

## Enables Complete Customization of MontaVista Linux

The MontaVista® Platform Development Kit (PDK) 5.0 provides everything required to create and deliver a MontaVista® Linux®-based development platform. Including an industry-standard Eclipse IDE, the PDK offers broad CPU and board support, advanced analysis tools, target application packages, and complete source code, the MontaVista PDK 5.0 is the ultimate embedded Linux development solution.

## MontaVista Linux Developer Tools Family

MontaVista Software provides a comprehensive suite of developer tools, including the Platform Development Kit 5.0, providing direct control over the MontaVista Linux development environment, and the Application Development Kit (ADK) 5.0, comprising all the tools application developers need to bring intelligent devices to market quickly and efficiently.

Platform Development Kit	Application Development Kit
GUI-Based Analysis Tools	DevRocket 5 Integrated Development Environment
Architecture Cross Tool Chain	Architecture Cross Tool Chain
Linux Support Package (BSP)	Virtual Target Environment
Target Application Packages	
Source Code	

The MontaVista PDK 5.0 includes:

- Analysis Tools – including Platform Image Builder, System Trace and System Profile, Memory Leak Detection, and Memory Usage Analysis delivered through an intuitive, interactive, and accessible Eclipse-based interface.
- CPU Architecture Cross Tool Chain – Complete set of Linux cross tools, including compilers, debuggers, and run-time libraries required to build platforms and application binaries for specific CPU architectures – x86, ARM, MIPS, XScale, and Power Architecture (PPC).
- Linux Support Package (LSP) – Board support package targeting a wide range of hardware platforms. Includes a rich set of pre-built and tested drivers for on-chip and on-board devices
- Target Application Packages – Preconfigured, tested library of over 200 application and utility software packages such as Apache, FTP, and SSH, to support virtually any development need.
- Source Code – Source tree and configuration files required to (re)build MontaVista Linux binaries. Provides complete control to configure, customize, or recompile MontaVista Linux to meet specific development and target needs.

## Supports Previous Versions of MontaVista Linux

With MontaVista Linux on its 5th generation release, many application development teams already have a significant code base on MontaVista Linux versions 3.1 and 4.0. The backward-compatible MontaVista PDK 5.0 allows developers to use the tool-chains from these previous versions in addition to MontaVista Linux 5.0, supporting easy discovery and porting of existing MontaVista Linux installations and making all editions dynamically available from within one interface.

## HIGHLIGHTS

- Full platform Development Kit provides complete control and customizability for MontaVista Linux development environments
- Eclipse-based IDE provides intuitive, interactive, and accessible development environment
- Supports broad set of target processors, including x86, ARM, MIPS, XScale, and Power (PPC) architectures
- Analysis tools include Platform Image Builder, System Trace, System Profile, Memory Leak Detection, and Memory Usage Analysis all delivered through an intuitive Eclipse-based interface
- Architecture cross tool chain includes compilers, debuggers, and run-time libraries to build platforms for specific CPU architectures
- PDK includes LSPs (board support) for a wide range of hardware platforms, and includes a rich set of pre-tested drivers for on-chip and on-board peripherals
- Fully-tested library of over 200 application and utility software packages support a broad range of application development tasks
- Actual source tree and configuration files required to (re)build MontaVista Linux binaries. Provides flexibility to configure, customize, or recompile MontaVista Linux

## Streamlined Creation of Target File System Images

Platform developers need to integrate and install dozens, sometimes hundreds of separate software components, but creating a target file system by hand is time-consuming, difficult, and complex. MontaVista PDK 5.0 radically simplifies this task. Platform Image Builder offers developers an easy-to-use graphical interface for selecting MontaVista Linux target packages, integrated custom packages and kernels, dynamically determining file system size and automatically resolving dependencies and conflicts, and generating the file-system in several standard formats.

