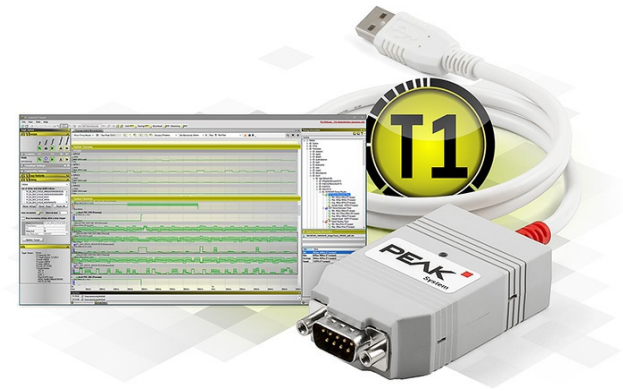
CAN Newsletter Online

CAN INTERFACES

Supported by automotive tool suite

The recent T1 software analysis tool version from Gliwa Embedded Systems supports all CAN interfaces from Peak-System.



The T1 suite allows safe instrumentation-based resource analysis, timing analysis, and timing verification (Source: Peak-System)

This functionality is part of the T1-Host-SW from version 3.2.0. Support of the CAN interfaces is made possible by the free-available PCAN-Basic API (application programming interface) from Peak-System.

Gliwa is a provider of automotive ECU (electronic control unit) software analysis tools for analysis of runtime behavior, stack requirements, and memory accesses of embedded software. The company also offers solutions in the area of runtime protection, system analysis, as well as individual engineering services. Peak-System offers hardware, software, and services for the field of automotive and industrial communication. The focus lies on the CAN (FD) and LIN (local interconnect network) networks.

The T1 suite is the most frequently deployed timing tool in the automotive industry, being used for many years in hundreds of automotive mass-production projects, stated Gliwa. The ISO 26262 ASILâ€'D certified T1-Target-SW allows safe instrumentation-based resource analysis, timing analysis, and timing verification. The tool's use cases include timing measurements (e.g. max./min., net execution times), target-side timing supervision, automated timing tests and debugging, as well as timing effect verification of additional functionality before implementation. Further, the suite allows for investigation of data flows, event chains, and synchronization effects in multi-core projects. The capability to trace the timing and functional problems without halting the target is particularly valuable in multi-core projects where it may be impractical to halt a single core. Via available extensions and plug-ins it is possible to stream trace data continuously (also over days), to support Linux or QNX operating systems, and to visualize the data.

of