

Bus Systems

Exercise 4

Prof. Dr. Reinhard Gotzhein, Dr. Thomas Kuhn

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Flexray Scheduling analysis (mandatory)

- Now, you have used the CAN scheduling analysis
- Modify the CAN bus scheduling analysis eqations in a way that make then suitable for the analysis of FlexRay bus systems:
 - The Flexray network is configured to consist of static segments of length I_s and dynamic segments of length I_d .
 - Frame definitions (Frame length, Period, Deadline) are defined similar to CAN bus scheduling analysis
 - Frame priority is a number between 0 and n
 - Estimate whether a frame with priority $0 \le x \le n$ that is ready at beginning of dynamic segment is guaranteed to be scheduled in the same dynamic segment
 - Assume all other frames to be ready at beginning of dynamic segment (worst case)