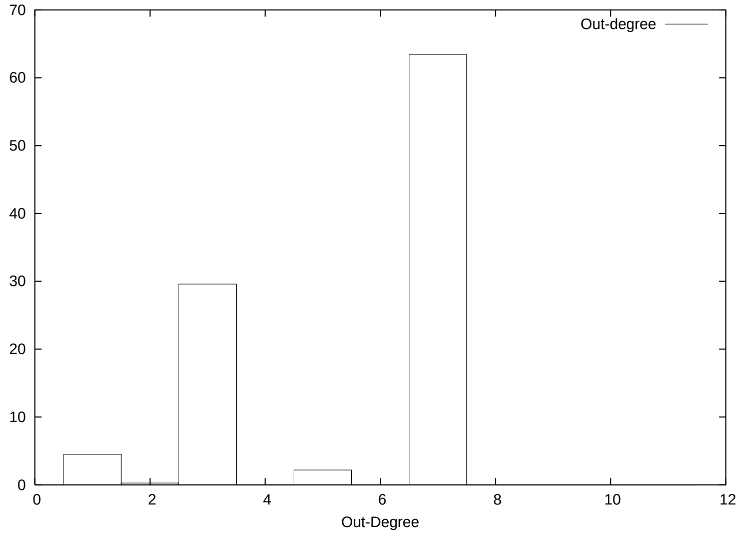
Graph: nusmv/dme1

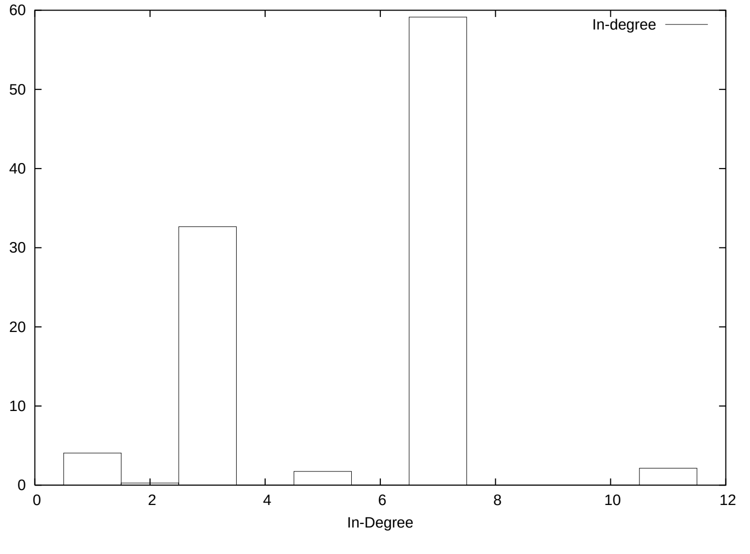
General Info

Example title	Distributed memory exclusion
Parameter	
Reduction	
Modification	
States	6,579
Edges	36,105
Average degree	5.4

Out-Degrees distribution:



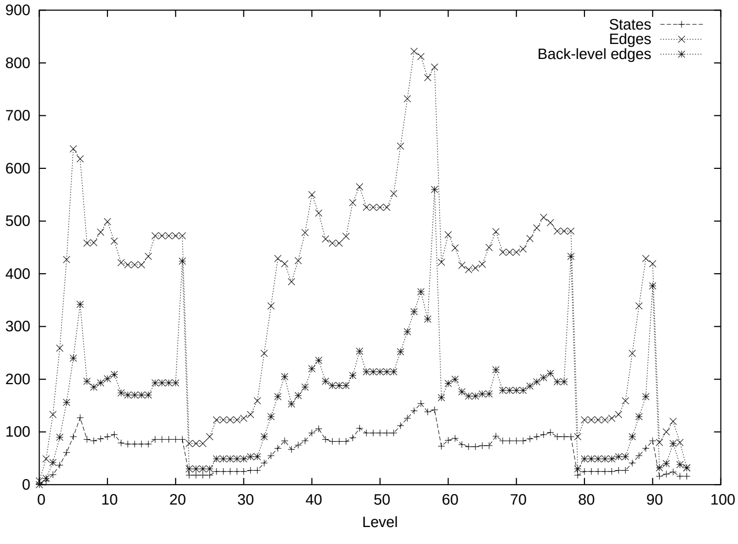
In-Degrees distribution:



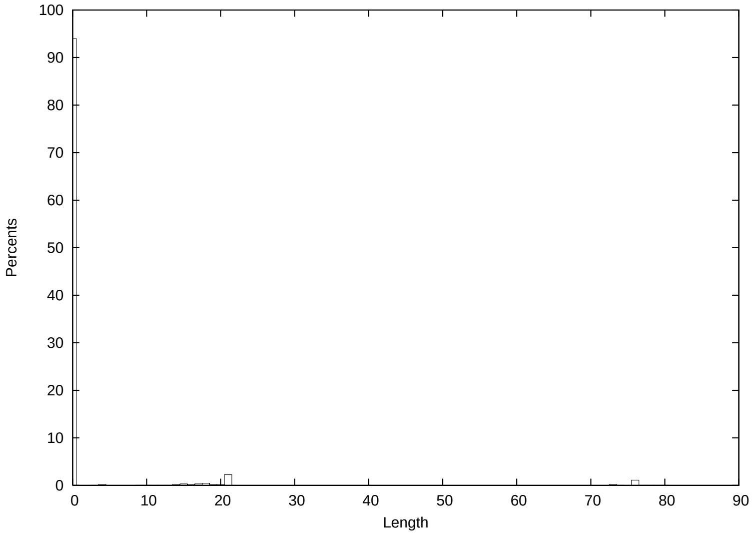
BFS Info

BFS height	95
BFS width	154 (2.3%)
Back level edges	15,673 (43.4%)

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**:

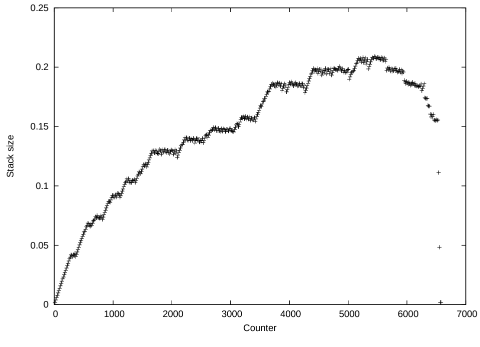
Size	Number of components	Number of states here
6,579	1	100%

SCC component graph (part):

DFS Info

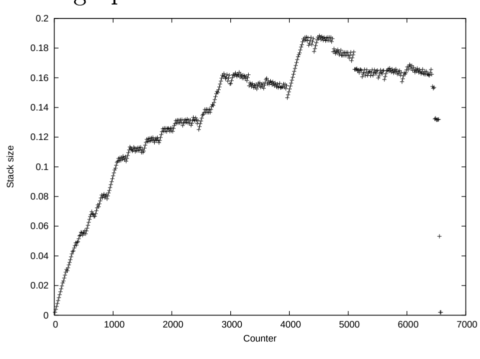
Run 0

front-edges : back-edges : cross-edges = 6,578 : 5,646 : 23,881 = 18.2%:15.6%:66.1%
Max. stack size: 1,381 (20.9%)
Shortest cycle detected: 22
Most often detected lengths of cycles: 125 (285), 124 (213), 246 (175), 123 (164), 126 (162)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 6,578 : 5,393 : 24,134 = 18.2%:14.9%:66.8%
Max. stack size: 1,240 (18.8%)
Shortest cycle detected: 22
Most often detected lengths of cycles: 125 (280), 126 (256), 250 (212), 251 (210), 127 (190)
Stack graph:



Local Structure

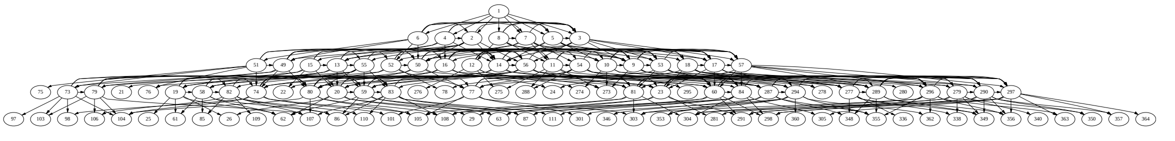
Short cycles(up to 6)
none
Diamonds

6,276 (95.3%)

