

Burak Yesil

"I pledge my honor that I have abided by the Stevens Honor System."

Screenshot 5.1:

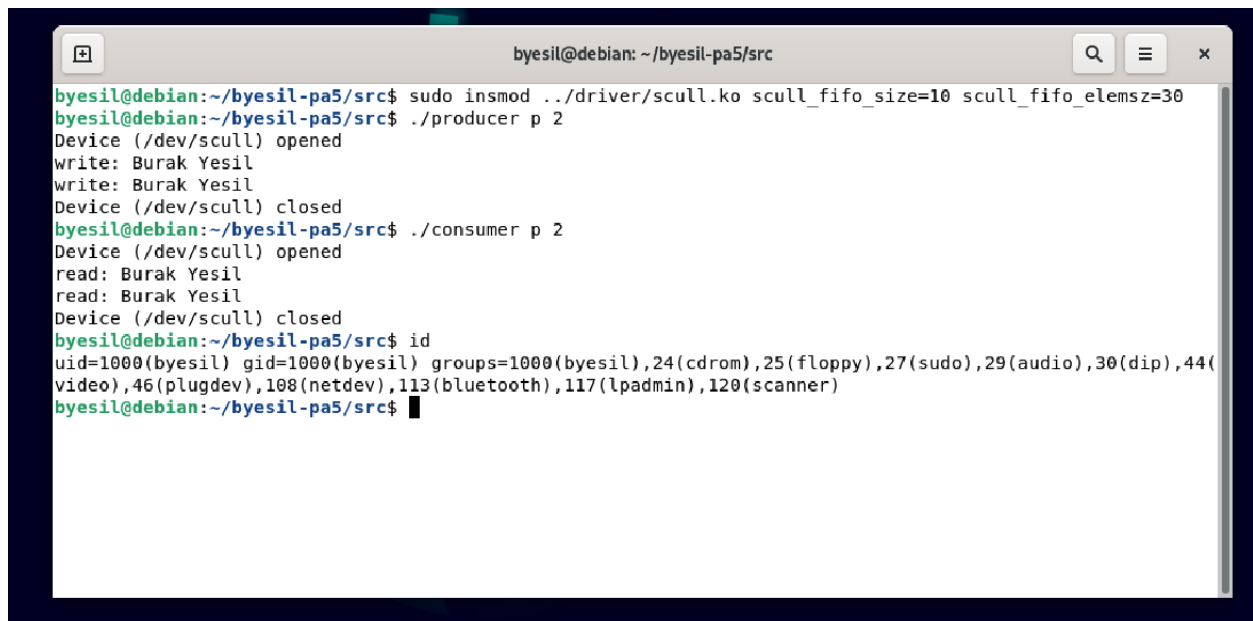
In the following screenshot the `scull_fifo_size` is 10, `scull_fifo_elemsz` is 3 and the total number of producers and consumers is 2 each.



```
byesil@debian: ~/byesil-pa5/src
byesil@debian:~/byesil-pa5/src$ sudo insmod ../driver/scull.ko scull_fifo_size=10 scull_fifo_elemsz=3
byesil@debian:~/byesil-pa5/src$ ./producer p 2
Device (/dev/scull) opened
write: Burak Yesil
write: Burak Yesil
Device (/dev/scull) closed
byesil@debian:~/byesil-pa5/src$ ./consumer p 2
Device (/dev/scull) opened
read: Bur
read: Bur
Device (/dev/scull) closed
byesil@debian:~/byesil-pa5/src$ id
uid=1000(byesil) gid=1000(byesil) groups=1000(byesil),24(cdrom),25(floppy),27(sudo),29(audio),30(dip),44(video),46(plugdev),108(netdev),113(bluetooth),117(lpadmin),120(scanner)
byesil@debian:~/byesil-pa5/src$
```

Screenshot 5.2:

