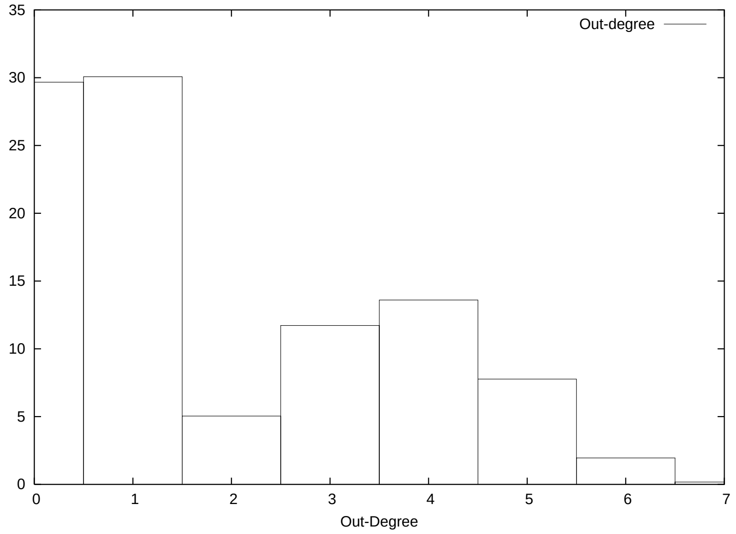
Graph: spin/mobile1

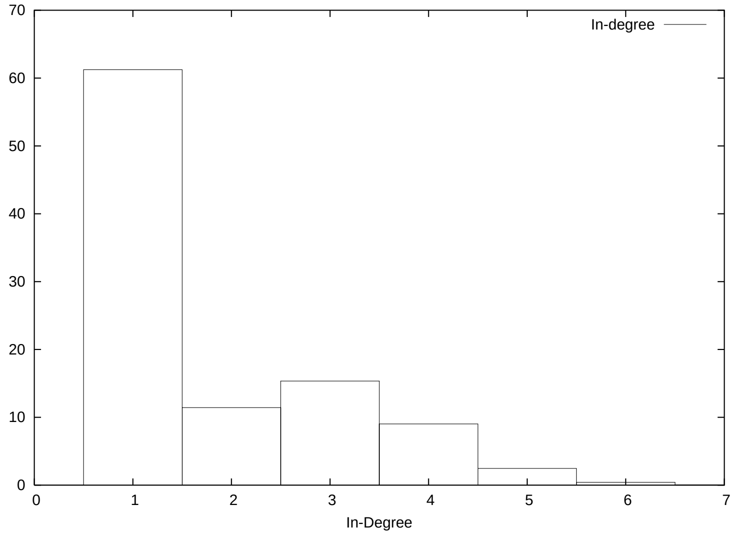
General Info

Example title	Model of cell-phone handoff strategy
Parameter	
Reduction	
Modification	
States	225,670
Edges	409,596
Average degree	1.8

Out-Degrees distribution:



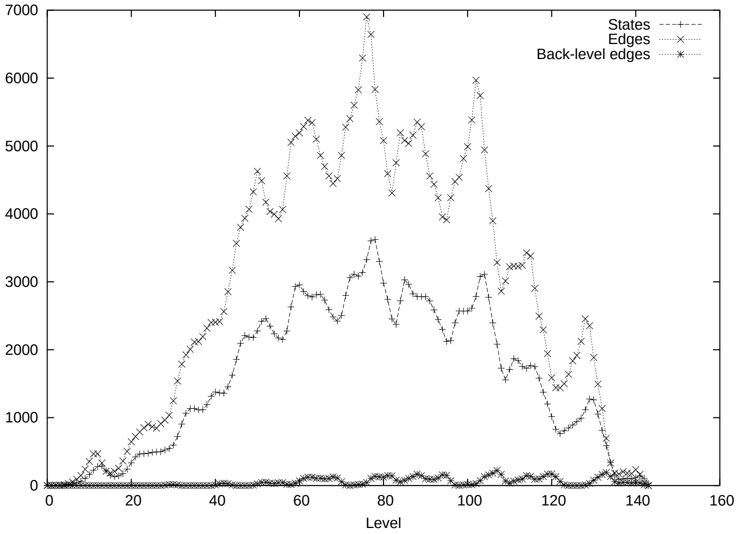
In-Degrees distribution:



