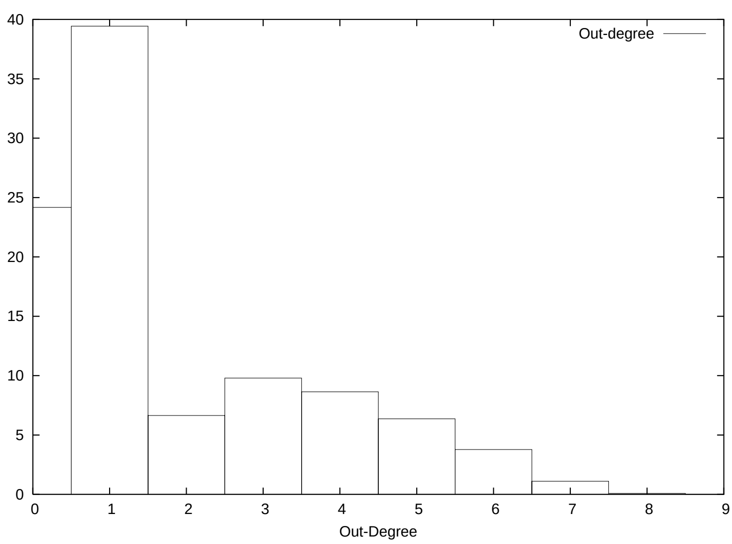
Graph: spin/mobile1.red

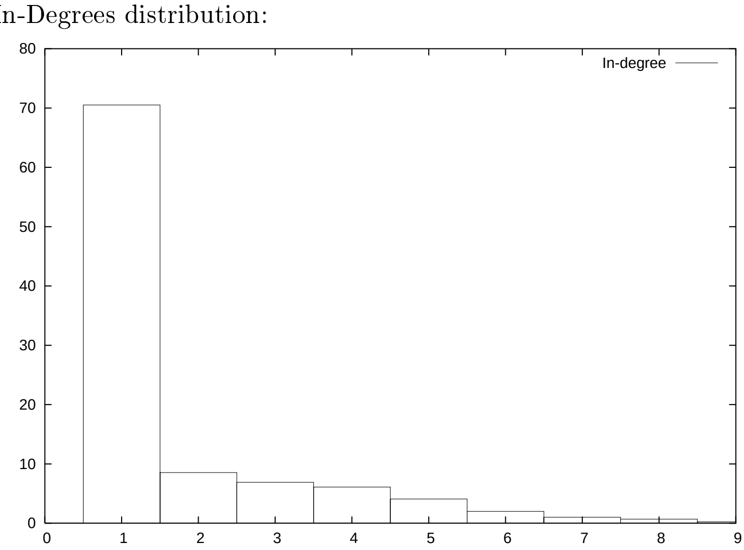
General Info

Example title	Model of cell-phone handoff strategy
Parameter	
Reduction	POR
Modification	
States	66,812
Edges	119,917
Average degree	1.7

Out-Degrees distribution:



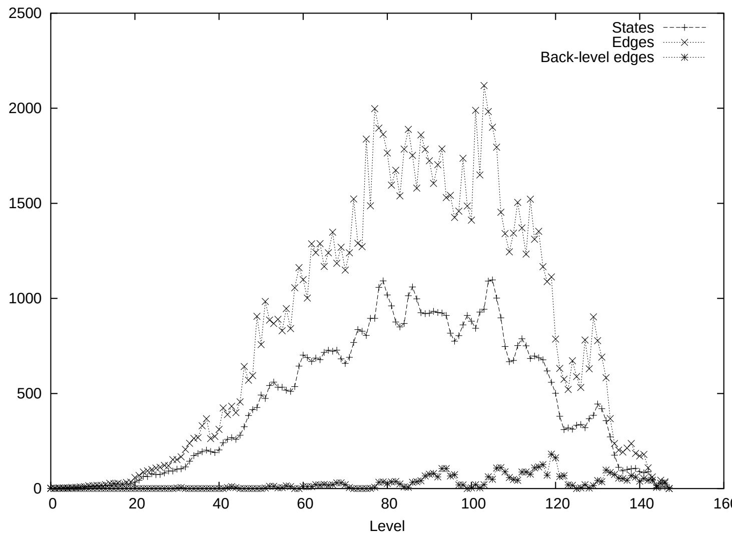
In-Degrees distribution:



