Edgar Twigg (don't hesitate to e-mail if you have questions) bwayr@mit.edu

This document is designed to help you get started communicating between a PC and the labkit using the FTDI USB interface. Although this document was constructed using MSVC on a Windows PC, FTDI does offer drivers for Mac and Linux.

There are three parts:

- -Wire the FTDI device
- -Implement the Verilog side
- -Implement the PC side

Also, the FTDI device is capable of both sending and receiving. Although this document only covers sending data from a PC to the labkit, it isn't much harder to add the capability to send data from the labkit to the PC.

Wire the FTDI Device

Wire it up according to the datasheet which you can find here: www.dlpdesign.com/usb/dlp-usb245mv15.pdf

Verilog Side

This is where the bulk of the work lies. A reader (but not a writer) is in this folder under usb input.v

PC Side

The first step is to install FTDI's drivers, which you can obtain at http://www.ftdichip.com/Drivers/D2XX.htm.

If you're on windows, you can just run the included WriteToUSB application.

If you're not on windows, the code is all written in very simple C, and it should take only a few simple modifications to get it to compile on Mac or Linux.