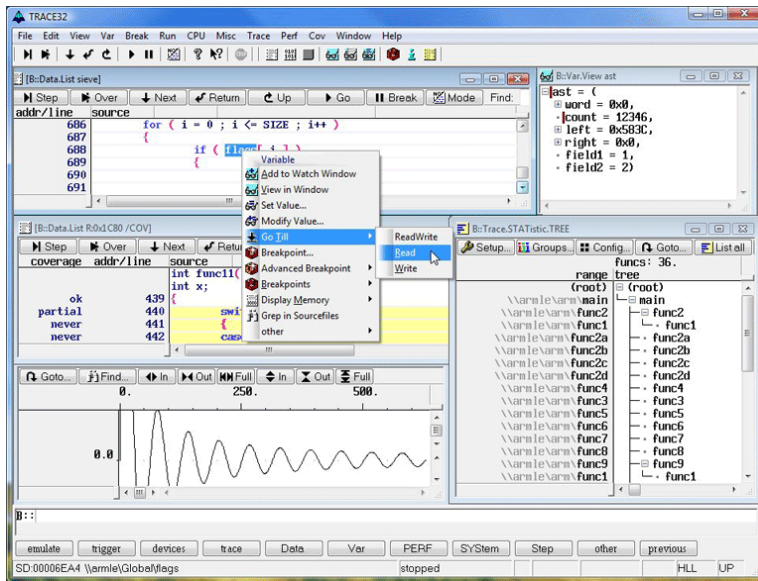


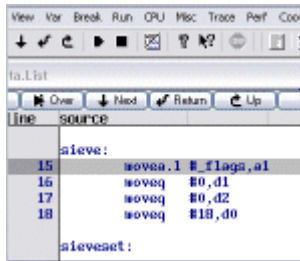
Uniform Look-And-Feel for all Processors



Highlights

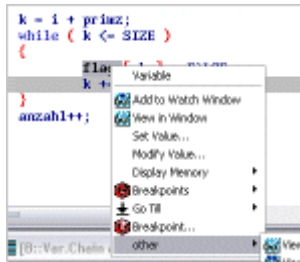
- ASM Debugger/HLL Debugger
- FLASH Flash Programmer
- CTS Context Tracking System
- STATISTIC and PERFORMANCE Analyzer
- COVERAGE Analyzer
- RTOS Debugger
- INT Tools Integration
- Front-End to TRACE32 Instruction Set Simulator
- Front-End to Third-Party Core Simulators/Virtual Prototypes
- Front-End to Third-Party Target Servers

Features



ASM Debugger

- Supports almost all file formats
- Assembler source-level debugging
- Advanced memory display
- Inline assembler
- Memory tests
- Customizable windows
- Peripheral windows
- Terminal window
- Semi-hosting
- Flash programming
- Full support for peripherals



High-Level-Language Debugging

- Supports multiple languages
- Full support for C++
- Integrated into TRACE32 environment
- Supports most compilers and hosts
- Same user interface on different hosts
- High speed download
- Debugs optimized code
- Display of function nesting
- Display of linked lists
- Powerful expression evaluation



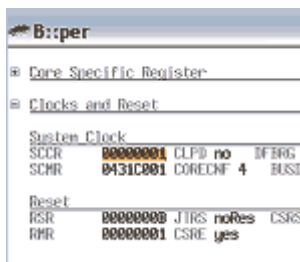
SIM Instruction Set Simulators

- Easy high-level and assembler debugging
- Interface to all compilers
- Trace Buffer
- Powerful script language
- Software compatible to all TRACE32 tools
- Hardware simulation



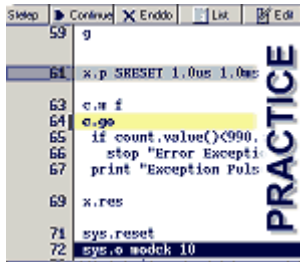
ROM Monitor

- Compatible with Emulator
- Support for C,C++ and ASM
- Communication via Eprom Simulator
- Communication via RS232 or customized .DLL link
- Windows9x, WindowsNT and Unix
- Monitor Code with Source
- Monitor Code Royalty Free



Logical Display of Peripherals

- Display of onchip peripherals
- User definable windows
- Interactive window definition with softkey support
- Pulldown menus for selection of choices
- Additional description for each field



```
59 g
61 x.p SRESET 1.0us 1.0us
63 c.r f
64 c.go
65 if count.value()<990.
66 stop "Error Excepti
67 print "Exception Puls
69 x.res
71 sys.reset
72 sys.o modek 10
```

