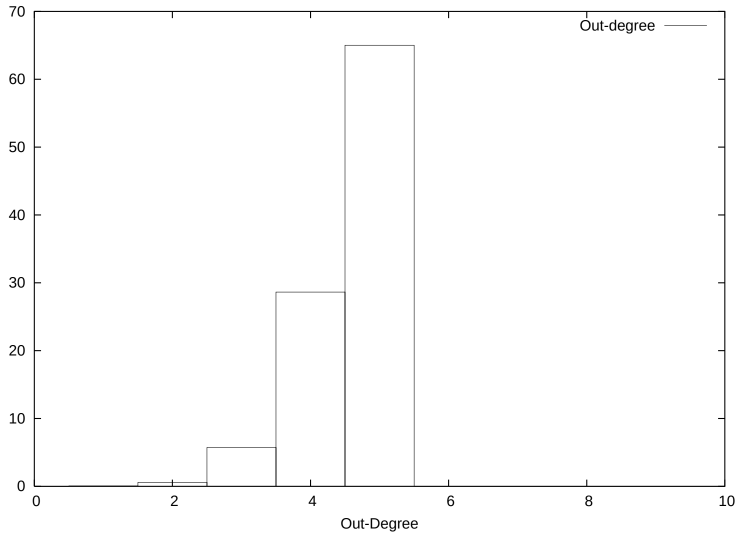
Graph: spin/phil5

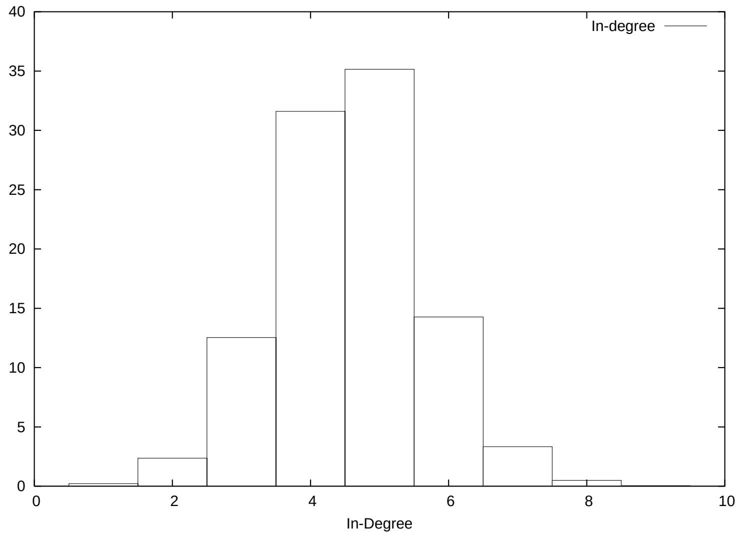
General Info

Example title	Dining philosophers
Parameter	5
Reduction	
Modification	
States	54,049
Edges	247,523
Average degree	4.5

Out-Degrees distribution:



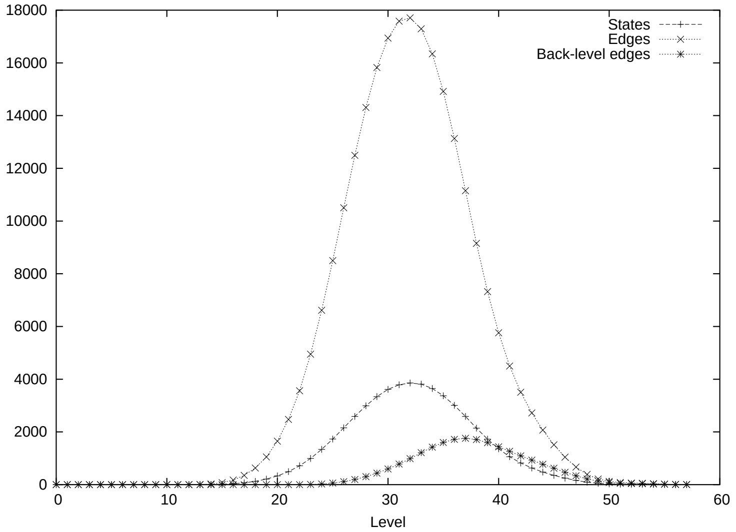
In-Degrees distribution:



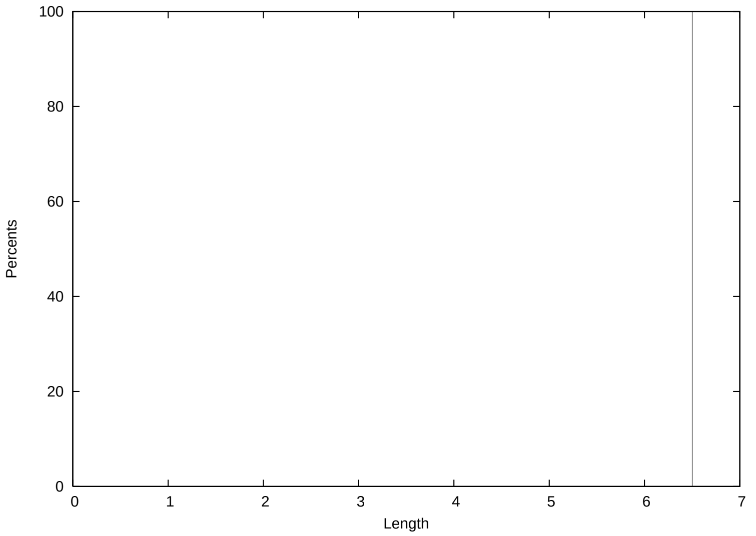
BFS Info

BFS height	57
BFS width	3,859 (7.1%)
Back level edges	22,061 (8.9%)

BFS level info:



Back level edges lengths:



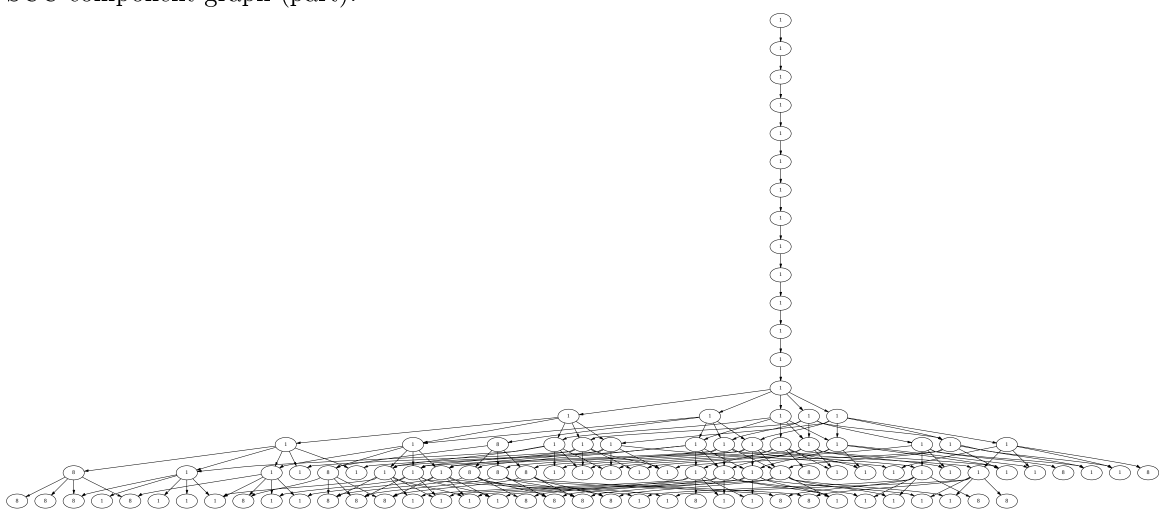
SCC Info

SCC components	781
SCC quetient height	27
SCC quetient nontrivial height	13
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
4,244	1	7.8%
1,121	14	29%
312	39	22.5%
212	39	15.2%
64	108	12.7%
39	108	7.7%
8	297	4.3%
1	175	0.3%

