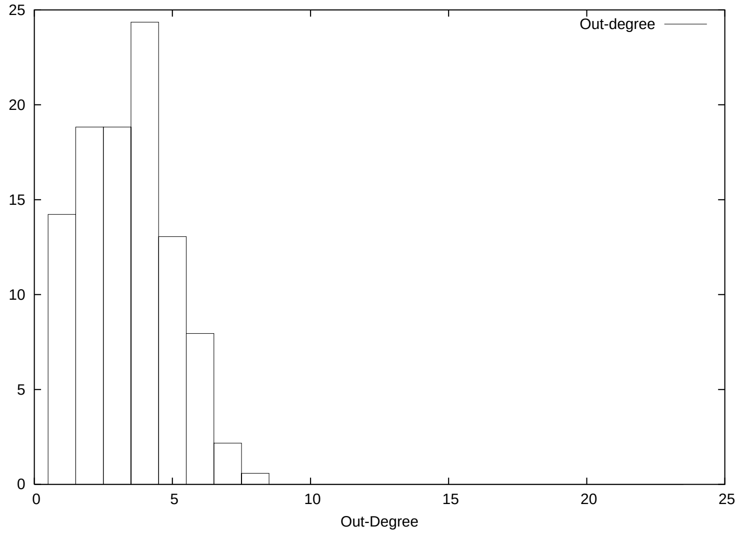
Graph: cadp/cfs123

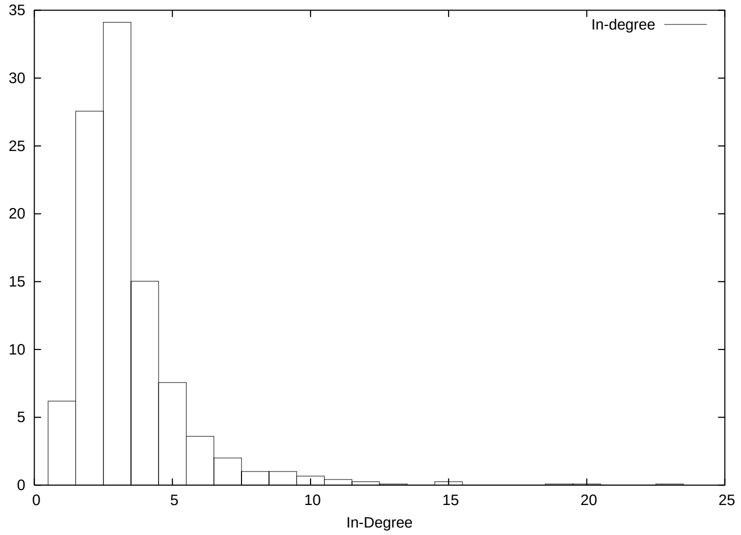
General Info

Example title	Cluster File System
Parameter	the graph is result of compositional construction,
Reduction	
Modification	MIN
States	3,585
Edges	12,141
Average degree	3.3

Out-Degrees distribution:



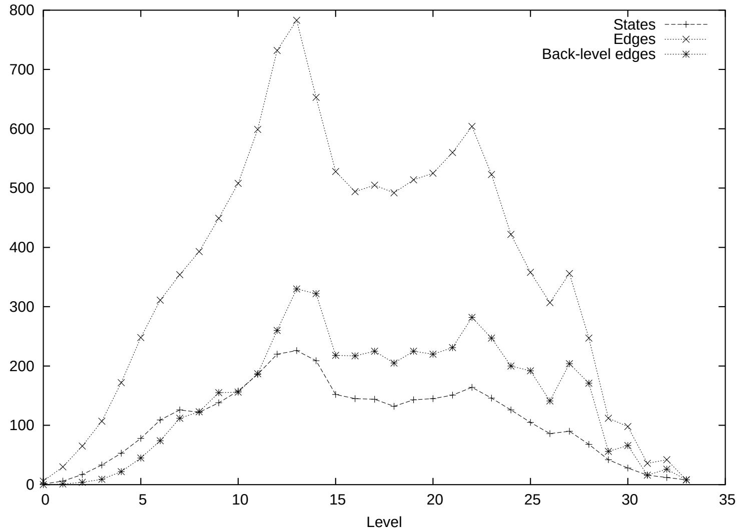
In-Degrees distribution:



