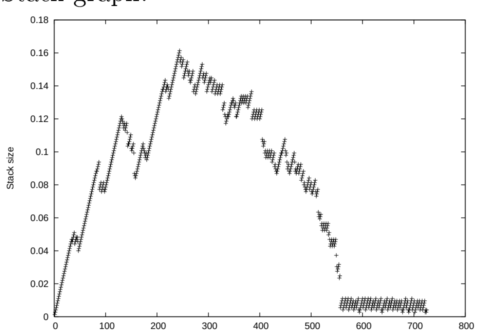
Run 0

front-edges : back-edges : cross-edges = 724 : 216 : 444 = 52.3%:15.6%:32%
Max. stack size: 129 (17.7%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (120), 18 (21), 17 (12), 16 (9), 47 (7)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 724 : 188 : 472 = 52.3%:13.5%:34.1%
Max. stack size: 117 (16.1%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (120), 16 (17), 18 (9), 17 (6), 20 (6)
Stack graph:



Local Structure

Short cycles(up to 6)

2 240 (33.1%)

Diamonds

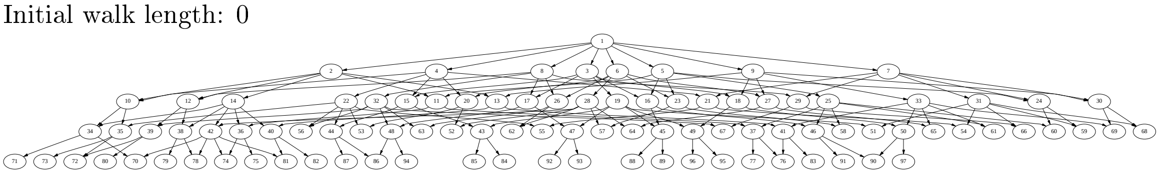
377 (52%)

Neighborhoods

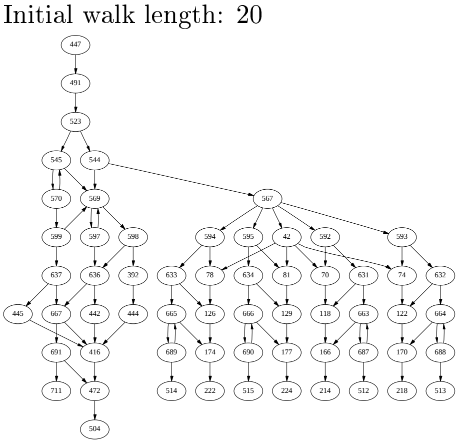
k	avg size	avg clustering
1	2.9	1
2	5.2	1.2
3	8	1.2
4	11.5	1.2

Visualization of some parts of the state state space:

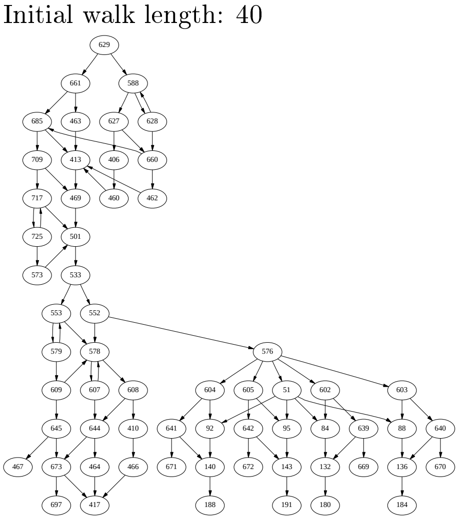
Initial walk length: 0



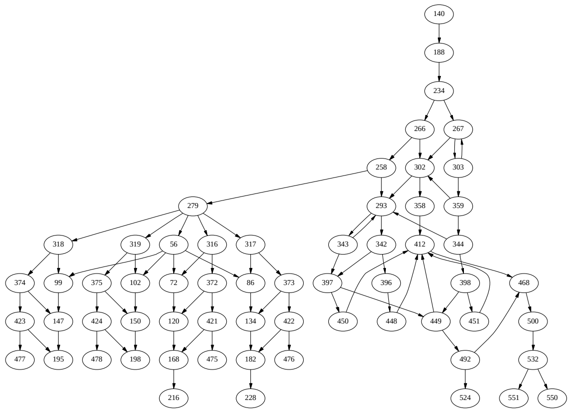
Initial walk length: 20



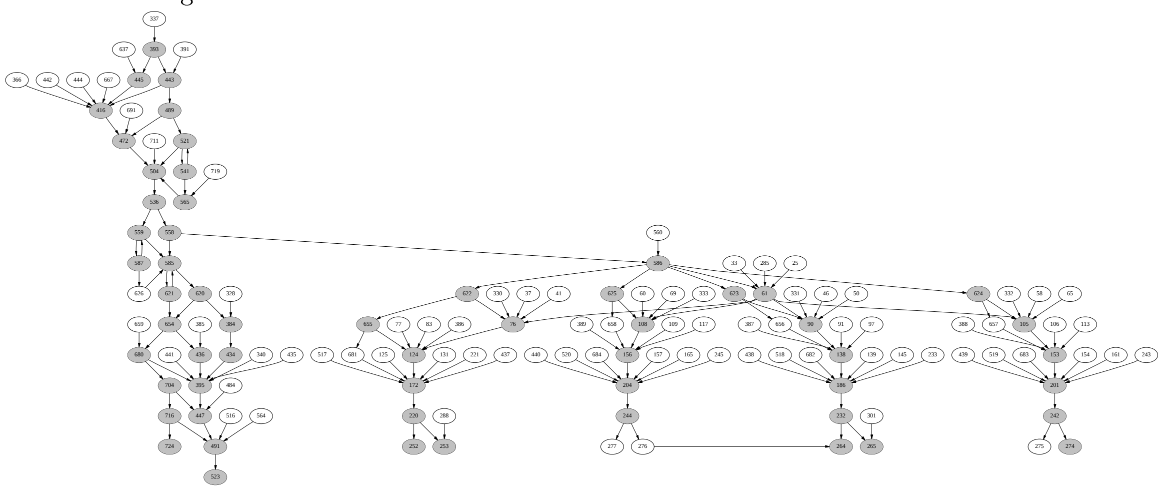
Initial walk length: 40



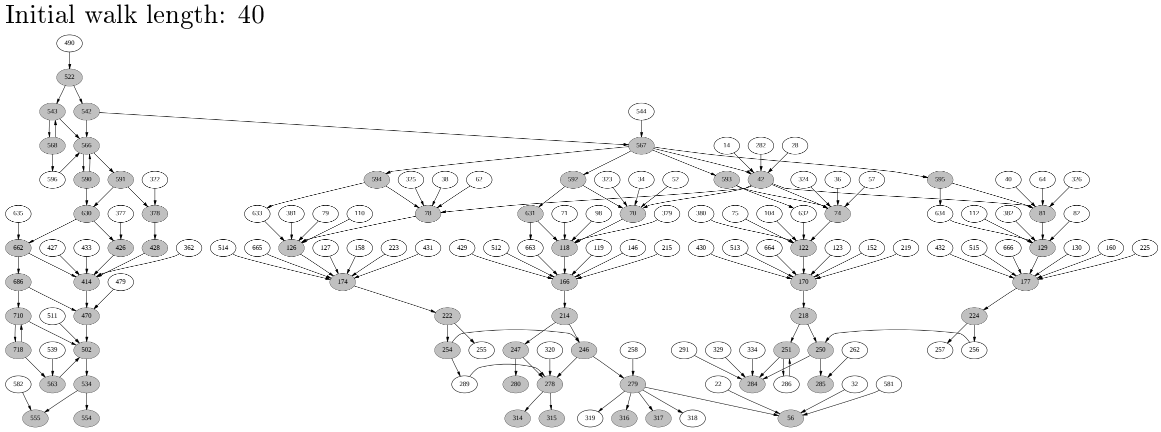
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60