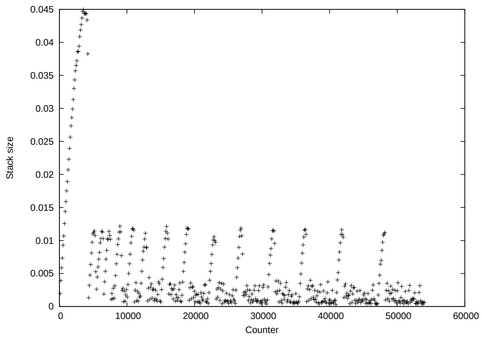
SCC component graph (part):



DFS Info

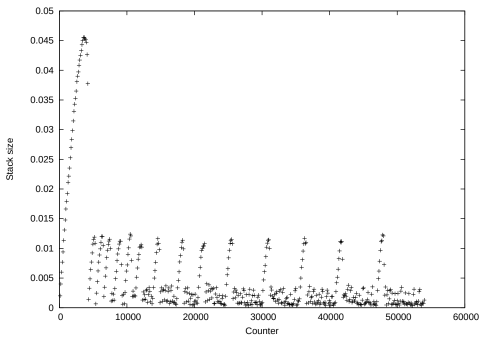
Run 0

front-edges : back-edges : cross-edges = 54,048 : 41,280 : 152,195 = 21.8%:16.6%:61.4%
Max. stack size: 2,441 (4.5%)
Shortest cycle detected: 8
Most often detected lengths of cycles: 24 (3526), 16 (3245), 32 (2147), 40 (2028), 56 (1733)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 54,048 : 41,103 : 152,372 = 21.8%:16.6%:61.5%
Max. stack size: 2,497 (4.6%)
Shortest cycle detected: 8
Most often detected lengths of cycles: 24 (3255), 16 (3162), 32 (2406), 40 (1976), 56 (1735)
Stack graph:



Local Structure

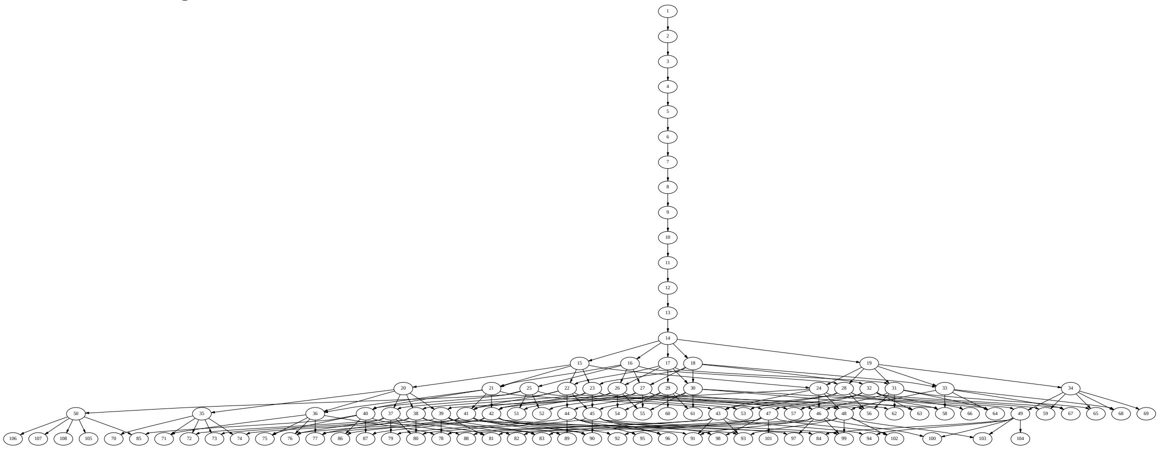
Short cycles(up to 6)
none
Diamonds

54,016 (99.9%)