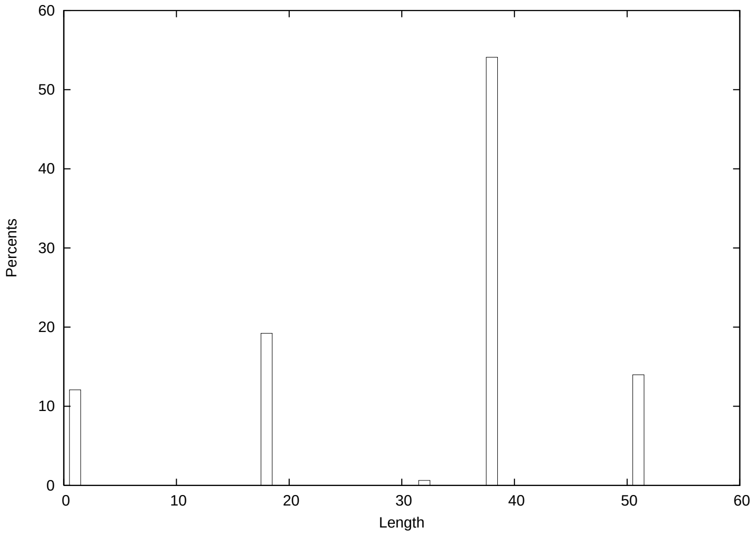
BFS Info

BFS height	143
BFS width	3,623 (1.6%)
Back level edges	7,557 (1.8%)

BFS level info:



Back level edges lengths:



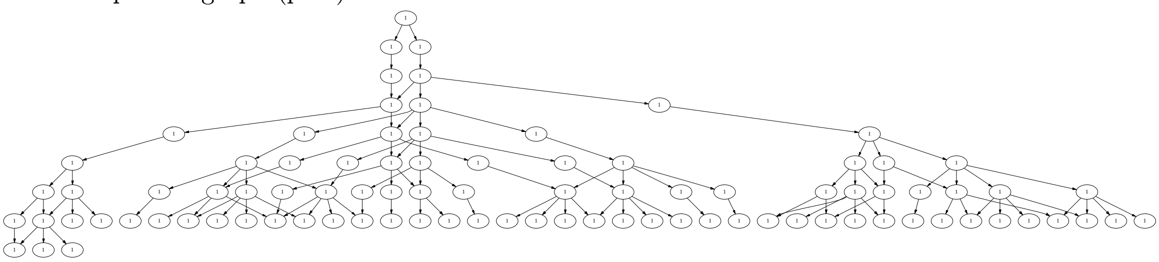
SCC Info

SCC components	104,716
SCC quetient height	89
SCC quetient nontrivial height	12
Number of terminal components	66,951
The largest component is	intermediate

Statistics according to **sizes**:

Size	Number of components	Number of states here
9,264	8	32.8%
5,856	2	5.1%
876	21	8.1%
324	40	5.7%
224	16	1.5%
2	277	0.2%
1	104,352	46.2%

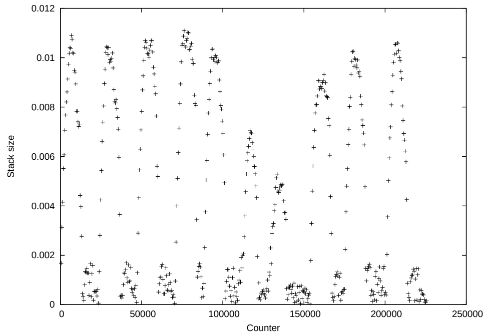
SCC component graph (part):



DFS Info

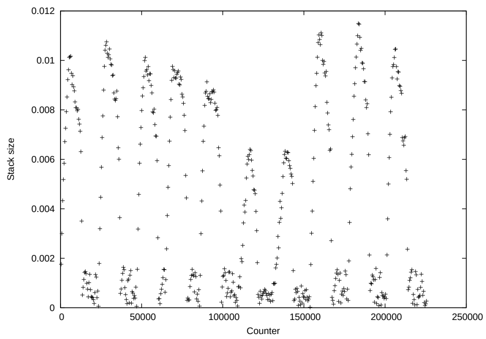
Run 0

front-edges : back-edges : cross-edges = 225,669 : 40,458 : 143,469 = 55%:9.8%:35%
Max. stack size: 2,526 (1.1%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 39 (4046), 78 (1948), 2 (912), 58 (775), 77 (734)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 225,669 : 40,675 : 143,252 = 55%:9.9%:34.9%
Max. stack size: 2,625 (1.1%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 39 (3960), 78 (1773), 77 (1000), 2 (913), 58 (912)
Stack graph:



Local Structure

Short cycles(up to 6)

2	1,826	(0.8%)

Diamonds

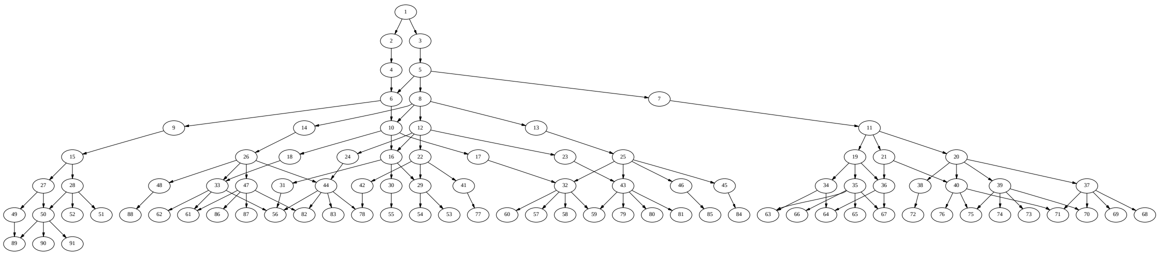
71,148 (31.5%)

