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DACHS
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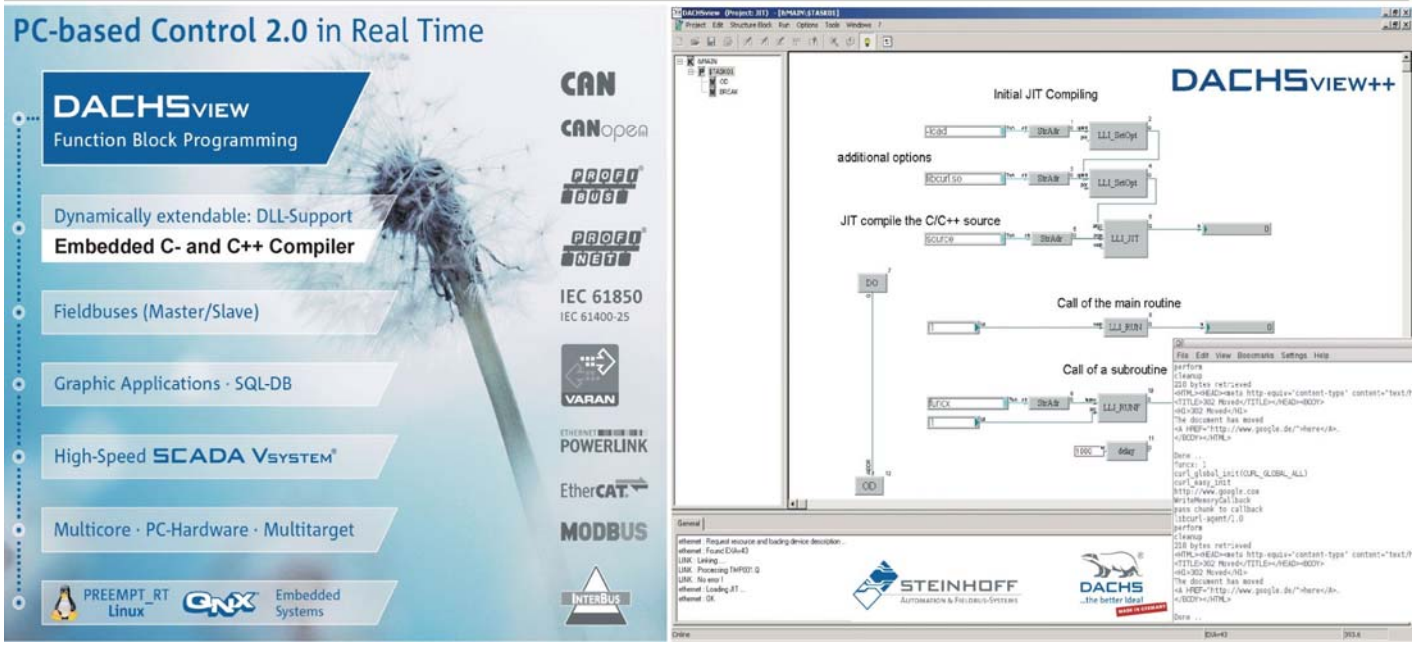
DACHSview with embedded C/C++ JIT Compiler



DACHSview++ Real-Time - Applications can mix up C/C++- and Functionblock Programming

STEINHOFF Automation & Fieldbus-Systems offers now the latest version of the functionblock-based programming tool DACHSview++ which contains a functionblock library for the full integration of C/C++ code via an embedded JIT Compiler. The compiled code is linked directly into the memory and can be called within functionblocks. It means control algorithms are running at optimal speed, as well as arbitrary C/C++ code can be imported. At start time of the functionblock application, the machine code for execution in functionblocks is generated just-in-time within milliseconds.

The full standard of the C/C++ language is supported, there are nearly no restrictions on the takeover of the C/C++ code for the execution within the **DACHSview++ Targets for x86 or ARMv7**, which are available for QNX and PREEMPT_RT Linux.

The arbitrary mixing of C/C++ code and statically defined function-blocks of libraries gives a new flexibility for the implementation of control and real-time applications. Project teams for demanding real-time applications can even work very effective with only one C/C++ developer in the team when the other team members are developing on the abstraction level of functionblocks.

The standard version of DACHSview++ comes with functionblock libraries for embedded C- and C/C++ -compilers as well as function-block libraries for 2D and 3D graphics, standard GUI elements, TTF support, a SQL database, and the message-passing-based middleware ZeroMQ. Support of Dynamic Link Libraries and the scripting language LUA is included.

Additional offered options are functionblock libraries for many fieldbuses, and an interface for OPC.
A functionblock library for the high performance real-time SCADA-database Vaccess® for DACHSview-Vsystem® is a special offering for SCADA customers from Vista Control Systems®.

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