

H.264 HD Baseline Profile Encoder Version 2.00.01

Release Notes

January 2009

Build ID: 2.00.01.00

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

- Release note documentation defect fixes – Updated Codec Engine version to 2.00.01 and added a note in the Validation Information section

Validation Information

Release Configuration	Description	Validation Platform
DM6446_BP_001	H.264 Baseline Profile Encoder on DM6446 (with IMCOP)	DM6446 EVM [Datasheet] [User Guide]

This release is validated on the following:

- DM6446 EVM
 - Framework Component (FC) version 2.20.00.15
 - DSP/BIOS™ version 5.32.02
 - Codec Engine version 2.00.01
 - XDAIS version 6.20.00.07
 - XDC version 3.00.06
 - Code Generation Tool version 6.1.2

Note:

This codec was built with code generation tools version 6.1.x. However, it can be used in a 6.0.x environment, if you upgrade to patch release 6.0.21, in which defect ID



SDSCM00029193 (Version 6.0.x linker generates incorrect relocation overflow messages when linking a partial link object file built with v6.1.X) was addressed. See the following wiki topic for more details - http://wiki.davincidsp.com/index.php?title=Codec_FAQ#My_codec_is_built_with_TI_CGT_6.1_x_but_the_server.2Fcombo_is_built_with_CGT_6.0.x_-_will_this_work.3F

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00053123	Error in release notes	DM6446_BP_001

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00049520	The library and application builds with warnings	DM6446_BP_001
SDOCM00025339	Macro block too large. The number of bits of <code>macroblock_layer()</code> data must not exceed 3200 bits	DM6446_BP_001
SDOCM00025898	High CPU load for high motion interlaced content	DM6446_BP_001
SDOCM00025899	<code>maxBytesPerSlice</code> requirement may not meet for very less size	DM6446_BP_001
SDOCM00025800	Capture width different from actual width is not supported	DM6446_BP_001
SDOCM00025671	Video quality artifacts observed with interlaced content	DM6446_BP_001
SDOCM00026023	Frame drops observed at 2 mbps with CBR for complex sequences	DM6446_BP_001
SDOCM00026024	Encoder estimates motion for sequence with no motion	DM6446_BP_001
SDOCM00027304	Motion Vector Deviation observed in H.264 HD Encoder when there is no motion (covered with paper)	DM6446_BP_001
SDOCM00026667	H.264 Encoder CPU load goes to 100% when hand covers camera	DM6446_BP_001

H.264 HD Baseline Profile Encoder Version 2.00

Release Notes

November 2008

Build ID: 2.00.004

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 encoder from XDM 0.9 (eXpressDSP Digital Media IVIDENC) interface to XDM 1.0 (IVIDENC1) interface.
- Encoding support up to H.264 Baseline Profile Level 4.1.
- Support for HD, up to 13fps of 720p and 5fps of 1080p

Validation Information

Release Configuration	Description	Validation Platform
DM6446_BP_001	H.264 Baseline Profile Encoder on DM6446 (with IMCOP)	DM6446 EVM [Datasheet][User Guide]

This release is validated on the following:

- DM6446 EVM
 - Framework Component (FC) version 2.20.00.15
 - DSP/BIOS™ version 5.32.02
 - Codec Engine version 2.20.00.15
 - XDAIS version 6.20.00.07
 - XDC version 3.00.06
 - Code Generation Tool version 6.1.2



Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCCM00026604	Non-repeatable motion vectors with few input sequences	DM6446_BP_001

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCCM00049520	The library and application builds with warnings	DM6446_BP_001
SDOCCM00025339	Macro block too large. The number of bits of <code>macroblock_layer()</code> data must not exceed 3200 bits	DM6446_BP_001
SDOCCM00025898	High CPU load for high motion interlaced content	DM6446_BP_001
SDOCCM00025899	<code>maxBytesPerSlice</code> requirement may not meet for very less size	DM6446_BP_001
SDOCCM00025800	Capture width different from actual width is not supported	DM6446_BP_001
SDOCCM00025671	Video quality artifacts observed with interlaced content	DM6446_BP_001
SDOCCM00026023	Frame drops observed at 2 mbps with CBR for complex sequences	DM6446_BP_001
SDOCCM00026024	Encoder estimates motion for sequence with no motion	DM6446_BP_001
SDOCCM00027304	Motion Vector Deviation observed in H.264 HD Encoder when there is no motion (covered with paper)	DM6446_BP_001
SDOCCM00026667	H.264 Encoder CPU load goes to 100% when hand covers camera	DM6446_BP_001

H.264 Baseline Profile Encoder Version 1.13

Release Notes

May 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

- Cleanup of linker command file to avoid too many section names in the final application command file and absorbed the placement information in library (CDMR00004323)

Validation Information

Release Configuration	Description	Validation Platform
DM6446_BP_001	H.264 Baseline Profile Encoder which uses VICP of DM6446	DM6446 EVM [Datasheet][User Guide]

This release is validated on the following:

- DM6446 EVM
 - Framework Component (FC) version 1.10.01
 - DSP/BIOS™ version 5.31
 - Code Generation Tool version 6.0.7



Fixed In This Release

- None

Known Issues

Defect ID	Description	Applicable Release Configuration
CDMR00001377	The library and application builds with warnings	DM6446_BP_001
CDMR00001623	Macro block too large. The number of bits of macroblock_layer() data must not exceed 3200 bits	DM6446_BP_001
CDMR00003035	High CPU load for high motion interlaced content	DM6446_BP_001
CDMR00003039	maxBytesPerSlice requirement may not meet for very less size	DM6446_BP_001
CDMR00002799	Capture width different from actual width is not supported	DM6446_BP_001
CDMR00002477	Video quality artifacts observed with interlaced content	DM6446_BP_001
CDMR00003380	Frame drops observed at 2 mbps with CBR for complex sequences	DM6446_BP_001
CDMR00003381	Encoder estimates motion for sequence with no motion	DM6446_BP_001