

Building Linux Kernel for MINI2440

- Configure kernel for target board

\$ make ARCH=arm mini2440_defconfig

Note: Default configuration files resides in \$(linux_source)/arch/\$(arch)/configs/

- Customizing linux kernel for mini2440

\$ make ARCH=arm menuconfig

- Building kernel with **initramfs/initrd** support

General setup --->

[*] Initial RAM filesystem and RAM disk (initramfs/initrd) support

Device Drivers --->

[*] Block devices --->

<*> RAM block device support

- Building kernel with **hot-pluggable** devices support

General setup --->

[*] Configure standard kernel features (expert users) --->

Device Drivers --->

Generic Driver Options --->

[*] Maintain a devtmpfs filesystem to mount at /dev

[*] Automount devtmpfs at /dev, after the kernel mounted the rootfs

- Building kernel with **NFS** support

[*] Networking support --->

Networking options --->

[*] TCP/IP networking

[*] IP: kernel level autoconfiguration

[*] IP: DHCP support

[*] IP: BOOTP support

[*] IP: RARP support

File systems --->

[*] Network File Systems --->

- Building kernel with **flash file-system** support

File systems --->

[*] Miscellaneous filesystems --->

<*> Journalling Flash File System v2 (JFFS2) support

ubifs support :(optional)

Device Drivers --->

<*> Memory Technology Device (MTD) support --->

<*> Enable UBI - Unsorted block images --->

File systems --->

[*] Miscellaneous filesystems --->

<*> UBIFS file system support

- Export Cross-compiler path

\$ PATH=\$PATH:/usr/local/bin/at91

- Save and exit from configuration tab.

- Building kernel for target

\$ make ARCH=arm CROSS_COMPILE=arm-linux- uImage

Note: Creates bootable kernel images in **\$(linux_source)/arch/\$(arch)/boot/**

Image	- uncompressed kernl image
zImage	- compressed kernel image
uImage	- u-boot compatable kernel Image