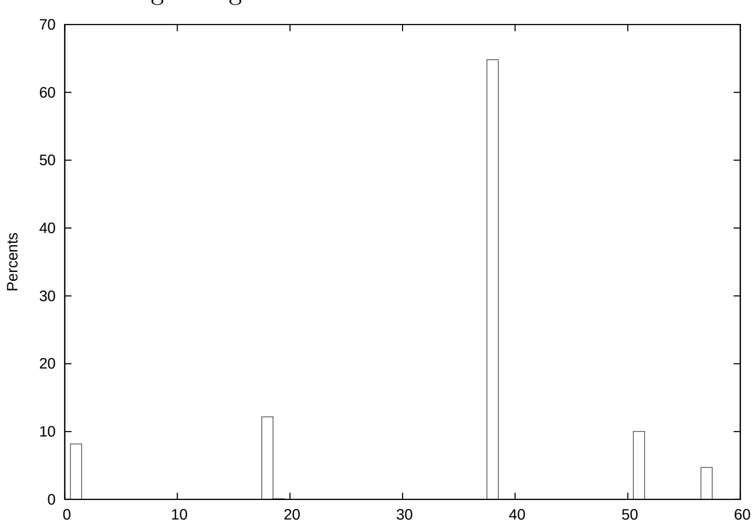
BFS Info

BFS height	147
BFS width	1,097 (1.6%)
Back level edges	3,984 (3.3%)

BFS level info:



Back level edges lengths:



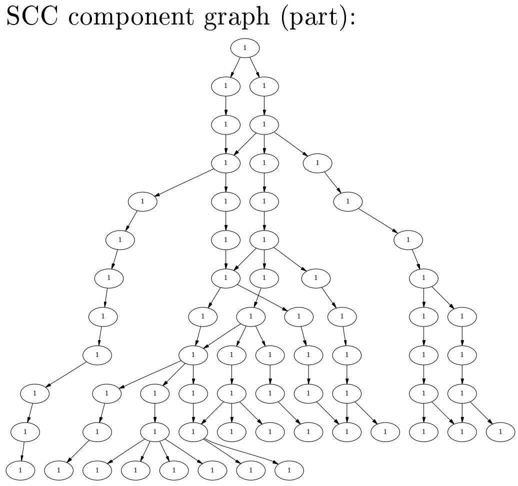
SCC Info

SCC components	25,428
SCC quetient height	89
SCC quetient nontrivial height	10
Number of terminal components	16,149
The largest component is	intermediate

Statistics according to **sizes**:

Size	Number of components	Number of states here
7,674	1	11.4%
7,658	2	22.9%
7,392	1	11%
4,484	1	6.7%
816	3	3.6%
795	1	1.1%
270	10	4%
152	1	0.2%
52	7	0.5%
2	86	0.2%
1	25,315	37.8%

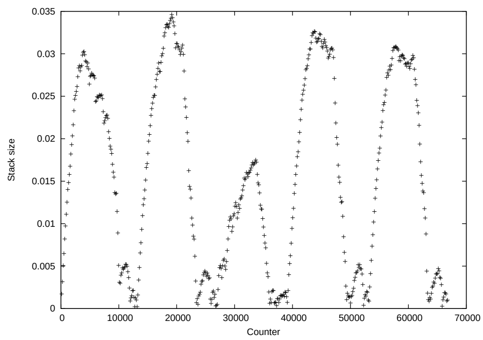
SCC component graph (part):



