

U-Boot

- ✓ u-boot(Universal Bootloader) is an open source, multi platform bootloader...
- ✓ u-boot supports interactive commands, environment variables, and booting from external media.
- ✓ u-boot supports a large variety of popular CPUs and CPU families





Building U-Boot

\$ make <boardname>_config

\$ make CROSS_COMPILE=\$(CROSSTOOL-PATH)

1. u-boot.bin is the binary image. (with ELF headers striped out) used for download and Debugging

2. u-boot.map has the global addresses for symbols, etc.





U-Boot Commands

Set server ip address

u-boot> setenv serverip <server ip>

Set ip address

u-boot> setenv ipaddr <I addr>

Transfer kernel image and root file system image using tftp

U-boot> tftpboot <Load address> <uImage>

For KB9202 Board

U-boot> tftpboot 21000000 ulmage

U-boot> tftpboot 22000000 myfs





U-Boot Commands

Mounting root file system like initial ram disk

u-boot> setenv bootargs console=ttyS0,115200n8 root=/dev/ram0 rw initrd=0x22000000,4M

u-boot> setenv bootargs console=ttyS0,115200 root=/dev/ram0 rw initrd=0x22000000,4M rootfstype=jffs2 mem=64M

Mounting root filesystem with NFS

u-boot> setenv bootargs console=ttyS0,115200 root=/dev/nfs nfsroot=192.168.1.50:/media ip=192.168.1.1

Booting kernel image from RAM

u-boot> bootm <kernel image load address>

