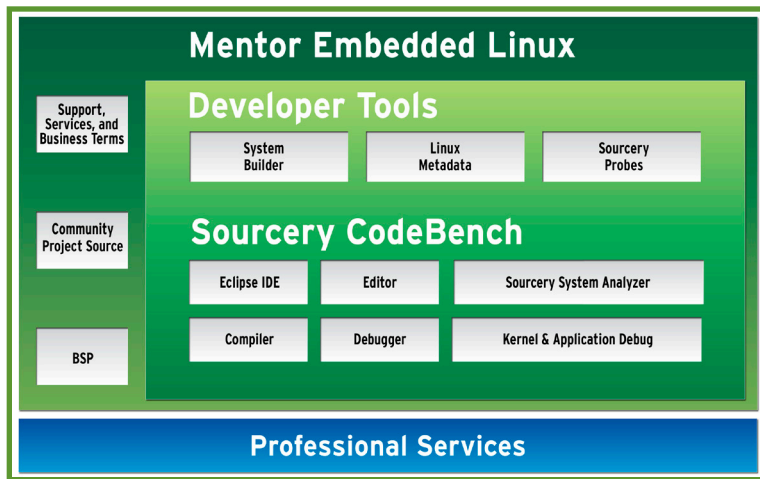


Mentor Embedded Linux

D A T A S H E E T



Mentor Embedded Linux offers a fast and efficient alternative to creating your own unique embedded Linux platform.

Mentor's approach streamlines platform creation and application development – allowing you to focus on value-added contributions

Mentor® Embedded Linux® offers developers a new approach to benefit from a vast world of open source software without the trade-offs associated with existing options. Traditional commercial Linux vendors bind developers to a limited set of customization options preventing projects from fully adapting the commercial product to their project requirements. The “roll-your-own” Linux option introduces business risk by distracting development teams from their value-add contributions. Mentor Embedded Linux brings a new option that fully empowers developers to create their own unique product platform with the commercial support from Mentor Graphics. Mentor Embedded Linux maximizes developer productivity with powerful developer tools and a new methodology to harness the power of open source for maximum engineering effectiveness.

Mentor Embedded Linux supplements the development tools delivered with Mentor® Embedded Sourcery™ CodeBench and provides additional tools creating the embedded Linux platform. This tool, Mentor Embedded System Builder, creates the entire platform integrating the developer's customization and preferences.

Mentor Embedded Linux is provided with a small core of customizable recipes that can generate a ready-to-use root filesystem. This reference distribution contains all of the required components for preparing your own unique product platform to meet your product's requirements.

Product Features:

Sourcery CodeBench

Only Mentor Embedded Linux offers the full power of Sourcery CodeBench, delivering top quality development, debug, and analysis tools for successful Linux development

Sourcery System Analyzer

A comprehensive system and application performance analysis tool that allows users to profile multicore, multi-OS embedded systems and quickly address performance bottlenecks

Linux Debug Agent (LDA)

Enables a single-session debug for application or kernel via a single connection to the target system with the ability to go between the kernel and application simultaneously with full control of the system

System Builder

A system integration tool that assists users in assembling a software platform and development environment that meets specific product requirements – right out of the box

Product Benefits:

Powerful platform customization

System Builder ensures that developers have control over their Linux platform using a powerful standardized language. Sourcery CodeBench speeds the process of software platform fabrication

Powerful and integrated development tools

Using the trusted power of the customized GNU toolchain, Sourcery CodeBench delivers a superior development experience. System Builder supplements CodeBench via the ADE to ensure synchronized development between platform and application developers

Ongoing maintenance and support

Users receive access to stable and compatible open source technology refreshes, component version updates, and cumulative defect resolution roll-ups

Sourcery tools integration

Mentor Embedded Linux is designed to work with the following Mentor Embedded Sourcery tools:

- **Sourcery™ Probe:** Mentor Embedded's advanced JTAG probes can work with Linux and CodeBench to provide visibility and debug access into the early initialization of the Linux kernel.
- **Sourcery™ CodeBench:** Mentor Embedded Linux is implemented with Sourcery CodeBench Professional Edition. This powerful toolsuite provides advanced development, debug, and analysis tools for Linux development. CodeBench provides essential core libraries for supported target architectures optimized for particular cores.
- **Linux Debug Agent (LDA):** With LDA, users configure a single-session, single-connection debug of the application and the supporting kernel functions and device drivers called by the application. Users can stop the whole system while in the kernel, stop a single thread as needed, or stop the entire process – it's totally up to the user to match what is needed in the debug session.
- **Sourcery™ System Analyzer:** A powerful system and application performance analysis tool for single and multi-core systems.

Supported configurations

Mentor Embedded Linux and Sourcery tools support an impressive array of architectures and devices used in many of today's most popular applications.

Host Support:

- Red Hat Enterprise Linux Centos5
- Ubuntu 8.04 and 10.04

Supported Architectures:

- ARM - Power Architecture - AM/DM37x
- P1022 - P2020/2010 - P4080 - MPC8377 - MPC8572
- MPC8536 - MPC8548

(The list above is a representative sample of available configurations. For complete, up-to-date information, visit: www.mentor.com/embedded-software/sourcery-tools/sourcery-codebench)

System Builder

Mentor Embedded System Builder is a system integration tool that assists users in assembling a software platform and development environment that meets specific product requirements right out of the box. System Builder is a powerful command line tool that creates Linux distributions in an automated and reproducible environment and leverages the OpenEmbedded project to provide a polished build environment to cross-compile and package software for a target device.

Recipes

System Builder executes a set of customizable recipes which can be used to cross-compile and package software into one of the following objects:

- **Root Filesystem Images:** Deployable Flash images, hard-disk images, and other output types
- **Application Development Environment (ADE):** Supports efficient application development by supplementing Sourcery CodeBench with the software necessary to develop applications for the target platform
- **Software Bill-of-Materials:** A comprehensive report of all the original archives, patches, and packages used in fabricating the root filesystem images

Linux support and maintenance

Mentor Embedded Linux includes comprehensive support on all Mentor Embedded development tools and core open source technologies. Mentor Embedded Professional Services can also provide customized engineering programs, including the monitoring and long-term maintenance of your unique software platform. For details, visit www.mentor.com/embedded-software/services

Get started today

Visit www.mentor.com/embedded-software/sourcery-tools/sourcery-codebench and get started immediately with free downloads of Sourcery CodeBench Lite and Mentor Embedded Linux Lite.

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