

# About the TRACE32 Online Help

Release 09.2025

## History

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- 27-Aug-2025 Removed manual: 'Debugging Embedded Cores in Xilinx FPGAs [PPC4xx]' (app\_xilinx\_ppc400.pdf).
- 18-Aug-2025 Removed manuals:  
'Integration for EasyCase' (int\_easycase.pdf),  
'Integration for eXDI2 on Windows CE Platform Builder' (int\_exdi2.pdf),  
'Integration for Rhapsody in MicroC' (int\_rhapsody\_mc.pdf),  
'Integration for X-Tools and X32' (int\_xtools.pdf).
- 05-Nov-2024 Removed manual 'Run Mode Debugging Manual QNX' (rtos\_qnx\_run.pdf).
- 04-Nov-2024 Removed manuals:  
'Training Basic Debugging' (training\_debugger.pdf),  
'Training Basic SMP Debugging for Intel® x86/x64' (training\_debugger\_x86.pdf).
- 04-Nov-2024 Removed manuals:  
'Training AURIX Tracing' (training\_aurix\_trace.pdf),  
'Training Power Probe' (training\_pp.pdf).
- 04-Nov-2024 Removed manual: 'StarCore Application Note for MXC Chips' (starcore\_mxc\_app.pdf).
- 04-Nov-2024 Removed manuals:  
'Tools for Intel® x86/x64' (tools\_intel\_x86.pdf),  
'Training Linux Debugging for Intel® x86/x64' (training\_rtos\_linux\_x86.pdf).
- 04-Nov-2024 Removed manual: 'MAC71xx/72xx NEXUS Debugger and Trace' (nexus\_mac.pdf).
- 04-Nov-2024 Removed manuals:  
'EPROM/FLASH Simulator' (eprom\_simulator.pdf),  
'LIN Bus Protocol Analyzer' (linbus\_app.pdf).
- 04-Nov-2024 Removed manual: 'Modifying Xilinx ML605 for Direct JTAG Access' (app\_ml605.pdf).
- 04-Nov-2024 Removed manuals:  
'Arm Application Note for MXC Chips' (app\_arm\_mxc.pdf),  
'Training Arm CoreSight ETM Tracing' (training\_arm\_etm.pdf).
- 05-Aug-2024 Removed manual: 'Establish Your Debug Session' (tutor\_setup.pdf).
- 05-Aug-2024 Removed manual: 'Arm ETM Programming Dialog' (trace\_arm\_etm\_dialog.pdf).

- 02-Aug-2024 Removed manual: 'Training Simulator and Demo Software' (demo.pdf).
- 01-Aug-2024 Removed manuals:  
'Stimuli Generator Function Reference' (stg\_func.pdf),  
'Stimuli Generator Reference Guide' (stg\_ref.pdf),  
'Stimuli Generator User's Guide' (stg\_user.pdf).
- 30-Jul-2024 Manual renamed from 'Training Nexus Tracing' (training\_nexus.pdf) to '[Training MPC5xxx/SPC5xx Nexus Tracing](#)' (training\_nexus\_mpc5500.pdf).
- 15-Apr-2024 Removed manual: 'DigRF Protocol Analyzer' (digrf\_app.pdf).
- 29-Mar-2024 Manual 'Arm JTAG Interface Specifications' (app\_arm\_jtag.pdf) has been replaced by an updated manual entitled '[Arm Debug and Trace Interface Specification](#)' (app\_arm\_target\_interface.pdf).
- 22-Mar-2024 Removed Monitor manuals.
- 30-Jun-2023 New manual: '[Application Note Profiling on AUTOSAR CP with ARTI](#)' (app\_autosar\_cp\_arti.pdf).
- 12-Jun-2023 The 'TRACE32 Glossary' (glossary.pdf) manual has been split into two manuals: '[TRACE32 Terminology](#)' (trace32\_terms.pdf) and '[TRACE32 Concepts](#)' (trace32\_concepts.pdf).
- 12-Jun-2023 Removed manual: 'OS Awareness Manual RTOS/7700' (rtos\_rt7700.pdf).
- 24-May-2023 Manual file renamed from 'Training Source Level Debugging' (training\_hll.pdf) to '[Training Source Level Debugging](#)' (training\_source\_level\_debugging.pdf).

