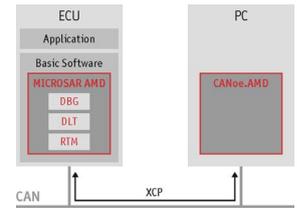


Extensive testing and debugging of embedded software

Stuttgart, GERMANY, 2014-05-08 – The completely revised AUTOSAR basic software package MICROSAR AMD (AUTOSAR Monitoring and Debugging) from Vector now provides extensive testing and debugging functions for AUTOSAR ECUs. The package contains the "Diagnostic Log and Trace" and "Debugging" modules as defined in AUTOSAR 4.x, and also the useful extra "Runtime Measurement Module". Together with the CANoe.AMD test tool, MICROSAR AMD gives ECU developers convenient access to valuable information on runtimes and statuses of the application and basic software. In test environments it is now easier to compare internal ECU parameters to external parameters and bus communication.

MICROSAR AMD consists of the three modules RTM, DLT and DBG. The Runtime Measurement Module (RTM) is an extension of the AUTOSAR standard and permits the measurement of runtimes at any points in the application and the basic software (BSW). Typical applications include the determination of interrupt or task runtimes. CANoe.AMD controls the measurement and generates an HTML report with the measurement results including statistical information (CPU Load, Min, Max, average runtime).

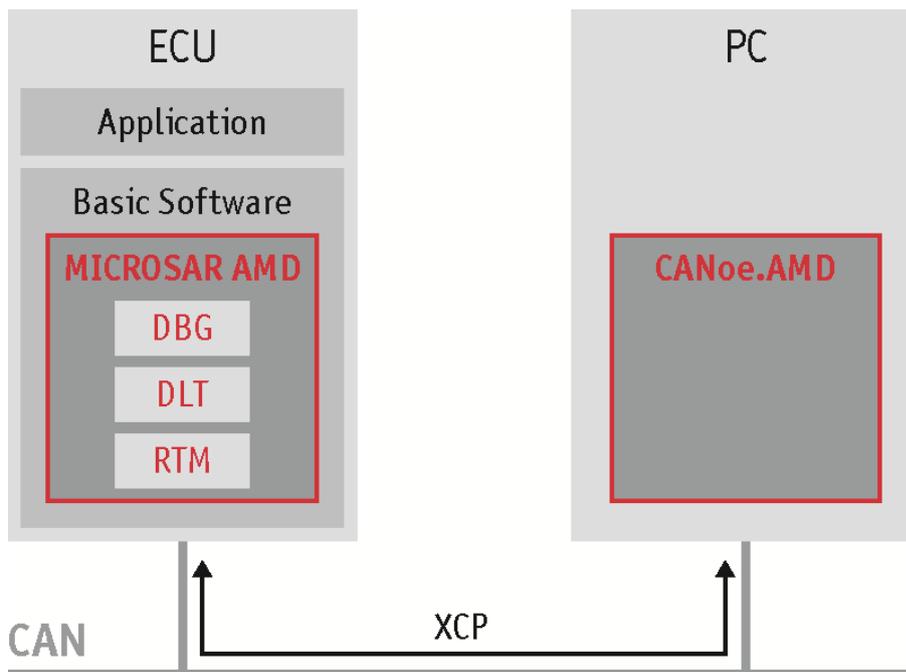
The Diagnostic Log and Trace Module (DLT) derived from AUTOSAR has been optimized for use in slim embedded systems. It informs the developer about freely definable events and statuses in an ECU which are transmitted to CANoe.AMD as text output. Events from the Development Error Tracer (DET) and the fault memory (DEM) can also be transmitted via the DLT module to CANoe.AMD.



