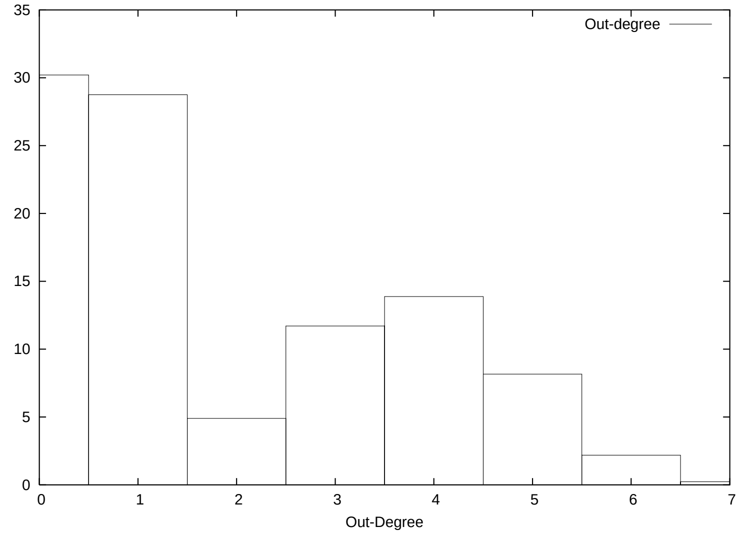
Graph: spin/mobile2

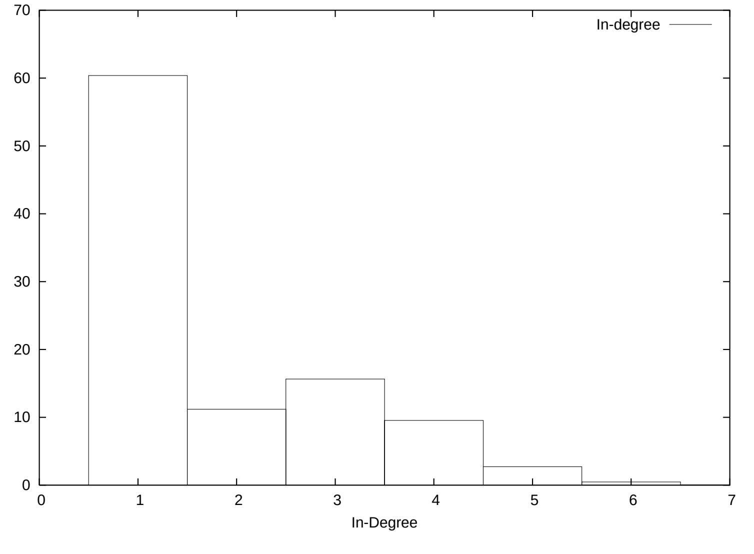
General Info

Example title	Model of cell-phone handoff strategy
Parameter	
Reduction	
Modification	simplified version
States	25,339
Edges	46,779
Average degree	1.8

Out-Degrees distribution:



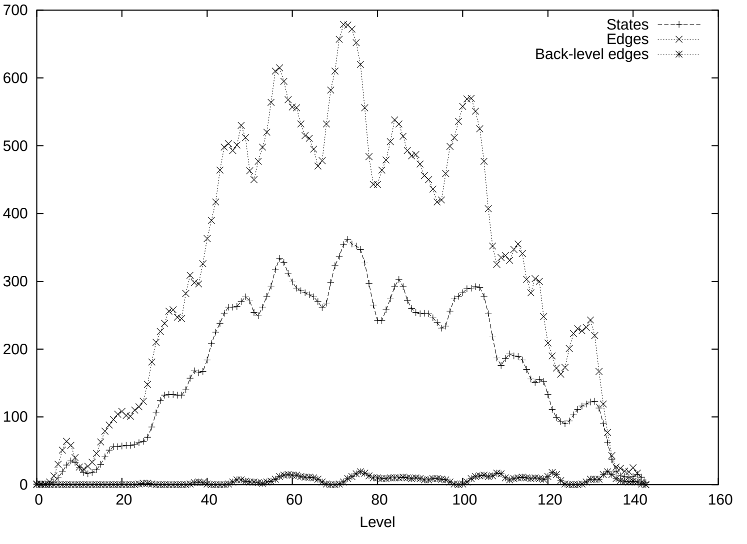
In-Degrees distribution:



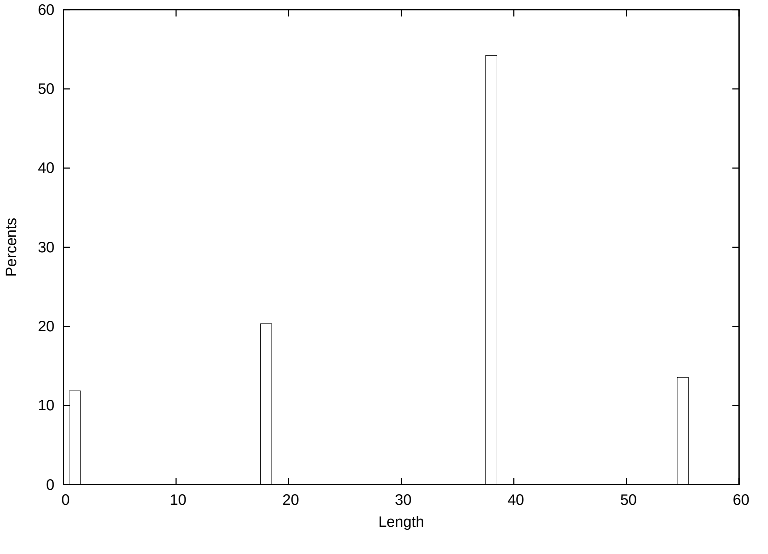
BFS Info

BFS height	143
BFS width	362 (1.4%)
Back level edges	826 (1.7%)

BFS level info:



Back level edges lengths:



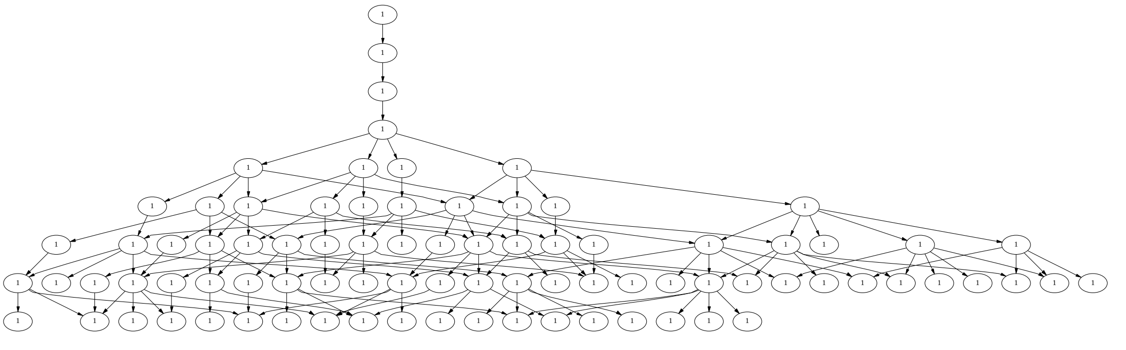
SCC Info

SCC components	11,574
SCC quetient height	71
SCC quetient nontrivial height	8
Number of terminal components	7,654
The largest component is	intermediate

Statistics according to **sizes**:

Size	Number of components	Number of states here
9,648	1	38%
876	3	10.3%
324	3	3.8%
256	2	2%
2	14	0.1%
1	11,551	45.5%

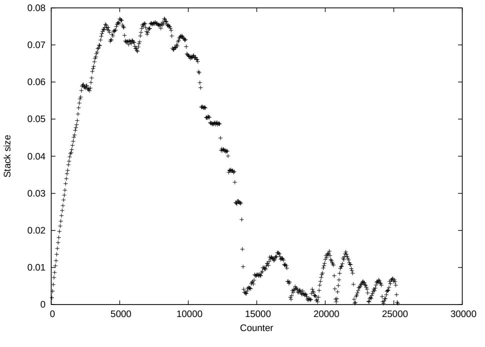
SCC component graph (part):



