The leader in embedded Linux commercialization

We help you get the most out of open source

MontaVista Software invented embedded Linux commercialization in 1999 to give device designers a platform to deliver the best possible product in the shortest possible time. Since then, due to growth and innovation MontaVista has remained the leading company in this category.

MontaVista helps embedded developers get the most from open source by providing commercial-grade quality, integration, hardware enablement, expert support, and the resources of the MontaVista development community. Because MontaVista customers enjoy faster time to market, more competitive device functionality, and lower total cost,[1] more devices have been deployed with MontaVista than with any other Linux.

Customers that have built devices that run on MontaVista Linux include Amstrad, Boeing, Emerson, ITT, Motorola, NASA, NEC, NextWave Wireless, NTT DoCoMo, Oce, Panasonic, Pioneer, Samsung, Sony, Texas Instruments, Toshiba, the U.S. Department of Defense, Volvo, Yamaha, and more than 2,000 additional companies. MontaVista Linux powers tens of millions of products used around the world every day.

MontaVista customers do not pay for free software. They pay MontaVista for relieving them of some of the unique burdens of open source, enabling them to focus their resources on their most valuable, differentiating work.

MontaVista customers require four attributes in the software they use to develop and run their products:

1. Quality

MontaVista's disciplined processes, test facilities, enhancements, and bug fixes deliver the *quality* required for commercial embedded products.

The full Linux operating system can comprise millions of lines of source code and is updated frequently. Would you want your product to include even one million lines of untested code plus untested updates? Of course not. But in the open source community, nobody is responsible for testing every line of code. Nobody is responsible for making open source code commercial quality.

MontaVista, on the other hand, performs thousands of tests to exercise code. MontaVista engineers find and fix thousands of open source bugs using our test facilities and board farm (the largest Linux board farm in the world), enabling tests and validations that no other Linux vendor can perform, and providing MontaVista customers with higher-quality software.

[1] See "Embedded Linux Total Cost of Development Analyzed," Jerry Krasner, Embedded Market Forecasters, 2007.

Sony

- Sony Bravia™ LCD TVs
- More than 20 million sold
- Built with MontaVista Linux

Motorola

- Motorola ROKR™ E8
- WInner of 4 awards at CES, including CNET People's Choice Award Best in Show
- Built with MontaVista Linux

For example, for just one release of MontaVista Linux Professional Edition, MontaVista engineers fixed 1,408 bugs in open source code. In addition, MontaVista added hundreds of enhancements, performance improvements, and security features.

Calculate how many developer hours it would take your team to find and fix the software problems that affect your product. By letting MontaVista increase the quality of the software your product uses, you save time, reduce costs, and avoid defects so you produce a more reliable product and spend more time developing features.

The thousands of fixes, enhancements, and performance improvements made by MontaVista to open source Linux are found together only in MontaVista Linux.

2. Integration

MontaVista provides software that is *integrated* across open source kernel versions, tools, toolchains, drivers, and applications, so they all work with each other. We integrate more than 400 open source projects so you don't have to.

When we pull in a patch, we first test it and fix the bugs in that patch. Then we review *all code that patch affects* and make changes so everything works together. We also integrate fixes and enhancements from newer Linux kernels to improve the quality and features of older kernels, so after you choose one kernel version for your project, you avoid frequent platform changes and can rely on a stable platform throughout your development lifecycle and your product lifetime.

Imagine the effort if you had to change kernel versions every time kernel bugs were fixed. Because MontaVista integrates fixes, changes that would otherwise require thousands of lines of code often take less than 100. In addition to fixes, we integrate new drivers and other features available only in MontaVista Linux.

MontaVista integration has saved months of integration and testing for many development teams. Without a commercialization partner, this is work you have to do yourself.

There is no place else you can obtain a single Linux OS platform with all these integrations validated against each other. They are integrated and validated together only in MontaVista Linux.

3. Support

For MontaVista customers, the word "support" means much more than technical support. It encompasses all the value-added services we provide to help make Linux even more of an enabler for your projects: software maintenance, training, technical support, and engineering services such as hardware bring-up, feature integration, porting, benchmarking, and testing.

For example, when we backport enhancements and fixes from new Linux kernel releases into stable releases of MontaVista products, we offer backported fixes to the community. However, kernel.org wants only fixes to the latest kernel version, so backported fixes are not accepted. They are available only in MontaVista Linux.

Yamaha

- Yamaha MOTIF XS
- World's best-selling line of music production synthesizers
- Used by Stevie Wonder, Beyonce Knowles, Macy Gray, Justin Timberlake
- Built with MontaVista Linux

NEC

- NEC packet core nodes
- Process Internet traffic for millions of mobile phone users every day
- Run on MontaVista Linux

NextWave Wireless

- World's first Linux-based mobile WiMAX™ phone handset
- From concept to SoC design and fabrication to hardware bringup to software creation to public demonstration in only 9 months
- Built with MontaVista Linux

We staff our support and professional services organizations with Linux engineers and electrical engineers who have extensive embedded experience developing commercial software and hardware products. When you need to meet your time-to-market deadlines, to test and validate your drivers, or to help you build full device stacks, our professional services team can help you. We enable the biggest names in the business this way.

In addition to the technical aspects of open source software, there are legal aspects to consider, such as GPL and open source licenses. MontaVista's expertise in open source software also extends to its understanding of the complex legal issues involved in deploying open source.

MontaVista provides support in the broadest sense by filling the gaps you encounter when using open source software. We help you get the most from open source. This level of embedded Linux development support is available only from MontaVista.

