



## **Release Notes for CrossCore Utilities**

**1.4.0**

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# 1 Introduction

CrossCore Utilities is a collection of utilities for use with ARM-based Analog Devices processors, in conjunction with CrossCore Embedded Studio, IAR or Keil development tools.

- `ccsfp` (CrossCore Serial Flash Programmer): Graphical utility for programming processor flash memory via UART serial connections.
- `elf2ldr`: Command line utility for converting ELF-format executables into the loader stream ("`ldr`") format suitable for booting of ADSP-CM40x processors as well as for dynamic loading with the `libldr` library available in the Board Support Packages of some processors.
- `crctool`: Command line utility for calculating and inserting cyclic redundancy check (CRC) values as required by the boot integrity checks of ADSP-CM41x, ADuCM302x and ADuCM4x50 processors.

## 2 News

Release 1.4.0 adds CrossCore Serial Flash Programmer support for ADSP-SC5xx EZ-Kits.

CCSFP has also been amended to only erase flash pages that are touched by the image that is to be programmed. Previously, for ADSP-CM40x and ADSP-CM41x, it erased all the pages up to the last page touched by the imaged, whereas for ADuCM302x and ADuCM4x50 it erased the entire flash. For the latter two, the change means that a separate Erase command now may be needed before programming when security settings result in an access-protected flash.

## 3 Installation

The install location can be chosen during installation. The default is *C:\Analog Devices\CrossCoreUtilities-Rel1.4.0*.

The installation contains the following directories:

- bin: Contains the utility executables.
- etc: Collateral such as example files for ccsfp.
- src: Sources for the utilities as well as the ccsfp flash programmer kernels.
- Docs: Documentation.

## 4 Documentation

Each of the utilities is documented in its own PDF file in the Docs folder.

## 5 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<sup>®</sup>](#).
- E-mail your questions to [processor.tools.support@analog.com](mailto:processor.tools.support@analog.com).
- E-mail your questions about processors and processor applications to [processor.support@analog.com](mailto: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.