

Architectural Trade-offs: HW/SW co-design: the example of INGEQUIP

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Sub-Title: “Integrated Methods & Tools for embedded equipment, hardware and software design and verification”

The goal of IRT Saint-Exupéry project named INGEQUIP is to define and experiment innovative processes, methods and tools for the development of critical embedded devices. These developments should accelerate the joint equipment, hardware and software development across the lifecycle, the reuse of components and the management of product lines, addressing:

- Formal methods integrated in model bases approach for requirements verification,
- Architecture trade-offs at equipment and hardware level,
- certification based on tool qualification if necessary.

This talk will present briefly the IRT Saint-Exupéry context and the place of INGEQUIP in its strategy, and then the project will be described in term of organization and technical contents.