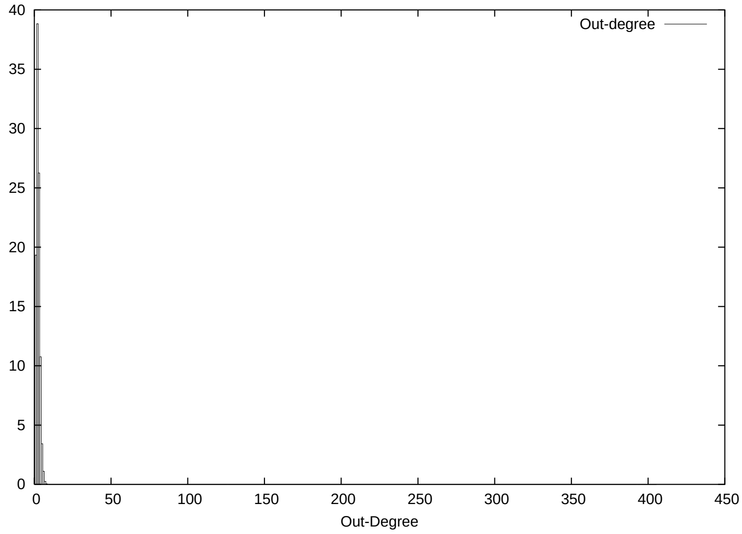
Graph: cadp/co4-5-1

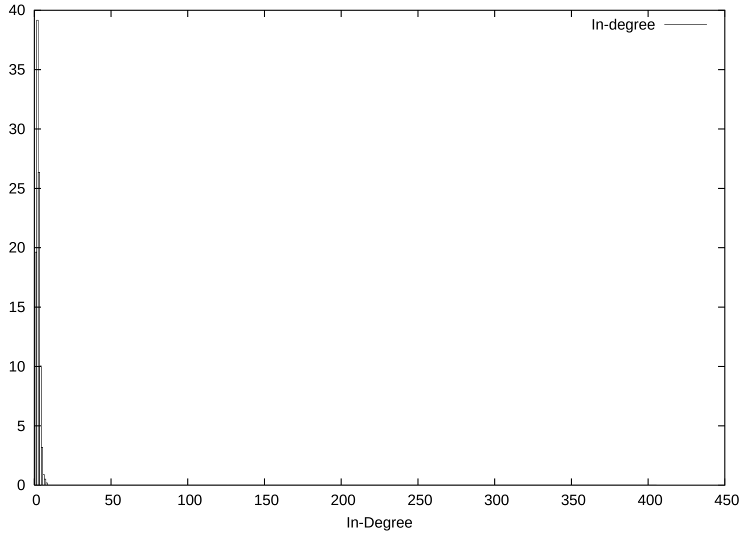
General Info

Example title	CO4 protocol for distributed knowledge bases
Parameter	
Reduction	
Modification	
States	41,641
Edges	101,883
Average degree	2.4

Out-Degrees distribution:



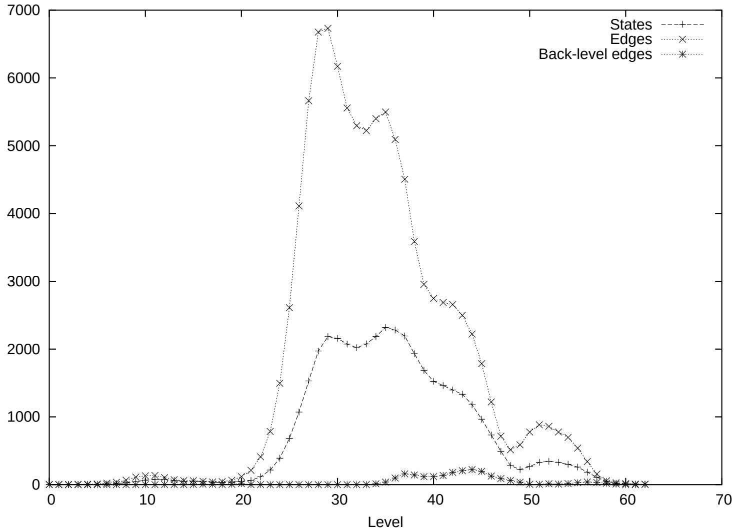
In-Degrees distribution:



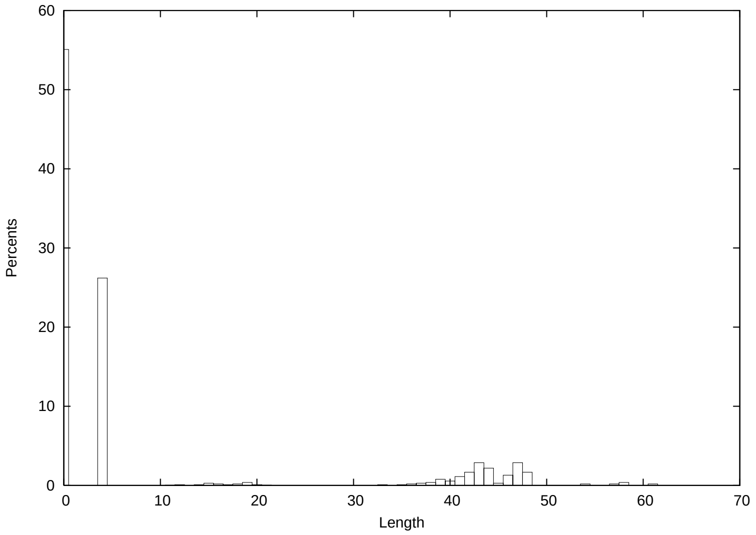
BFS Info

BFS height	62
BFS width	2,319 (5.5%)
Back level edges	2,157 (2.1%)

