- Source it:

source /scratch/opt/environment-setup-i586-poky-linux

- Patch Kconfig, Makefile, introduce sbd.c, copy it in via Assignment3OldFiles

Apply patch: patch < assignment3.patch

(to make patch: diff -rupN Assignment3OldFiles/ Assignment3NewFiles/ > assignment3.patch)

- Make sure sbd.c is in there and compiles

- make menuconfig, device drivers, use our device driver

- make -j4 all produces sbd.ko file which is the module

- Run qemu with networking:

qemu-system-i386 -gdb tcp::6504 -S -nographic -kernel arch/x86/boot/bzImage -drive file=core-image-lsb-sdk-qemux86.ext3,if=ide -enable-kvm -usb -localtime --no-reboot --append "root=/dev/hda rw console=ttyS0 debug"

- go to # directory and...

scp the sbd.ko module file into the VM:

scp hoffera@os-class.engr.oregonstate.edu:/scratch/spring2017/10-04/linux-yocto-3.14/drivers/block/sbd.ko /home/root

scp –r [hoffera@os-class.engr.oregonstate.edu:/scratch/spring2017/10-04/linux-yocto-3.14/drivers/block/testA3](mailto:hoffera@os-class.engr.oregonstate.edu:/scratch/spring2017/10-04/linux-yocto-3.14/drivers/block/testA3) /home/root

- Insert module into kernel:

insmod sbd.ko cryptoKey=”group1004" keyLength=9

- Create partitioning of disk

fdisk /dev/sbd0

n

p

1

Enter

Enter

Type p to show that its partitioned, should be /dev/sbd0p1

w to save and exit

- Make file system

mkfs.ext2 /dev/sbd0p1

- Mount

mount /dev/sbd0p1 testA3