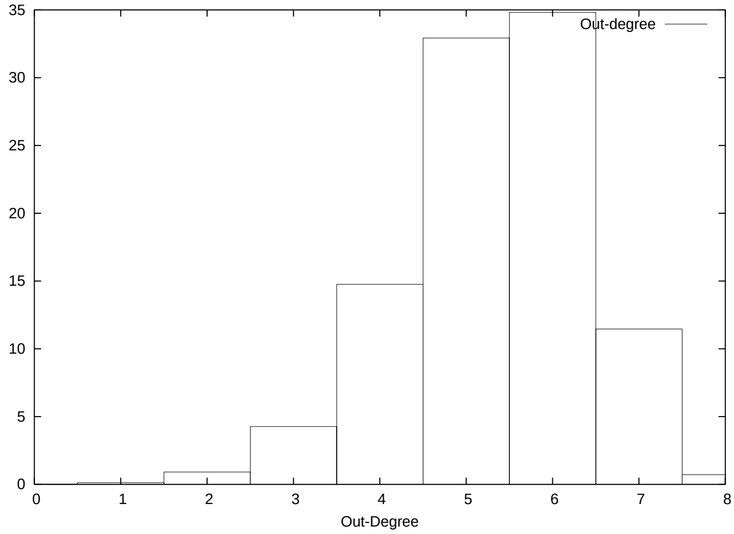
Graph: divine/phil-basic-8

General Info

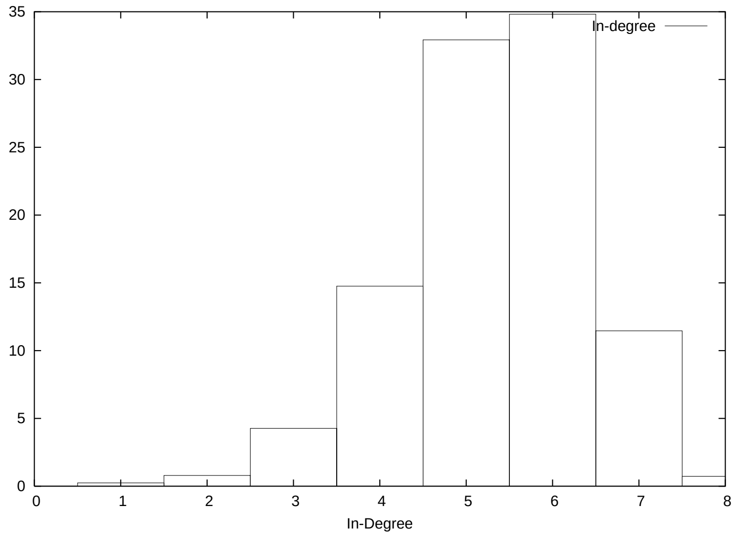
Example title	Dining philosophers
Parameter	8
Reduction	
Modification	

States	6,560
Edges	34,984
Average degree	5.3

Out-Degrees distribution:



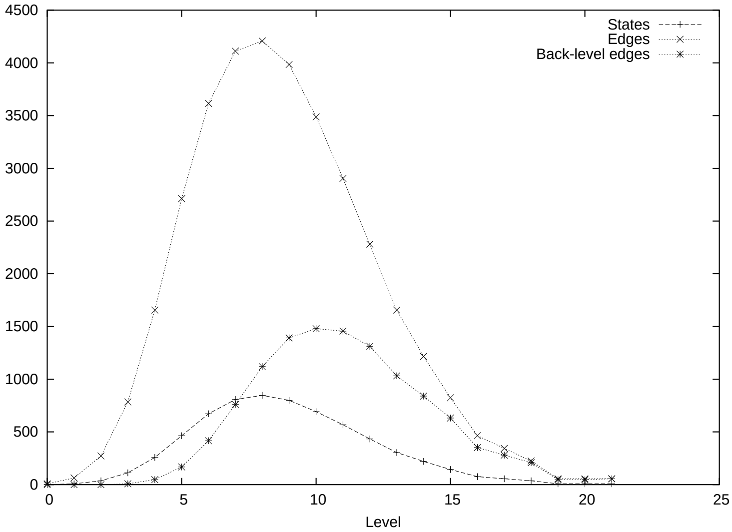
In-Degrees distribution:



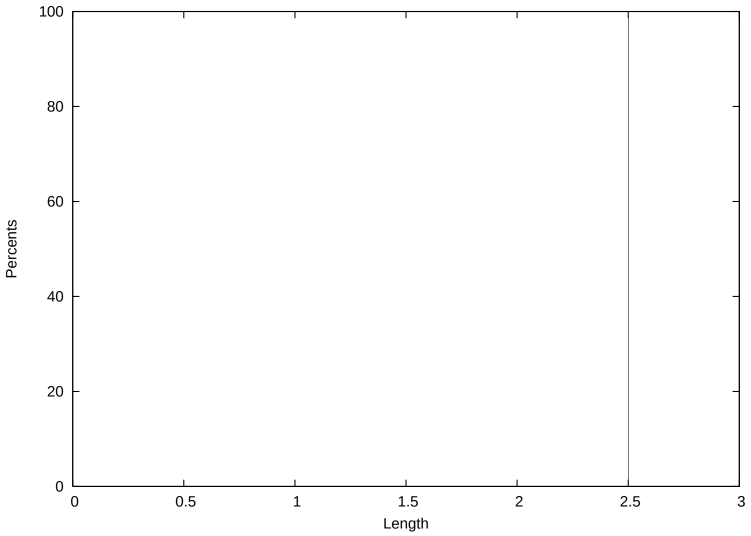
BFS Info

BFS height	21
BFS width	847 (12.9%)
Back level edges	11,656 (33.3%)

