

# Assignment 3

## 修改内容

```
diff --git a/linux/samples/rust/Kconfig b/linux/samples/rust/Kconfig
index 189c10ced..066134d24 100644
— a/linux/samples/rust/Kconfig
+++ b/linux/samples/rust/Kconfig
@@ -163,4 +163,9 @@ config SAMPLE_RUST_SELFTESTS
```

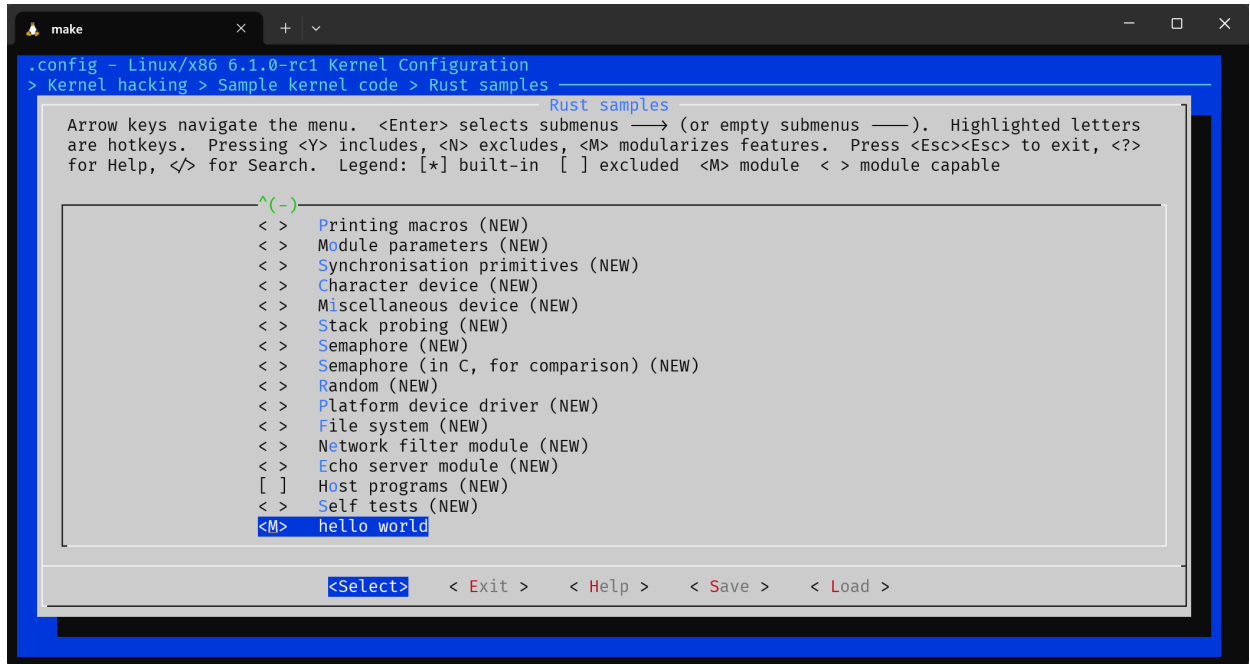
If unsure, say N.

```
+config SAMPLE_RUST_HELLOWORLD
+    tristate "hello world"
+    help
+        simple hello world module from rust.
+
+    endif # SAMPLES_RUST
diff --git a/linux/samples/rust/Makefile b/linux/samples/rust/Makefile
index 420bcefeb..3576994a9 100644
— a/linux/samples/rust/Makefile
+++ b/linux/samples/rust/Makefile
@@ -15,5 +15,6 @@ obj-$(CONFIG_SAMPLE_RUST_NETFILTER) +=
rust_netfilter.o
obj-$(CONFIG_SAMPLE_RUST_ECHO_SERVER) += rust_echo_server.o
obj-$(CONFIG_SAMPLE_RUST_FS) += rust_fs.o
obj-$(CONFIG_SAMPLE_RUST_SELFTESTS) += rust_selftests.o
+obj-$(CONFIG_SAMPLE_RUST_HELLOWORLD) += rust_helloworld.o

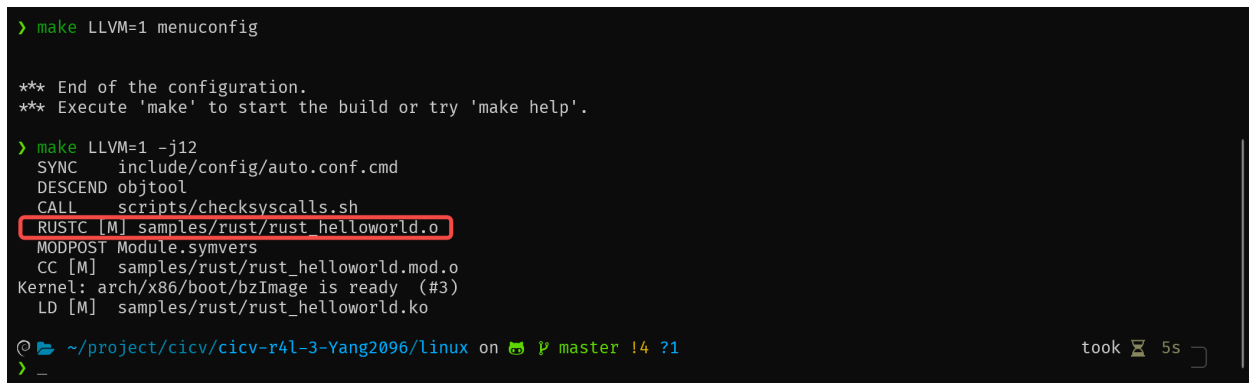
subdir-$(CONFIG_SAMPLE_RUST_HOSTPROGS) += hostprogs
```