DFS Info

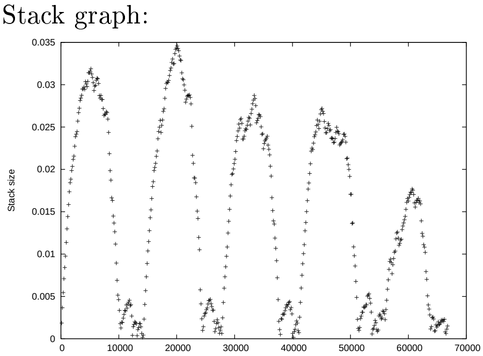
Run 0

front-edges : back-edges : cross-edges = 66,811 : 15,528 : 37,578 = 55.7%:12.9%:31.3%
Max. stack size: 2,323 (3.4%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 39 (900), 78 (344), 2 (326), 77 (234), 58 (229)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 66,811 : 15,186 : 37,920 = 55.7%:12.6%:31.6%
Max. stack size: 2,314 (3.4%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 39 (1020), 78 (378), 58 (339), 2 (326), 130 (194)
Stack graph:



Local Structure

Short cycles(up to 6)

2	652	(0.9%)

Diamonds

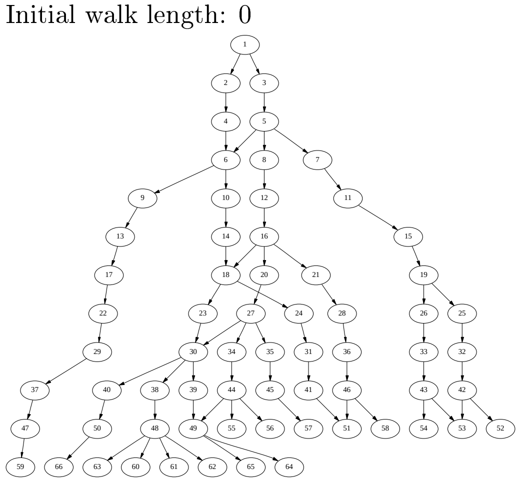
14,985 (22.4%)

Neighborhoods

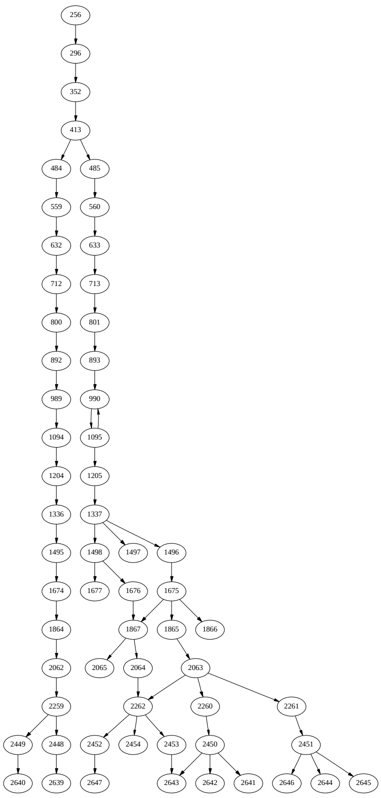
k	avg size	avg clustering
1	2.6	1
2	5.6	1.1
3	9.7	1.1
4	14.8	1.2

Visualization of some parts of the state state space:

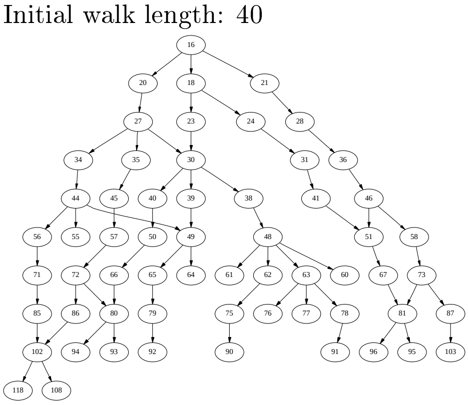
Initial walk length: 0



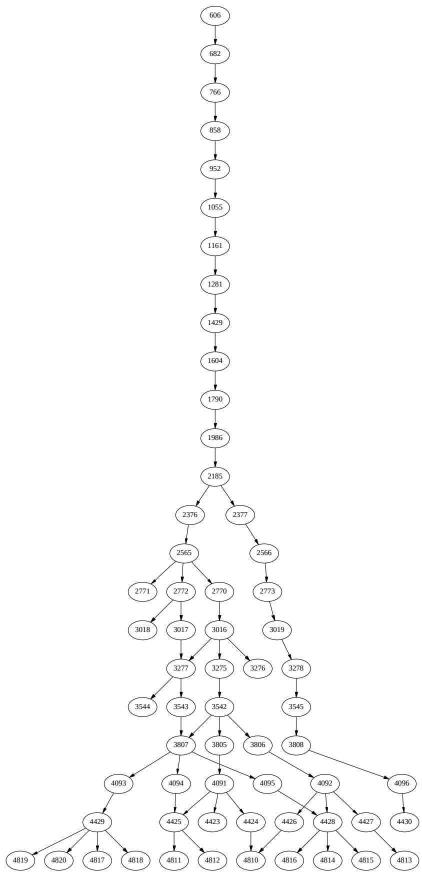
Initial walk length: 20



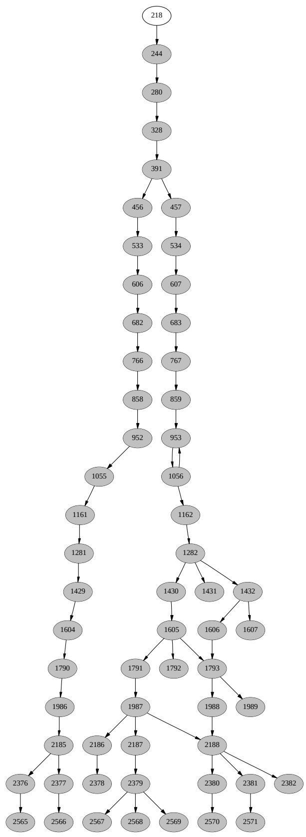
Initial walk length: 40



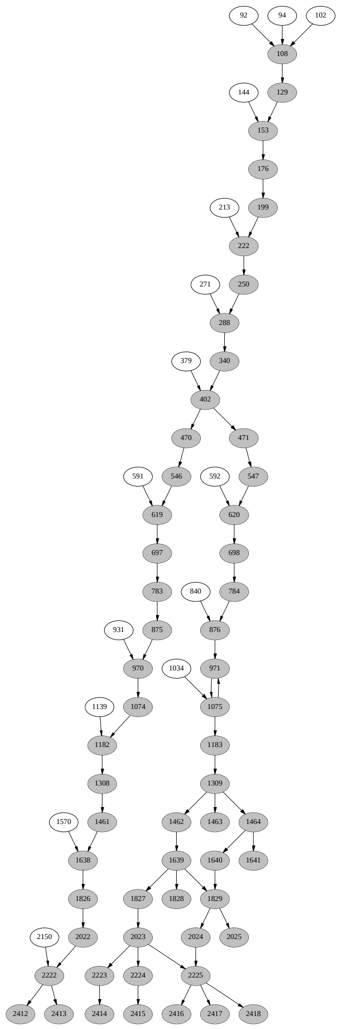
Initial walk length: 60



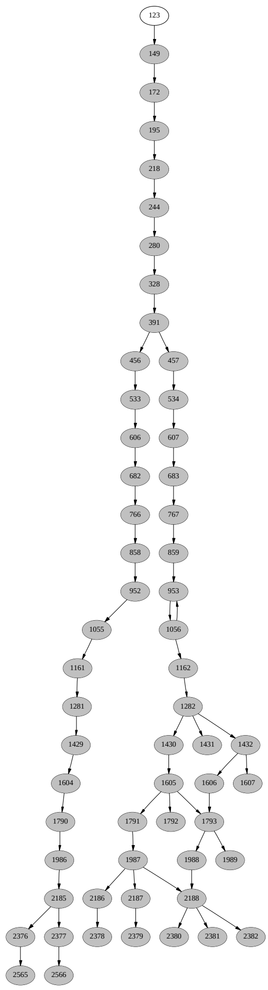
Initial walk length: 20



Initial walk length: 40



Initial walk length: 60


123
149
172
195
218
244
280
328
391
456
457
533
534
606
607
682
683
766
767
858
859
952
953
1055
1056
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2566