## Structure and Contents of the Documentation

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This chapter outlines the structure of the TRACE32 documentation. The release history provides an overview of the most recent changes in the TRACE32 software. When installing a new version of TRACE32, it is recommended to review the release history first, located in the installation directory under [pdf/release\\_history.html](#).

<b>NOTE:</b>	For software changes prior to February 2021, refer to " <a href="#">Legacy Release History</a> " (release_legacy.pdf)
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## Online Documentation

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There are several ways to get access to the documentation:

1. If the TRACE32 software is already running, you can use the **Help** command in the main menu bar.
2. On the TRACE32 software DVD and in your TRACE32 system path (e.g. **C:\T32**), you can find a directory **pdf**. This directory contains the complete TRACE32 documentation in PDF format.  
Open **directory.pdf** to get the table of contents for the complete TRACE32 documentation.

Documentation on how to use the online help can be found in chapter [Help System](#).

The documentation is *automatically* filtered by your currently used hardware and/or software configuration. The filter automatically reduces the whole documentation to the part that is relevant for you. If you want to change the filter, take a look at the command [HELP.FILTER](#).

TRACE32-ICD includes all debuggers based on an on-chip debug interface (e.g. JTAG, BMD, OCDS ...) as well as ROM monitor solutions. Lauterbach also provides a trace extension for most debuggers (TRACE32-ICT). TRACE32-ICD comes with a number of manuals that should make you familiar with important features of TRACE32-ICD.

## Manuals to help you get started:

- **“Debugger Tutorial” (debugger\_tutorial.pdf)**  
A guided tour through the TRACE32 graphical user interface (GUI) called TRACE32 PowerView. We use a simple program example in C to illustrate the most important debug features and give lots of helpful tips & tricks for everyday use.
- **“Training Basic SMP Debugging” (training\_debugger\_smp.pdf)** - An introduction to SMP debugging
- **“Training Script Language PRACTICE” (training\_practice.pdf)** - An introduction to PRACTICE, the scripting language for TRACE32

## Sources of information beyond the PDF files of the TRACE32 online help:

- <https://support.lauterbach.com/downloads/files/practice-reference-card-pdf-2> - Reference Card for the most common commands of the PRACTICE scripting language
- <https://www.youtube.com/user/lauterbachgmbh> - A variety of tutorials on the Lauterbach YouTube channel

## For more information on the features of TRACE32-ICD, refer to the following parts of the TRACE32 online help:

- **“TRACE32 Installation Guide” (installation.pdf)**  
This part is the general installation guide for all TRACE32 development tools.
- **“ICD In-Circuit Debugger”**  
This part provides all CPU specific information for your TRACE32-ICD, chiefly how to set up the debugger for your target. Here you will also find all extra features that are supported for your CPU.
- **“General Reference Guide” (general\_ref\_<x>.pdf)**  
This part provides an alphabetical list of all debugger commands.
- **“TRACE32 Functions Reference” (<x>\_func.pdf)**  
Refer to this part for information about the TRACE32 PRACTICE functions.
  
- **“PowerView User’s Guide” (ide\_user.pdf)**  
All TRACE32 development tools share the common user interface TRACE32 PowerView. This part describes the basic functions of the user interface (command structure, online help, editing and managing files, printer operations, etc.)

- **“PowerView Command Reference” (ide\_ref.pdf)**

This part provides an alphabetical list of all TRACE32 PowerView commands.

- **“PRACTICE Script Language User’s Guide” (practice\_user.pdf)**

The TRACE32 script language PRACTICE is mainly used to perform automatic setups, to automate test sequences or to store the system settings for later recall. This part describes the basic structure and features of PRACTICE.

