BIN2TDF

{{#switchcategory:MSP430=<McuHitboxHeader/>|C2000=<McuHitboxHeader/>|Stellaris=<McuHitboxHeader/>|TMS570=<McuHitboxHeader/>|MCU=<McuHitboxHeader/>|MAVRK=<MAVRKHitboxHeader/>|<HitboxHeader/>}}

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Introduction

This page describes usage of BIN2TDF utility. BIN2TDF utility is delivered as part of Code Composer Studio (CCS) and used to convert field captured hardware trace data into a format (.tdf) that can be imported in standalone CCS Trace Visualizer.

Location

This utility gets installed in CCS_DIR/ccsv5/ccs_base/emulation/analysis/bin directory as part of Code Composer Studio installation. To use this utility, open a command line shell and change directory to CCS_DIR/ccsv5/ccs_base/emulation/analysis/bin.

Parameters

Required

-bin <Full path to binary file>

This parameter is used to specify the trace binary file.

-app <Full path to out file>

This parameter is used to specify full path of the application location. Trace decoders use application information to decompress and output the trace information.

If using software messages from STM, this parameter needs to be specified with CPU qualification (i.e. CPU=file). More than one of such entries can be specified with comma(,) seperations e.g. CPUo=fileo,cpu1=file1,...

It is sufficient to give just the name after the slash (e.g., C66XX_o) as CPU name, it is not required to use full CPU name as formed in CCS (e.g., Blackhawk XDS560v2-USB Mexxanine Emulator o/C66XX o).

If there is only one processor generating STM SW messages, CPU qualification could be skipped

Note: If you are using CCSv4, this parameter name would be -outfile.

-procid <proc>

This parameter is used to specify processor or trace type. Valid options - 64x, 64x+, 66x, 55x, 55x+, arm7, arm9, arm11, cortexa8, and stm.

Note: If you are using CCSv4, this parameter name would be -cpuid.

-rcvr <receiver name>

This parameter is used to specify receiver type used for trace collection. Valid options - ETB, 560T, 560V2, and Pro

Required for STM (Optional for DSP and ARM/Cortex trace)

-devicekey DeviceID

This parameter is used to define the device ID or device key for identifying STM topology in the device. This is a unique ID (TAP ID) and can be read via Ro of ICEPICK or retreived from the device TRM.

Examples:

Device id for

OMAP4430 ES2 — 0x1B85202F

```
OMAP4430 ES2.1 -- 0x3B95C02F
  OMAP4460
                  -- oxoB94E02F
  OMAP4470
                  -- oxoB97502F
  C6678
                 -- oxooo9E02F
  C6670
                 -- oxooo9Do2F
Turbo-C6670/TCI6618 - oxob94102F
  TCI6614/2
                  - oxoB96202F
                  -- oxB97A02F
  C6657/5/4
  AM335x
                 -- oxoB94402F
                 -- oxoB968o2F
  AM386x
                 -- oxoB8F202F
  AM387x
  DM816x
                 -- 0x0B81E02F
```

Note: If you are using CCSv4, this parameter name would be -deviceid.

-dcmfile <Full path to the metadata file>

This parameter is used to pass additional metadata to help decode. Default is none.

For STM ETB, you could create a foo.dcm configuration file by copying the text in the box below into a text file and saving it with a name like foo.dcm or whatever you prefer.

```
STM_data_flip=1

STM_Buffer_Wrapped=0

HEAD_Present_0=0

HEAD_printer_0=

HEAD_Present_1=1

HEAD_Pointer_1=4
```

STM_data_flip=1 -> This field tells decoder that the data is flipped in receiver packing. This is 1 if using ET. Otherwise, its o.

 $STM_Buffer_Wrapped=o \dashrightarrow This field tells decoder that the buffer is wrapped or not. 1 is wrapped, o for buffer not wrapped. The buffer is wrapped or not. 1 is wrapped, of the buffer not wrapped or not. 2 is wrapped. The buffer is wrapped or not. 2 is wrapped. The buffer not wrapped or not. 2 is wrapped. The buffer not wrapped or not. 2 is wrapped. The buffer not wrapped or not. 2 is wrapped. The buffer not wrapped or not. 2 is wrapped or not. 3 is wrapped. The buffer not wrapped or not. 3 is wrapped or not. 4 is wrapped or not. 3 is wrapped or not. 4 is wrapped or not.$

HEAD_Present_o=o --> STM ETB pointer references to efficiently detect start of the buffer (if buffer wrapped). Default to o unless you know the HEAD information.

