FFT MegaCore Function

Introduction

This document addresses known errata and documentation changes for version 2.1.3 of the FFT MegaCore® function.

Errata are design functional defects or errors. Errata may cause the FFT MegaCore Function to deviate from published specifications.

Documentation changes include typos, errors, unclear descriptions, or omissions from current published specifications or product documents. These documentation changes or clarifications will be incorporated into an upcoming release of the FFT MegaCore function.

FFT MegaCore Function 2.1.3 Issue

Altera has identified the following issue that affects the FFT MegaCore function.

Incorrect Output for FFT Core (Burst Mode, Single Output Engine) When Stimulated with a Delayed Input

In burst mode, a delayed master_sink_sop signal may result in incorrect output. When the FFT/IFFT MegaCore is in burst mode with a single output engine and the MegaCore function is stimulated with input in which the assertion of the master_sink_sop signal is delayed, one or more clocks after the master_sink_ena output is active, (as indicated in the *FFT Compiler User Guide*), an incorrect output may be generated.

Affected Configurations

The burst mode, single output engine is affected when it is stimulated with a delayed input. The output data may contain incorrectly computed values.

Design Impact

Your output may contain incorrect values.

Workaround

Do not use burst mode, or supply the master_sink_sop signal immediately after master_sink_ena is asserted.

If you must use this configuration with this type of stimulus, consult Altera Technical Support for a patch.

Solution Status

This problem will be resolved in the next release of the FFT/IFFT MegaCore.

Contact Information

For more information, contact Altera's mySupport website (**www.altera.com/mysupport**) and click **Create New Service Request**. Choose the **Product Related Request** form.

Revision History

Table 1 shows the revision history of this errata sheet.

Table 1. Errata Sheet Revision History

Version	Date	Details of Change
1.0	February 2005	First release of the FFT MegaCore function errata sheet for version 2.1.1.
1.0	April 2005	First release of the FFT MegaCore function errata sheet for version 2.1.2.
1.0	June 2005	First release of the FFT MegaCore function errata sheet for version 2.1.3.