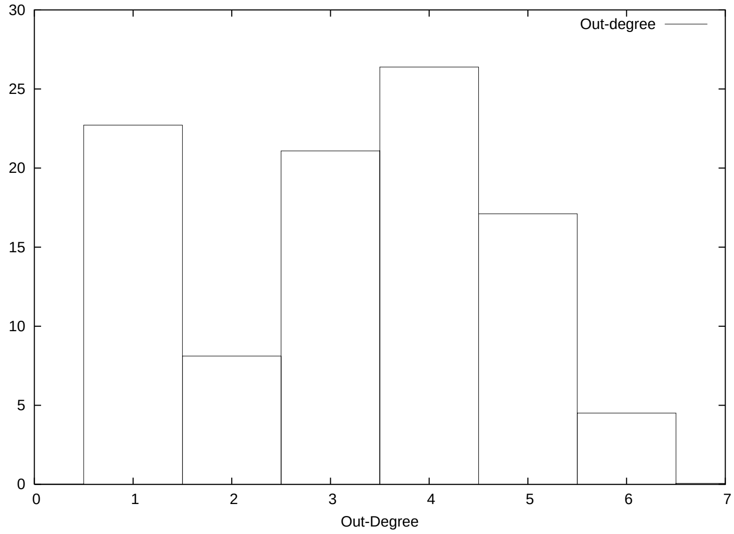
# Graph: spin/smcs

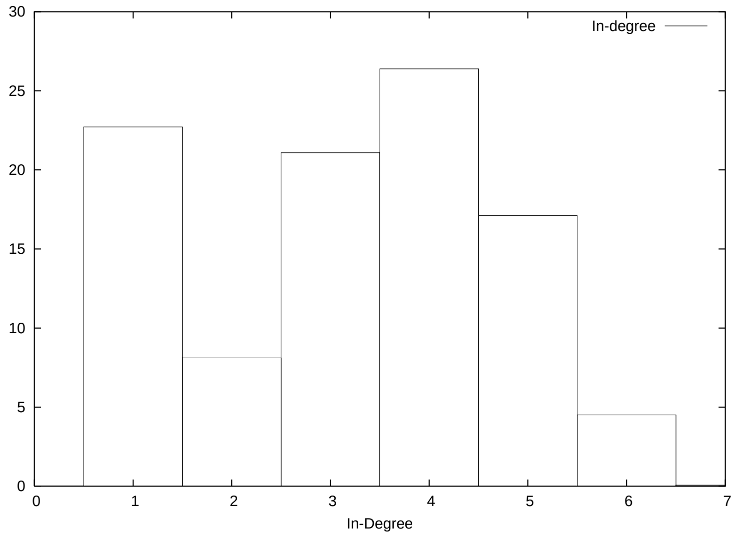
## General Info

| | |
|---|---|
| Example title | ITU-T multipoint communication service |
| Parameter | 2 |
| Reduction | |
| Modification | |
| | |
| States | 5,904 |
| Edges | 18,940 |
| Average degree | 3.2 |

Out-Degrees distribution:



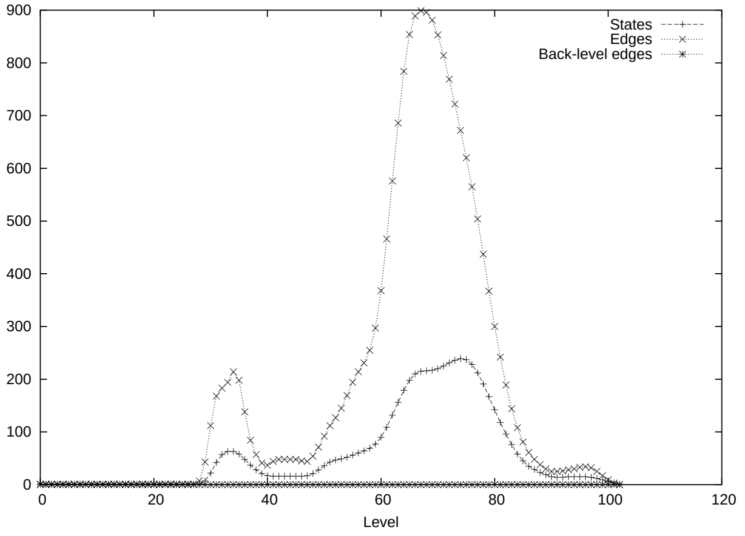

In-Degrees distribution:



