

Lab – Configuring the Kernel

1. Create an empty new directory “testexe” (inside home directory)
`mkdir testexe`
2. Uncompress the kernel from Download directory
`tar xvf ../Downloads/linux-3.10.tar.bz2`
3. Edit the kernel Makefile, set the ARCH to arm and CROSS_COMPILE to arm-none-linux-gnueabi-
4. Configure the board to versatilepb
`make versatile_defconfig`
5. Enter the kernel configuration menu
`make menuconfig`
6. Set printk times and default log level to 7 (kernel hacking menu)
7. Build the kernel
8. Inside ~/armsystem directory copy the script run_qemu , edit it to use the kernel you built
9. Configure the kernel to use large fonts:
Device Drivers > Graphics support > Console display driver support
10. Configure the kernel to support eabi format – kernel features
11. rebuild the kernel and test it