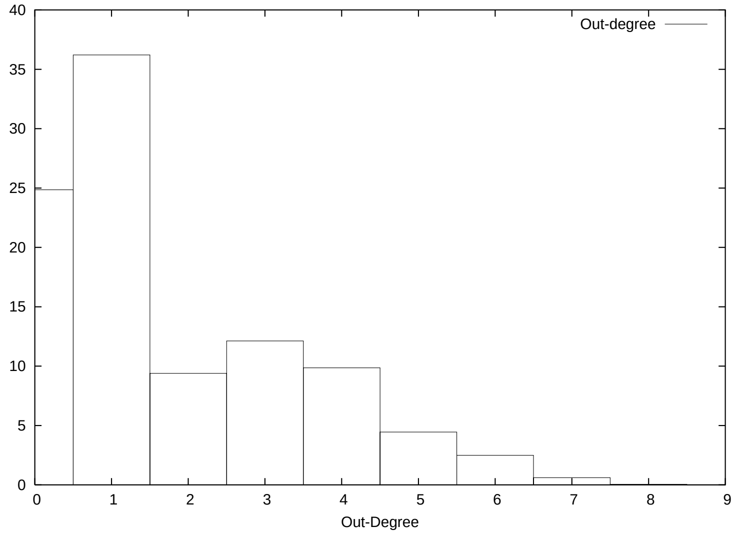
Graph: spin/mobile2.red

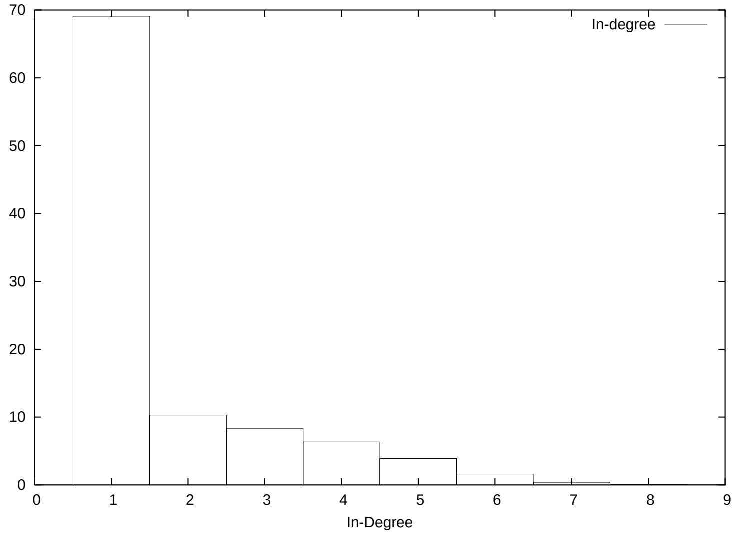
General Info

Example title	Model of cell-phone handoff strategy
Parameter	
Reduction	POR
Modification	simplified version
States	13,924
Edges	24,015
Average degree	1.7

Out-Degrees distribution:



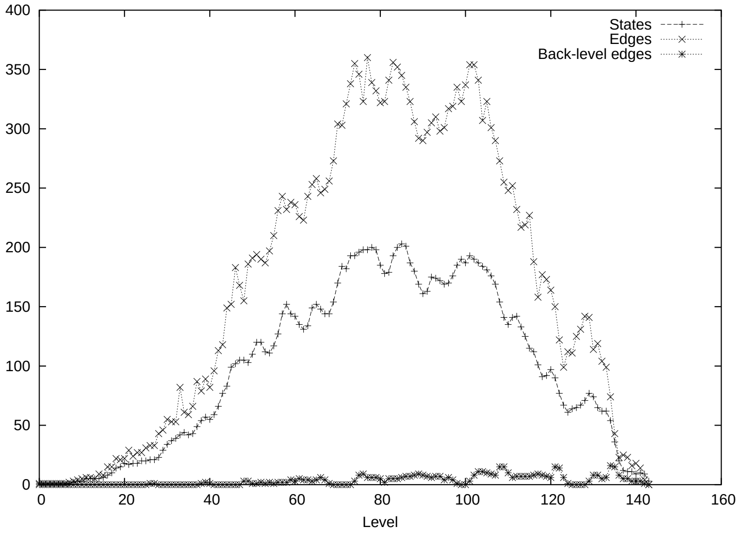
In-Degrees distribution:



