PragmaDev Studio V5.4 now running on Raspberry Pi.

Paris - France - October 22nd, 2018 - *PragmaDev Studio* is a recognized modeling tool to describe complex communicating systems. V5.4 introduces Raspbian as a new host platform. Raspbian is the official operating system for all models of the Raspberry Pi. PragmaDev Studio new version runs natively on Raspbian, and its model executor is connected to the real GPIO so that physical hardware connection to the model is done automatically. Output messages connected to GPIO XY must be named GPIO_OUT_XY in the model, and input messages connected to GPIO XY must be named GPIO_IN_XY, and the model is connected to the hardware.

"*Executable models are perfect for verification and exchange between stakeholders. At the same time models are often seen as too abstract and connection to the real world sometimes seems like a hurdle. The Raspberry Pi has been very successful the last few years for teaching and prototyping. It is now even used in some industrial products. Having the ability to model directly on the Raspberry and to interact with the real GPIO was an obvious move for us. This will lead teachers, specifiers, and developers to use our modeling technology.*" says Emmanuel Gaudin, PragmaDev Founder & CEO.

Among the main new features are:

- **Raspbian host**
  All PragmaDev Studio editors and tools run natively on Raspbian, the official Raspberry Pi Linux distribution.
- **ASN.1 tab completion**
  The tab completion feature now includes the types defined in an external ASN.1 file.
- **Multiple find**
  It is now possible to launch several finds in different tabs in the search window and navigate back in the different search results.
- **Improved test traces**
  In order to get a synthetic and clear execution trace, it is now possible to only trace what is exchanged between the SUT (could be the SDL system) and the test cases.
- **Simulation of Cyber-Physical systems with FMI on macOS**
  Cyber Physical Models combine event driven and clock driven elements, critical parts and non critical parts. For that purpose PragmaDev Studio V5.3 introduced the support of the Functionnal Mockup Interface FMI V2.0 on Windows and Linux. V5.4 now supports FMI on macOS as well. The tool imports a Functionnal Mockup Unit (FMU) and analyzes its inputs and outputs. A mapping between the SDL model and the FMU is then defined through a specific interface. Both co-simulation and model exchange modes are supported. PragmaDev Studio acts as a "master" / "importing" tool.

About PragmaDev

PragmaDev is a privately held company based in Paris France that provides since 2001 a set of model driven tools dedicated to the development and test of communicating systems: PragmaDev customers include Airbus, Nokia, Renault, the French Army, Wipro, ST-Microelectronics, Korean Telecom, the European Space Agency, Toshiba, and LG Electronics.

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