SYNOPSYS®

DesignWare Cores Hi-Speed USB On-The-Go Controller Subsystem Linux Driver Software

Release Notes

4334-0 DWC USB 2.0 HSOTG Linux Driver

Version 2.90a
April 2009

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Release Notes

These release notes describe changes for Version 2.90a of the DesignWare Cores HS OTG Linux Driver Software.

1 Enhancements with this Release

This release includes:

- Support for Descriptor DMA in host mode
- Support for non-DWORD aligned buffers in Buffer DMA mode
- Defect fixes related to isochronous SPLIT IN transfers

2 STARs on the Web

You can view a complete list of problem reports for this product, including problems identified after product release, by accessing the STAR report on the Web. You must have a SolvNet ID in order to view STAR reports.

You can access STAR reports for any DesignWare verification model or synthesizable component through the IP Directory:

https://www.synopsys.com/dw/star.php?c=dwc_usb_2_0_hs_otg_linux_software

Enhancement STARs are identifiable by the letter "E" in the Severity column, and fixed defect STARs are identifiable by the letter "B." For previous core versions, click the tab corresponding to the version in question.

3 Known Issues and Limitations

- To enable thresholding, the AHB must run at 60 MHz or faster.
- The driver does not support multiprocessor systems, because data structures are not protected with spin locks.
- In PTI mode, multiple "Transfer Complete" interrupts, asserted because of isochronous OUT packet dropped conditions being detected, may be merged in a system without sufficient performance to handle interrupts within one microframe. To avoid this issue, set the Receive FIFO size to store two or more (micro-) frames of isochronous data.

4 Customer Support

To obtain support for your product, choose one of the following:

- Enter a call through SolvNet.
  - Go to https://solvnet.synopsys.com/ManageCase?ccf=1 and provide the requested information, including:
    - Product: DesignWare Cores
    - Sub Product: USB 2.0 OTG
    - Version: 2.90a
    - Subject: HS OTG Linux Driver Software
- Send an e-mail message to support_center@synopsys.com.
  - Include the Product name, Sub Product name, and Version (product release number) in your e-mail so it can be routed correctly.
  - Provide the following additional information, if applicable:
    - For environment setup problems, run the debug_info command in the coreConsultant GUI and include the text file generated.
    - For configuration failures, include the error messages that appear in the coreConsultant GUI console pane.
    - For simulation failures, include a text file with your specific configuration. Generate this text file using the coreConsultant GUI.s write_batch_script command. Also include the log file from the <workspace>/simulation/ directory, the log file for the specific test, and a VPD/VCD waveform dump file.
    - For synthesis failures, include the log file from the <workspace>/syn/ directory.
- Telephone your local support center.
  - United States:

    Call 1-800-245-8005 from 7 AM to 5:30 PM Pacific time, Monday through Friday.
  - Canada:

    Call 1-650-584-4200 from 7 AM to 5:30 PM Pacific time, Monday through Friday.
  - All other countries:

    http://www.synopsys.com/support/support_ctr