# BFS Info

| | |
|---|---|
| BFS height | 102 |
| BFS width | 239 (4%) |
| Back level edges | 0 (0%) |

BFS level info:



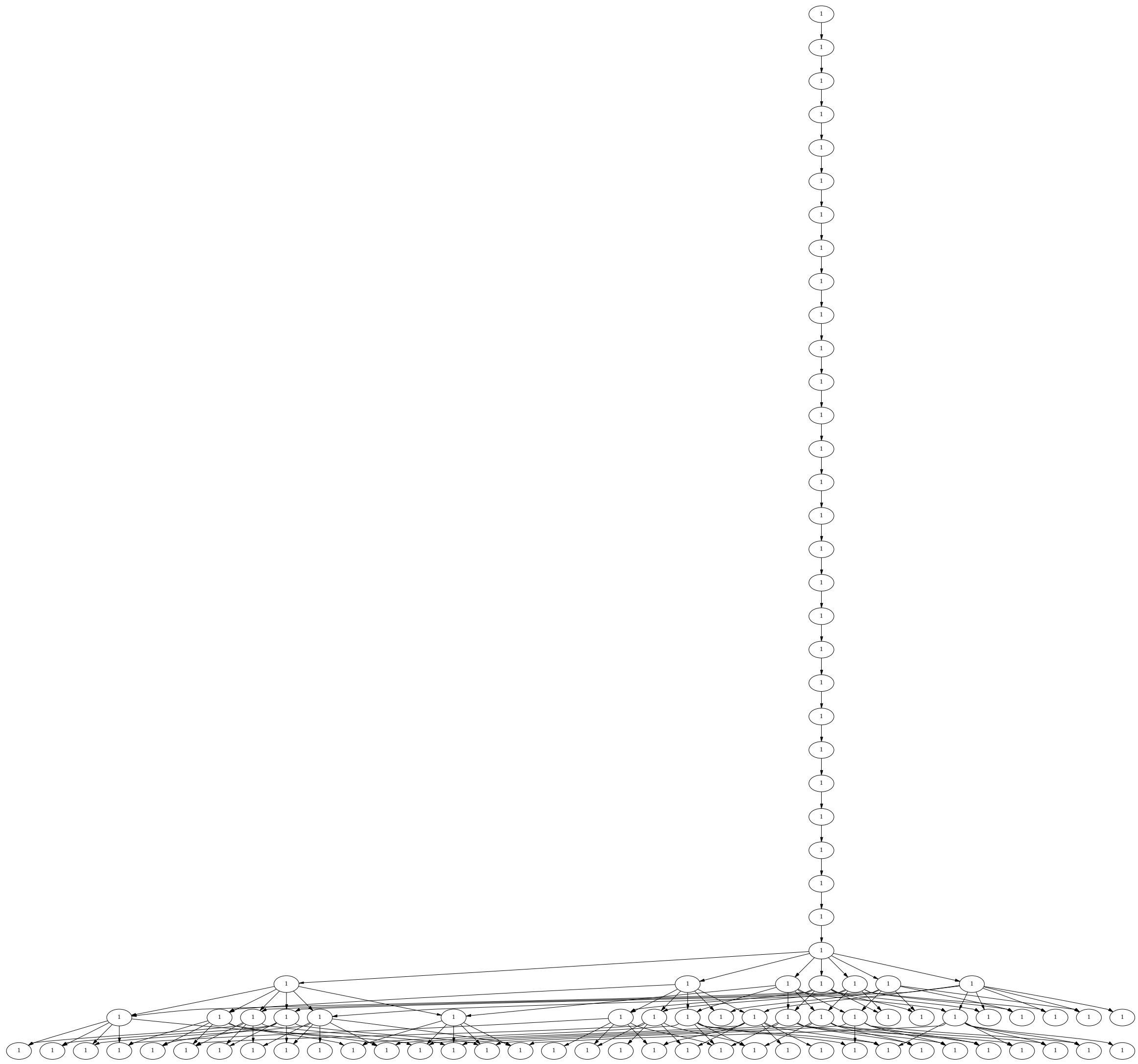
## SCC Info

| | |
|---|---|
| SCC components | 5,904 |
| SCC quetient height | 102 |
| 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 | 5,904 | 100% |

