What's new? | Help | Directory | Sign in beagleboard Search projects Low-cost OMAP3 single-board computer **Project Home** Downloads Wiki Issues Search Current pages Search for **BeagleSoftCompile** Updated Aug 30, 2008 by Beagle Board Software Compilation Procedure. ikridner **Beagle Board Software Compilation Options and** Procedure **Related Links:** Beagle Source and Tools **Beagle Software Booting Procedure** Compiling x-loader Compiling x-loader for NAND booting In file include/configs/omap3530beagle.h Disable the "CFG\_CMD\_MMC" Macro /\* For X-loader to be flashed on to NAND disable the below macro \*/
//#define CFG\_CMD\_MMC 1 Comiple the x-loader as shown below make CROSS\_COMPILE=arm-none-linux-gnueabi- distclean make CROSS\_COMPILE=arm-none-linux-gnueabi- omap3530beagle\_config make CROSS\_COMPILE=arm-none-linux-gnueabi-File named "x-load.bin" will be generated • Convert x-load.bin to x-load.bin.ift (required to FLASH x-loader to NAND) 1. Use the "SignGP" tool to sign the x-loader image. ./signGP x-load.bin 2. Copy x-load.bin.ift to MMC/SD card using a card reader/writer or download it through UART. Prebuilt Image for testing (Save this as x-load.bin.ift) Compiling x-loader for MMC booting In file include/configs/omap3530beagle.h Enable the "CFG\_CMD\_MMC" Macro /\* For X-loader to be flashed on to NAND disable the below macro \*/ #define CFG\_CMD\_MMC 1 Comiple the x-loader as shown below make CROSS\_COMPILE=arm-none-linux-gnueabi- distclean
make CROSS\_COMPILE=arm-none-linux-gnueabi- omap3530beagle\_config
make CROSS\_COMPILE=arm-none-linux-gnueabimake CROSS<sup>-</sup>COMPILE=arm-none-linux-gnueabi-File named "x-load.bin" will be generated Convert x-load.bin to MLO (required for MMC booting) 1. Use the "SignGP" tool to sign the x-loader image. ./signGP x-load.bin

2. Rename x-load.bin.ift to MLO

3. Copy MLO to MMC/SD card using a card reader/writer.

Prebuilt Image for testing (Save this as MLO)

## Compiling u-boot

Compiling u-boot for Flashing NAND automatically

- In file include/configs/omap3530beagle.h
  Enable the CONFIG\_BOOTCOMMAND Macro as shown below

Un comment the below CONFIG\_BOOTCMD #define CONFIG BOOTCOMMAND "mmcinit;fatload mmc 0 0x80200000 x-load.bin.ift;\ nand unlock;nand ecc hw;nand erase 0 80000;nand write.i 0x80200000 0 80000;\ fatload mmc 0 0x80200000 flash-uboot.bin; nand unlock;\ nand ecc sw;nand erase 80000 160000; nand write.i 0x80200000 80000 160000;\0" Comment the below line as shown below /\* #define CONFIG BOOTCOMMAND "\0" \*/

Comiple the u-boot as shown below

make CROSS\_COMPILE=arm-none-linux-gnueabi- distclean make CROSS\_COMPILE=arm-none-linux-gnueabi- omap3530beagle\_config make CROSS\_COMPILE=arm-none-linux-gnueabi-

File named "u-boot.bin" will be generated

Prebuilt Image for testing (Save this as u-boot.bin)

## Compiling u-boot for regular Kernel Booting

- In file include/configs/omap3530beagle.h
- Enable the CONFIG\_BOOTCOMMAND Macro as shown below

Comment the below CONFIG BOOTCOMMAND macro

#define CONFIG BOOTCOMMAND "mmcinit;fatload mmc 0 0x80200000 x-load.bin.ift;\ nand unlock;nand ecc hw;nand erase 0 80000;nand write.i 0x80200000 0 80000;\ fatload mmc 0 0x80200000 flash-uboot.bin; nand unlock;\ nand ecc sw;nand erase 80000 160000; nand write.i 0x80200000 80000 160000;\0"

Un-comment CONFIG BOOTCOMMAND macro as shown below
#define CONFIG\_BOOTCOMMAND "\0"

Comiple the u-boot as shown below

make CROSS\_COMPILE=arm-none-linux-gnueabi- distclean make CROSS\_COMPILE=arm-none-linux-gnueabi- omap3530beagle\_config make CROSS\_COMPILE=arm-none-linux-gnueabi-

File named "u-boot.bin" will be generated

Prebuilt Image for testing (Save this as u-boot.bin for booting over MMC) (Save the same as flash-uboot.bin in MMC for flashing automatically to NAND)

## **Compiling Kernel**

· Compile the Kernel as shown below

make CROSS COMPILE=arm-none-linux-gnueabi- distclean make CROSS COMPILE=arm-none-linux-gnueabi- omap3\_beagle\_defconfig make CROSS\_COMPILE=arm-none-linux-gnueabi- uImage

File named "ulmage" will be generated in arch/arm/boot directory

Prebuilt Kernel Image for testing (Save this as ulmage)

Comment by phuongminh.dang, Mar 26, 2009

I'd build the ethernet gadget module (omap\_udc.ko & g\_ether.ko) but I can not insert these modules, what wrong ???

\$ insmod omap\_udc.ko \$ insmod g\_ether.ko \$ insmod: cannot insert 'g\_hid.ko': No such device

go to omap\_udc.c and I found the regiter function (usb\_gadget\_register\_driver()) break down at the following line :

/ basic sanity tests / if (!udc)

return -ENODEV;

I used printk function to find out this bug and found that the omap\_udc\_probe() can not be called here! (just only init function is called).

I want to use omap\_udc.c to develop my own HID keyboard and mouse gadget devices! musb\_hdrc seem to be impossible for this purpose !!!

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