Timing Challenges in Automotive Software Architectures

Abstract:
Most of the innovation in the automotive domain is now in electronics and software, which has led to several million lines of code in today’s high-end cars. However, in contrast to software in the general purpose computing domain – where mostly functional correctness is of concern – timing predictability of automotive software is an important problem which is still largely unsolved. More importantly, this problem is solely addressed within the embedded systems domain with little or no participation from the mainstream software engineering community. The goal of this poster is to highlight some of the aspects of timing analysis of automotive software, as an attempt to involve the broader software engineering research community in this problem.

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