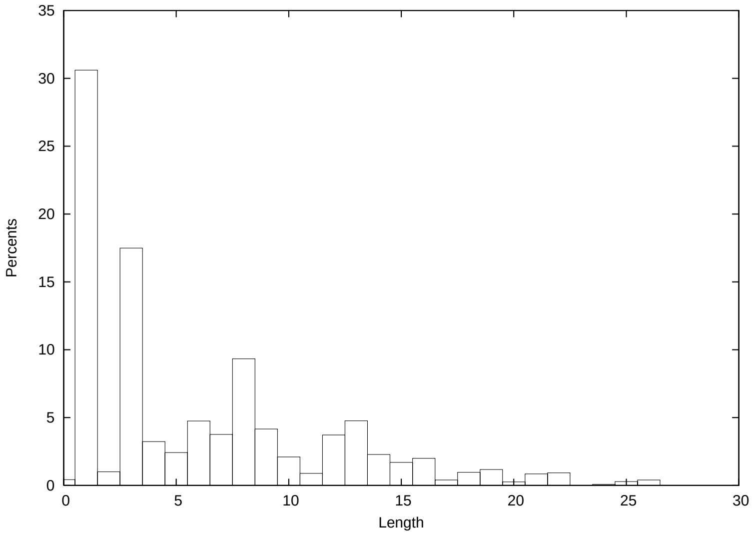
BFS Info

BFS height	33
BFS width	226 (6.3%)
Back level edges	4,950 (40.7%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	1
SCC quetient height	0
SCC quetient nontrivial height	0
Number of terminal components	1
The largest component is	initial the only terminal

Statistics according to **sizes**:

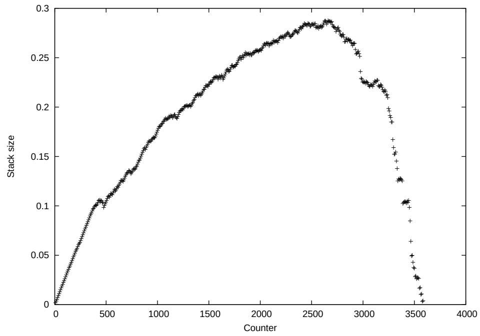
Size	Number of components	Number of states here
3,585	1	100%

SCC component graph (part):

DFS Info

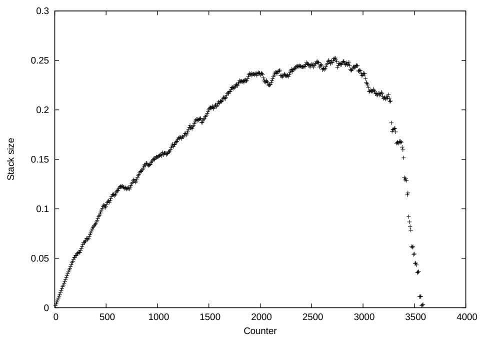
Run 0

front-edges : back-edges : cross-edges = 3,584 : 4,224 : 4,333 = 29.5%:34.7%:35.6%
Max. stack size: 1,031 (28.7%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (1142), 4 (356), 6 (85), 8 (70), 41 (27)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 3,584 : 3,998 : 4,559 = 29.5%:32.9%:37.5%
Max. stack size: 907 (25.2%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (1145), 4 (355), 6 (95), 8 (74), 76 (25)
Stack graph:



Local Structure

Short cycles(up to 6)

2	2,310	(64.4%)
3	0	(0%)
4	864	(24.1%)

Diamonds

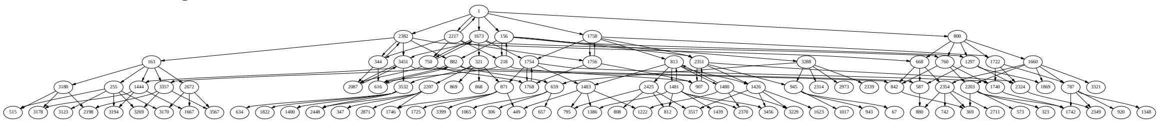
2,787 (77.7%)