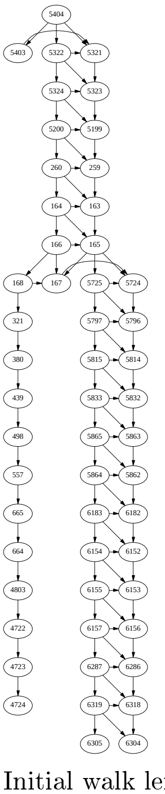
Neighborhoods

k	avg size	avg clustering
1	6.4	1
2	17.3	1.9
3	33.4	2.5
4	53.6	2.9

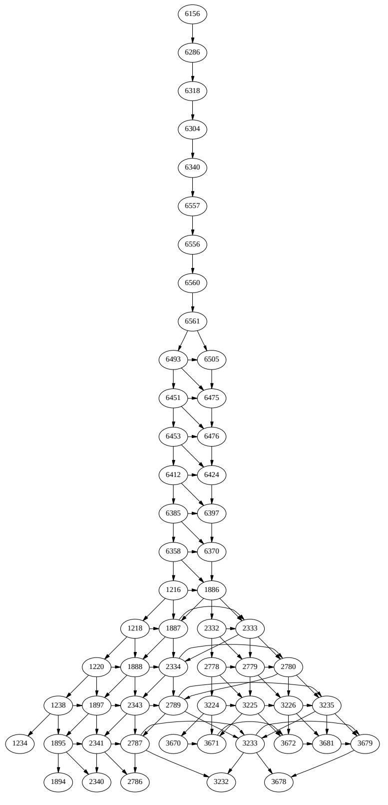
Visualization of some parts of the state state space:
Initial walk length: 0



