Device Access Server Introduction

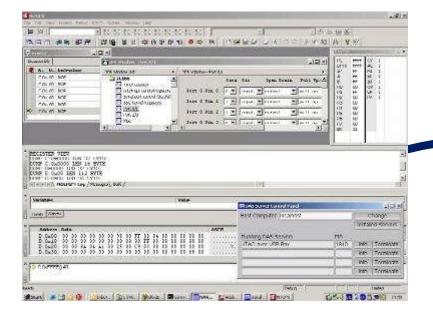
http://www.infineon.com/DAS







DAS Device Access Server



DAS

Abstraction of physical

connection

Tool to Device



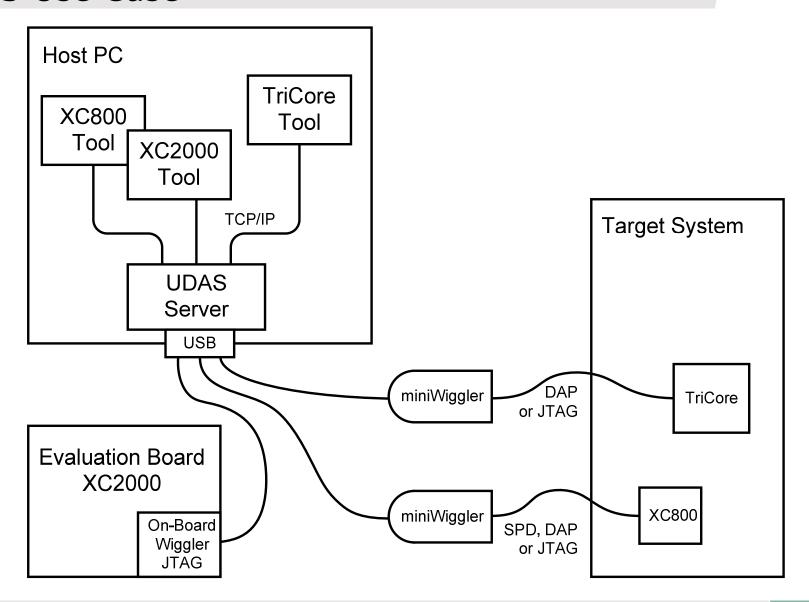






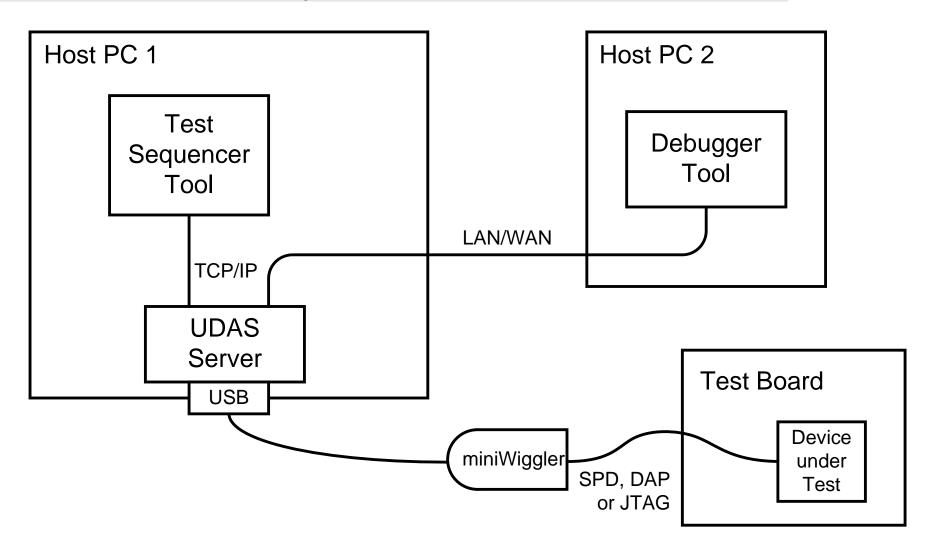


DAS Use Case





DAS Multi-Tool Operation





DAS Implementations with UDAS Server

Interfaces

- JTAG
- DAP
- SPD
- ARM SWD
- Simulator (C-Models)

Supported Devices

- > XC800
- XC166, XE166/XC2000
- › TriCore™, AURIX™
- XMC4000, XMC1000



DAS Hardware





DAP miniWiggler V3



- Up to 2 MByte/s, low latency (< 150 μs for single access)</p>
- More information <u>www.infineon.com/DAS</u>