## Best-of-Breed Analysis Tools

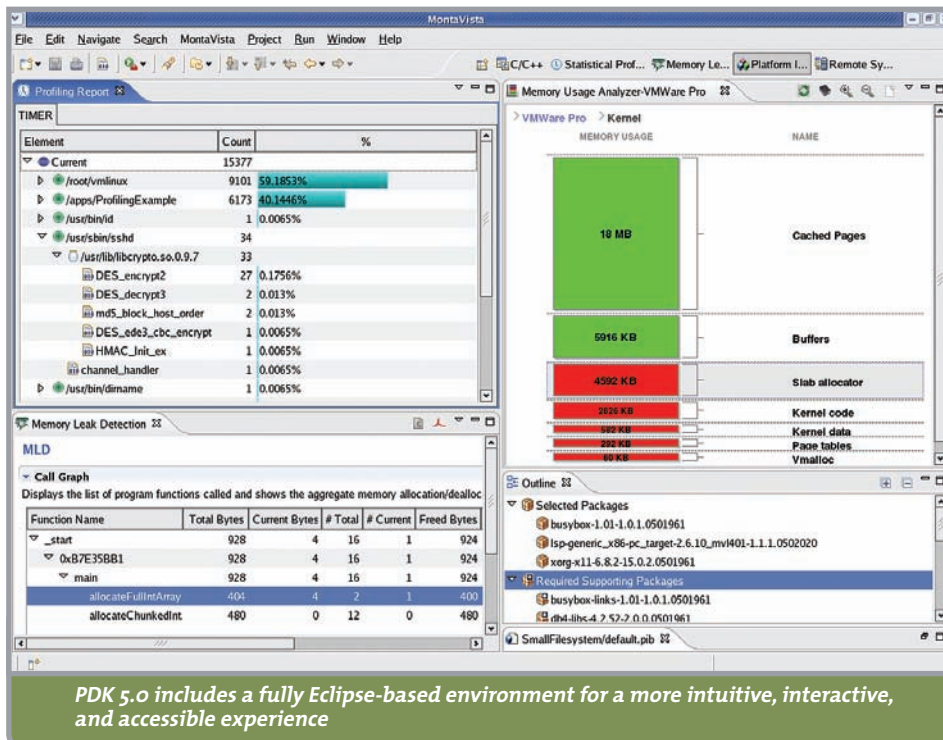
Linux platform analysis tools require specialized expertise and persistent maintenance to keep current with the Linux kernel and other open source technologies – generic open source versions or tools originally meant for RTOS analysis come up short in real-world Linux development. The MontaVista 5.0 PDK features analysis tools targeted specifically for working with embedded Linux, delivering must-have capabilities like system-level statistical profiling, trace analysis, and memory leak detection and usage analysis. The PDK packages these tools in an intuitive and interactive user interface, simplifying and streamlining analysis and optimization.

## Graphical, Intuitive System Characterization

Traditional Linux command line interface (CLI) tools can make it difficult to characterize a target system over time. MontaVista PDK 5.0, meets this challenge by integrating the best-of-breed CLI-based Linux Trace Toolkit (LTTng) into an intuitive and accessible graphical user interface, enabling developers to measure and characterize target systems more quickly and easily.

## Broad Target and Host Support Protects Developer Investment

MontaVista PDK 5.0 supports board-level platforms across five major CPU architectures. By providing a common look and feel across Linux, Windows®, and Solaris™ development hosts, PDK 5.0 provides a cross-development platform for development teams working across diverse environments. This broad platform and host support gives development teams the flexibility, continuity and interoperability to tailor their development platforms to their technical needs and team logistics.



*PDK 5.0 includes a fully Eclipse-based environment for a more intuitive, interactive, and accessible experience*

### MVL Edition / Version Support\*

Professional 3.1, 4.0, and 5.0  
Mobilinux 3.1, 4.1  
Carrier Grade Edition 3.1, 4.0

### Development Hosts

Linux (RHEL 3/4, SLES 9/10)  
Sun Solaris 8, 9, 10  
Microsoft Windows 2000/XP

### Analysis and Optimization Tools\*

Application Pre-Linking  
Library Optimization  
Memory Usage Analysis  
Memory Leak Detection  
System Performance Profiling  
System Tracing

### Eclipse Support

Eclipse 3.2 Plug-ins  
C/C++ Developer  
  Toolkit (CDT) 3.1  
Remote Systems Explorer 1.0  
Derby 10.2.2  
GEF 3.2.1  
TimeDoctor 1.3

### LSP and Toolchains

Architecture Cross Tools  
LSP with Source Code  
GCC 4.2 Compiler  
  and GDB Debugger  
uClibc and glibc support

### Target Packages

Full set as supported by target edition/version

### Full Source Code

All LSP, application packages, toolchains, and patches

\* Analysis tools available as supported by specific editions/versions

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