

RealTime (RT) Kernel

- `sudo apt install git bc bison flex libssl-dev make libncurses5-dev #I think this is all the tools required`
- `mkdir kernel && cd kernel/`
- `git clone -depth=1 -branch rpi-6.12.y`
<https://github.com/raspberrypi/linux>
- `wget`
<https://mirrors.edge.kernel.org/pub/linux/kernel/projects/rt/6.12/patch-6.12.28-rt10.patch.gz>
- `cd linux/`
- `zcat ../patch-6.12.28-rt10.patch.gz | patch -p1 -dry-run #check the patch fits`
- `zcat ../patch-6.12.28-rt10.patch.gz | patch -p1`
- `KERNEL=kernel8`
- `make bcm2711_defconfig`
- `make menuconfig #General → Preemption Model select Real Time option`
- `nano .config #add personalised suffix to CONFIG_LOCALVERSION`
- `make -j4 Image.gz modules dtbs`

```
echo $KERNEL sudo make modules_install sudo cp arch/arm64/boot/dts/broadcom/*.dtb /boot/ sudo cp arch/arm64/boot/dts/overlays/*.dtb* /boot/overlays/ sudo cp arch/arm64/boot/dts/overlays/README /boot/overlays/ sudo cp arch/arm64/boot/Image.gz /boot/$KERNEL.img
```

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