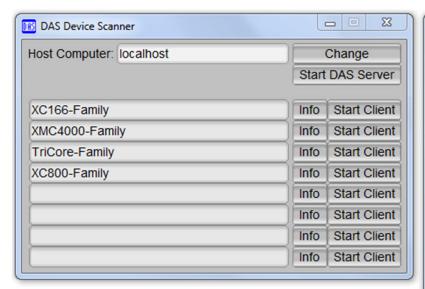


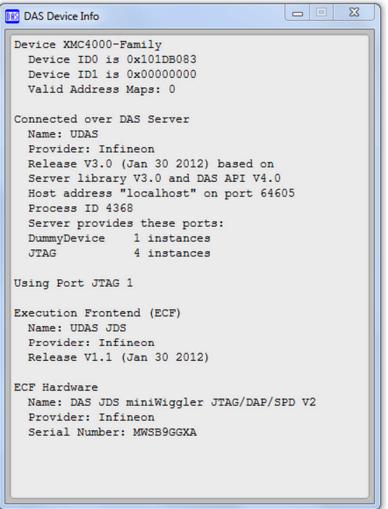
DAS Tools

- Part of DAS Installation
- Allow to demonstrate and check the DAS operation
- All tools are fully generic
 (no interface type or device type specific adaptation code inside)
- MCD Basic Client uses the MCD library on top of DAS
 - MCD implements run control (start, stop, breakpoints, etc.)
 - MCD API is core centric and generic
 - MCD implementation is device specific
- MCDS Trace Viewer for AURIX™ Emulation Devices

DAS Tools Device Scanner for Multi Device

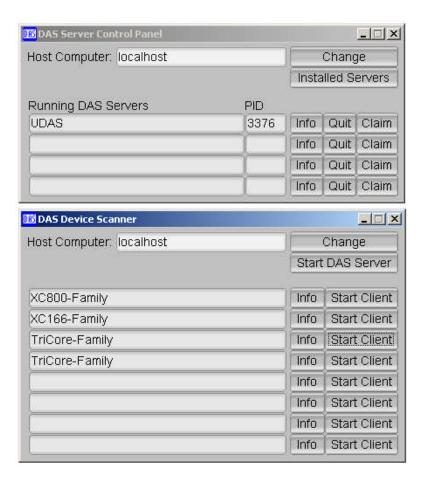


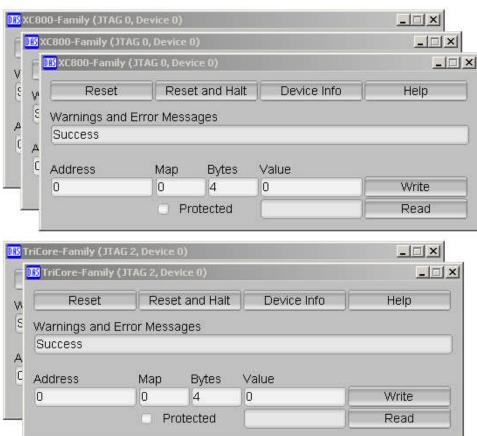






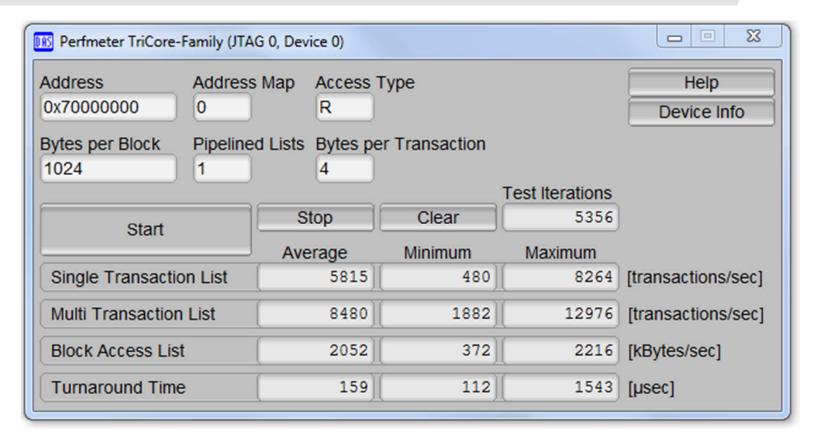
DAS Tools: Multi Client







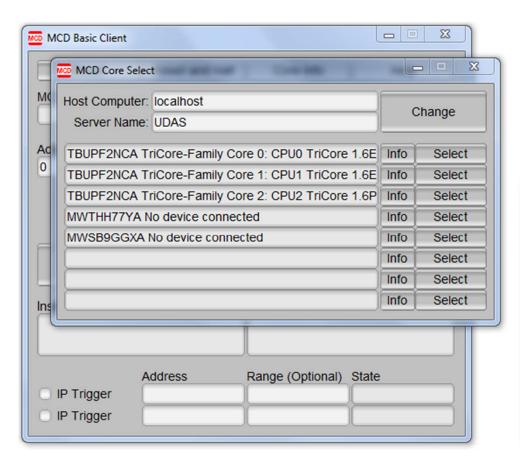
DAS Perfmeter

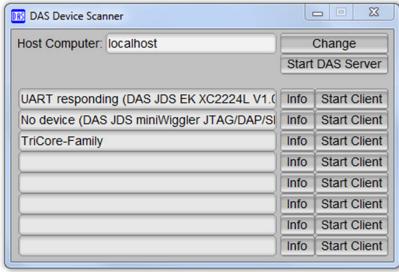


- Measures key performance figures
- Allows quantitative comparison of DAS implementations
- Part of the standard DAS installation