- **“PRACTICE Script Language Reference Guide” (practice\_ref.pdf)**

This part provides an alphabetical list of all PRACTICE commands.

- **“OS Awareness Manuals” (rtos\_<os>.pdf)**

Refer to this part if you want to use the TRACE32 OS Awarenesses (= RTOS Debuggers in previous TRACE32 releases).

- **“3rd-Party Tool Integrations” (int\_<x>.pdf)**

Refer to this part, if you want to run TRACE32-ICD from a 3rd-party user interface.

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TRACE32 Terminology .....	(trace32_terms.pdf)
<b>TRACE32 Debugger Getting Started</b>	
T32Start .....	(app_t32start.pdf)
Debugger Tutorial .....	(debugger_tutorial.pdf)
Trace Tutorial .....	(trace_tutorial.pdf)
<b>TRACE32 Documents</b>	
TRACE32 Concepts .....	(trace32_concepts.pdf)
<b>PowerView User Interface</b>	
PowerView User's Guide .....	(ide_user.pdf)
PowerView Command Reference .....	(ide_ref.pdf)
<b>PRACTICE Script Language</b>	
PRACTICE Script Language User's Guide .....	(practice_user.pdf)
PRACTICE Script Language Reference Guide .....	(practice_ref.pdf)
<b>TRACE32 Functions</b>	
PowerView Function Reference .....	(ide_func.pdf)
General Function Reference .....	(general_func.pdf)
<b>Application Notes for PRACTICE</b>	
Converter from GEL to PRACTICE .....	(converter_gel.pdf)
<b>Remote Control</b>	
API for Remote Control and JTAG Access in C .....	(api_remote_c.pdf)
Controlling TRACE32 via Python 3 .....	(app_python.pdf)
<b>General Commands</b>	
General Commands Reference Guide A .....	(general_ref_a.pdf)
General Commands Reference Guide B .....	(general_ref_b.pdf)
General Commands Reference Guide C .....	(general_ref_c.pdf)
General Commands Reference Guide D .....	(general_ref_d.pdf)
General Commands Reference Guide E .....	(general_ref_e.pdf)
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General Commands Reference Guide G .....	(general_ref_g.pdf)

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General Commands Reference Guide M .....	(general_ref_m.pdf)
General Commands Reference Guide N .....	(general_ref_n.pdf)
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General Commands Reference Guide P .....	(general_ref_p.pdf)
General Commands Reference Guide Q .....	(general_ref_q.pdf)
General Commands Reference Guide R .....	(general_ref_r.pdf)
General Commands Reference Guide S .....	(general_ref_s.pdf)
General Commands Reference Guide T .....	(general_ref_t.pdf)
General Commands Reference Guide U .....	(general_ref_u.pdf)
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General Commands Reference Guide Y .....	(general_ref_y.pdf)
General Commands Reference Guide Z .....	(general_ref_z.pdf)

## Source Level Debugging

Application Note C++ Debugging .....	(app_cpp_debugging.pdf)
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## Multicore Debugging

Application Note for iAMP Debugging .....	(app_iamp.pdf)
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## FLASH Programming

Onchip/NOR FLASH Programming User's Guide .....	(norflash.pdf)
NAND FLASH Programming User's Guide .....	(nandflash.pdf)
Serial FLASH Programming User's Guide .....	(serialflash.pdf)
eMMC FLASH Programming User's Guide .....	(emmcflash.pdf)

### Application Notes for FLASH

How to Write your own FLASH Algorithm .....	(flash_app_own_algorithm.pdf)
Tips to Solve NOR FLASH Programming Problems .....	(flash_diagnosis.pdf)
How to Write your own FLASHFILE Algorithm .....	(flashfile_app_own_algorithm.pdf)

