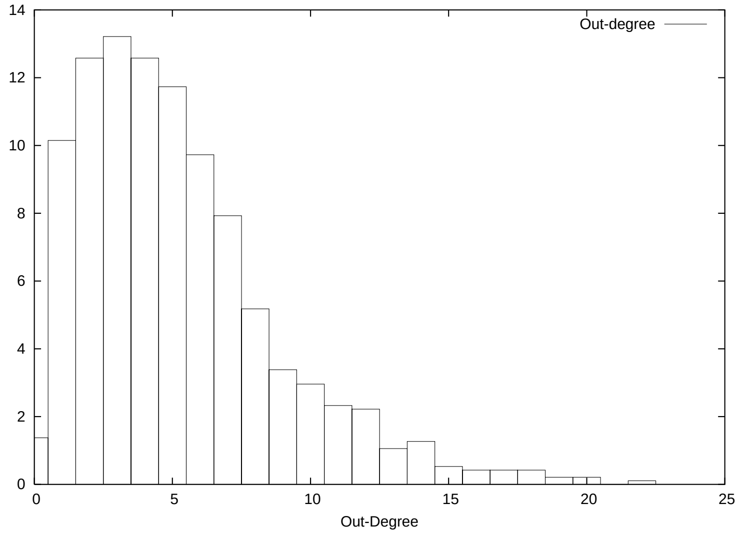
Graph: other/roget

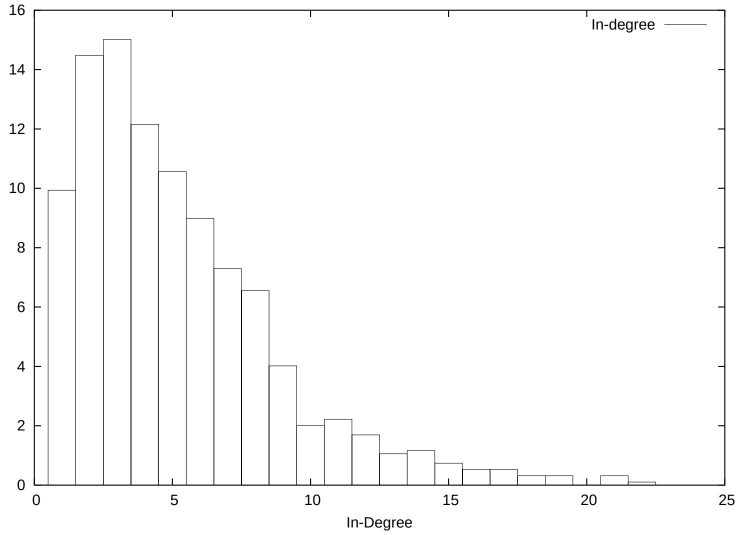
General Info

Example title	Roget's Thesaurus
Parameter	
Reduction	
Modification	
States	946
Edges	4,948
Average degree	5.2

Out-Degrees distribution:



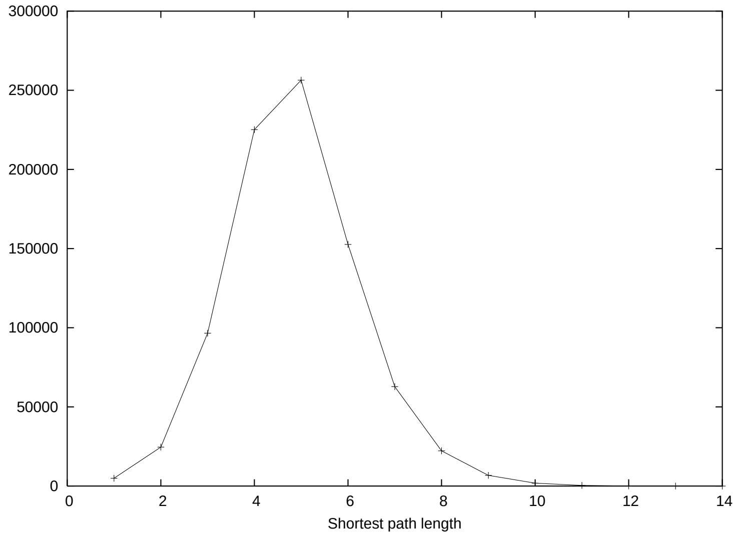
In-Degrees distribution:



Shortest Paths Info

Diameter: 14
Average shortest path length: 4.85044

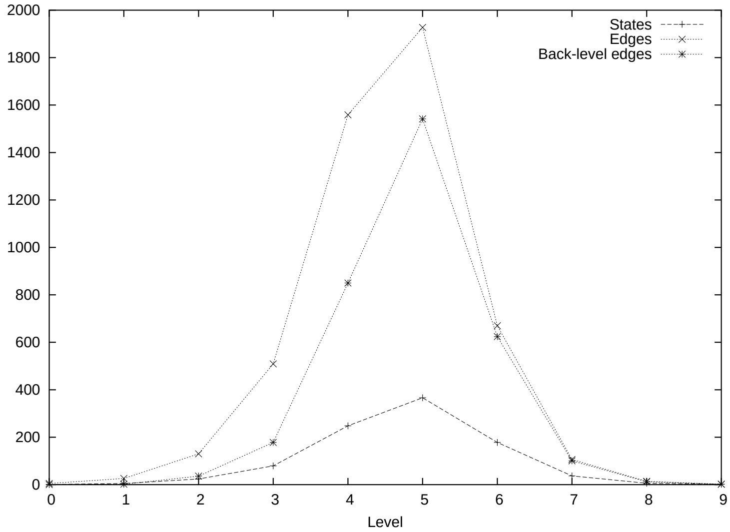
Shortest paths lengths frequencies:



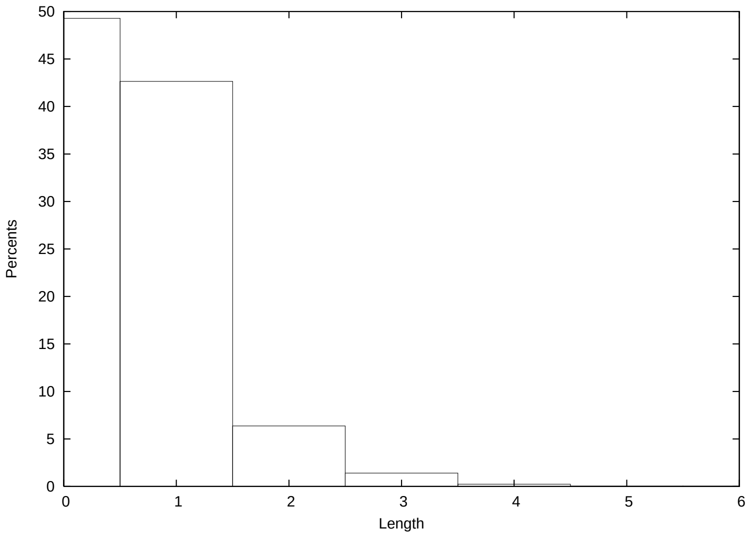
BFS Info

BFS height	9
BFS width	366 (38.6%)
Back level edges	3,346 (67.6%)

BFS level info:



Back level edges lengths:



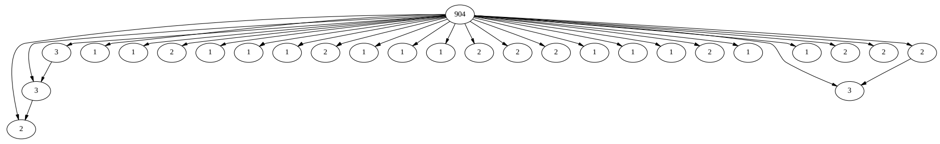
SCC Info

SCC components	27
SCC quetient height	3
SCC quetient nontrivial height	3
Number of terminal components	23
The largest component is	initial