BFS level info:



Back level edges lengths:



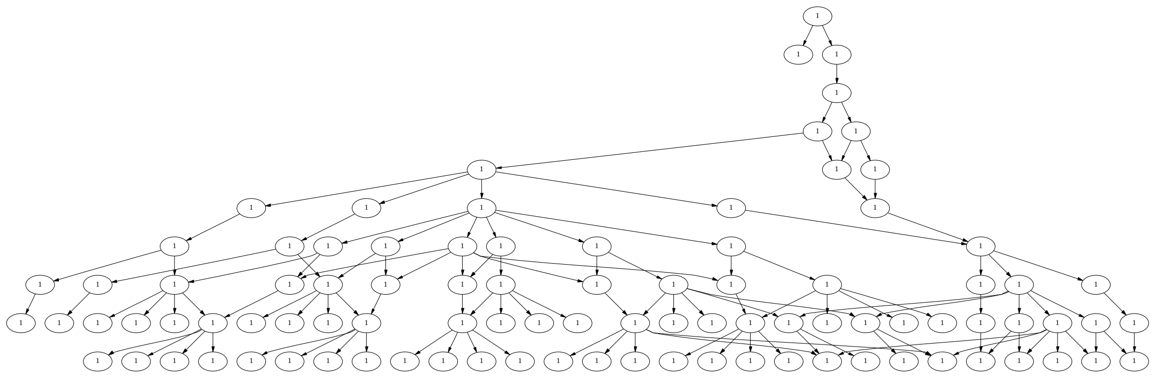
SCC Info

SCC components	41,641
SCC quetient height	68
SCC quetient nontrivial height	0
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
1	41,641	100%

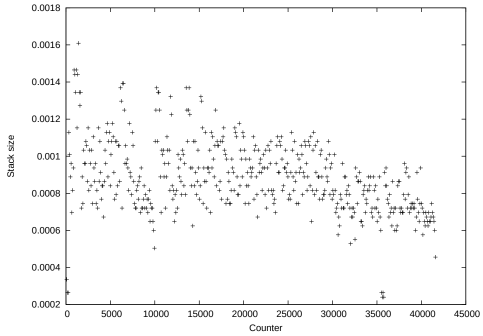
SCC component graph (part):



DFS Info

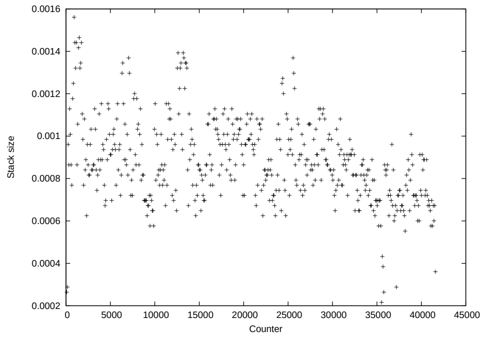
Run 0

front-edges : back-edges : cross-edges = 41,640 : 0 : 60,243 = 40.8%:0%:59.1%
Max. stack size: 68 (0.1%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 41,640 : 0 : 60,243 = 40.8%:0%:59.1%
Max. stack size: 68 (0.1%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Local Structure

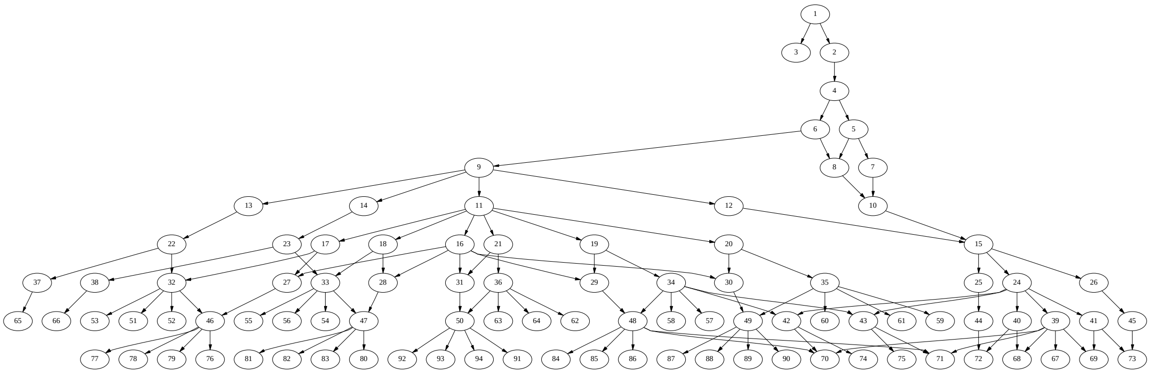
Short cycles(up to 6)
none
Diamonds

31,861 (76.5%)

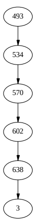
Neighborhoods

k	avg size	avg clustering
1	3.4	1
2	7.5	1.2
3	13.2	1.3
4	20.5	1.4

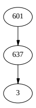
Visualization of some parts of the state state space:
Initial walk length: 0



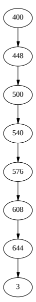
Initial walk length: 20



Initial walk length: 40



Initial walk length: 60



Initial walk length: 20

Initial walk length: 40

Initial walk length: 60