## JTAG

Application Note JTAG Interface .....	(app_jtag_interface.pdf)
<b>Boundary Scan</b>	
Boundary Scan User's Guide .....	(boundary_scan.pdf)
<b>TRACE32 Lua Library</b>	
TRACE32 Lua Library .....	(lua_library.pdf)
<b>Intel® DCI [Direct Connect Interface]</b>	
Debugging via Intel® DCI User's Guide .....	(dci_intel_user.pdf)
<b>Peripheral Files</b>	
Peripheral Files Programming .....	(per_prog.pdf)
Converter SPIRIT XML to PER Commands .....	(converter_spiritxml.pdf)
<b>Complex Trigger Language</b>	
Application Note for Complex Trigger Language .....	(app_ctl.pdf)
<b>Trace Application Notes</b>	
<b>Trace Analysis</b>	
Application Note for Trace.PLOT .....	(app_trace_draw.pdf)
Application Note for Trace.Find .....	(app_trace_find.pdf)
Application Note for Trace.List .....	(app_trace_list.pdf)
Application Note for eMMC Analysis .....	(app_analyze_emmc.pdf)
Application Note Profiling on AUTOSAR CP with ARTI .....	(app_autosar_cp_arti.pdf)
<b>Software Traces</b>	
Application Note for FDX .....	(app_fdx.pdf)
Application Note for the SNOOPER Trace .....	(app_snooper.pdf)
Application Note for the LOGGER Trace .....	(app_logger.pdf)
<b>Code Coverage</b>	
Application Note for t32cast .....	(app_t32cast.pdf)
Application Note for Trace-Based Code Coverage .....	(app_code_coverage.pdf)
AutoFocus User's Guide .....	(autofocus_user.pdf)
PowerTrace Serial User's Guide .....	(serialtrace_user.pdf)
System Trace User's Guide .....	(trace_stm.pdf)
<b>Bootloader Awareness Manuals</b>	
Bootloader Awareness Manual coreboot .....	(boot_coreboot.pdf)
Bootloader Awareness Manual GRUB .....	(boot_grub.pdf)
<b>UEFI Awareness Manuals</b>	

UEFI Awareness Manual BLDK .....	(uefi_bldk.pdf)
UEFI Awareness Manual H2O .....	(uefi_h2o.pdf)
UEFI Awareness Manual TianoCore .....	(uefi_tiano.pdf)
<b>OS Awareness Manuals</b>	
OS Awareness Manual AMX .....	(rtos_amx.pdf)
<b>OS Awareness Manuals for ARTI</b>	
Application Note Profiling on AUTOSAR CP with ARTI .....	(app_autosar_cp_arti.pdf)
OS Awareness Manual Atomthreads .....	(rtos_atomthreads.pdf)
OS Awareness Manual ARTX-166 .....	(rtos_rtxartx166.pdf)
OS Awareness Manual ChibiOS/RT .....	(rtos_chibios.pdf)
OS Awareness Manual Cmicro .....	(rtos_cmicro.pdf)
OS Awareness Manual CMX .....	(rtos_cmx.pdf)
OS Awareness Manual DSP/BIOS .....	(rtos_bios.pdf)
OS Awareness Manual eCos .....	(rtos_ecos.pdf)
OS Awareness Manual embOS .....	(rtos_embos.pdf)
OS Awareness Manual FAMOS .....	(rtos_famos.pdf)
OS Awareness Manual FreeRTOS .....	(rtos_freertos.pdf)
<b>OS Awareness and Run Mode Debugging for Linux</b>	
Run Mode Debugging Manual Linux .....	(rtos_linux_run.pdf)
OS Awareness Manual Linux .....	(rtos_linux_stop.pdf)
Training Linux Debugging .....	(training_rtos_linux.pdf)
OS Awareness Manual LiteOS .....	(rtos_liteos.pdf)
OS Awareness Manual LynxOS .....	(rtos_lynx.pdf)
OS Awareness Manual MicroC/OS-II .....	(rtos_ucos.pdf)
OS Awareness Manual MicroC/OS-III .....	(rtos_ucos3.pdf)
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OS Awareness Manual MQX .....	(rtos_mqx.pdf)
OS Awareness Manual MTOS-UX .....	(rtos_mtos.pdf)
OS Awareness Manual NetBSD .....	(rtos_netbsd.pdf)
OS Awareness Manual NORTi .....	(rtos_norti.pdf)
OS Awareness Manual Nucleus PLUS .....	(rtos_nucleus.pdf)
OS Awareness Manual NuttX .....	(rtos_nuttX.pdf)