HEAD_Pointer_o=o --> STM ETB pointer references to efficiently detect start of the buffer (if buffer wrapped). Default to o unless you know the HEAD information.

HEAD_Present_1=0 --> STM ETB pointer references to efficiently detect start of the buffer (if buffer wrapped). Default to o unless you know the HEAD information.

HEAD_Pointer_1=0 --> STM ETB pointer references to efficiently detect start of the buffer (if buffer wrapped). Default to 0 unless you know the HEAD information.

Optional

-output <TDFFileName>

This parameter is used to specify output TDF file name. Defaul is <BinaryFileName>.tdf.

Note: If you are using CCSv4, this parameter name would be -tdf.

-sourcepaths <"Source paths">

This parameter is used to specify source path location to help Trace Visualizer locate the source files. Multiple paths can be specified with comma seperated string. The Trace Visualizer automatically searches in the sub-directories. Default is empty source path string.

Examples

DSP Trace

bin 2tdf - bin C:/temp/etb data. bin - app C:/Examples/bin/csetbexample. tci 6488. out - procid 64x + -rcvr ETB - output C:/Examples/bin/mytrace. tdf - bin C:/temp/etb - data-bin - app C:/Examples/bin/mytrace. tdf - bin C:/temp/etb - data-bin - app C:/Examples/bin/mytrace. tdf - bin C:/temp/etb - data-bin - app C:/Examples/bin/mytrace. tdf - bin C:/temp/etb - data-bin - app C:/Examples/bin/mytrace. tdf - bin C:/temp/etb - data-bin - app C:/Examples/bin/mytrace. tdf - bin C:/temp/etb - data-bin - app C:/Examples/bin/mytrace. tdf - bin C:/temp/etb - data-bin - app C:/Examples/bin/mytrace. tdf - bin C:/temp/etb - data-bin - app C:/Examples/bin/mytrace. tdf - bin C:/temp/etb - data-bin - app C:/Examples/bin/mytrace. tdf - bin C:/temp/etb - app C:/temp/etb - bin/mytrace. tdf - bin C:/temp/etb - app C:/temp/etb - a

ARM Trace

bin2tdf.exe -bin c:/temp/ETM_etbdata.bin -app C:/Examples/bin/etm_csetb_A8.c6a816x.out -procid cortexa8 -rcvr ETB -dcmfile c:/temp/ETM_etbdata.dcm -output C:/Examples/bin/etm_csetb_A8.c6a816x.tdf

Note: If the device has more than one ARM core, the -cpuname parameter will need to be specified.

 $\label{lem:continuous} bin2tdf.exe -bin c:/temp/ETM_etbdata.bin -app C:/Examples/bin/ptm_tietb_d_A15.c66ak2hxx.out -procid cortexa15 -revr ETB -dcmfile c:/temp/ETM_etbdata.dcm -output C:/temp/ptm_tietb_d_A15.c66ak2hxx.tdf -cpuname CortexA15_o$

System Trace

bin2tdf -bin C:/temp/etbdata.bin -app C66X_o=C:/Examples/bin/tietbexample_d.c66xxstm.out -procid stm -rcvr ETB -devicekey oxooo9Do2F -dcmfile C:/temp/foo.dcm -output C:/Examples/bin/mytrace.tdf

bin2tdf -bin C:/temp/etbdata.bin -app CortexA8_o=C:/Examples/bin/csetbexample_d.ti816xstma8.out -procid stm -rcvr ETB -devicekey oxoB81Eo2F -dcmfile C:/temp/foo.dcm -output C:/Examples/bin/mytrace.tdf

Related

- CToolsLib
- Embedded Trace Buffer or ETB

	Keystone=			MAVRK=For
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