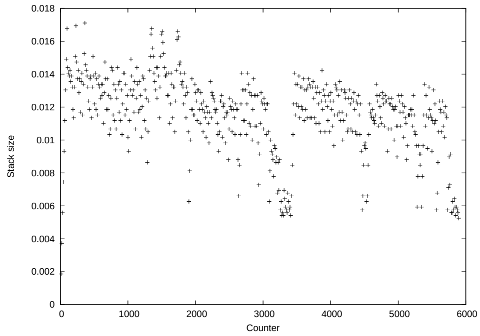
SCC component graph (part):



# DFS Info

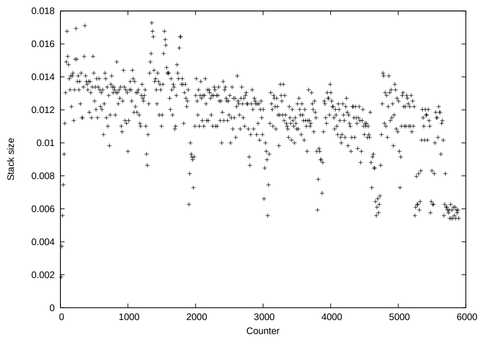
## Run 0

front-edges : back-edges : cross-edges = 5,903 : 0 : 13,037 = 31.1%:0%:68.8%
Max. stack size: 103 (1.7%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:




## Run 1

front-edges : back-edges : cross-edges = 5,903 : 0 : 13,037 = 31.1%:0%:68.8%
Max. stack size: 103 (1.7%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



## Local Structure

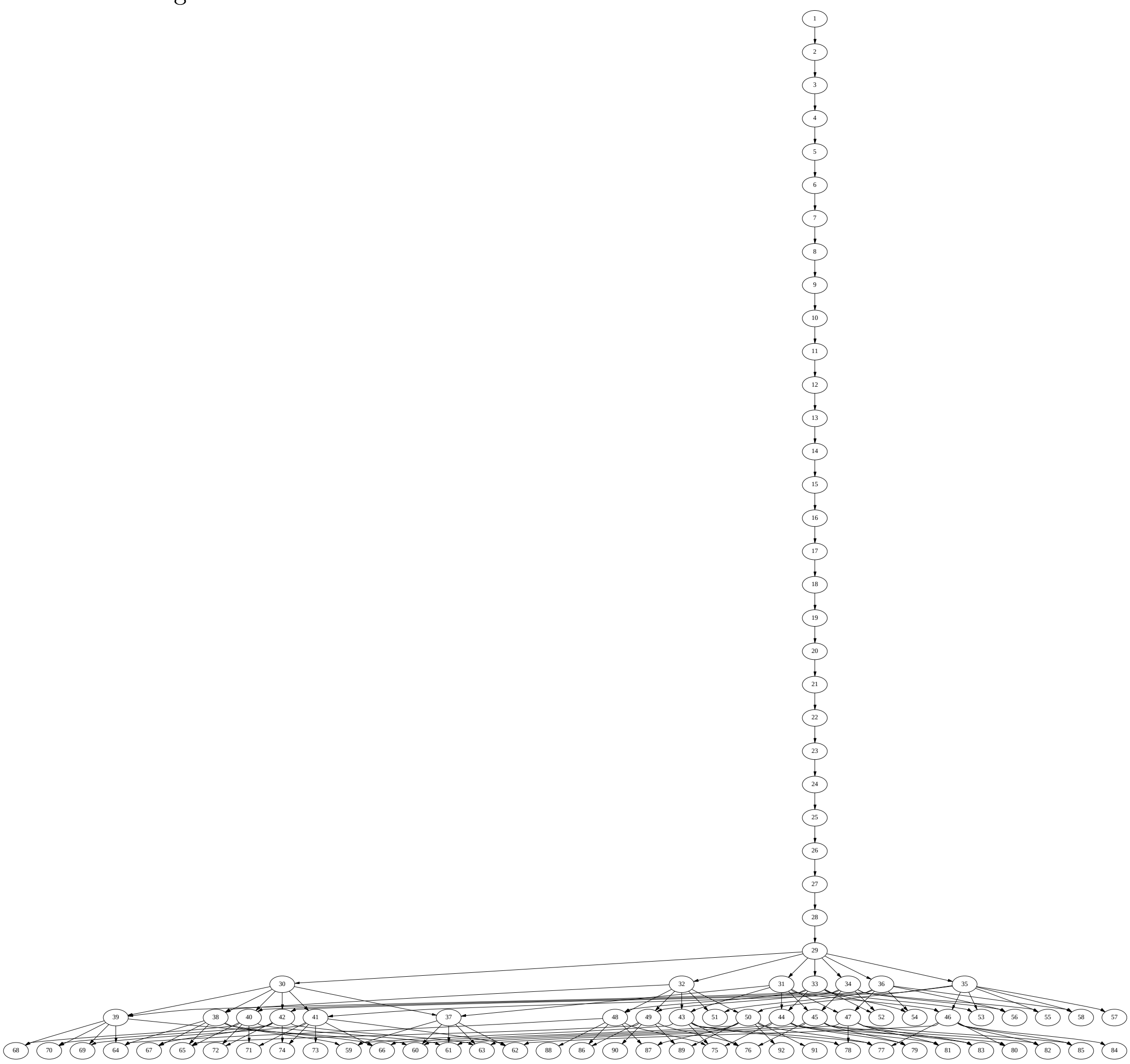
**Short cycles**(up to 6)
none
**Diamonds**