Neighborhoods

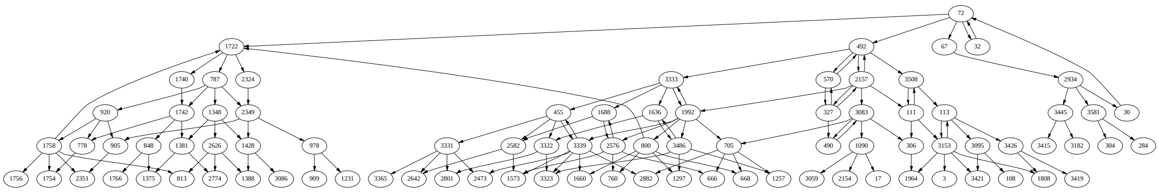
k	avg size	avg clustering
1	4.3	1
2	11.5	1.3
3	24.1	1.5
4	44.1	1.7

Visualization of some parts of the state state space:

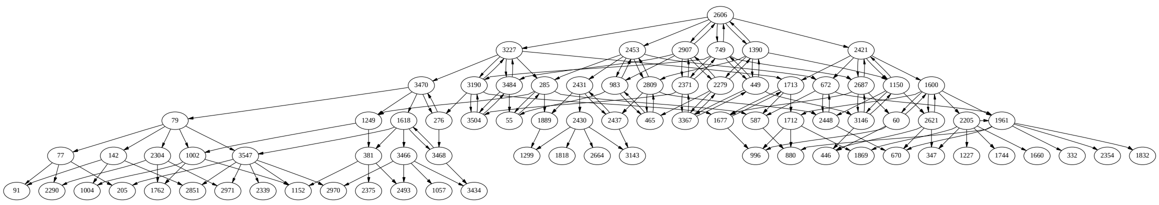
Initial walk length: 0



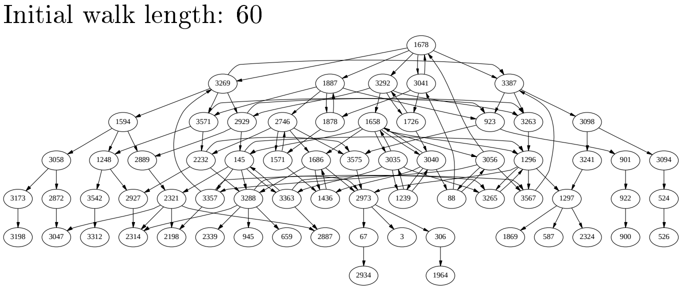
Initial walk length: 20



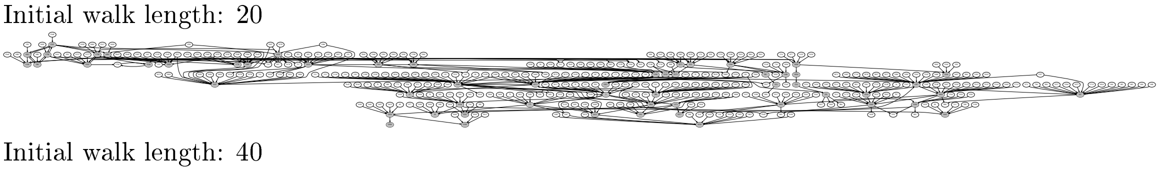
Initial walk length: 40



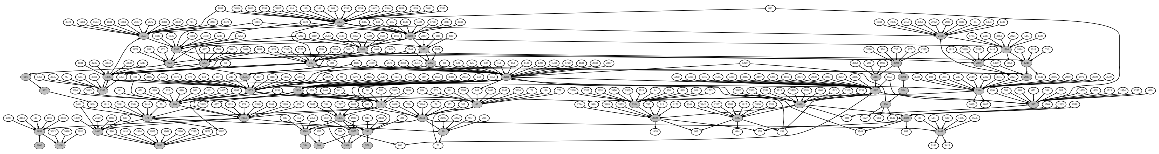
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60