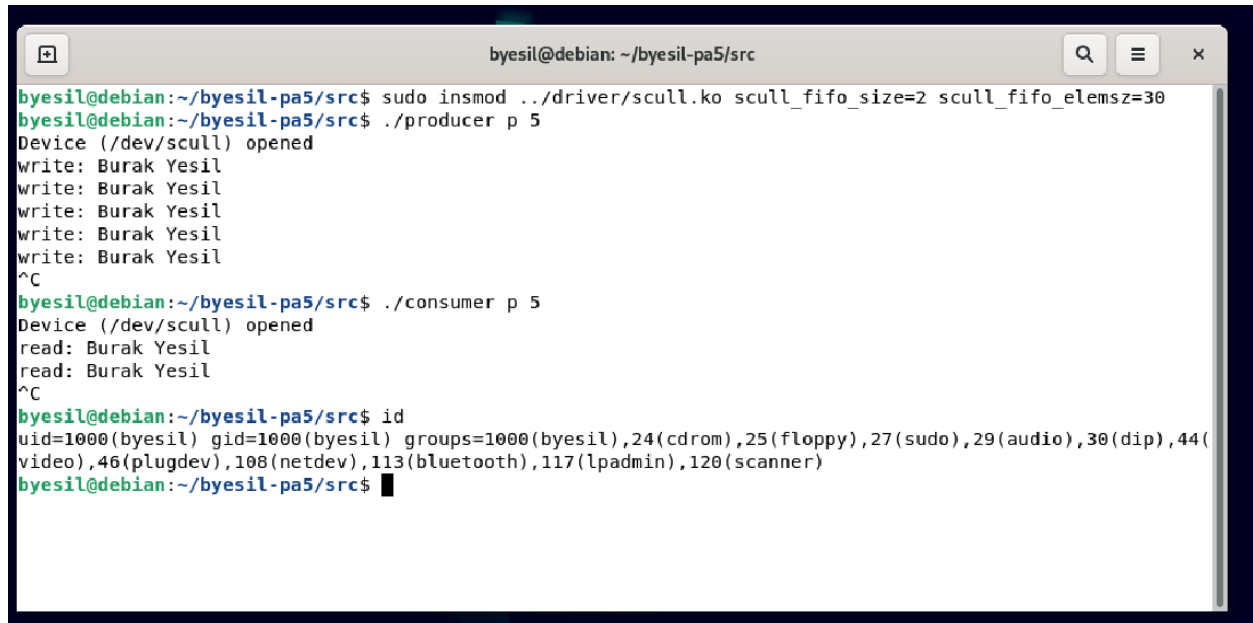
In the following screenshot the `scull_fifo_size` is 10, `scull_fifo_elemsz` is 30 and the total number of producers and consumers is 2 each.



```
byesil@debian: ~/byesil-pa5/src
byesil@debian:~/byesil-pa5/src$ sudo insmod ../driver/scull.ko scull_fifo_size=10 scull_fifo_elemsz=30
byesil@debian:~/byesil-pa5/src$ ./producer p 2
Device (/dev/scull) opened
write: Burak Yesil
write: Burak Yesil
Device (/dev/scull) closed
byesil@debian:~/byesil-pa5/src$ ./consumer p 2
Device (/dev/scull) opened
read: Burak Yesil
read: Burak Yesil
Device (/dev/scull) closed
byesil@debian:~/byesil-pa5/src$ id
uid=1000(byesil) gid=1000(byesil) groups=1000(byesil),24(cdrom),25(floppy),27(sudo),29(audio),30(dip),44(video),46(plugdev),108(netdev),113(bluetooth),117(lpadmin),120(scanner)
byesil@debian:~/byesil-pa5/src$
```

Screenshot 5.3:

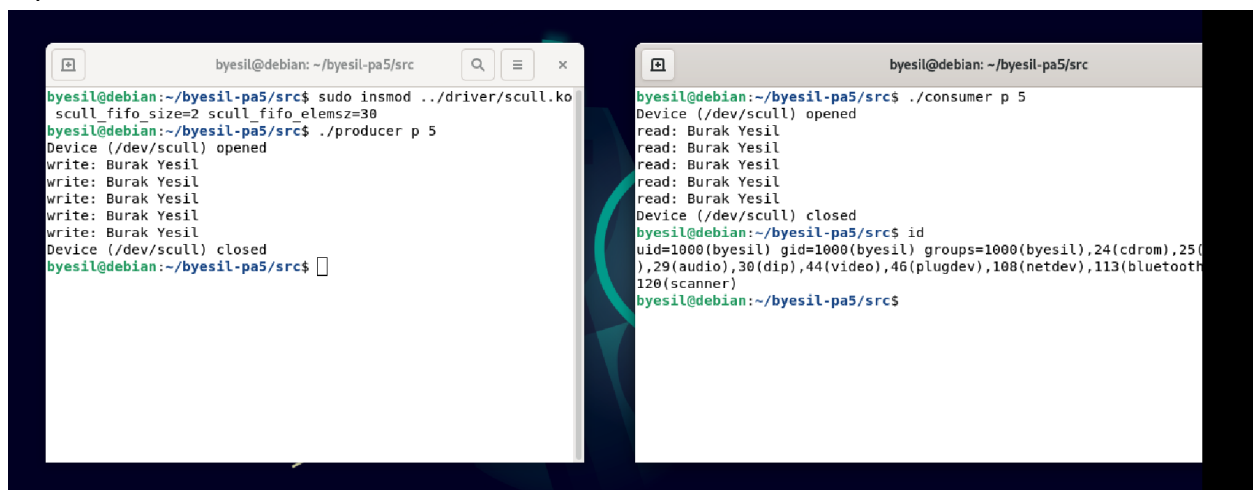
In the following screenshot the `scull_fifo_size` is 10, `scull_fifo_elemsz` is 30 and the total number of producers and consumers is 5 each. As you can see the producer and consumer are both blocking and waiting for each other. This means we need to call them in two separate terminal windows which we do in 5.4.



```
byesil@debian: ~/byesil-pa5/src
byesil@debian:~/byesil-pa5/src$ sudo insmod ../driver/scull.ko scull_fifo_size=2 scull_fifo_elemsz=30
byesil@debian:~/byesil-pa5/src$ ./producer p 5
Device (/dev/scull) opened
write: Burak Yesil
write: Burak Yesil
write: Burak Yesil
write: Burak Yesil
write: Burak Yesil
^C
byesil@debian:~/byesil-pa5/src$ ./consumer p 5
Device (/dev/scull) opened
read: Burak Yesil
read: Burak Yesil
^C
byesil@debian:~/byesil-pa5/src$ id
uid=1000(byesil) gid=1000(byesil) groups=1000(byesil),24(cdrom),25(floppy),27(sudo),29(audio),30(dip),44(video),46(plugdev),108(netdev),113(bluetooth),117(lpadmin),120(scanner)
byesil@debian:~/byesil-pa5/src$
```

Screenshot 5.4:

In the following screenshot the `scull_fifo_size` is 10, `scull_fifo_elemsz` is 30 and the total number of producers and consumers is 5 each. Since we call the producer and consumer processes in separate terminal windows we don't block forever.



```
byesil@debian: ~/byesil-pa5/src
byesil@debian:~/byesil-pa5/src$ sudo insmod ../driver/scull.ko scull_fifo_size=2 scull_fifo_elemsz=30
byesil@debian:~/byesil-pa5/src$ ./producer p 5
Device (/dev/scull) opened
write: Burak Yesil
write: Burak Yesil
write: Burak Yesil
write: Burak Yesil
write: Burak Yesil
Device (/dev/scull) closed
byesil@debian:~/byesil-pa5/src$

byesil@debian: ~/byesil-pa5/src
byesil@debian:~/byesil-pa5/src$ ./consumer p 5
Device (/dev/scull) opened
read: Burak Yesil
read: Burak Yesil
read: Burak Yesil
read: Burak Yesil
read: Burak Yesil
Device (/dev/scull) closed
byesil@debian:~/byesil-pa5/src$ id
uid=1000(byesil) gid=1000(byesil) groups=1000(byesil),24(cdrom),25(floppy),27(sudo),29(audio),30(dip),44(video),46(plugdev),108(netdev),113(bluetooth),117(lpadmin),120(scanner)
byesil@debian:~/byesil-pa5/src$
```