OS Awareness Manual OKL4 .....	(rtos_okl4.pdf)
OS Awareness Manual OS21 .....	(rtos_os21.pdf)
OS Awareness Manual OS-9 .....	(rtos_os9.pdf)
OS Awareness Manual OSE Delta .....	(rtos_ose_delta.pdf)
OS Awareness Manual OSE Epsilon .....	(rtos_ose_epsilon.pdf)
OS Awareness Manual OSEck .....	(rtos_oseck.pdf)
<b>OS Awareness for OSEK/ORTI</b>	
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<b>Application Note for OSEK/ORTI</b>	
Trace Export for Third-Party Timing Tools .....	(app_timing_tools.pdf)
OS Awareness Manual PikeOS .....	(rtos_pikeos.pdf)
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OS Awareness Manual pSOS+ .....	(rtos_psos.pdf)
OS Awareness Manual PX5 .....	(rtos_px5.pdf)
OS Awareness Manual PXROS .....	(rtos_pxros.pdf)
<b>OS Awareness and Run Mode Debugging for QNX</b>	
OS Awareness Manual QNX .....	(rtos_qnx.pdf)
OS Awareness Manual QXK .....	(rtos_qxk.pdf)
OS Awareness Manual REALOS .....	(rtos_realos.pdf)
OS Awareness Manual RealTimeCraft .....	(rtos_realtimcraft.pdf)
OS Awareness Manual RIOT .....	(rtos_riot.pdf)
OS Awareness Manual RTEMS .....	(rtos_rtems.pdf)
OS Awareness Manual RTX-ARM .....	(rtos_rtxarm.pdf)
OS Awareness Manual RTXC Quadros .....	(rtos_quadros.pdf)
OS Awareness Manual Rubus OS .....	(rtos_rubus.pdf)
OS Awareness Manual Sciopta .....	(rtos_sciopta.pdf)
OS Awareness Manual SMX .....	(rtos_smx.pdf)
OS Awareness Manual SYS/BIOS .....	(rtos_sysbios.pdf)
OS Awareness Manual ThreadX .....	(rtos_threadx.pdf)
OS Awareness Manual uClinux .....	(rtos_uclinux.pdf)
OS Awareness Manual uiPLUS .....	(rtos_uiplus.pdf)
OS Awareness Manual VDK .....	(rtos_vdk.pdf)
OS Awareness Manual VxWorks .....	(rtos_vxworks.pdf)

## OS Awareness Manuals for Windows

OS Awareness Manual Windows CE4/CE5 .....(rtos\_windows\_ce.pdf)

OS Awareness Manual Windows CE6/EC7/EC20 .....(rtos\_windows\_ce6.pdf)

OS Awareness Manual Windows Standard .....(rtos\_windows.pdf)

OS Awareness Manual XOS .....(rtos\_xos.pdf)

OS Awareness Manual Zephyr ..... (rtos\_zephyr.pdf)

## Hypervisor Debugging

Hypervisor Debugging User Guide .....(hypervisor\_user.pdf)

### Hypervisor Awareness Manuals

Hypervisor Awareness Manual Wind River Hypervisor .....(hv\_windriver.pdf)

## GDB Support

TRACE32 as GDB Front-End .....(frontend\_gdb.pdf)

TRACE32 as GDB Back-End .....(backend\_gdb.pdf)