## 操作记录

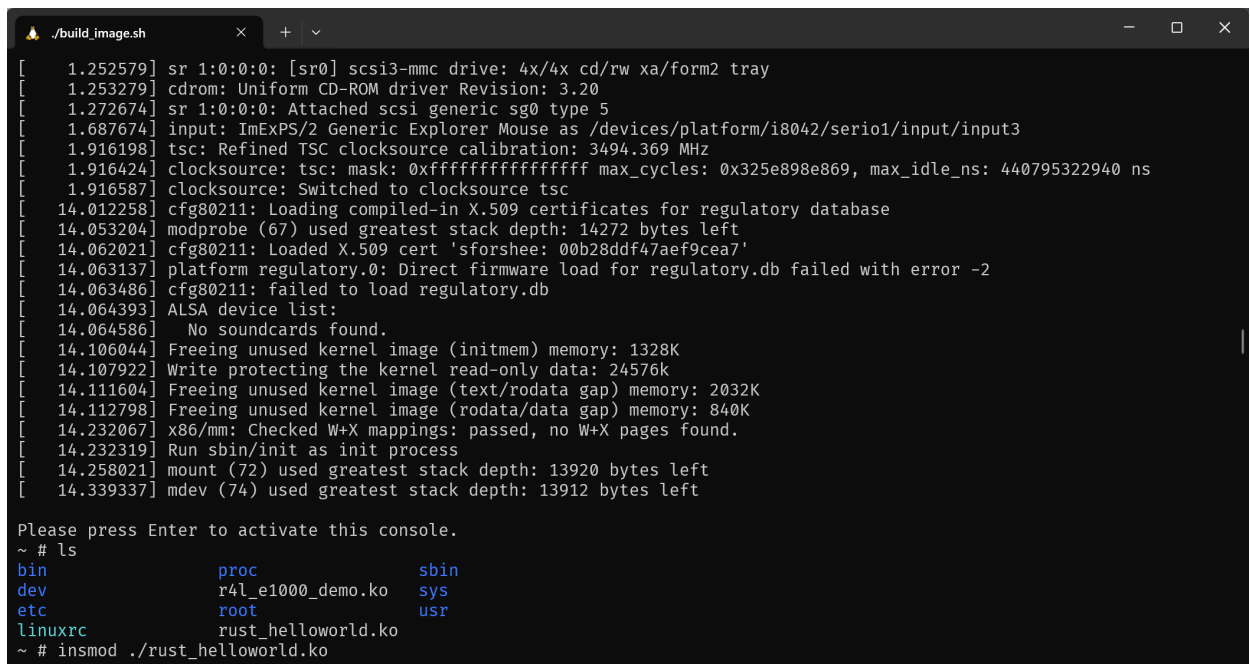
## 1. 在 menuconfig 中启用模块



## 2. 重新编译



## 3. 进入系统，载入模块



#### 4. dmesg 查看模块输出

```
./build_image.sh
[ 1.253279] cdrom: Uniform CD-ROM driver Revision: 3.20
[ 1.271555] sr 1:0:0:0: Attached scsi CD-ROM sr0
[ 1.272674] sr 1:0:0:0: Attached scsi generic sg0 type 5
[ 1.687674] input: ImExPS/2 Generic Explorer Mouse as /devices/platform/i8042/serio1/input/input3
[ 1.916198] tsc: Refined TSC clocksource calibration: 3494.369 MHz
[ 1.916424] clocksource: tsc: mask: 0xffffffffffffffff max_cycles: 0x325e898e869, max_idle_ns: 440795322940 ns
[ 1.916587] clocksource: Switched to clocksource tsc
[ 14.012258] cfg80211: Loading compiled-in X.509 certificates for regulatory database
[ 14.053204] modprobe (67) used greatest stack depth: 14272 bytes left
[ 14.062021] cfg80211: Loaded X.509 cert 'sforshee: 00b28ddf47aef9cea7'
[ 14.063137] platform regulatory.0: Direct firmware load for regulatory.db failed with error -2
[ 14.063486] cfg80211: failed to load regulatory.db
[ 14.064393] ALSA device list:
[ 14.064586]   No soundcards found.
[ 14.106044] Freeing unused kernel image (initmem) memory: 1328K
[ 14.107922] Write protecting the kernel read-only data: 24576k
[ 14.111604] Freeing unused kernel image (text/rodata gap) memory: 2032K
[ 14.112798] Freeing unused kernel image (rodata/data gap) memory: 840K
[ 14.232067] x86/mm: Checked W+X mappings: passed, no W+X pages found.
[ 14.232319] Run sbin/init as init process
[ 14.232368]   with arguments:
[ 14.232380]     sbin/init
[ 14.232393]   with environment:
[ 14.232402]     HOME=/
[ 14.232412]     TERM=linux
[ 14.258021] mount (72) used greatest stack depth: 13920 bytes left
[ 14.339337] mdev (74) used greatest stack depth: 13912 bytes left
[ 67.338994] rust_helloworld: Hello World from Rust module
[ 71.301399] dmesg (82) used greatest stack depth: 13720 bytes left
~ #
```