RTOS Utils

Release Notes

TEXAS INSTRUMENTS

Contents

Release Notes

UTILS version 01.00.00.08

Overview

This document provides the release information for the latest RTOS UTILS which can be used by applications that want to manage device resources.

utils includes:
- Pre-compiled library for Arm-A, Arm-M, DSP (Big and Little) Endian of utils
- Source code.
- Scripts to process profiling output
- API reference guide

Dependencies

Utils is dependent on following external components not delivered in PDK package:
- Python   (https://www.python.org/downloads/)
- Pyelftools   (https://github.com/eliben/pyelftools)
- Tabulate   (https://pypi.python.org/pypi/tabulate)

New/Updated Features and Quality

Release 1.0.0.7
- Added support for AM65x

Release 1.0.0.6
- Updated makefile to add RULES_MAKE macro to support build based on custom Rules.make

Release 1.0.0.5

- Added support for AM574x

Release 1.0.0.4

- PRSDK-1199: fixed misra ASM issue

- PRSDK-1327: Add profiling filters to utils package

Release 1.0.0.3

- PRSDK-721 – improve offset/overhead calculation to remove cycle counts < 0
- Klocwork fixes for Utils (PRSDK 839/PRSDK 731)
- Makefile cleanup (PRSDK-803)

Release 1.0.0.2

- Makefile infrastructure for CSL.
- Klocwork fixes for Utils.

Release 1.0.0.1

- Additional support for K2G
- Bug fixes for overflow handling

Release 1.0.0.0

- Initial release

Resolved Incident Reports (IR)

Release 1.0.0.8:

IR #	Description
	Update the include path for PMU header file

Release 1.0.0.7:

IR Parent/ Child Number	Severity Level	IR Description
PRSDK-2194	Major	RTOS Installer script to autoset SDK_INSTALL_PATH

Known Issues/Limitations

IR Parent/ Child Number	Severity Level	IR Description

Licensing

Please refer to the SDK licensing document for the details.
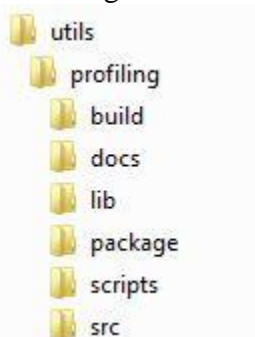
Delivery Package

There is no separate delivery package. UTILS is being delivered as part of PDK.

Installation Instructions

UTILS is currently bundled as part of Platform Development Kit (PDK). Refer installation instruction to the release notes provided for PDK.

Directory structure

The following is the directory structure after the UTILS package has been installed:

The following table explains each individual directory:

Directory Name	Description
ti/utils/profiling	The top level directory contains the following:- 1. *XDC Build and Package files* These files (`config.bld`, `package.xdc` etc) are the XDC build files which are used to create the Utils package. 2. *Exported Driver header files* Header files which are provided by Utils and should be used by the application developers for customization and usage. 3. *Makefile file* The file "`makefile`" is used to rebuild the libraries using standard make procedures.
ti/utils/profiling/build	The directory contains internal XDC build related files which are used to create the Utils package.
ti/utils/profiling/docs	The directory contains the Utils documentation.
ti/utils/profiling/lib	The "`lib`" folder has pre-built Big and Little Endian libraries for Utils along with their *code/data size information*.
ti/utils/profiling/package	Internal Utils package files.

`ti/utils/profiling/src`	Source code for the Utils.
`ti/utils/profiling/script`	The "`script`" directory in Utils has the necessary python scripts which are used for post-processing the output .dat file.

Customer Documentation List

Table 1 lists the documents that are accessible through the **/docs** folder on the product installation CD or in the delivery package.

Table 1   Product Documentation included with this Release

Document #	Document Title	File Name
1	Release Notes (this document)	docs/ReleaseNotes_Utils.pdf