4,418 (74.8%)

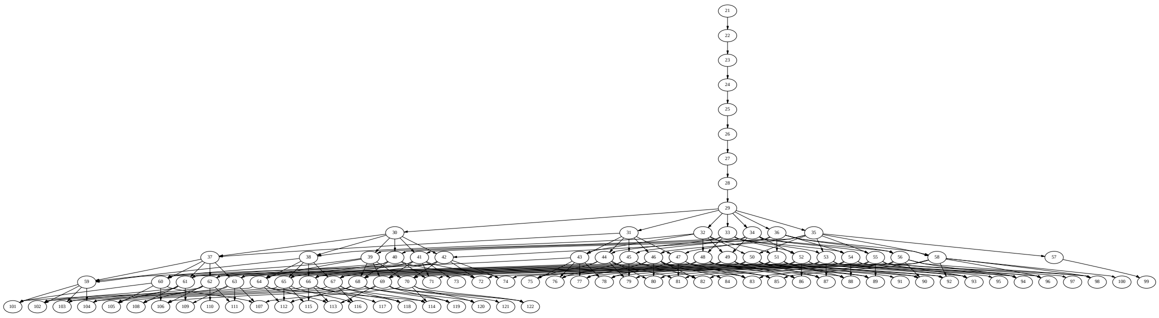
**Neighborhoods**

| $k$ | avg size | avg clustering |
|---|---|---|
| 1 | 4.2 | 1 |
| 2 | 11.3 | 1.3 |
| 3 | 23.2 | 1.5 |
| 4 | 39.5 | 1.7 |

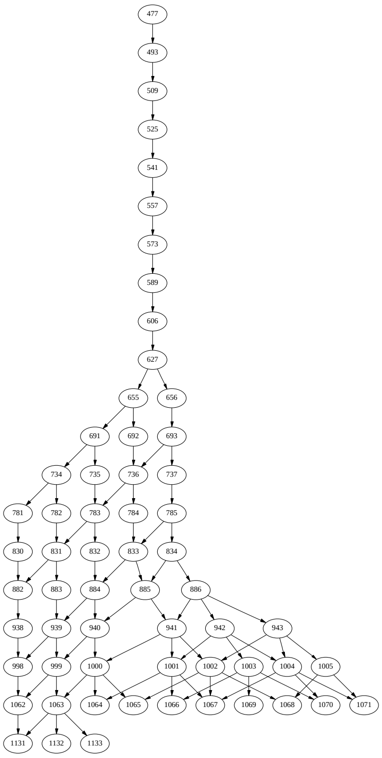
Visualization of some parts of the state state space:
Initial walk length: 0