Statistics according to **sizes**:

Size	Number of components	Number of states here
904	1	95.5%
3	3	0.9%
2	10	2.1%
1	13	1.3%

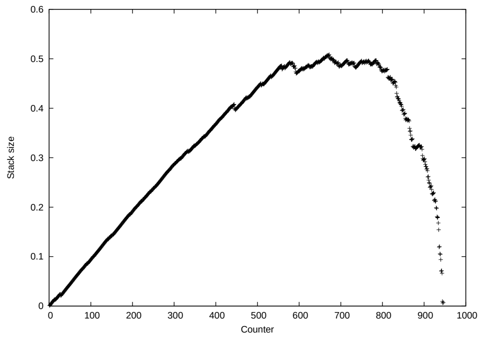
SCC component graph (part):



DFS Info

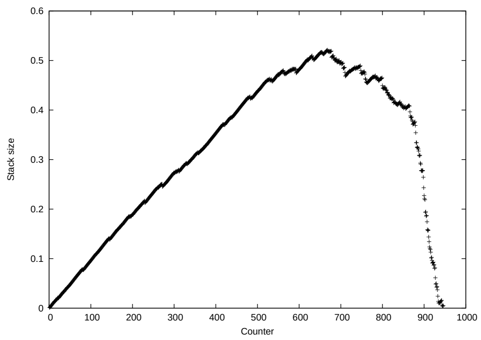
Run 0

front-edges : back-edges : cross-edges = 945 : 2,406 : 1,597 = 19%:48.6%:32.2%
Max. stack size: 481 (50.8%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (588), 3 (79), 4 (41), 5 (27), 6 (20)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 945 : 2,325 : 1,678 = 19%:46.9%:33.9%
Max. stack size: 493 (52.1%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (592), 3 (66), 4 (34), 5 (26), 6 (19)
Stack graph:



Local Structure

Short cycles(up to 6)

2	910	(96.1%)
3	7	(0.7%)
4	3	(0.3%)
5	5	(0.5%)
6	6	(0.6%)

Diamonds

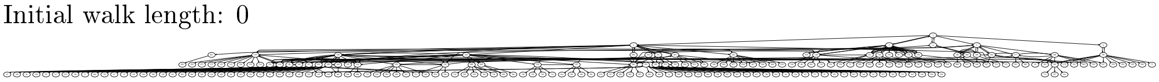
742 (78.4%)

Neighborhoods

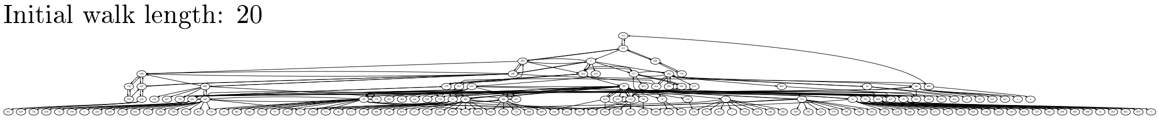
k	avg size	avg clustering
1	6.2	1
2	32.2	1.2
3	134.2	1.5
4	372.2	2.1

Visualization of some parts of the state state space:

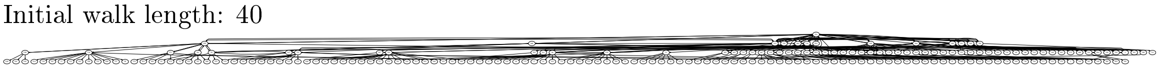
Initial walk length: 0



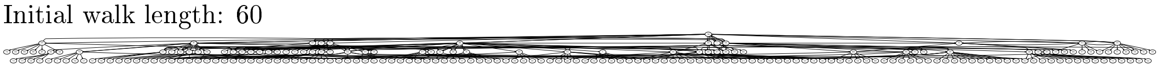
Initial walk length: 20



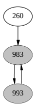
Initial walk length: 40



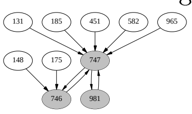
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60