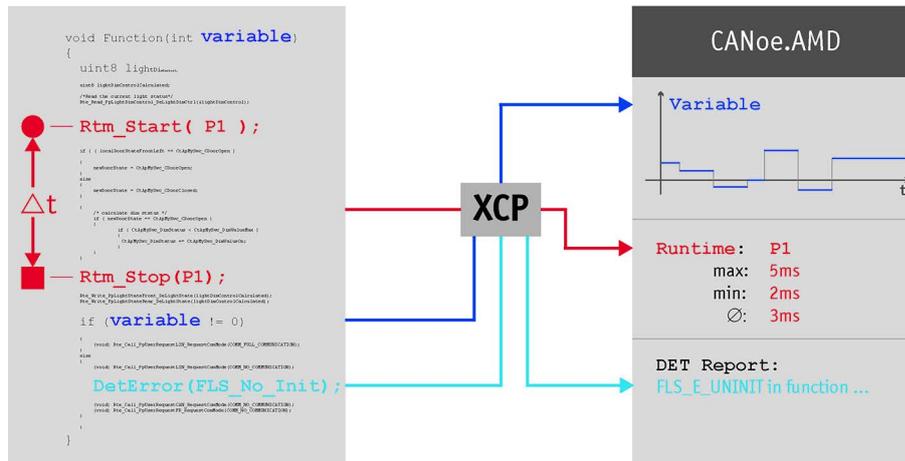
The debug (DBG) interface permits live access to the BSW statuses. Rather than having to perform a test to ascertain these statuses, they are now read directly out of the ECU memory via the bus system and presented in CANoe.AMD.

Communication between a Test PC with CANoe.AMD and the ECU takes place by way of the standardized measurement and calibration protocol XCP. An XCP implementation is available from Vector for all standard network protocols (CAN, Ethernet, FlexRay or LIN).

More product related information: www.vector.com/microsar



[Figure 1a: MICROSAR AMD provides easy access to internal ECU information]



[Optional Figure 1b: MICROSAR AMD provides easy access to internal ECU information]

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Vector Informatik GmbH
 Ingersheimer Str. 24
 70499 Stuttgart
 Germany
www.vector.com

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 If you have any questions before publication please feel free to contact us.

Editorial contact:

Vector Informatik, Germany (Article available in English and German)
 Mrs. Heike Schmidt,
 Tel. +49 711 80670-5356, Fax. +49 711 80670-585356,
 E-mail: heike.schmidt@vector.com

Vector CANtech, North America (Article available in English)
 Mrs. Angela Ferrero,
 Tel. +1 248 504 6447, Fax. +1 248 449 9704,
 E-mail: angela.ferrero@vector.com

Vector GB Ltd., Great Britain (Article available in English)
 Mr. Ray Wrynne,
 Tel. +44 121 50681 52,
 E-mail: ray.wrynne@vector.com

Vector France (Article available in French)
 Ms. Françoise Dessertine,

Tel. +33 1 4 231 4000, Fax. +33 1 4 231 4009,
E-mail: francoise.dessertine@vector.com

Vector Scandinavia, Sweden (Article available in Swedish)
Mr. Jan Schüldt,
Tel. +46 31 764 76 05, Fax. +46 31 764 76 19,
E-mail: jan.schueldt@vector.com

Vector Japan (Article available in Japanese)
Mr. Shinsuke Yokoyama
Tel. +81 3 5769 7825, Fax. +81 3 5898 6975,
E-mail: shinsuke.yokoyama@vector.com

Vector Korea (Article available in Korean)
Mr. Yongseong Kim
Tel. +82 70 8655 3320, Fax. +82 2 807 0601
E-mail: yongseong.kim@vector.com

Vector China (Article available in Chinese)
Ms. Vivian Chen
Tel. +86 21 6432 5353 102, Fax. +86 21 6432 5308
E-mail: vivian.chen@vector.com

About Vector Group (Revised: 2014-05-01):

Vector is the leading manufacturer of software tools and software components for the development of electronic systems and their networking based on CAN, LIN, FlexRay, Ethernet and MOST as well as multiple CAN based protocols.

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