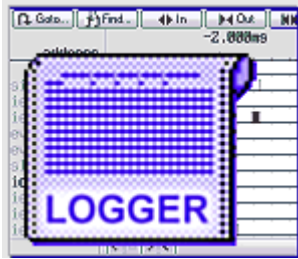
Script Language PRACTICE

- Structured Language
- Menu Support
- Command Logs
- Custom Menus
- Custom Toolbars and Buttons
- Custom Dialog Windows
- 64-Bit Arithmetic
- Numeric, Logical and String Operators
- Direct Access to System States



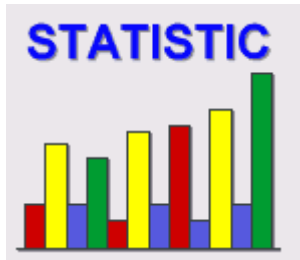
CTS Trace-based Debugging

- Allows re-debugging of a traced program section
- Provides forward and backward debugging capabilities
- High-level language trace display including all local variables
- Timing and function nesting display
- Has the ability to fill most trace gaps caused by the limited bandwidth of trace port



Logger

- Software trace of any size stored in an array structure on the target
- General trace format provided by TRACE32-PowerView
- Configuration and display commands provided by TRACE32-PowerView
- Works as trace with address and data information
- Works as a program flow trace (SH4, PowerPC)
- Time stamp possible
- Predefined algorithms to fill the trace provided by Lauterbach
- User defined algorithms to fill the trace also possible



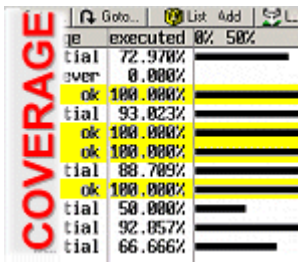
Trace-based Profiling

- Detailed analysis of function run-times
- Detailed analysis of task run-times and state
- Graphical analysis of variable values over the time
- Analysis of the time interval of a single event (e.g. Interrupt)
- Analysis of the time interval between 2 defined events



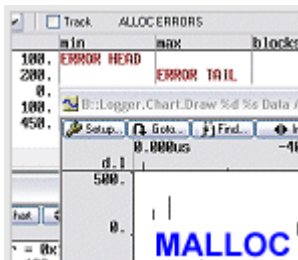
Sample-based Profiling

- Long-time performance analysis for functions
- Long-time performance analysis for tasks
- Long-time analysis of the contents of a variable or memory location and more



Trace-based Code Coverage

- Real-time code coverage without instrumentation
- Suitable for long-term testing
- Analysis for both assembly and source code level
- Off-line review capabilities
- Full support of multicore chips



Memory Analysis

- Display of allocated memory blocks
- Memory allocation Statistics
- Check for out-of-bounds writes
- Trace of allocation calls
- Graphical displays of memory usage



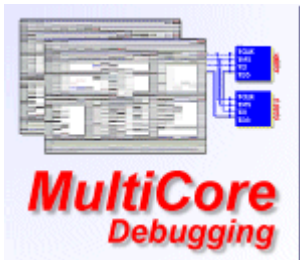
NOR FLASH Programming

- Internal and/or external NOR FLASH memories
- All common NOR FLASH types
- Programming of multiple NOR FLASH devices
- Provided by debuggers and in-circuit emulators



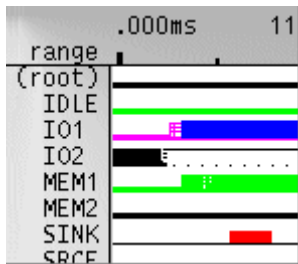
NAND FLASH Programming

- Generic and CPU-specific NAND FLASH controllers
- Support all common NAND FLASH devices
- Bad block treatment (skipped, reserved block area)
- ECC generation



Multicore Debugging

- Debugging support for homogeneous and heterogeneous multiprocessor and multicore systems
- High quality standard debuggers can be combined for multiprocessor and multicore systems
- All TRACE32-ICD debuggers are designed to work together in a multiprocessor/multicore debugging environment
- Fast integration of third party debuggers
- Several processors in a single piece of silicon can share the same debug port
- Start and stop synchronisation



OS-aware Debugging

- Statistic evaluation and graphic display of task run times
- Task related evaluation of function run times
- Statistic evaluation and graphic display of task states
- Manual executed system calls
- Task stack coverage
- PRACTICE functions for OS data
- RTOS related pull-down menu
- Task selective debugging



Help System

- Acrobat Based Documentation
- Fast Text Search
- Device Specific Filtering
- Basic and Advanced Help
- Training Manuals Included
- WWW Update

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