Magillem X-Spec

Overview

Magillem X-Spec virtualization technology enables you to develop and validate embedded software for your electronic devices, systems, and systems of systems. You can use X-Spec to capture IoT nodes and assemble them into a network of nodes, or for a variety of complex tasks including the simulation of your entire system, the checking of its functional behavior, its responsiveness or its power consumption, and the management of system test sequences.

Main features

- Automatic virtualization of an electronic device from the specification phase
- Capture, assembly, and execution of embedded software
- Management of coherency and consistency of various implementations, expressed in many formats, for multiple configurations, variants, and derivatives
- Connection to 3rd-party databases of Specifications, Requirements, Defects...
- Scalable databases featuring collaborative design, easy query and smart visualization of context-based simulations trace analysis.

Benefits

- Quickly build a virtual prototype of your electronic device way before the physical hardware board is ready, and run an executable demo based on your product specification: X-Spec acts as an early demonstrator of the added-value of your electronic product.
- Deploy an executable platform of your electronic device, together with an updated documentation: X-Spec helps you synchronize your teams and significantly reduces the cost and delay to ship dozens of boards all over the world.
- In just a few clicks, find bugs very early in your development cycle and change your hardware, software, and documentation specifications. Keep a fine-grain trace of all your hardware configurations and keep them in sync, without delaying your release.

Related resources

- Datasheet Magillem X-Spec
- Flyer Multi Domain Virtual Prototyping (MDVP)
• Paper DVCon India 2016: a SystemC Extension for Enabling Tighter Integration of IP-XACT Platforms with Virtual Prototypes
• Paper Embedded World 2017: Using Virtual Prototypes to improve the traceability of critical Embedded Systems
• Press article EDACafe DAC 2016
• Press article EDACafe Enabling IoT