UNIVERSIDAD DE CANTABRIA

MAST

Modeling and Analysis Suite for Real-Time Applications

Key features

- Advanced set of schedulability analysis techniques
- Single processor and distributed systems.
- Heterogeneous and hierarchical scheduling platforms
- EDF and preemptible or non-preemptible fixed priority schedulers
- Multipath end-to-end flows
- Automatic assignment of optimized priorities, ceilings and EDF scheduling parameters
- Blocking times for mutual exclusion resources are calculated automatically
- Discrete event simulator for average-case timing behavior.
- Sensitivity analysis enables a fast design space exploration
- Model-based design is supported through in UML/MARTE models in the Eclipse environment

Contact us

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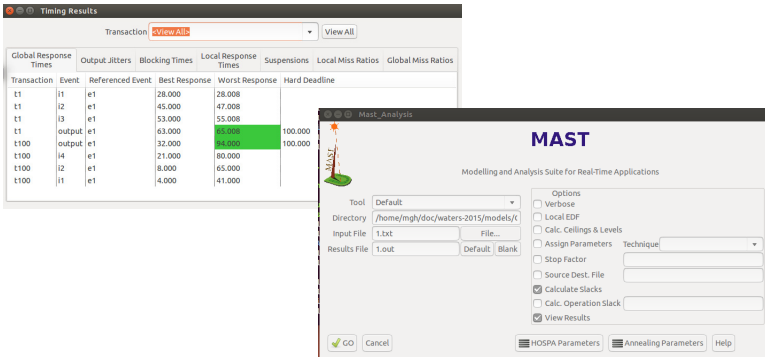
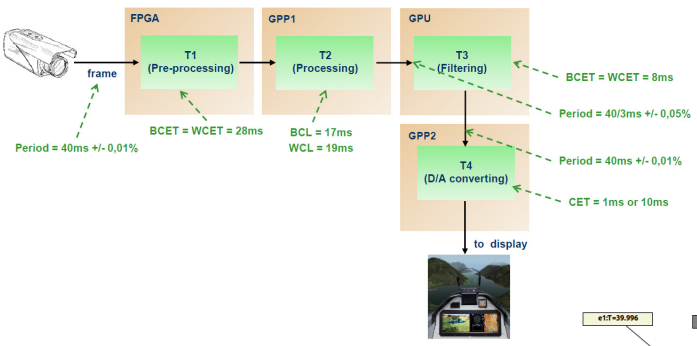
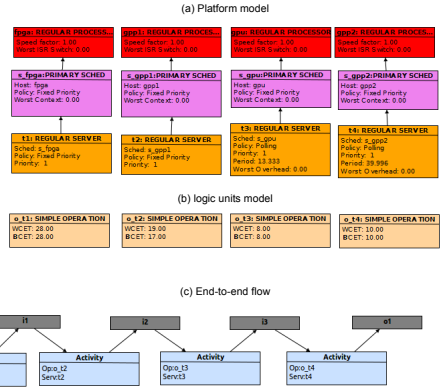
MAST tools

MAST is an open-source suite of tools to perform schedulability analysis of real-time distributed systems that assesses a rich variety of timing requirements. MAST uses a versatile and composable input model for the real-time behavior of the modules and platforms that form your system.



MAST model for FMTV challenge-1





MAST model for FMTV challenge-2