BFS level info:



Back level edges lengths:



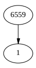
SCC Info

SCC components	2
SCC quetient height	1
SCC quetient nontrivial height	1
Number of terminal components	1
The largest component is	initial

Statistics according to **sizes**:

Size	Number of components	Number of states here
6,559	1	99.9%
1	1	0%

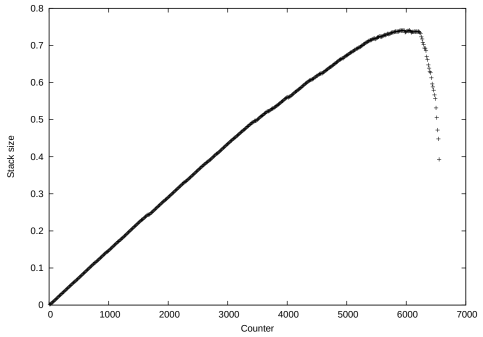
SCC component graph (part):



DFS Info

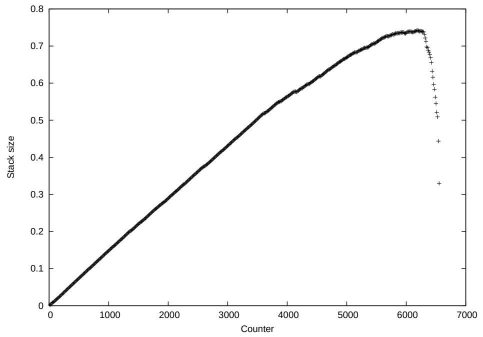
Run 0

front-edges : back-edges : cross-edges = 6,559 : 16,070 : 12,355 = 18.7%:45.9%:35.3%
Max. stack size: 4,860 (74%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (300), 8 (80), 112 (61), 244 (59), 296 (57)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 6,559 : 15,765 : 12,660 = 18.7%:45%:36.1%
Max. stack size: 4,870 (74.2%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (317), 8 (62), 408 (54), 332 (51), 36 (46)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	0	(0%)
4	6,559	(99.9%)

Diamonds

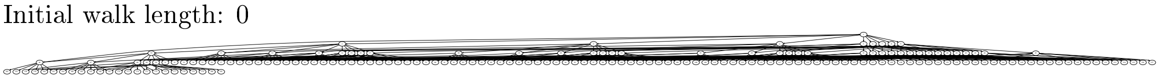
6,543 (99.7%)

Neighborhoods

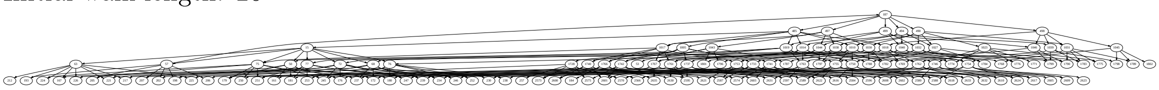
k	avg size	avg clustering
1	6.3	1
2	22.9	1.5
3	63.4	1.8
4	145.9	2.2

Visualization of some parts of the state state space:

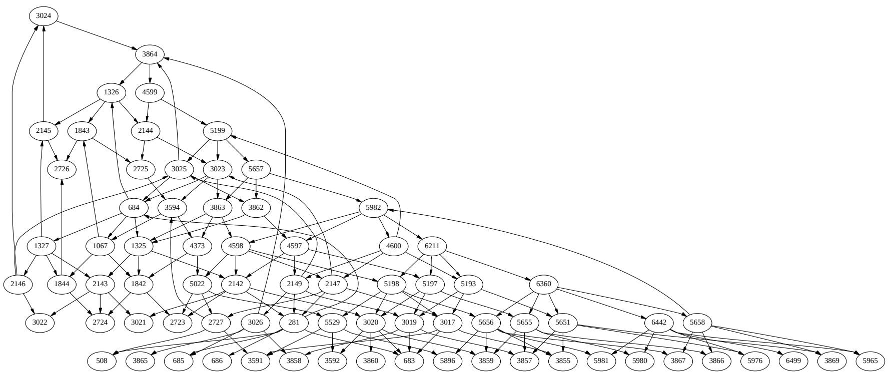
Initial walk length: 0



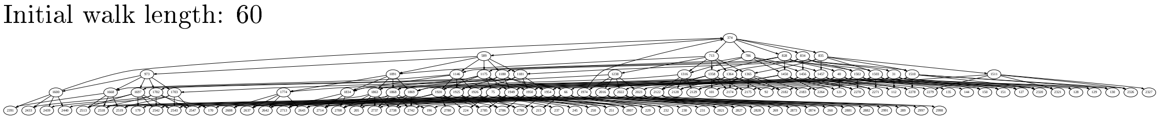
Initial walk length: 20



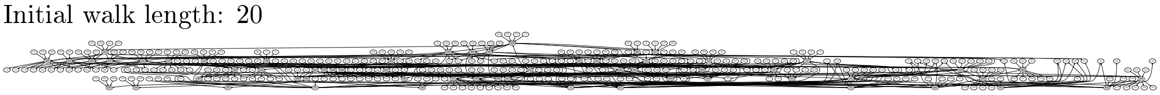
Initial walk length: 40



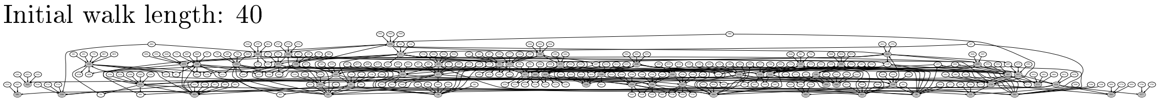
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60