

Testing the **asgn2** Character Device Driver

1. Compile the Driver and Utilities:

```
$ make clean  
$ make
```

This creates **asgn2.ko** and **data_generator**.

2. Load the Driver:

```
$ sudo insmod asgn2.ko
```

3. Verify Driver:

```
$ dmesg | tail  
$ ls -l /dev/asgn2
```

4. Test Files:

```
$ echo "Hello from session one." > file1.txt  
$ echo "This is the second session." > file2.txt
```

5. Test with Large file (Tasklet):

```
$ yes "This is a line of text for a large file." | head -n 1000000 >  
large_file.txt
```

6. Run the Data Generator:

```
$ sudo ./data_generator file1.txt file2.txt &  
$ sudo ./data_generator large_file.txt &
```

7. Read the Sessions:

```
$ sudo cat /dev/asgn2
```

8. Unload the Driver:

```
$ sudo rmmod asgn2
```