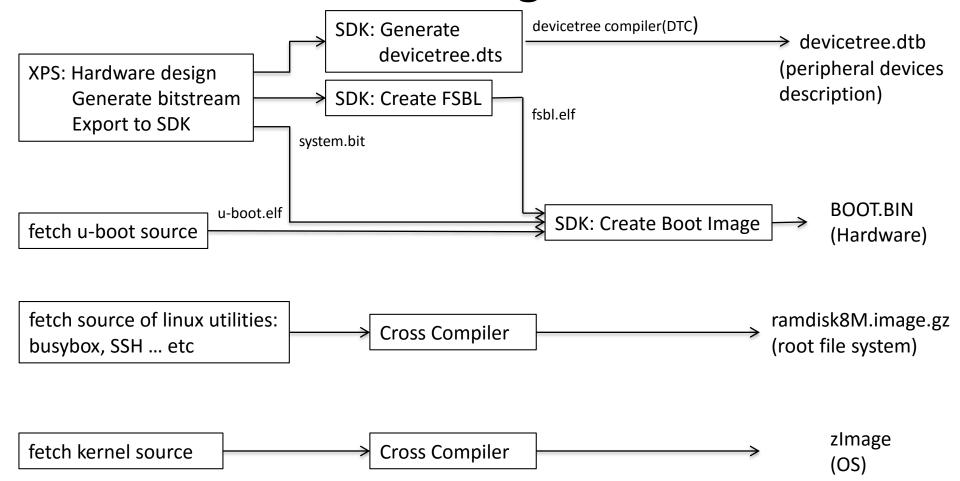
# ZedBoard Lab 1 First Boot

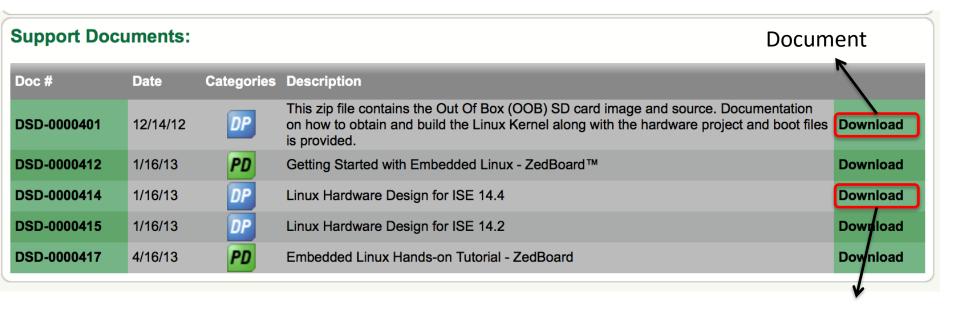
Chun-Chen Tu timtu@umich.edu

# Lots of things to do



### Start from a prebuilt image

Download from here



**Prebuilt files** 

### Prepare your SD card

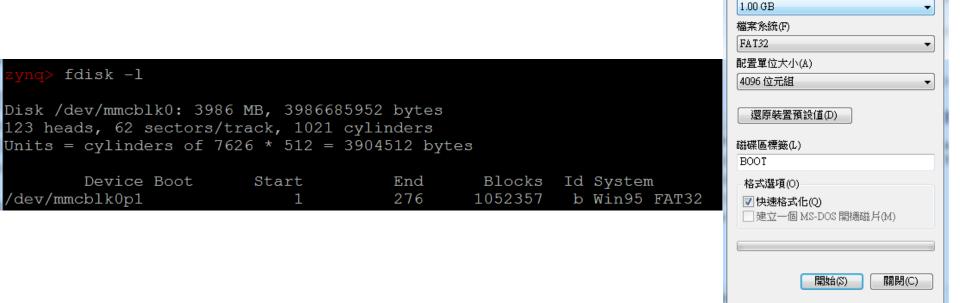
- You need FAT format for your SD card.
  - You can done this by formatting under Window or Linux
  - It's easy, google it!!
    - Key words for linux: fdisk, gparted

For running hadoop, you may need two partitions. One for

格式化 BOOT (G:)

容量(P):

FAT and the other for ext2, ext3 or ext4.



# What's in prebuilt zip?

- Unzip it and read the ProjectGuide.pdf under doc folder.
- What we need are 4 files under sd\_image folder

BOOT.BIN	2013/1/7 下午 01	BIN 檔案	4,226 KB
devicetree.dtb	2013/1/7 下午 02	DTB 檔案	10 KB
ramdisk8M.image.gz	2013/1/7 下午 02	WinRAR 壓縮檔	3,608 KB
zImage	2013/1/7 下午 02	檔案	2,402 KB

#### Boot up

- Copy 4 file into SD card.
- Make sure the ZedBoard is under SD card booting configuration.

MIO 6: set to GND

MIO 5: set to 3V3

MIO 4: set to 3V3

MIO 3: set to GND

MIO 2: set to GND

VADJ Select: Set to 1V8

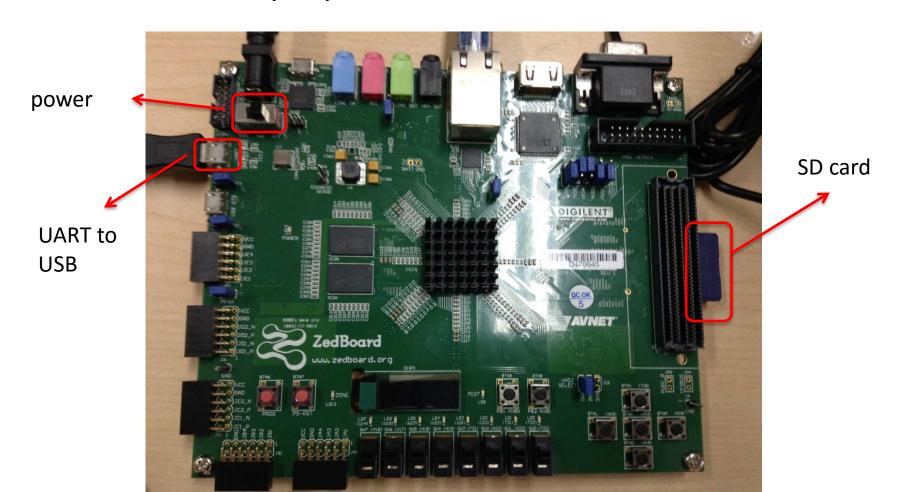
JP6: Shorted

JP2: Shorted

All other jumpers should be left unshorted

# Boot from basic prebuilt image

Insert the SD card in Zedboard and connect the UART to USB(PC).



#### Setup terminal

turn on the power

Linux:at terminal

sudo screen /dev/ttyACM0 115200

Or you can use Putty for the right COM port and buad rate = 115200

```
Starting rcS...
++ Mounting filesystem
++ Setting up mdev
++ Configure static IP 192.168.1.10
++ Starting telnet daemon
++ Starting http daemon
++ Starting ftp daemon
++ Starting dropbear (ssh) daemon
++ Starting OLED Display
[ 1.870000] spi_gpio spi_gpio.2: master is unqueued, this is deprecated
[ 1.880000] pmodoled-gpio-spi [zed_oled] SPI Probing
++ Exporting LEDs & SWs
rcS Complete
zyng>
```

Easy, isn't?