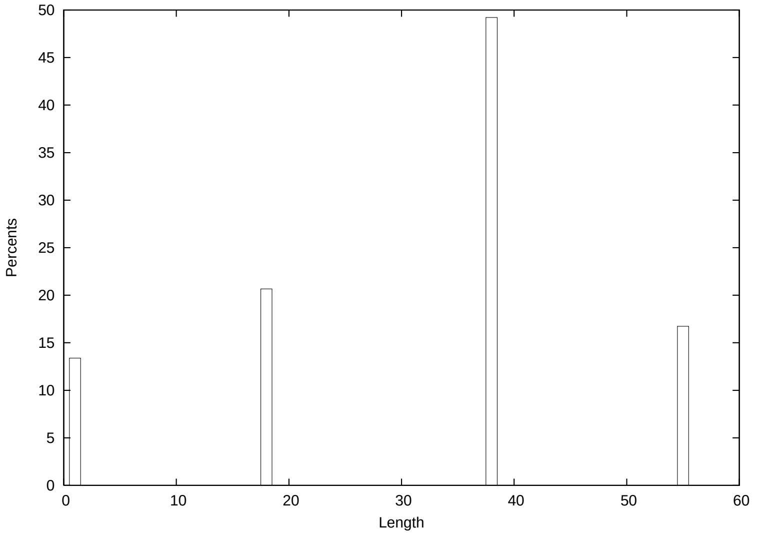
BFS Info

BFS height	143
BFS width	203 (1.4%)
Back level edges	508 (2.1%)

BFS level info:



Back level edges lengths:



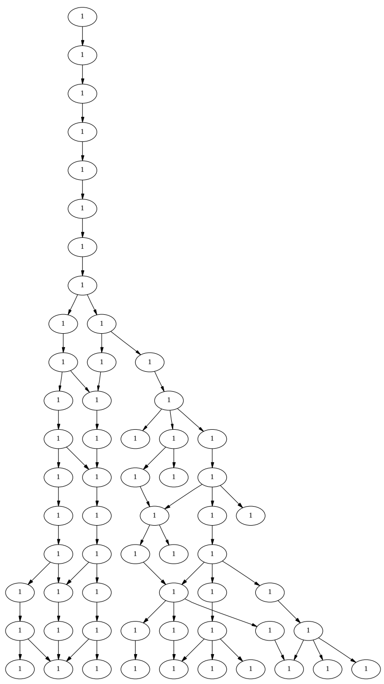
SCC Info

SCC components	5,240
SCC quetient height	70
SCC quetient nontrivial height	7
Number of terminal components	3,460
The largest component is	intermediate

Statistics according to **sizes**:

Size	Number of components	Number of states here
7,416	1	53.2%
795	1	5.7%
270	1	1.9%
144	1	1%
56	1	0.4%
2	8	0.1%
1	5,227	37.5%

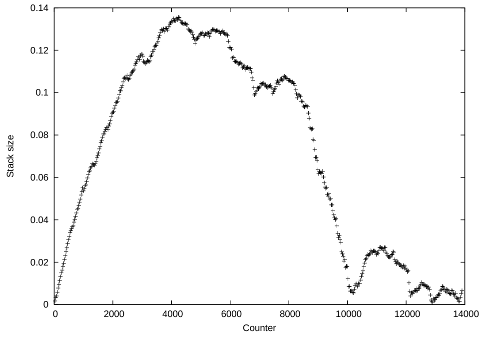
SCC component graph (part):



DFS Info

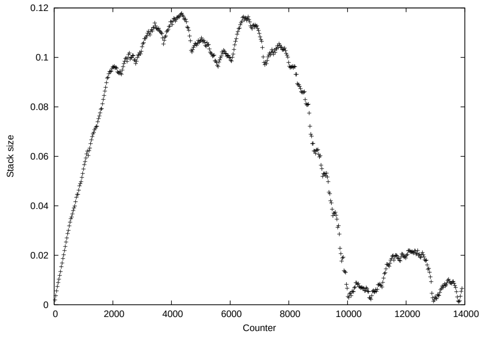
Run 0

front-edges : back-edges : cross-edges = 13,923 : 2,862 : 7,230 = 57.9%:11.9%:30.1%
Max. stack size: 1,896 (13.6%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 39 (206), 116 (99), 535 (87), 77 (86), 459 (73)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 13,923 : 2,906 : 7,186 = 57.9%:12.1%:29.9%
Max. stack size: 1,646 (11.8%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 39 (237), 193 (90), 457 (88), 58 (87), 571 (87)
Stack graph:



Local Structure

Short cycles(up to 6)

2	136	(0.9%)

Diamonds

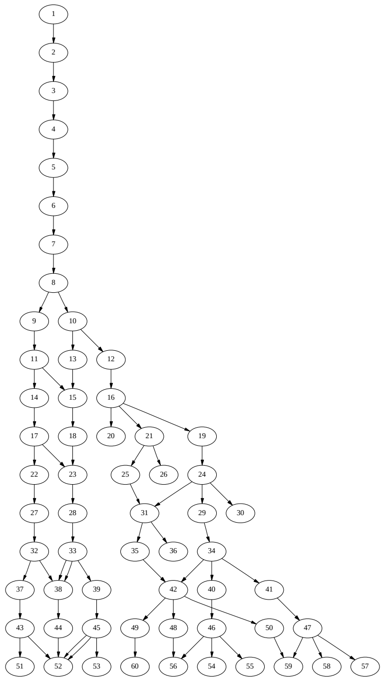
3,464 (24.8%)