Parallel View with DAS and MCD Basic Client

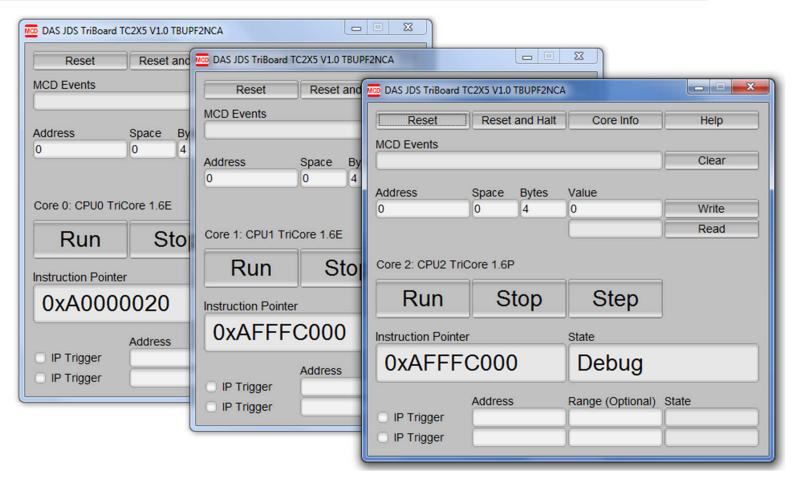




- MCD API is core centric
- DAS is device (access HW) centric



MCD Basic Client

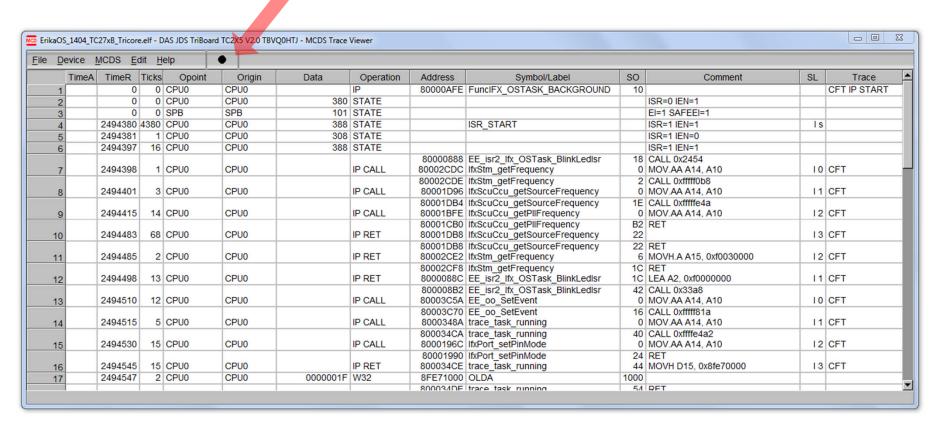


- Open one instance per core
- Supports remote connection via TCP/IP

MCDS Trace Viewer One Touch Trace



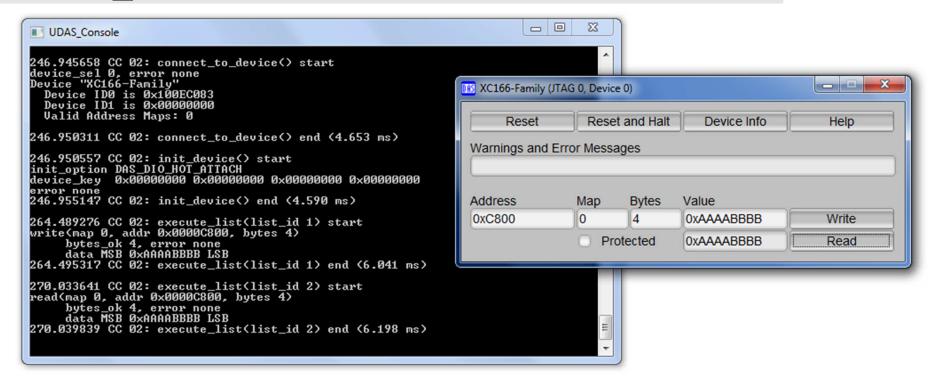
Click Here



Connect AURIX™ TriBoard and click on button
This powerful tool is free of charge but also without support



UDAS_Console Server



- Allows analysis of tool and device behavior
 e.g. for debugging of the multi-tool setup itself
- Needs to be started manually from DAS installation directory
- Factor 10x-40x for DAS latency between visible and minimized console window → Tool becomes slow when not minimized



DAS Installer



- Removes automatically old USB drivers
- Configures firewall



Summary

- DAS as tool connection is a standard for Infineon
 - On-board wiggler for evaluation boards
 - miniWiggler for customer boards
- Supports JTAG, DAP, SPD and SWD
- DAS hides the details of the device connection from the tool
- Proven technology broadly used internally and by customers

http://www.infineon.com/DAS