Converter from GDB to PRACTICE .....(converter\_gdb.pdf)

## Virtual Targets

Virtual Targets User's Guide ..... (virtual\_targets.pdf)

## Debug Back-Ends

TRACE32 Debug Back-Ends .....(backend\_overview.pdf)

CSWP Debug Back-End ..... (backend\_cswp.pdf)

GTL Debug Back-End .....(backend\_gtl.pdf)

SneakPeek Debug Back-End .....(backend\_sneakpeek.pdf)

Debugging via USB User's Guide ..... (usbdebug\_user.pdf)

Verilog Debug Back-End ..... (backend\_verilog.pdf)

XCP Debug Back-End ..... (backend\_xcp.pdf)

Native Process Debugger ..... (windows\_debugger.pdf)

## 3rd-Party Tool Integrations

Integration for CodeBlocks .....(int\_codeblock.pdf)

Integration with LabView ..... (int\_labview.pdf)

Integration for Rhapsody in C/C++ .....(int\_rhapsody\_cpp.pdf)

Integration for Simulink .....(int\_simulink.pdf)

Integration for Xilinx ISE ..... (int\_ise.pdf)

Integration for Xilinx Vivado ..... (int\_vivado.pdf)

TRACE32 as TCF Agent ..... (app\_tcf\_setup.pdf)

## TRACE32 Instruction Set Simulators

API for TRACE32 Instruction Set Simulator .....	(simulator_api.pdf)
Simulator for 68K/ColdFire .....	(simulator_68k.pdf)
Simulator for ARC .....	(simulator_arc.pdf)
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Simulator for H8/300, H8/300H and H8S .....	(simulator_h8.pdf)
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Simulator for NIOS-II .....	(simulator_nios.pdf)
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Simulator for TriCore .....	(simulator_tricore.pdf)
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Simulator for Z80+ .....	(simulator_z80.pdf)

## ICD In-Circuit Debugger

### ICD Add-Ons

TPU Debugger .....	(tpu.pdf)
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### Processor Architecture Manuals

#### 78K

78K0R/RL78 Debugger .....	(debugger_78k.pdf)
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#### Andes

Andes Debugger .....	(debugger_andes.pdf)
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#### APEX

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#### APS

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#### Arm/CORTEX/XSCALE

Arm Debugger .....	(debugger_arm.pdf)
Armv8 and Armv9 Debugger .....	(debugger_armv8v9.pdf)
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CombiProbe for Cortex-M User's Guide .....	(combiprobe_cortexm.pdf)
MicroTrace for Cortex-M User's Guide .....	(microtrace_cortexm.pdf)
Arm ETM Trace .....	(trace_arm_etm.pdf)
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RAM Trace Port .....	(trace_rtp.pdf)
<b>Arm Application Notes</b>	
Arm Debug and Trace Interface Specification .....	(app_arm_target_interface.pdf)
Setup of the Debugger for a CoreSight System .....	(app_arm_coresight.pdf)
Debugging Embedded Cores in Xilinx FPGAs [Zynq] .....	(app_xilinx_zynq.pdf)
<b>AVR32</b>	
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Hexagon-ETM Trace .....	(trace_hexagon_etm.pdf)
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<b>Meta</b>	
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<b>Mico32</b>	
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<b>MicroBlaze</b>	
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Connecting to MicroBlaze Targets for Debug and Trace .....	(app_microblaze.pdf)
<b>MIPS</b>	

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<b>NIOS II Application Note</b>	
NIOS II Instantiating the Off-chip Trace Logic .....	(app_nios.pdf)
<b>PPC400/PPC440</b>	
PPC400/PPC440 Debugger and Trace .....	(debugger_ppc400.pdf)
<b>PQ/MPC500</b>	
MPC5xx/8xx Debugger and Trace .....	(debugger_ppc.pdf)
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<b>PQII, MPC5200, MPC603/7xx, MPC74xx</b>	
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<b>QorIQ</b>	
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