

testdrv loadable kernel module

testdrv driver is developed for demonstration of loadable kernel modules.

The module demonstrates possibilities of working with special character device files.

At initialization the module creates 4 special character files:

```
crw-rw-rw- 1 root root 505, 0 Dec  6 06:47 /dev/testdrv0
crw-rw-rw- 1 root root 505, 1 Dec  6 06:47 /dev/testdrv1
crw-rw-rw- 1 root root 505, 2 Dec  6 06:47 /dev/testdrv2
crw-rw-rw- 1 root root 505, 3 Dec  6 06:47 /dev/testdrv3
```

Each file represents one page of kernel allocated memory (4096 bytes).

Regular file operation possible on special character files supported by the module:

- **open**
- **close**
- **read**
- **write**
- **seek**

In addition **ioctl** and **mmap** are supported.

ioctl operations

TESTDRV_GET_DRIVER_VERSION	Obtain module's version
TESTDRV_ZERO_MEMORY	Fill kernel memory page by zeros
TESTDRV_FILL_MEMORY	Fill kernel memory page by given character