DFS Info

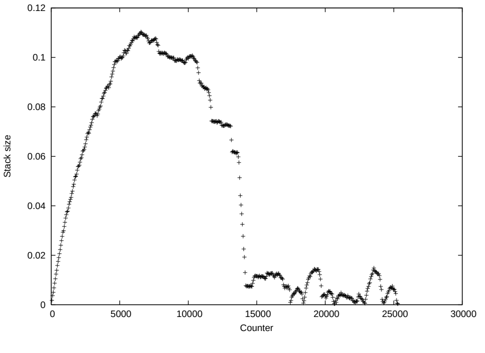
Run 0

front-edges : back-edges : cross-edges = 25,338 : 4,199 : 17,242 = 54.1%:8.9%:36.8%
Max. stack size: 1,966 (7.7%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 39 (440), 77 (218), 78 (181), 135 (125), 193 (117)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 25,338 : 4,757 : 16,684 = 54.1%:10.1%:35.6%
Max. stack size: 2,804 (11%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 39 (316), 77 (166), 116 (163), 517 (146), 78 (126)
Stack graph:



Local Structure

Short cycles(up to 6)

2	196	(0.7%)

Diamonds

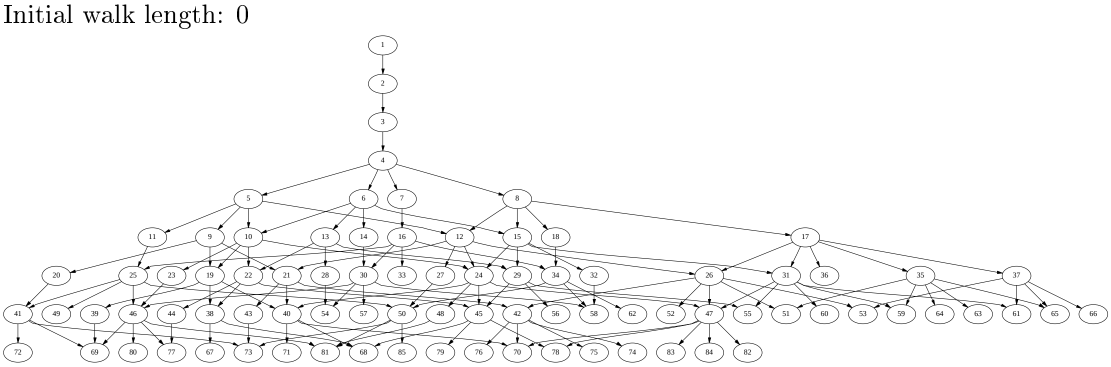
8,288 (32.7%)

Neighborhoods

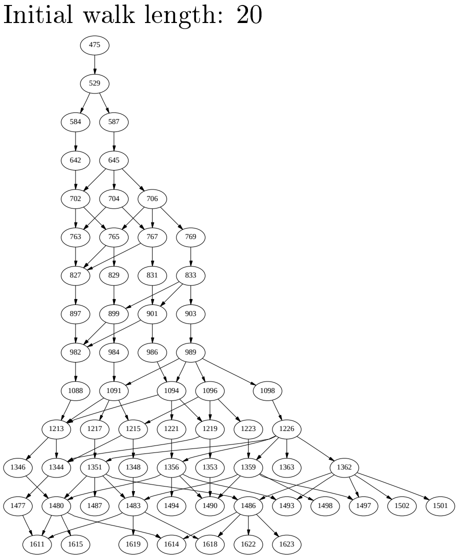
k	avg size	avg clustering
1	2.8	1
2	6.6	1
3	12.1	1.1
4	19	1.2

Visualization of some parts of the state state space:

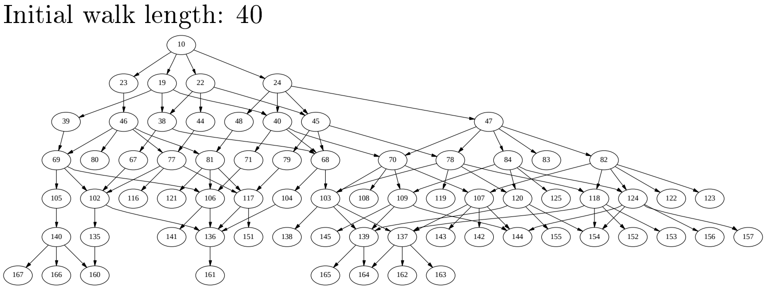
Initial walk length: 0



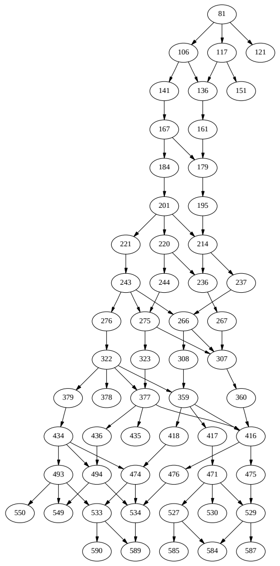
Initial walk length: 20



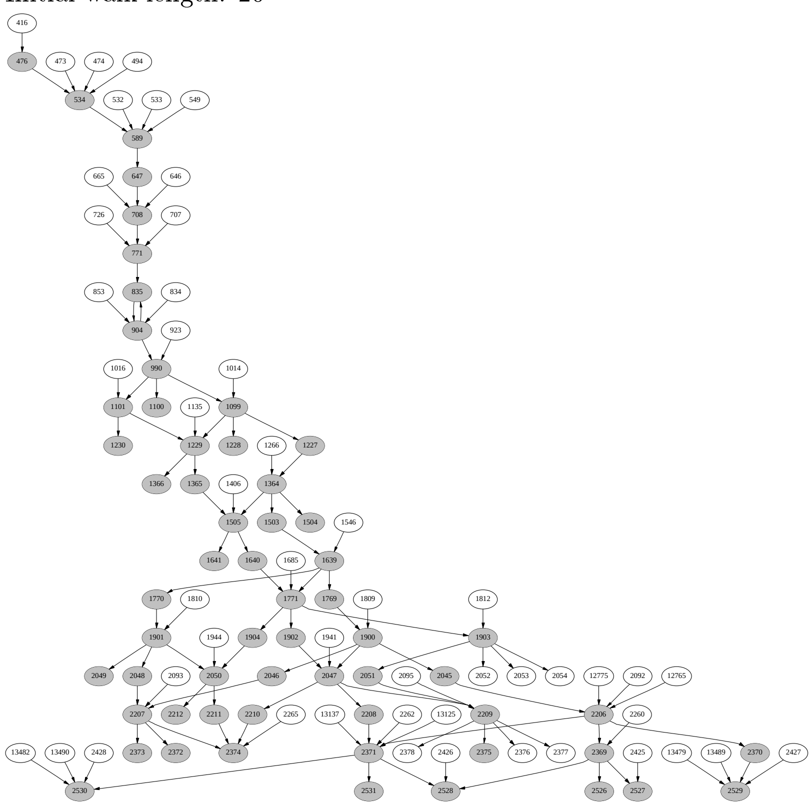
Initial walk length: 40



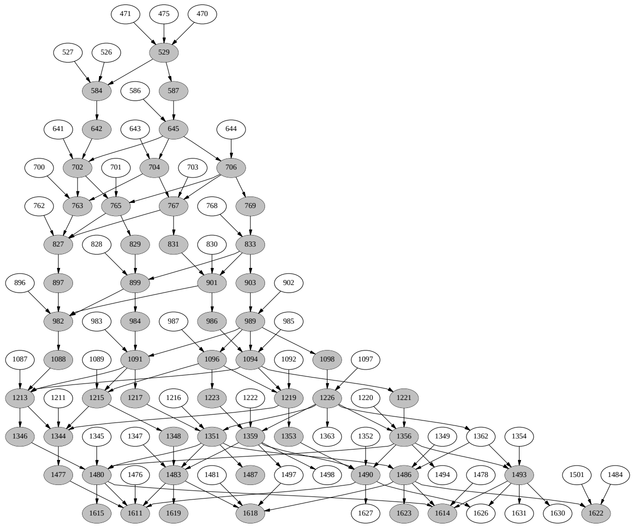
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60