Neighborhoods

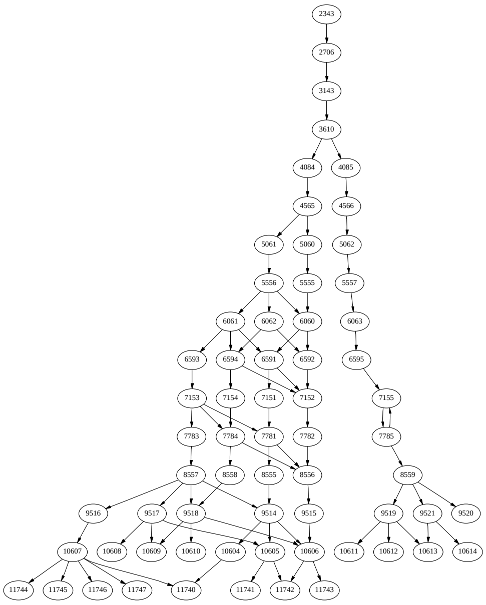
k	avg size	avg clustering
1	2.8	1
2	6.5	1
3	11.9	1.1
4	18.6	1.2

Visualization of some parts of the state state space:

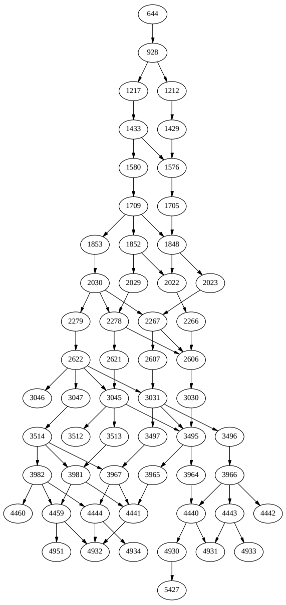
Initial walk length: 0



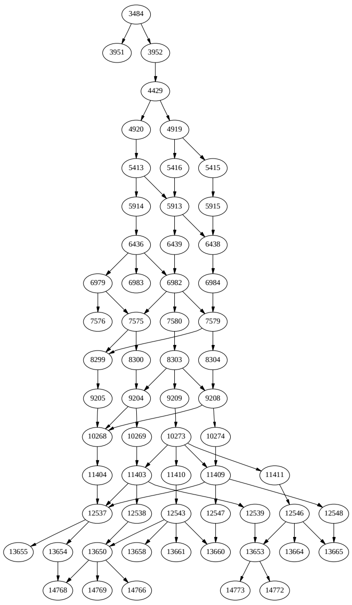
Initial walk length: 20



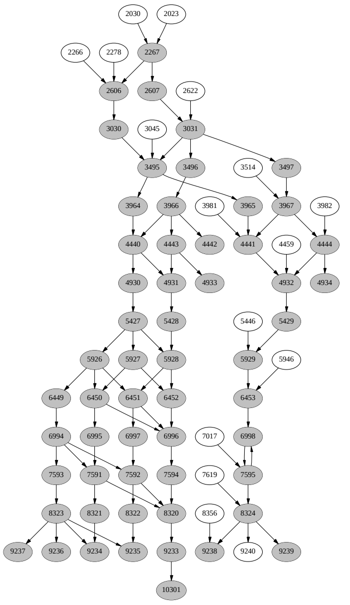
Initial walk length: 40



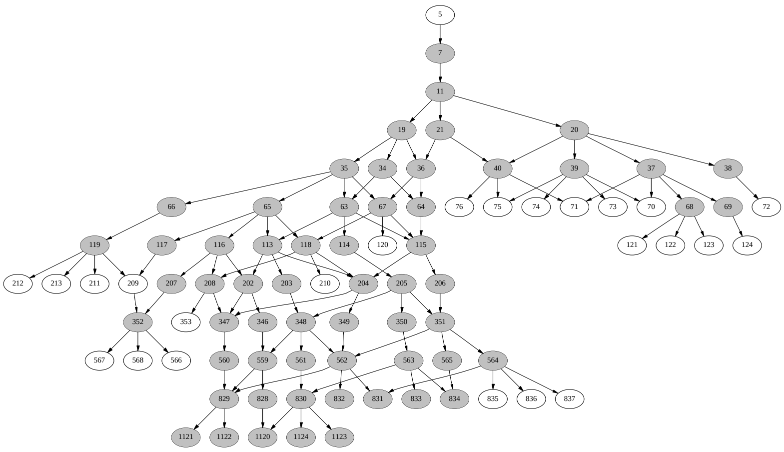
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60