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CodeTEST® Embedded Software Verification Tools

CodeTEST-VME

Highlights

- VME version of the entire CodeTEST suite of software verification tools, including Software Trace, Performance Analysis, Coverage Analysis, and Memory Allocation Analysis
- Supplies the visibility critical to validating complex VME system software operation
- Traces code execution of a single CPU in detail or reveals the intricate interactions of multiple CPUs with a high-level VME System Trace
- Accelerates software test and analysis of VME applications with real-time and interactive measurements
- Optimizes VME system performance and improves product quality
- Designed specifically for software engineers

Introducing a powerful VME version of the CodeTEST software verification tool suite.



Powerful Software Test and Analysis Tools for VME Developers and Testers

CodeTEST®-VME offers a powerful suite of software analysis tools designed specifically for VME software developers and testers. CodeTEST-VME gives you a view of program operation that you've never seen before.

Today's VME applications, with multiple boards and processors interacting within a system, are becoming increasingly complex. Testing, optimizing and validating these complex systems is getting more and more difficult and time consuming. Tools specially designed to provide visibility and insight can help make the job faster and easier.

Visibility of VME Software Operation

CodeTEST gives you a variety of selectable views of code behavior. Instead of "surfing" the VME backplane hunting for specific events with a bus analyzer, you can drill down and focus on individual processor code. Or move up to a higher level of abstraction and monitor System Level Trace to see the interactions among the various subsystem CPU board activities.

With CodeTEST-VME Trace, you can review system operation by source execution and system transactions, not waveforms or ones and zeros. You see familiar readable code instead of endless bus cycles.

Applied Microsystems Corporation

For more information:
call 1-800-426-3925; browse http://www.amc.com

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CodeTEST-VME

Productive and Accurate Measurements

CodeTEST-VME delivers in-target, real-time, interactive analysis. By providing broad support for analyzing code Performance, test Coverage and Memory Allocation, all at the same time, across very large programs, CodeTEST-VME dramatically accelerates VME software test and analysis.

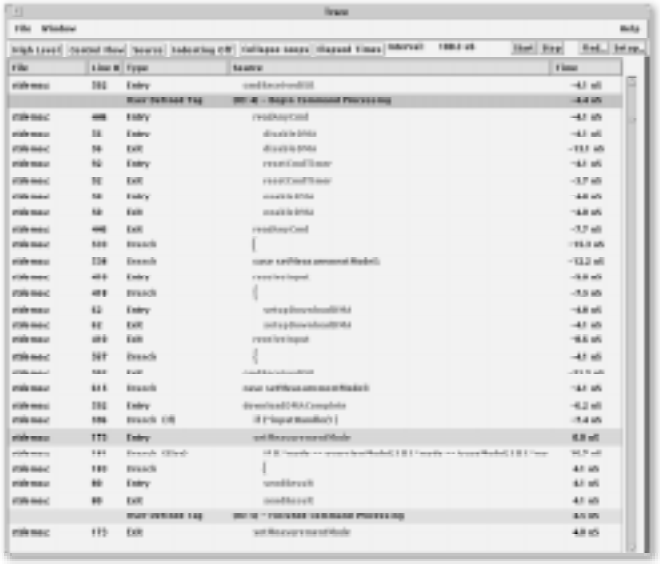
Better system performance can give you the competitive advantage you've been looking for. While COTS hardware is hard to tune, you can directly enhance system performance by optimizing code. CodeTEST-Performance clearly displays VME code timing and exposes bottlenecks at both the function and RTOS activity levels.

If improving your product quality is your goal, good test coverage is a must. CodeTEST-Coverage shows you exactly what VME code has been executed during testing. That's crucial if you have military or "mission-critical" applications and need to know where you haven't yet looked for defects.

Designed for Software Engineers

We designed CodeTEST-VME so software engineers can focus on their code and software operation instead of getting distracted by issues of hardware, target connections, or test and measurement equipment setup.

CodeTEST-VME includes a direct-insertion 6U footprint board that slips into a standard VME bus chassis and monitors embedded code operation through the system backplane. You don't need to worry about probe tips, cables, extender cards or adapters. With processor connection problems removed, software developers can significantly accelerate unit, integration, and system testing.



CodeTEST Trace displays Source, Function, and RTOS activity views as well as user specified events and system interactions. You can trace detailed code execution of a single CPU or the complex interactions of multiple CPUs.

VME Support You Can Count On—Today and Tomorrow

Because the CodeTEST-VME measurement board uses an industry standard bus connection—it's a VMEbus card itself—it supports a wide variety of COTS VME products and offers multiprocessor support all in one package. Worries about connections to target boards or microprocessors become a relic of the past.

CodeTEST-VME provides both VME COTS board and microprocessor independence. And the portability of the CodeTEST-VME measurement board and software licenses means you have support for your next processor card as well as the one you use today.

Hardware Specifications

Single-slot 6U, 160mm form factor
VME bus slave supports D32 and D16 data transfers using A32, A24 or A16 addressing modes
Interfaces to 96-pin VMEbus backplane (160 pin connection optional)
Generate Triggers off Interrupt signals
Selectable monitoring of any individual system processor simultaneous with observation of system inter-operation (up to 31 processors/ boards)
Ethernet Communications:
On-board 10base-T support
Supports AUI with adapter cable
Supports front panel or P2 connection through MVME 712-102 transmission module
Optional external power supply for power-up/reset testing
CodeTEST-VME self-test, on-board diagnostics
Power Requirements: 4A @ 5v

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