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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