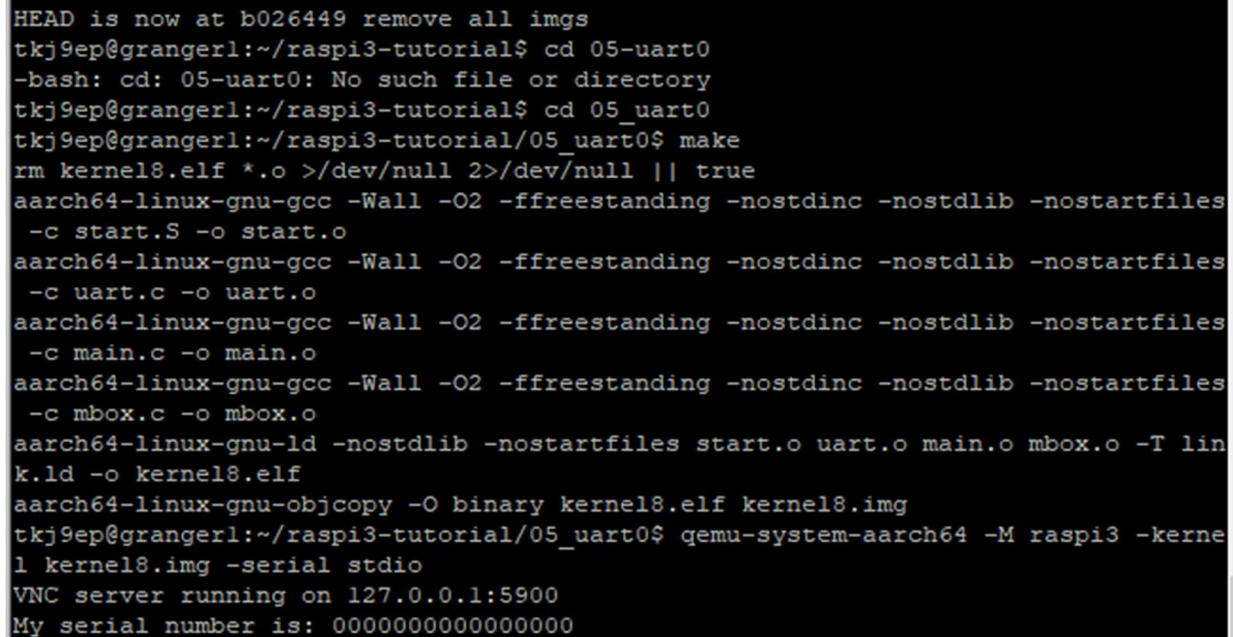


Follow the given instructions and bring up everything. Stating your setup:

- If you use QEMU: attach a screenshot of the baremetal program running



```
HEAD is now at b026449 remove all imgs
tkj9ep@granger1:~/raspi3-tutorial$ cd 05-uart0
-bash: cd: 05-uart0: No such file or directory
tkj9ep@granger1:~/raspi3-tutorial$ cd 05_uart0
tkj9ep@granger1:~/raspi3-tutorial/05_uart0$ make
rm kernel8.elf *.o >/dev/null 2>/dev/null || true
aarch64-linux-gnu-gcc -Wall -O2 -ffreestanding -nostdinc -nostdlib -nostartfiles
-c start.S -o start.o
aarch64-linux-gnu-gcc -Wall -O2 -ffreestanding -nostdinc -nostdlib -nostartfiles
-c uart.c -o uart.o
aarch64-linux-gnu-gcc -Wall -O2 -ffreestanding -nostdinc -nostdlib -nostartfiles
-c main.c -o main.o
aarch64-linux-gnu-gcc -Wall -O2 -ffreestanding -nostdinc -nostdlib -nostartfiles
-c mbox.c -o mbox.o
aarch64-linux-gnu-ld -nostdlib -nostartfiles start.o uart.o main.o mbox.o -T lin
k.ld -o kernel8.elf
aarch64-linux-gnu-objcopy -O binary kernel8.elf kernel8.img
tkj9ep@granger1:~/raspi3-tutorial/05_uart0$ qemu-system-aarch64 -M raspi3 -kerne
l kernel8.img -serial stdio
VNC server running on 127.0.0.1:5900
My serial number is: 000000000000000000
```

- The screenshot of the baremetal code is from the link <https://fxlin.github.io/p1-kernel/exp0/rpi-os/> at the bottom of the page, triggered by the code line "qemu-system-aarch64 -M raspi3 -kernel kernel8.img -serial stdio"

- Which machine(s) are you using for development? If you use the CS server (granger1), have you set up key-based authentication for SSH?

I am using machines in granger1 and granger2

I have setup key-based authentication for SSH

- If you use Rpi3: show a picture (e.g. taken by your phone) of the baremetal program running.
 - Which machine(s) are you using for development?

N/A

- What code editor(s) do you use? If you use VSCode, have you made remote SSH (which allows the VScode connects to the course servers remotely) work as the project instructions show?

Vim

VSCode; yes, it does connect remotely