4. Hardware enablement

MontaVista hardware enablement is broader (more processors and boards) and deeper (more processor-specific features and I/O types) than that of any other Linux company.

MontaVista provides the *broadest* hardware enablement. Our embedded Linux is available for four architectures, 21 processor families, and more than 200 boards. we support more platforms on ARM, MIPS, PowerPC, and x86 than any other company supports, and we add more every month.

MontaVista provides the *deepest* hardware enablement. We enable our Linux with drivers for many I/Os on key reference boards, and enable many CPU-specific features.

Our hardware enablement is based on *common source software* across all architectures. Unlike many Linux suppliers and most embedded OS suppliers, MontaVista created a common integrated Linux code base that encompasses all supported development hosts and target processor architectures. Our unified base frees MontaVista customers to choose the best hardware for their projects, simplifies multi-architecture designs, maximizes code reuse, and minimizes the risks of platform migration. The freedom from hardware dependency provided by MontaVista's unified base enables developers to meet bill of material (BOM) targets without having to reengineer otherwise platform-independent software, reduces the training and support costs needed to design for multiple platforms, and gives developers greater control over development schedules and the cost of goods (COGs).

MontaVista's unparalleled hardware support gives you greater selection to choose the CPU and board that will be best for your product. If you want to bring up Linux on a custom board, we often support a board you can use as a starting point. And right out of the box you can have access to more I/O types and processor-specific features, so you can maximize the functionality of your device.

This level of hardware enablement is available only from MontaVista. Nobody else comes close.

MontaVista products

MontaVista Linux Professional Edition

MontaVista Linux Professional Edition (Pro) is the embedded Linux platform for device developers who want the benefits of open source plus quality, integration, support, hardware enablement, and rapid time to market.

"MontaVista Linux Professional Edition 5.0 and its native real-time capabilities address many of the real-time service requirements needed in the robust environments of the embedded market, and Yankee Group anticipates that there is strong pent-up demand for this product and its advanced capabilities." *–Laura DiDio, research fellow and analyst, Enabling Technologies Enterprise Group, the Yankee Group*

MontaVista Mobilinux

MontaVista Mobilinux is an optimized Linux OS and development tools for wireless handsets and other mobile devices such as GPS devices, portable medical devices, and wireless POS terminals. Mobilinux is used in tens of millions more smartphones than any other Linux.

"MontaVista Mobilinux currently dominates the Linux market for wireless devices, having implemented over 90% of Linux-based smartphones shipped in 2007." *–2008 research report, Mobile Consumer Lab, International University of Japan*

MontaVista Linux Carrier Grade Edition

Seven of the top eight network equipment providers use MontaVista Linux Carrier Grade Edition (CGE). Developers working with RAS-managed or custom hardware who need long-term support and high availability use MontaVista CGE for telecom and network equipment, including ATCA and MicroTCA platforms such as SGSNs, GGSNs, and softswitches.

"MontaVista's Linux has always been hardened and exceptionally reliable, and we see CGE 5.0's new features for high availability and security as providing competitive advantages for Iskratel's network equipment." *–Sani Rus, system software development manager, Iskratel, Ltd.*

MontaVista DevRocket

A comprehensive suite of Linux-specific tools based on the Eclipse framework, MontaVista DevRocket is the IDE for embedded Linux platform and application developers. DevRocket tools streamline and automate embedded Linux development and analysis.

MontaVista's open source leadership

When you select a Linux platform for your product, a provider that doesn't work with the open source community won't meet your needs.

Some companies are part-time Linux companies. Their main business may be processors or proprietary software, but they provide embedded Linux as a side business. They are not committed to open source. They don't understand Linux or how to work with the open source community.

No embedded software company has done more to lead the open source community than MontaVista:

- A top 20 contributor to the mainline Linux kernel for several years in a row
- Contributed more lines of source code than all other embedded Linux companies combined
- Made Linux contributions of greater importance than those from any other embedded Linux company
- Active contributor or maintainer of key areas of Linux inside and outside the kernel, plus other kernel trees and communities
- Opened more hardware platforms to Linux than any other company
- Creator of the world's largest educational conference for embedded Linux developers
- Member, sponsor, co-founder, director, board member, or chair of more than 20 open source organizations

We help you get the most out of open source

Embedded Linux has become the most-often-selected platform for developing new devices. MontaVista helps device designers and embedded application developers get the most out of Linux and other open source software. By doing so, we help you get to market more quickly, create the features you need to be competitive, and significantly reduce your overall project costs.

If you want your product to beat your competition, you must prioritize your development cycles to work on functions that will make your product superior. Every hour your team spends on undifferentiated work is an hour that does not contribute to your success.

MontaVista support and professional services together with applications, tools, middleware and services from MontaVista's community of more than 400 partners, all combine to let you focus on the work that matters. You have the control to build a better product and get it to market faster.

We don't sell free software. As you can see, with MontaVista Linux commercialization we supply what is missing from open source, so you don't have to.

To learn more about our products, our services, the MontaVista community, and what we can do for you, visit **www.mvista.com**.

RipCode

- RipCode V4 on-demand video transcoding appliance
- Designed and delivered to first client MySpace in just six months
- Built with MontaVista Linux
- Saved $4 million in development costs

MontaVista Software, Inc.

- Founded in 1999
- Corporate headquarters: Santa Clara, California
- Offices in 11 countries
- Products, services, and support provided worldwide
- Customers: Over 2,000 companies worldwide
- Employees: More than 250
- MontaVista Linux runs in more than 70 million devices

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