

practice03

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Kernel Porting | Compiling the kernel + Loading kernel image in RAM

U-boot booted

u-boot result

```
user@user-virtual-machine: ~/vpos

Welcome to minicom 2.8

OPTIONS: I18n
Port /dev/pts/1, 17:12:47

Press CTRL-A Z for help on special keys

2021011158 >|
```

- Modified `CONFIG_SYS_PROMPT` value to student number.

```
465 CONFIG_SYS_LONGHELP=y
466 CONFIG_SYS_PROMPT="2021011158 >|"
467 CONFIG_SYS_PROMPT_HUSH_PS2="> "
```

- pts path is redirected to `/dev/pts/1` when running qemu

```
user@user-virtual-machine:~/u-boot$ qemu-system-arm -cpu cortex-a7 -machine virt -nographic -m 512M -serial pty -bios /h
QEMU 6.2.0 monitor - type 'help' for more information
(qemu) char device redirected to /dev/pts/1 (label serial0)
```

- Changed `minicom` setting based on the pts path which is found through previous command.

```
+-----+
| A - Serial Device      : /dev/pts/1
| B - Lockfile Location  : /var/lock
| C - Callin Program     :
| D - Callout Program    :
| E - Bps/Par/Bits       : 115200 8N1
| F - Hardware Flow Control : No
| G - Software Flow Control : No
| H - RS485 Enable       : No
| I - RS485 Rts On Send   : No
| J - RS485 Rts After Send : No
| K - RS485 Rx During Tx  : No
| L - RS485 Terminate Bus : No
| M - RS485 Delay Rts Before: 0
| N - RS485 Delay Rts After : 0
|
| Change which setting? |
+-----+
```

vpos.bin ported and booted

vpos booting result

```
2021011158 >tftp 40000000 vpos.bin
Using e1000#0 device
TFTP from server 10.0.2.2; our IP address is 10.0.2.15
Filename 'vpos.bin'.
Load address: 0x40000000
Loading: #####
          43.9 KiB/s
done
Bytes transferred = 46080 (b400 hex)
2021011158 >go 40000000
## Starting application at 0x40000000 ...
█
```

- Boot vpos kernel using tftp.