



DAS

Device Access Server

Description

The DAS architecture is designed for multi-device, multi-core systems with very demanding emulation requirements.

The goal of the DAS architecture is to provide one single interface for all types of tools, which fulfills all performance and reliability needs.

The tool interface is on software level (DAS API) and implemented in a generic DLL. It provides the abstraction of the physical device connection, which becomes just a parameter value in the connection setup phase. During operation the physical connection e.g. JTAG/DAP is fully transparent for the tool. On DAS API level the physical device connection is represented by address based accesses (DAS Transaction Lists) and prioritized, stream based data exchange (DAS Channels).

Applications

- Debugging
- Testing
- Calibration
- Measurement
- Programming

These applications modes are used by debug, emulation or calibration tools. From DAS perspective the general term for these tools is DAS client.

Architecture

DAS has a TCP/IP based client server architecture. The DAS Client part is implemented in a DLL, which is generic for all device types and physical interfaces. Within a DAS Server there is as well a generic part, which handles the DAS Client connection and a lower layer which is specific for a physical interface. This layer can be even split between host computer and an external hardware (e.g. DAP miniWiggler connected over USB)

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Features

- Single physical (debugger) interface of a chip can be shared by different tools
- Tools can run as independent processes on same or different computers, connected the DAS Server by LAN or VPN
- High performance even on connections with significant latency (e.g. VPN with 10ms)
- Hot attach/detach of connected devices and DAS Clients
- Robust against DAS Clients terminating in any state
- Support of multi-device and multi-core debugging
- Support of little or big endian devices
- DAS Servers available for C-Models and XCP over Ethernet
- Installer for DAS Edition which supports Infineon's TriCore, XC2000, XE166, XC166 and XC800 families
- Support for non Infineon devices from specific tool partners

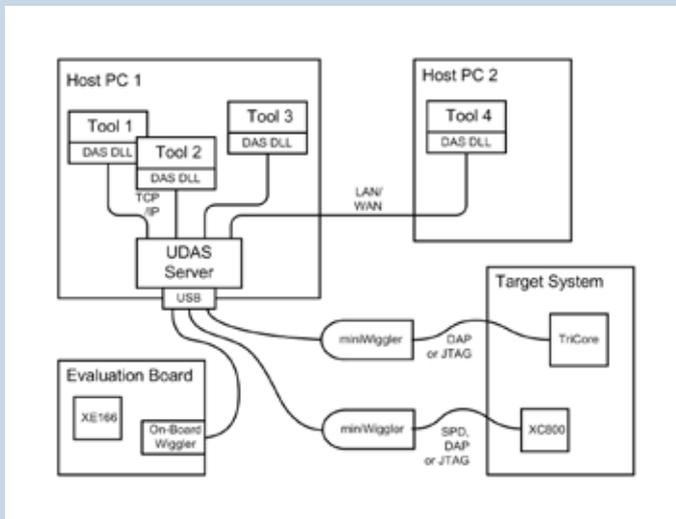
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Interface Examples



Application Example



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