

Press Release

dSPACE Simplifies Bypassing

New ECU Interface Manager from dSPACE accelerates ECU function development

- Bypass hooks integrated quickly into the compiled ECU software
- Support of internal and external bypassing
- Immediate access through automatic hex code analysis

Paderborn, Feb. 15, 2012:

The new ECU Interface Manager from dSPACE enables control engineers to insert bypass hooks intuitively and quickly, directly into the compiled ECU hex code, for incremental ECU function development. No access to either the source code or the build environment of the ECU software is required. The ECU Interface Manager does what the ECU supplier in the past had to do: integrate the bypass services and the service calls, also known as bypass hooks. This simplifies the workflow and speeds up ECU function development projects.

Internal and External Bypassing

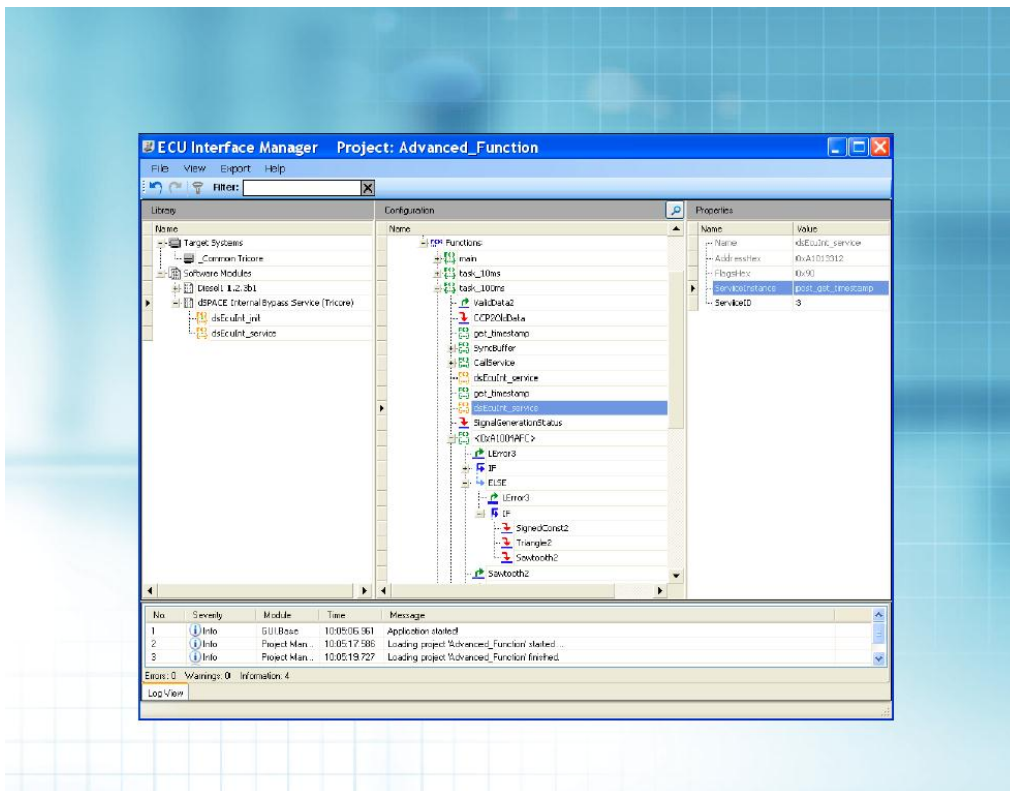
The ECU Interface Manager supports internal bypassing (on-target prototyping), in which free RAM and flash memory areas in the ECU are used to implement controller algorithms, as well as external bypassing, in which the algorithms are developed on an external rapid prototyping system. End users can switch back and forth between these two options without having to modify the controller model.

Automatic Analyzation of ECU Hex Code – Immediate Access

The ECU Interface Manager analyzes the ECU hex code and the associated ECU description file (A2L file), and finds function calls, read/write accesses to ECU variables and conditional branches in the ECU software. With a

configuration file, the ECU supplier can specify which information will actually be displayed in the ECU Interface Manager. Its intuitive user interface allows control engineers to insert the bypass hooks quickly and easily at desired locations. Detailed knowledge of the ECU software is not necessary. At the push of a button, the ECU Interface Manager generates a new HEX file and a new A2L file containing the bypass hooks.

The ECU Interface Manager is currently available for ECUs with Infineon TriCore microcontrollers. Further microcontroller families are planned to be supported in the near future.



The ECU Interface Manager from dSPACE allows the intuitive insertion of bypass hooks or service calls into ECU code.

Contact

dSPACE GmbH
 Bernd Schäfers-Maiwald
 Press Spokesman
 Rathenaustrasse 26
 33102 Paderborn
 Tel: +49 5251 1638-714
 Fax: +49 5251 16198-714
 E-mail: press@dspace.de

Facts about dSPACE

dSPACE is the world's leading provider of hardware and software tools for developing and testing sophisticated electronic control systems. For over 20 years, dSPACE's high-quality, off-the-shelf software and hardware tools have empowered engineers to design and innovate, while dramatically reducing development time and cost. dSPACE's pioneering products such as the MicroAutoBox rapid prototyping systems, hardware-in-the-loop (HIL) simulators, and the automatic production code generator TargetLink have become de facto standards for developing automotive electronics. dSPACE technology also has a great impact on aerospace, medical engineering, industrial automation, electric drives technology and other industries. Academia also uses this technology to nurture engineering talent. Through its headquarters in Paderborn, Germany, as well as its global network of project centers, subsidiaries and distributors, the dSPACE staff of over 900 supports innovations all over the world. To learn more, visit www.dspace.de