H.264 Decoder on C64x+
Version 2.00

Release Notes

December 2008

Build ID: 2.00.002

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Migration of H264 Baseline Profile Decoder from XDM 0.9 (eXpressDSP Digital Media IVIDDEC) interface to XDM 1.0 (IVIDDEC2) interface

Validation Information

Release Configuration	Description	Validation Platform
DM644x_BP_001	H.264 Baseline Profile Decoder on C64x+ based platform (can be used on any of TI's C64x+ based platforms such as DM644x, DM648, DM643x, OMAP35xx and their derivatives)	DM644x EVM [Datasheet][User Guide]

This release is validated on the following:

- DM644x EVM
    - Framework Component (FC) version 2.20.00.15
    - DSP/BIOS^{TM} version 5.32.02
    - Code Generation Tool version 6.0.8

TEXAS INSTRUMENTS

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00026561	Non-conformance of slice_group_change_cycle to the limit specified in the standard is not detected by the decoder. Non-conformance of motion vector difference to the limits applicable to the level specified in SPS is not detected by the decoder.	DM644x_BP_001

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00027133	The behavior of TI Decoder will not match the behavior of the JM reference decoder and VPROVE for few of the engineered streams	DM644x_BP_001
SDOCM00050578	Issues seen with frame skip mode	DM644x_BP_001
SDOCM00025576	H264 decoder fails for test vectors containing only 1MB	DM644x_BP_001

TEXAS INSTRUMENTS

H.264 Decoder on C64x+
Version 1.13

Release Notes

June 2007

Build ID: 1.13.000

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Supports call-back function to actively acquire NAL Units from the application.
- New error codes added

Validation Information

Release Configuration	Description	Validation Platform
DM644x_BP_001	H.264 Baseline Profile Decoder on C64x+ based platform	DM644x EVM [Datasheet][User Guide]

This release is validated on the following:

- DM644x EVM
    - Framework Component (FC) version 1.10.01
    - DSP/BIOS^{TM} version 5.31.02
    - Code Generation Tool version 6.0.7

TEXAS INSTRUMENTS

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
CDMR00004461	Support for call-back function that actively acquires NAL Unit from the application, and new error codes.	DM644x_BP_001

Known Issues

Defect ID	Description	Applicable Release Configuration
CDMR00004651	Non-conformance of slice_group_change_cycle to the limit specified in the standard is not detected by the decoder. Non-conformance of motion vector difference to the limits applicable to the level specified in SPS is not detected by the decoder.	DM644x_BP_001
CDMR00002248	H.264 Main Profile Decoder fails for vectors containing only 1MB.	DM644x_BP_001
CDMR00003846	Minor limitation: When dynamic change in resolution is present in a stream, value of height and width reported by the decoder is not correct at the transition point. After transition point, values are correct.	DM644x_BP_001
CDMR00001756	Video decoder does not set the average frame rate and average bit rate of decoded frame.	DM644x_BP_001

TEXAS INSTRUMENTS