Software Quality FS 2016

Exercise 1 - Discussion

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Grading



Duration/Probability of change

Safety? Liveness?

Safety

Something bad never happens

Liveness

Something good Eventually happening

- All chameleons have the same color
- No chameleon are left

Limitations of SPIN

Number of states explodes rapidly.

If the search is not exhaustive, no guarantee to find a violation even within the search range.

Order of processes

Chaging the process order changes the depth for the verification

Petri Nets

Deadlock

t4 fired at least once

t3 can be fired an infinite number of times

As soon as p4 recives a token it never gets empty again