Embedded Linux® Tools and Solutions

metrowerks

Metrowerks has streamlined Linux® development with Embedded Linux Tools and Solutions — a completely integrated embedded Linux environment that supports development from board bring-up all the way through the final testing and certification process. Now with Metrowerks, developers no longer need to rely on several different resources for tools and support. Finally, less time is wasted dwelling on hardware, OS and development board issues and more time is spent creating custom applications.

Metrowerks Platform Creation Suite for Embedded Linux OS

Metrowerks Platform Creation Suite for Embedded Linux OS is a full-featured, integrated development tool suite that targets multiple processor families. With Metrowerks, developers get support from conception to market from a single source. Complete with Linux Board Support Package (BSP) solutions for ARM®, ColdFire™, MIPS®, PowerPC®, SH™ and x86 architectures, this tool suite eliminates hardware, OS and development board issues. It also gives silicon and board vendors the ability to capture their in-house Linux efforts into a BSP fully integrated with the Platform Creation Suite.

Key highlights:

- Target Wizard Tools manage, configure, extend, build and deploy Linux software elements

- The CodeWarrior™ integrated development enviroment (IDE) allows developers to manage projects, and create, build and debug software which sits on top of the open source elements

- BSPs that include device drivers and applications to specific target hardware with all of the required host and target elements

CodeWarrior™ Development Studio, Embedded Linux Edition for PowerPC® Architectures, v.1.0

Develop in a robust, visual and complete environment with this Linux application development toolset. Unlike traditional open-source development tools, CodeWarrior Development Studio, Embedded Linux Edition for PowerPC Architectures, v.1.0 is optimized for Linux application development on a Windows® host, leveraging all the capabilities of the CodeWarrior IDE and allowing you to work on the main enterprise-computing infrastructure.

Key highlights:

- Superior C/C++ code browser with a one-click navigation utility

- Excellent multi-threaded debugging, featuring each thread in a separate window with independent run control

- Tightly integrated CodeWarrior debugger, allowing seamless multi-process application-level debug

CodeTEST™ Software Analysis Tools

Get ready to save time and money with CodeTEST™ software analysis tools — a software verification toolset that overcomes the complexities of the embedded software environment from early-phase host-based design and development to final-phase test and validation.

Key highlights:

- Software timing measurements that guarantee software performance

- Easy validation of design flow execution

- Tracking of dynamic memory allocations and memory error reports associated with the original source, so developers can pinpoint system bugs caused by memory leaks or errors

- Provides the most comprehensive code coverage used in the industry today

OpenPDA™

The OpenPDA™ platform from Metrowerks is a complete software solution for personal digital assistants and smart phones. The OpenPDA platform is capable of enhancing even the most innovative hardware designs by combining the best software in the industry with world-class development tools, integration services and certification capabilities. The OpenPDA platform has become a standardized, predictable and commercially viable mobile computing platform. With the OpenPDA platform, developers can reduce time-to-market by working with a configurable and tested integration of embedded Linux, Java™ and the GUI framework and browser. From handheld gaming to secure business transactions, the OpenPDA platform can be configured to suit any wireless need.

Residential Gateway Tools and Solutions

Automate and expedite all phases of developing residential gateway products with Metrowerks communications software and end-to-end development tools for the Smart Gateway 857 IAD Reference Platform. These best-in-class development tools, protocol stacks and sample broadband communication applications leverage the high performance and scalability of Linux OS. And the communications software integrates a suite of software engines running on top of Linux OS to enable xDSL and Ethernet communications. In addition, Metrowerks tools and solutions provide management support, security stacks for firewall and optional VPN support, wireless stacks for optional IEEE802.11b LAN connectivity and voice stacks for VoIP.

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