

TMS320DM3730 DVSDK 4.03 Release Notes

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Digital Video Software Development Kit (DVSDK) 4_03_00_06 for the TMS320DM3730

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This is a Generally Available (GA) release of the DaVinci Software Development Kit (DVSDK) 4_03_00_06 for the TMS320DM3730 platform. This DVSDK Software release gives developers the ability to evaluate the hardware and software capabilities of the TMS320DM3730 platform. Developers will be able to evaluate the ARM Linux programming environment and easily utilize the hardware support for the powerful multimedia codecs.

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Documentation

- Latest up to the minute information and updates may be found on the [Texas Instruments Embedded Processors Wiki](#).

- The *Quick Start Guide* contains information on how to set up your board for an out of box demo showcase as well as for software development. It is located in the *docs/* folder in the DVSDK along with other documentation.
- The *Software Developer's Guide* contains information on how to start developing software on the TMS320DM3730 board and is located in the *docs/* folder in the DVSDK installation along with other documentation.

Content Overview

The TMS320DM3730 Linux DVSDK includes the following components:

- Platform Support Package
 - ◆ Linux kernel 2.6.37
 - ◆ Boot loaders (u-boot, x-loader)
- Multimedia Package
 - ◆ Multimedia Framework Product (MFP)
 - ◇ Codec Engine Framework
 - ◇ Framework Components
 - ◇ Linux Utils (CMEM)
 - ◇ XDAIS (eXpress DSP Algorithm Interoperability Standard)
 - ◆ Davinci Multimedia Application Interface (DMAI)
 - ◆ DSP Optimized codecs
 - ◇ Encoders: H.264, MPEG-4, JPEG, G711
 - ◇ Decoders: H.264, MPEG-4, MPEG-2, AAC. JPEG, G711
 - ◆ DSP accelerated Gstreamer TI plugin
- DSP Package
 - ◆ C6000 code generation tool chain
 - ◆ DSP/BIOS Real Time Operating System
 - ◆ DSPLink Inter Processor Communication
 - ◆ C6Accel - easy access to DSP accelerated function libraries
 - ◆ C6Run - tool to easily run C code on the DSP
- Graphics Package
 - ◆ Neon accelerated Qt/WebKit application framework
 - ◆ 3D Graphics Support

What's New

The following high-level features are new from the previous SDKs:

- Linux Kernel 2.6.37
- Migrated to integrated GCC 4.3-based toolchain built from Arago
 - ◆ This SDK has changed from using a stand-alone Code Sourcery Lite toolchain to using an integrated GCC 4.3-based toolchain built from Arago. There is no longer a need to download a separate toolchain as the toolchain and tools can now be found in the linux-devkit directory of the SDK

Installation and Usage

The *Software Developer's Guide* contains information on how to start developing software on the TMS320DM3730 device and is located in the *docs/* folder in the DVSDK installation along with other documentation.

Host Support

This release only supports [Ubuntu 10.04 LTS 32-bit](#) as your development host.

Dependencies

QualiTI tool requires the Code Generation Tools XML Output Perl Utility Scripts (CG XML) that is not included in the DVSDK. The CG XML component is available [here](#)

Device Support

This DVSDK supports the TMS320DM3730 EVM

Validation Information

This release has been tested with DM3730 ES 1.2 Silicon with EVM Base board revision G and processor card version C.

Upgrade and Compatibility Information

All the applications migrating to this DVSDK from DVSDK 04.02.00.06 should be ensured to work with kernel 2.6.37

Issues Fixed

- SDOCM00087275 - 3D-Graphics demo do not run issues with few of the Parts shipped recently

Known Issues and Limitations

- SDOCM00087435 - VLIB_mixtureOfGaussians test case fails for C6accel sample app
- SDOCM00087477 - Not able to close matrix GUI from command line
- SDOCM00087648 - Due to 180 degree default rotation 2D Graphics demos needs to be operated (key press) in 180 degree rotated way
- SDOCM00087668 - DMAI loopback_copy application fails with error message for lcd and dvi options.
- SDOCM00087673 - DMAI -> video_loopback_resize application fails with error message.
- SDOCM00087698 - gst pipeline won't work when TIDmaiVideoSink is used
- SDOCM00087705 - clean for matrix & gstreamer_ti is not part of make clean target
- SDOCM00087722 - With the rebuilt uImage Getting error "cfg80211: disagrees about version of symbol module_layout"

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- SDOCM00087723 - With the rebuilt uImage Getting error like "Module not found" for modules omaplfb & bufferclass_ti
- SDOCM00087724 - With the rebuilt uImage Getting error "chmod: /dev/pvrsvrkm: No such file or directory"
- SDOCM00087730 - Video fps is 29 fps instead of 30 fps during decode and display. Because of this audio playback is finished 5 sec earlier.
- SDOCM00087735 - Repeat option in decode demo is not working. And throwing some trace log before exiting the decode demo.
- SDOCM00087739 - ARM load reaches 100% during Mpeg4 Encode from Matrix GUI.
- SDOCM00077611 - 2D Graphics demo not working for DVI output.
- SDOCM00074069 - High ARM load seen with GStreamer pipelines involving the ISP resizer.
- SDOCM00073578 - First few frames of the edge detection demo having video frames at 600 and 300 mpurate.
- SDOCM00073445 - Quality issue with edge detection demo.
- SDOCM00073290 - Run time switch from LCD to DVI (and visa versa) the OSD overlap time DVSDK decode demo runs.
- SDOCM00073286 - S-video display has noise.
- SDOCM00079335 - Decode demo interface does not run properly on S-video output.
- SDOCM00073168 - Installer deletes the entire contents of the install folder when installation is cancelled.
- SDOCM00078157 - For decode/encode demos stop button is not working after pressing play(rec)/pause button.

More details on the known issues can be found on the [DSP Tools and Software Bug Search page](#). You must be a registered user on my.ti.com before you request a new account for the SDOWP database.

Versioning

This is a Generally Available (GA) release (DVSDK 4_03_00_06) for TMS320DM3730.

Technical Support and Product Updates

Latest up to the minute information and updates may be found on the [Texas Instruments Embedded Processors Wiki](#).

The [Embedded Software Linux forum](#) is a forum for discussing the Linux DVSDK development. New versions of the DVSDK are also announced here.

The [DVSDK download page](#) is a top level page for finding the latest DVSDK releases for all TI platforms.