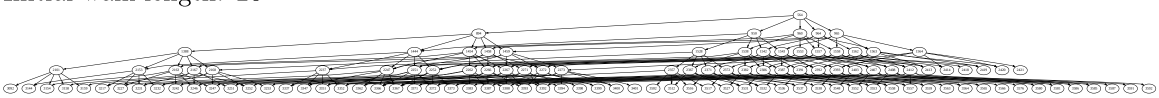
Neighborhoods

k	avg size	avg clustering
1	5.5	1
2	18.1	1.4
3	45	1.8
4	93.8	2.1

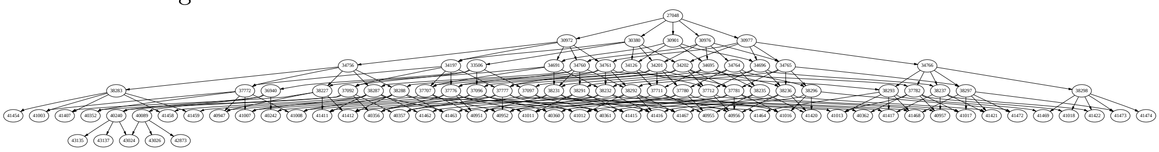
Visualization of some parts of the state state space:
Initial walk length: 0



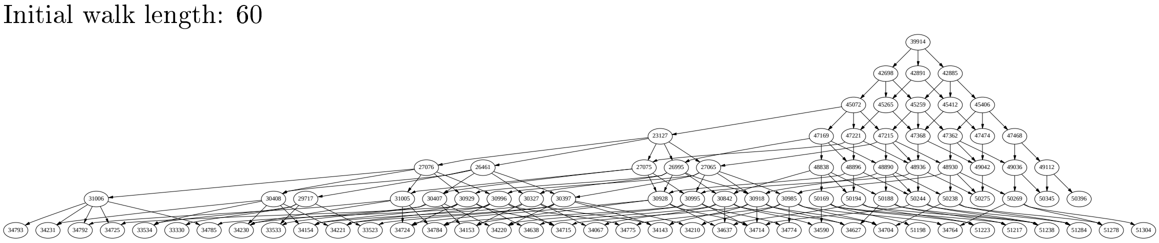
Initial walk length: 20



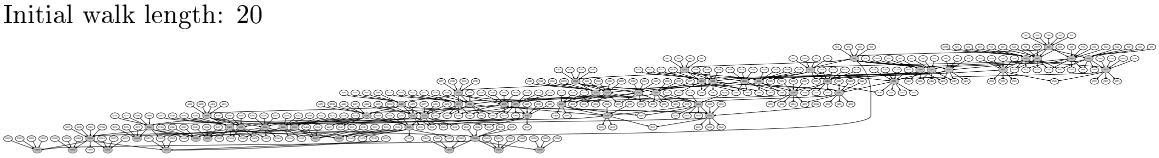
Initial walk length: 40



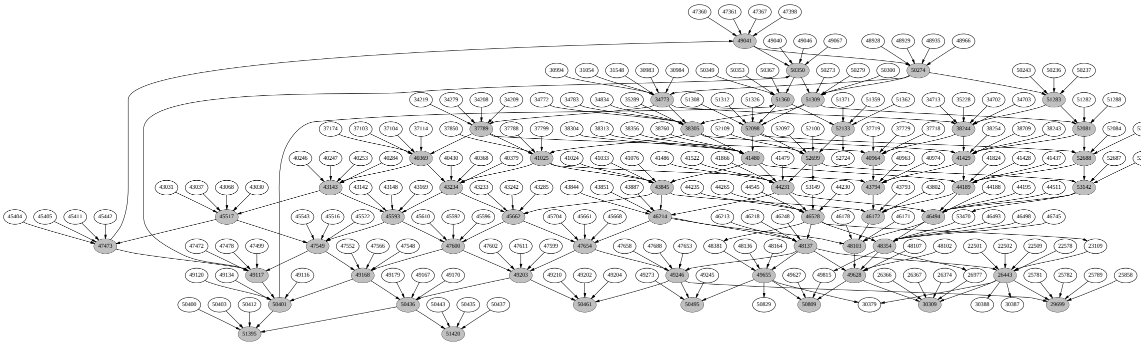
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60