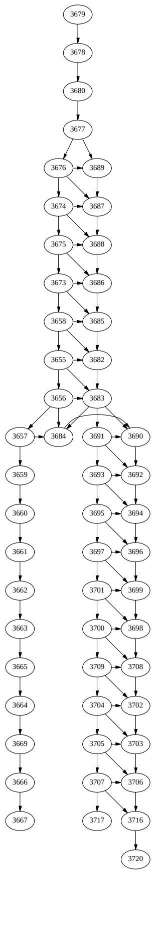
Initial walk length: 20



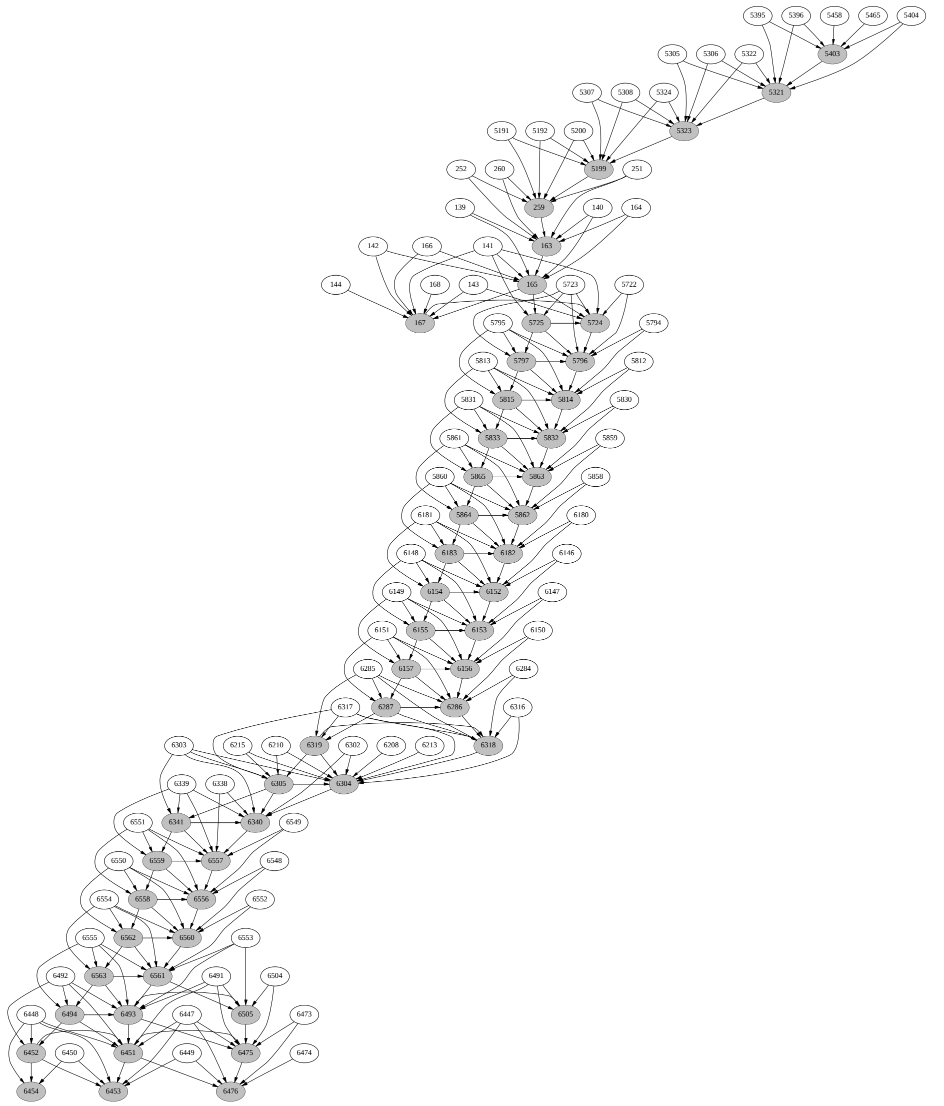
Initial walk length: 40



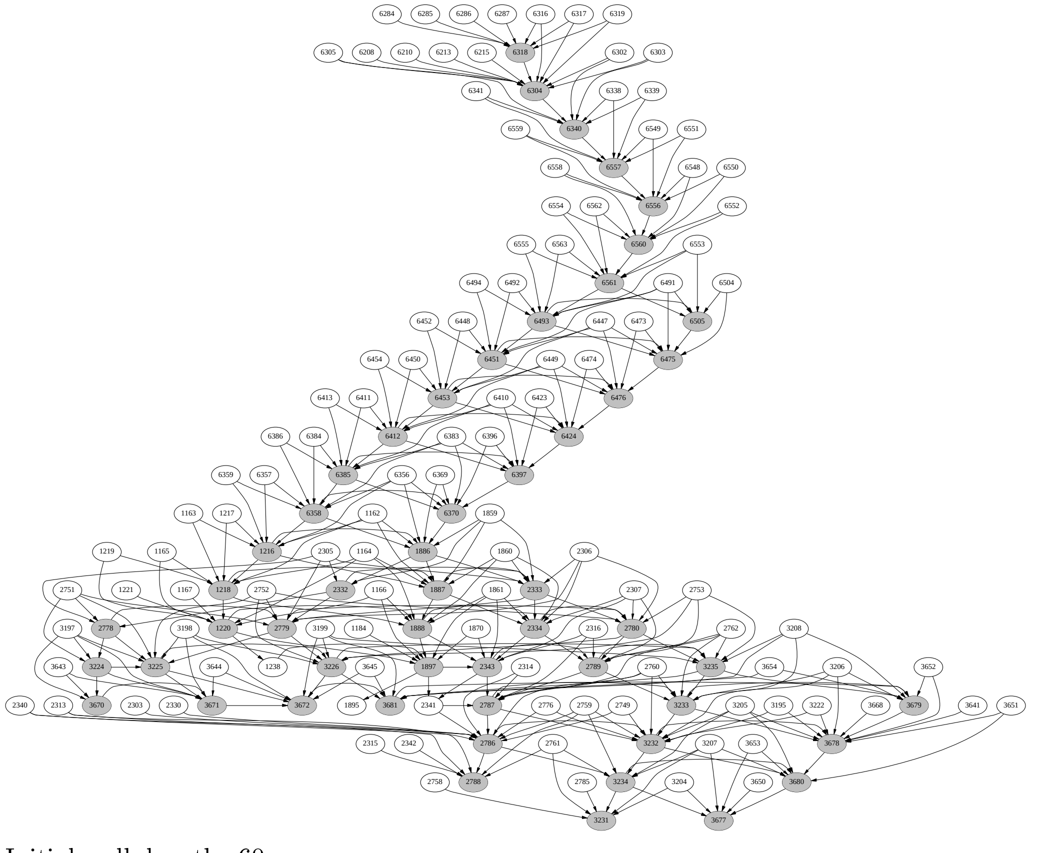
Initial walk length: 60



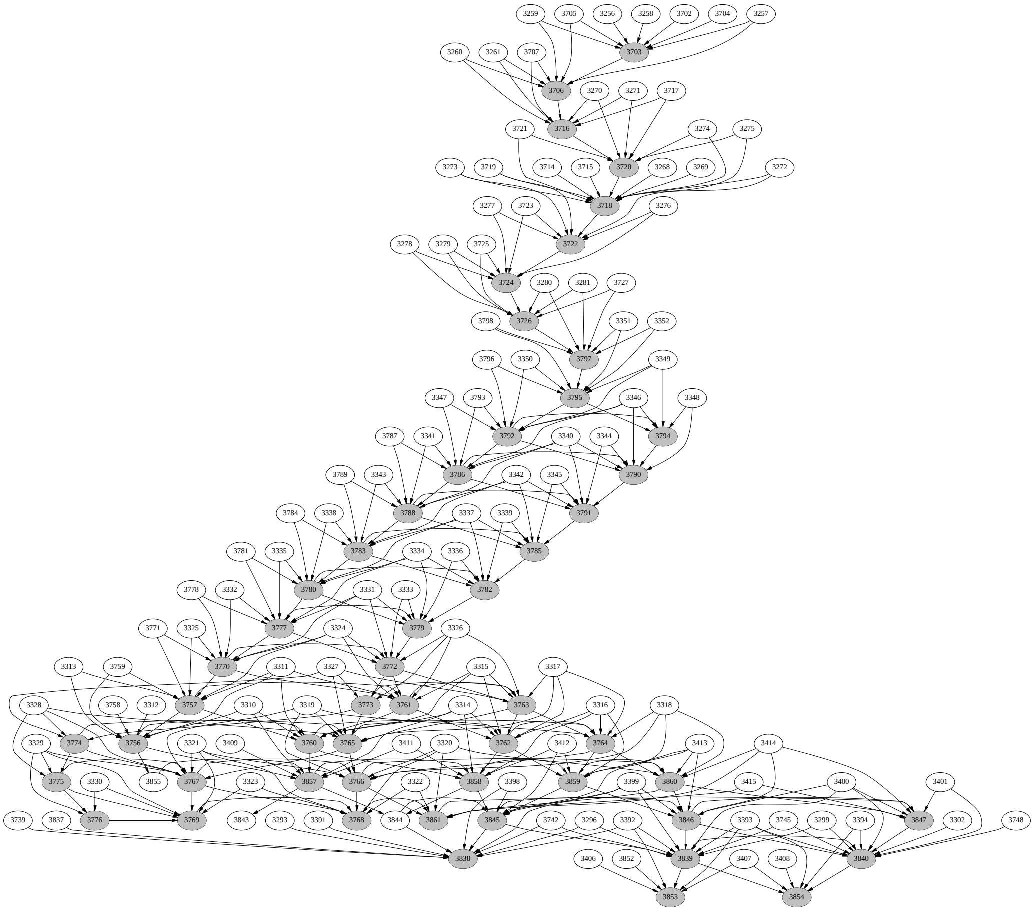
Initial walk length: 20



Initial walk length: 40



Initial walk length: 60


3259 3705 3256 3258 3702 3704 3257
3260 3261 3707 3703
3706 3270 3271 3717
3721 3716 3274 3275
3273 3719 3714 3715 3720 3268 3269 3272
3277 3723 3718 3276
3278 3279 3725 3722
3724 3280 3281 3727
3798 3726 3351 3352
3796 3350 3797 3349
3347 3793 3795 3346 3348
3787 3341 3792 3340 3344 3794
3789 3343 3786 3342 3345 3790
3784 3338 3788 3337 3339 3791
3781 3335 3783 3334 3336 3785
3778 3332 3780 3331 3333 3782
3771 3325 3777 3324 3779 3326
3313 3759 3770 3311 3327 3772 3315 3317
3328 3758 3312 3757 3310 3319 3773 3761 3314 3763 3316 3318
3329 3774 3756 3321 3409 3760 3765 3411 3320 3762 3412 3764 3413 3414
3775 3330 3855 3767 3323 3857 3766 3322 3858 3398 3859 3399 3860 3415 3400 3401
3739 3837 3776 3769 3843 3293 3391 3768 3844 3861 3845 3742 3296 3392 3846 3393 3745 3299 3394 3847 3302 3748
3838 3406 3852 3839 3407 3408 3840
3853 3854