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• COPYING: This file contains GNU GPL license. Usage: • Clone the directory on ubuntu machine to which ZynqMP PS-PCle End Point card is connected. git clone git@github.com:Xilinx/zynqmp-pspcie-epdma.git Change directory to the cloned directory. cd zynqmp\_ep\_ps\_pcie\_dma • Compile kernel module driver and application. make install the kernel module driver. sudo make insert • Change permission ps\_pcie\* nodes ,so that application can run without sudo permission sudo chmod 777 /dev/ps\_pcie\* Test App - DMA Transfers Application cd apps ./simple\_test -c 0 -a 0x100000 -l 1024 -d s2c ./simple\_test -c 1 -a 0x100000 -l 1024 -d c2s -c option specifies channel number. -a option specifies end point address. -l option specifies packet length. -d option specifies transfer direction. It can be either s2c or c2s. • Test App - Programmable Input Output cd apps ./pio\_test -o 0x0 -l 64 -o option specifies offset at PCI BAR 2. -l option specifies length of data to be written and read back. Uninstall the kernel module sudo make remove Clean Driver and Application make clean Frequently Asked Questions Q: How do I modify the PCIe Device IDs recognized by the kernel module driver? A: The driver/ps\_pcie\_dma.c file constains the pci\_device\_id struct that identifies the PCIe Device IDs that are recognized by the driver in the following format: { PCI\_DEVICE(<VENDOR ID> , <DEVICE ID>), }, Add, remove, or modify the PCIe Device IDs in this struct as desired. Then uninstall the existing kernel module, compile the driver again, and re-install the driver.

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