



Release Notes for CrossCore Embedded Studio 2.8.2

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1 Introduction

This document describes the changes for CrossCore Embedded Studio (CCES) 2.8.2. You can find the release notes for older releases in the `docs` sub-directory of your CCES installation.

1.1 Supported Operating Systems

Notes for Windows Users

The following versions of Windows are supported for this release of CCES:

- Windows 7 Professional, Enterprise, or Ultimate (32 and 64-bit, SP1 or later)
- Windows 8.1 Pro or Enterprise (32 and 64-bit)
- Windows 10 Pro or Enterprise (32 and 64-bit)

Notes for Linux Users

This release of CrossCore Embedded Studio for Linux has been provided to support the [Linux Add-In for CrossCore Embedded Studio](#) and support bare-metal development on Cortex-M processors such as the [ADuCM36x](#), [ADuCM302x](#) and [ADuCM4x50](#) family of MCUs.

The following Linux distributions are officially supported for this release of CCES:

- Ubuntu 14.04 32-bit
- Ubuntu 16.04 32-bit

The following features are available and supported:

- Compilation using the GNU toolchain for the ARM Cortex-A core on [ADSP-SC57x](#) and [ADSP-SC58x](#) processors.
- Compilation using the GNU ARM toolchain for the [ADuCM36x](#), [ADuCM302x](#) and [ADuCM4x50](#) ARM Cortex-M cores.
- Debugging [ADSP-SC5xx](#), [ADuCM36x](#), [ADuCM302x](#) and [ADuCM4x50](#) via the IDE with GDB/OpenOCD.
- Development and debugging of Applications running under Linux on the ARM Cortex-A core on [ADSP-SC57x](#) and [ADSP-SC58x](#) processors.
- Development and debugging of bare-metal applications on the [ADuCM36x](#), [ADuCM302x](#) and [ADuCM4x50](#) ARM Cortex-M cores.

The following features are only supported via the Windows version of CrossCore Embedded Studio:

- Development, simulation and debug of Blackfin processors
- Development, simulation and debug of SHARC processors (excluding the ARM Cortex-A core on [ADSP-SC57x](#) and [ADSP-SC58x](#) processors)
- Use of CrossCore Embedded Studio Add-Ins other than the [Linux Add-In](#)
- Debugging an Application using the native CrossCore Debugger

1.2 System Requirements

Verify that your PC has these minimum requirements for the CCES installation:

- 2 GHz single core processor; 3.3GHz dual core or better recommended
- 4 GB RAM; 8GB or more recommended

- 2 GB available disk space
- One open USB port

(i) Note

A faster disk drive or SSD decreases the build time, especially for a large amount of source files. 8GB of RAM or more will substantially increase the performance of the IDE.

1.3 Obtaining Technical Support

You can reach Analog Devices software and tools technical support in the following ways:

- Post your questions in the [software and development tools support community at EngineerZone®](#)
- E-mail your questions about software and development tools directly from CrossCore Embedded Studio by choosing Help > Email Support or directly to processor.tools.support@analog.com
- E-mail your questions about processors and processor applications to processor.support@analog.com
- Submit your questions to technical support directly via <http://www.analog.com/support>
- Contact your [Analog Devices sales office](#) or authorized distributor

2 Installing CrossCore Embedded Studio

2.1 Installing CrossCore Embedded Studio on Windows

 **Note:** Windows Only

Caution

Windows users may experience User Access Control (UAC) related errors if the software is installed into a protected location, such as `Program Files` or `Program Files (x86)`. We recommend installing the software in a non-UAC-protected location.

Caution (Windows 8.1 users)

Prior to installation: Ensure your machine is up-to-date with relevant Windows updates from Microsoft. CrossCore Embedded Studio relies upon the Microsoft Universal C Runtime from VisualStudio 2015, and this can silently fail to install if your machine is out of date. For more details, refer to [Update for Universal C Runtime in Windows](#) on Microsoft's web site.

To install CrossCore Embedded Studio, double-click
`ADI_CrossCoreEmbeddedStudio-Rel2.8.2.exe`

To uninstall CrossCore Embedded Studio, open Control Panel / Programs and Features applet, and select to uninstall CrossCore Embedded Studio 2.8.2. You may need to delete the installation directory to clean up any leftover files.

2.2 Installing CrossCore Embedded Studio on Linux

 **Note:** Linux Only

Caution

It is strongly recommended to use the command prompt to install CrossCore Embedded Studio. The installation may not work properly when using Ubuntu Software and/or Ubuntu Software Center.

To install CrossCore Embedded Studio run the following command from the command prompt:

```
sudo dpkg -i adi-CrossCoreEmbeddedStudio-linux-x86-2.8.2.deb
```

To uninstall CrossCore Embedded Studio run the following commands from the command prompt:

```
sudo dpkg -r adi-cces-2.8.2
sudo dpkg -P adi-cces-2.8.2
sudo rm -rf /opt/analog/cces/2.8.2 (to clean up any leftover files)
```

2.2.1 Different users sharing the same CCES license on Linux

Many users can share a single valid `license.dat` file on a system by creating a symbol link to the valid `license.dat` in their own home directory (`~/.analog/cces`).

The user who installed license should ensure that the appropriate directory and file permissions are set-up to allow other users to access the valid `license.dat`.

2.2.2 OpenOCD needs to be run as sudo on Linux

In order to debug an Application with GDB and OpenOCD (Emulator) on Linux, OpenOCD needs to have permissions to access your USB device. You can set-up the necessary permissions when installing CCES on Linux by selecting 'Configure OpenOCD permissions' option on the installation dialog or afterwards by running `sudo sh /opt/analog/cces/2.8.2/Setup/setup_openocd_permissions.sh`.

If you debug an Application with GDB and OpenOCD (Emulator) using the IDE and OpenOCD fails because it cannot access your USB device, a dialog will appear with a message telling you that you can run the `setup_openocd_permissions.sh` script.

If you start CCES with sudo permission, then there should be no problems with OpenOCD accessing your USB device.

3 New and Noteworthy

This release of CrossCore Embedded Studio addresses the following SHARC and Blackfin toolchain issues.

- CCES-20185: A conflict may occur when performing project builds in parallel, if two processes try to create a temporary file with the same name.
- CCES-20186: A slowdown was introduced into CCES 2.8.0. The slowdown was caused by reading additional system register information to resolve a problem during program debug, but these additional definitions take extra time to load, and are not required at build-time.
- CCES-20187: The assembler may report that it is unable to locate certain XML files during parallel project builds. This is caused by the file-open operation failing because another process in the build has the file open and locked.