DSP/BIOS Resizer Device Driver

Version: 1.10.03

Release Notes

April 16, 2009

The product release notes in this document are for DM6437 DSP/BIOS Resizer Device Driver, which is part of the DM6437 BIOS package.

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TABLE OF CONTENTS

1 General information 3
2 New In This Release..... 3
3 System Requirements 3
4 Installation and Usage 3
5 Uninstallation..... 3
6 Adding instance of the device driver 3
7 Fixed In This Release 3
8 Known Issues..... 4
9 Revision history 4

1 General information

The Resizer device driver included in this release package supports h/w capabilities of DSP resizer peripheral device.

The driver supports only input from DDR.

The driver is based on an architecture that allows for easy customization/extension. It separates usage policies such as buffering scheme and blocked-calls from basic device management for data transfers.

The driver supports multi channel.

Driver code in this release is MISRAC compliant.

2 New In This Release

- New IOCTLs added to support resize operation without any semaphores in the resize path. Please refer to the resizer driver user guide for more information on using resize IOCTL with callback support.

3 System Requirements

Details about the tools and the BIOS version that the driver is compatible with can be found in the system Release Notes.

4 Installation and Usage

1. Install BIOS package as per instructions provided along with the package.
2. Resizer Device driver sources are available in *<root>\packages\ti\sdo\pspdrivers\drivers\resizer\src* folder.
3. Compile the resizer project file given in build directory to build the debug/idebug/irelease/release library.
4. Sample application/test code is provided in *<root>\packages\ti\sdo\pspdrivers\system\dm6437\bios\evmDM6437\video\sample\build\resizer* folder. Please refer to 'TII DM6437-VPSS_Resizer_Appnote.pdf' for further details.

5 Uninstallation

1. Un-install the Driver package as per instructions provided with the package.

6 Adding instance of the device driver

To have Resizer device driver included in the application, it is required to add the TCI file i.e. "dm6437_resizer.tci" in the TCF file of the application. Refer to section 5 in DM6437_BIOS_PSP_Release_Notes.pdf.

7 Fixed In This Release

- None

8 Known Issues

1.	MISRA C Compliance
Release Note	
The source code, contained in this release, is MISRA C Compliant with some waivers and some bugs in the tool.	
Workaround	
None	

2.	MR Status
Release Note	
MR DPSP00005736 is not being reproduced.	
Workaround	
None	

9 Revision history

Date	Author	Comments	Version
December 4, 2006	EI3	Post-silicon release 0.3.0 with VPSS	1.1
December 11, 2006	EI3	Post-silicon release 0.3.0 with VPSS, Previewer is tested with On-the-fly mode	1.2
December 30, 2006	EI3	Post-silicon release 0.4.0	1.3
January 16, 2007	EI3	Post-silicon release 0.4.1	1.4
January 29, 2007	EI3	Post-silicon release 0.5.0	1.5
March 6, 2007	EI3	Post-silicon release 0.6.0	1.6
April 25, 2007	EI3	Post-silicon release 0.7.0	1.7
May 8, 2007	EI3	Post-silicon release GA 1.0.0.1	1.8
June 22, 2007	Anuj Aggarwal	GA Patch Release 1.00.01	1.9

June 29, 2007	Amit Chatterjee	Modified Release Version	1.10
July 18, 2007	EI3	Modified Release Version	1.11
November 29, 2007	Sivaraj R	PSP merge package changes - directory structure changes	1.12
January 14, 2008	Sivaraj R	PSP_RSZ_IOCTL_SET_SEM_TIMEOUT IOCTL added. Resizer Driver fails all downscale requests with output line not multiple of 16 – bug fixed	1.13
May 28, 2008	M Sriram	Updated for release 1.10.01	1.14
April 16, 2009	M Sriram	Updated for release 1.10.03	1.15