dSPACE Release 4.2: Numerous New Features

dSPACE Release 4.2 adds a whole range of new features to several dSPACE tools. AutomationDesk, the test automation software, provides new options for report configuration, plus access to calibration and measurement tools and to Softing’s Diagnostic Tool Set DTS7. ControlDesk, the experiment environment, now allows complex driving maneuvers to be performed with a joystick or a steering wheel. And finally, MotionDesk, the 3-D animation software, has extended analysis features.

New Functions for AutomationDesk
Using AutomationDesk 1.2, the new version of the test automation software, developers can automate dSPACE’s calibration software, CalDesk 1.1, and Softing’s Diagnostic Tool Set DTS7. They can also customize the contents of automatically generated reports by integrating elements such as texts, tables, and images as required (see details on page 16).

Complex Driving Maneuvers with ControlDesk
Joysticks and steering wheels can be connected to the new Version 2.6 of the ControlDesk experiment environment as input devices. This is useful in HIL simulation, making it easy to simulate driving maneuvers that are difficult to implement via keyboard and mouse.

Simultaneous Animations with MotionDesk
MotionDesk 2.0, the 3-D animation software, now has a multitrack mode that visualizes several vehicles simultaneously, each vehicle based on a different simulation run. By overlaying the simulation runs, engineers can see the differences between them at a glance – for example, when comparing a simulated vehicle with and without ESP.

Several New Blocksets
The new RTI RapidPro Control Unit Blockset allows the new RapidPro hardware to be used as an intelligent I/O subsystem (for engine control, for example). Bypass interfaces can be configured with the new Version 2.0 of the RTI Bypass Blockset. RTI CAN MultiMessage Blockset 1.1 provides new functions for editing messages.

For further details on dSPACE Release 4.2, see www.dspace.de/goto?releases