Sourcery CodeBench Lite

Sourcery CodeBench Lite 2014.11-21

Release Highlights

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Mentor Graphics, Inc.

Abstract

This document provides an overview of new features available in the Sourcery CodeBench Lite 2014.11-21 version of Sourcery CodeBench Lite. Known limitations and issues for the release are also discussed.

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Release Highlights

1.1. New Features

Sourcery CodeBench Lite provides the following new features and improvements in Sourcery CodeBench Lite 2014.11-21:

- Improved BDI integration

    - CodeBench provides working BDI3000 target configuration files for running bare metal executables on select target boards. They may be found under the i686-pc-linux-gnu directory in the installation directory.

    - A rich editor makes it easier to modify BDI3000 target configuration files. Opening a .cfg file will enable syntax highlighting, content assist (ctrl-space), and keyword documentation in tooltips.

    - A graphical configuration tool simplifies updating BDI3000 probe firmware and modifying probe settings (e.g. IP address). It may be accessed from the Run → BDI3000 GDB Probe menu.

    - The BDI3000 tab of the Debug Configuration dialog allows users to select from a list of cores and core groups that are available for debug control.

- Multi-core debugging

    - The Startup tab of the Debug Configuration dialog allows users to disable target reset, which is critical when loading multiple executables to multiple cores via JTAG.

    - In the Debug Configurations dialog, the user may create a single Launch Group to debug or profile multiple Debug Configurations simultaneously.

- Using Mentor Embedded Linux Application Development Environments (ADEs)

    - Multiple ADEs may now be installed and uninstalled into CodeBench. Each Linux C project may obtain different default build settings by specifying a different ADE in the C/C++ Build → Settings → Tool Settings → Target screen of the project properties dialog.

    - The Restore Defaults button reverts a Linux C project to the default ADE settings. This is located at the bottom of the C/C++ Build → Settings → Tool Settings → Target screen of the project properties dialog.

- LTTng instrumentation assistance

    - CodeBench can simplify the creation of new LTTng UST tracepoints by generating the tracepoint definition files. To quickly add a tracepoint to a Linux C project, type tracepoint(into the editor, then Ctrl+space.

- Toolchain updates

    - CodeBench now includes GCC version 4.9.1 and GNU C Library version 2.20.

    - CodeBench now includes a toolchain for AArch64 (64-bit ARM) targets running Linux.

1.2. Known Issues and Limitations

The following are the known issues with this release of Sourcery CodeBench Lite:

- Sourcery CodeBench Lite now exclusively uses Mentor Standard Licensing ("MGLS"), and older "CS" licenses will no longer function. MGLS licenses may be obtained by visiting the My Licenses page on SupportNet, or opening a New Service Request on SupportNet.

- Sourcery CodeBench Lite does not include a bare metal toolchain for AArch64 (64-bit ARM) targets.

- Subversion support works only on Windows hosts.

1.3. Support Information

If you have questions about this software release, please log in to SupportNet. You may search thousands of technical solutions, view documentation, or open a Service Request online at:

supportnet.mentor.com/[1]

If your site is under current support and you do not have a SupportNet login, you may easily register for SupportNet by filling out the short form at:

supportnet.mentor.com/user/register.cfm[2]

All customer support contact information can be found on our web site at:

supportnet.mentor.com/contacts/supportcenters/[3]

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[2] http://supportnet.mentor.com/user/register.cfm
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