

PragmaDev announces ThreadX support and formal verification capability in Real Time Developer Studio V2.1.

Paris - France - December 10th, 2003 - PragmaDev announces *Real Time Developer Studio V2.1*, the latest release of the first commercial off the shelf tool based on SDL-RT -a UML real time profile- graphical language to develop real time and embedded software.

Real Time Developer Studio targets all development teams working with a Real Time Operating System. It is based on graphical representations of traditional concepts used in real time domain without leaving behind legacy code and years of experience. Its pragmatic approach and low price makes it a good candidate to be widely spread in a market where 90% of the developments projects use no graphical tools.

Real Time Developer Studio V2.1 introduces:

- **Model checking**

Integration with imPROVE-SDL from TNI-Valiosys allows model checking of the SDL-RT system. The SDL-RT model is automatically transferred from Real Time Developer Studio to imPROVE-SDL and whenever a rule is verified or violated the corresponding scenario is displayed as an MSC in Real Time Developer Studio.

imPROVE-SDL is an innovative solution to verify the correct behavior of SDL designs. Unlike simulation - where confidence in a design comes from running an arbitrary number of test cases - formal verification uses exhaustive mathematical techniques to examine the entire solution space of a specified requirement of the design - explicit or not - called a property and extracted from the specifications, thus providing better functional test coverage.

- **Multiple parameters in message**

Following V2.1 of SDL-RT specification, messages can carry several structured parameters. When simulating or debugging the parameters are displayed in a structured way.

- **ThreadX integration**

Generated code can now instantly run on top of ThreadX with no restrictions. ThreadX is Express Logic's advanced Real-Time Operating System (RTOS) designed specifically for deeply embedded applications.

- **Proprietary scheduler integration**

Code generator can now be customized to allow integration with any in-house scheduler.

- **Improved browsing facilities**

Browsing facilities have been added from one editor to another and within a diagram to quickly navigate in the SDL-RT system.

About PragmaDev

PragmaDev is a privately held company based in Paris France that provides a set of tools for the development of real time and embedded software: *Real Time Developer Studio*.

Real Time Developer Studio technology was one of the winners of the 2001 edition of the national competition on innovative technologies organized by the French ministry of research.

PragmaDev is an Altium, Atos Origin, CMX Systems, OSE, OSS Nokalva, Mentor Graphics, Sun Microsystems and Wind River Systems active partner.

About SDL-RT

SDL-RT (Specification and Description Language - Real Time) is the real time extension to well known SDL (Specification and Description Language) standardized by ITU (International Telecommunication Union). It introduces the missing concepts to SDL such as semaphores manipulations and embedded C language gathering the original languages benefits:

- **Graphical representations**
- **Object orientation**
- **Precision**



Version 2.0 introduces UML (Unified Modeling Language) support.

SDL-RT is free and available on <http://www.sdl-rt.org>.

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