MontaVista Linux 6

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The New Approach to Embedded Linux Development

MontaVista Linux 6 meets embedded engineers where they are at in the development cycle with a complete embedded Linux distribution and tools for a faster time to development. With Market Specific Distributions and unprecedented flexibility in a commercial solution MontaVista Linux 6 enables developers to build from source to more easily customize their software stack and add product-differentiating features.

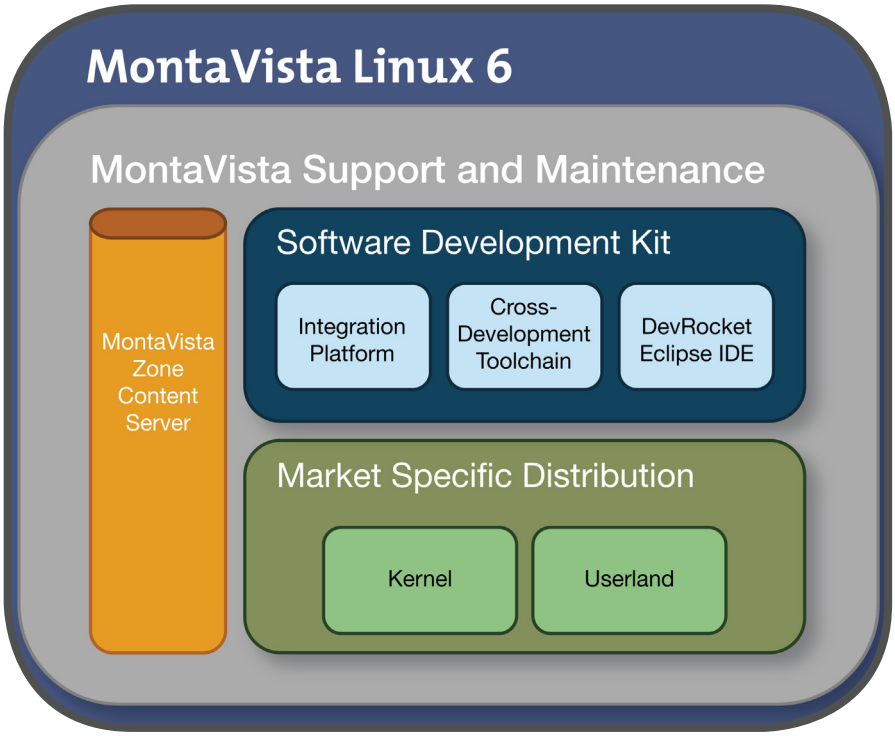
The Challenges of Working with Open Source Software

In the face of decreasing product development lifecycles, systems developers waste valuable time experimenting with alternative solutions including semiconductor Linux technology or working directly with open source software. Merely getting up and running is a challenge due to the amount of work required to integrate various open source software, enable hardware, boot up systems and enable features.

Semiconductor vendors have applied Linux technology to enable their hardware feature set. Yet systems engineers spend valuable development cycles enabling and customizing the final hardware, and integrating other software and tools. Designers find themselves constrained, locked into early software choices, unable to fully leverage the power of the open source community, and without the right tools to customize the software to their specific application requirements.

MontaVista Linux 6

MontaVista Linux 6 is a complete embedded development solution including a Market Specific Distribution (MSD), the Software Development Kit (comprised of the MontaVista Integration Platform, cross-development toolchain, and DevRocket Eclipse-based IDE), expert support and maintenance, and the MontaVista Zone Content Server to help developers deliver commercial-ready devices faster. The MSD saves time by providing all necessary software to get up-and-running immediately while the SDK's Integration Platform allows developers to easily extend and customize their software stack, fully leveraging the open source community while maintaining control over the build process.



HIGHLIGHTS

Market Specific Distribution
- Embedded Linux kernel
- Device drivers
- Libraries
- Userland applications

Integration Platform
- Based on BitBake build system
- Build independence
- Relocatable build environment
- Target configuration management
- Optional pre-sets

Support and Maintenance
- Support from top Linux experts
- Over 10 years experience
- Updates and bug fixes

MontaVista Zone Content Server
- Build image from source with one command
- On-demand code fetching
- Network binary cache (pre-built binaries)
- Local source mirror

Cross-Development Toolchain
- Hardware optimized
- C/C++ compilers
- Run-time libraries
- Source-level and assembly-level debuggers

MontaVista DevRocket
- Eclipse-based IDE
- Performance monitoring
- Profiling
- Memory leak detection
- Memory usage analysis
- System-level and application-level tracing

MontaVista Linux 6 Key Features

MontaVista Market Specific Distributions (MSD) are new Linux distributions, built on a common framework, and optimized for the respective hardware platform and its target market. An MSD is comprised of an embedded Linux kernel, appropriate device drivers, userland, and applications necessary to support the full breadth of functionality provided by the semiconductor vendor. Each MSD is feature compatible with the semiconductor vendors Linux technology and provides the value-add features, expert support, and high quality MontaVista is known for.

MontaVista Support and Maintenance provides systems developers with assistance from the leader in embedded Linux commercialization and top experts in their field. While working with MontaVista, developers are sure not to be alone, but backed by over 10 years of experience. Get help from these experts via email and Web support and enjoy quick access to all software, updates, maintenance, and training required to assist delivering projects on time.

Software Development Kit, including

- MontaVista Integration Platform allows developers to easily extend and customize their software stack, while maintaining control over the build process. Systems developers can fetch and easily integrate code from other team members, outside vendors, or the broader open source community. Since it's built on open-source technology, the Integration Platform supports the common recipe file formats used throughout the open source community.
- Cross-Development Toolchain consists of an integrated set of C/C++ compilers, run-time libraries, and a source-level and assembly-level debugger, all optimized to compile for specific target hardware.
- MontaVista DevRocket 6 is the newest release of the MontaVista IDE for platform and application development. DevRocket supports the new MontaVista Integration Platform, along with features such as memory usage analysis, memory leak detection, system profiling, and industry-standard debugging tools.

MontaVista Zone Content Server delivers source code and other content dynamically to the Integration Platform, freeing the developer from the constant task of searching for new source code and updates. The developer can identify changes, updates, and dependencies in the code via the Integration Platform, with the option of incorporating these changes to the build environment.

MontaVista Linux 6 Key Benefits

Faster Time-To-Development - MontaVista Linux 6 offers a complete embedded Linux distribution and tools to get up and running sooner. Using the de-facto standard open source build system, leverage existing work and move to MontaVista Linux 6 with the assurance of feature compatibility and a clear migration path.

Increased Flexibility in Integration and Customization - With unprecedented flexibility in a commercial solution, fetch and integrate code from other team members, internal company teams and outside vendors and more easily customize software, including kernel, device drivers, libraries and applications.

Experienced Help - Get over 10 years of experience and support from top experts in their field—from the leader in embedded Linux commercialization.

Complete Development Toolkit - Use command line or Eclipse-based MontaVista DevRocket and get a completely integrated set of tools including C/C++ compilers, run-time libraries, and a source- and assembly-level debugger—all optimized for specific hardware.

SPECIFICATIONS

Target Support

- Freescale
- Intel
- Texas Instruments
- Cavium
- Complete list:

http://www.mvista.com/boards.php

Host Support

- LSB 3.0 (or higher) x86 and x86-64 Linux distribution

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