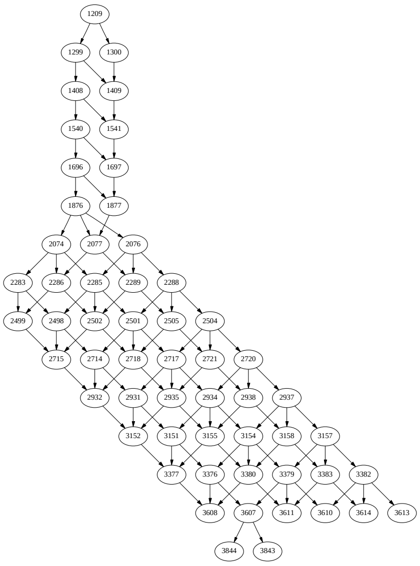
Initial walk length: 20



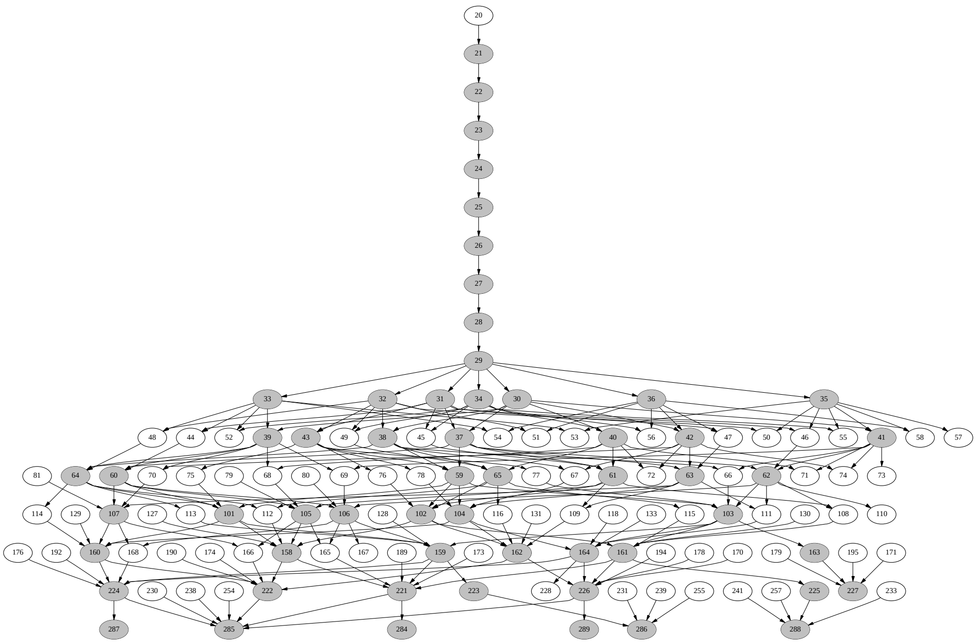
Initial walk length: 40



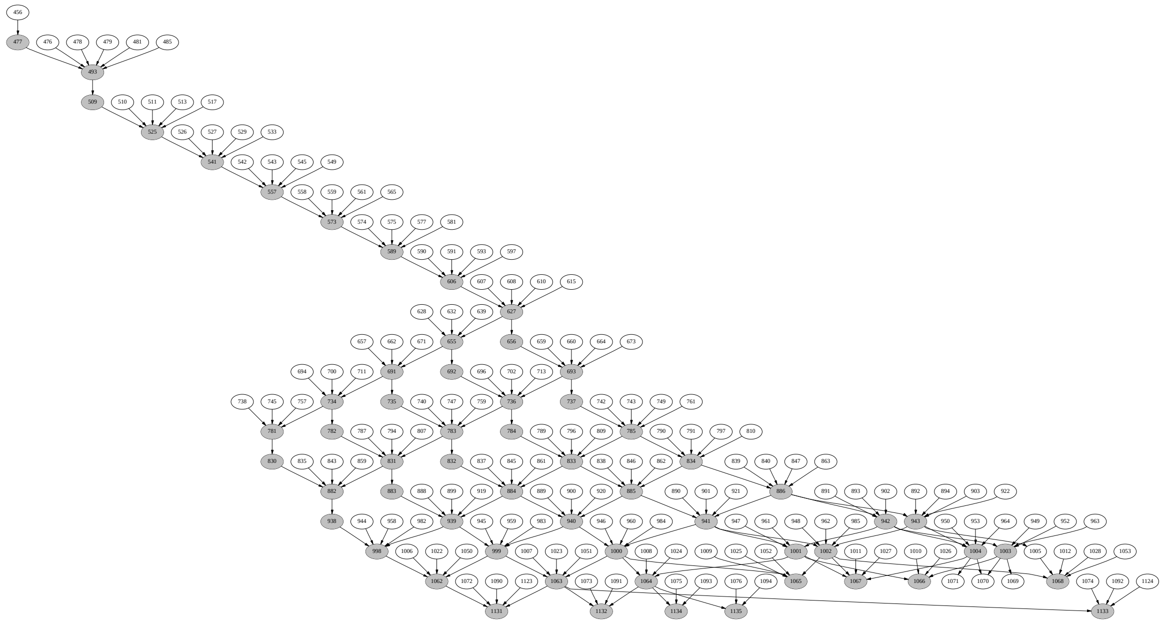

Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60