Neighborhoods

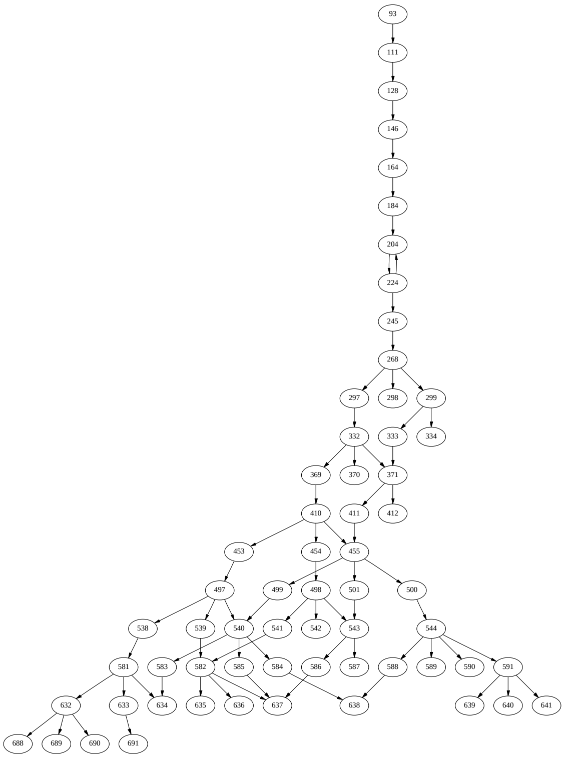
k	avg size	avg clustering
1	2.6	1
2	5.6	1
3	9.6	1.1
4	14.6	1.2

Visualization of some parts of the state state space:

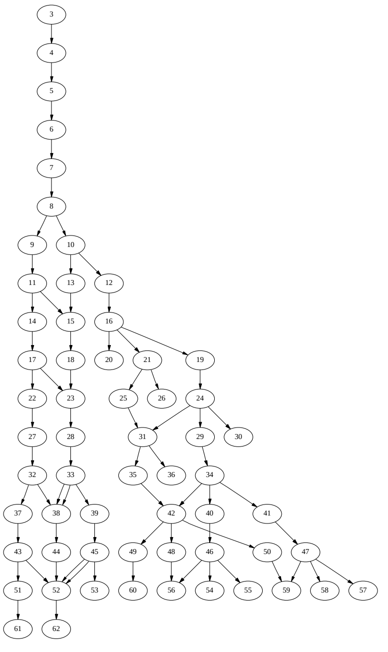
Initial walk length: 0



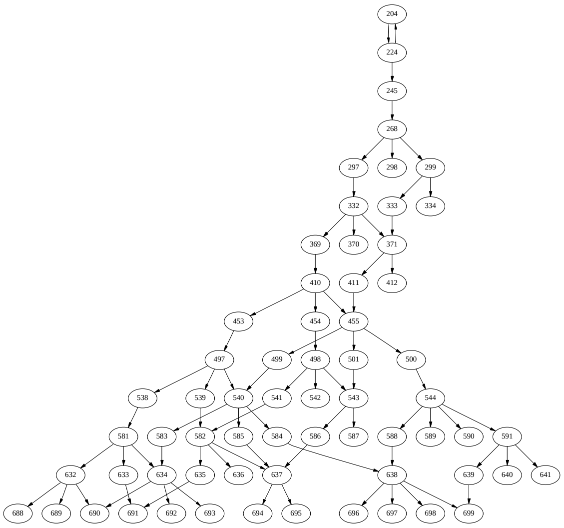
Initial walk length: 20



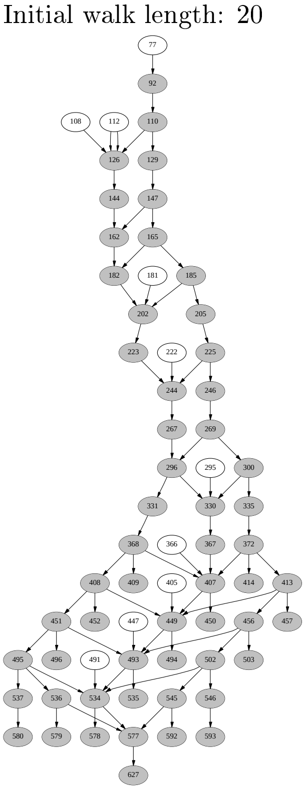
Initial walk length: 40



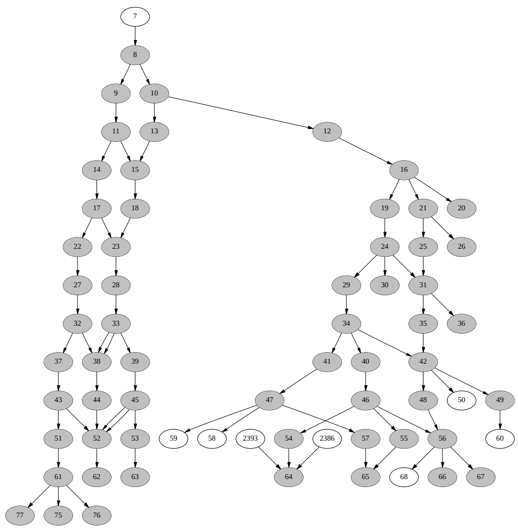
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60