



**Sunbeam Institute of Information Technology
Pune and Karad**

Module - Embedded Operating System

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chmod command

Human readable format : rW- rW- r--

Numeric format (Octal) : 1 1 0 = 664

Permissions :

r - read

w - write

x - execute

+ : add

- : remove

levels :

u - user/owner

g - group

o - others

chmod ± rwx filename

e.g. chmod +x sample.txt

- execute permission will be added to all levels

chmod -r sample.txt

- read permission will be removed from all levels

chmod u/g/o ± r/w/x filename

e.g. chmod u+x sample.txt

- add execute permission to user

chmod g-rw sample.txt

- remove read & write permission of group

chmod mode filename

↑
numeric format

add execute to user & remove write of group

Existing mode : rW- rW- r--

110 110 100 (664)

111 100 100 (744)

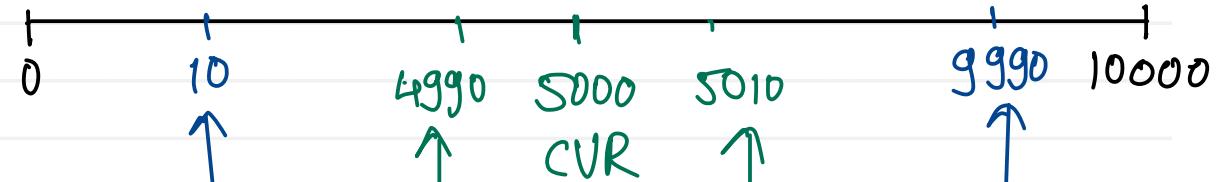
New mode : rwx r-- r--

e.g. chmod 744 sample.txt





`lseek(fd, +10, SEEK_SET)`



`lseek(fd, -10, SEEK_END)`

`lseek(fd, -10, SEEK_CUR)`

`lseek(fd, +10, SEEK_CUR)`

demo

```
i_no = g22
i_type = d
i_nlink = 2
```

```
:
.
one.txt g24
two.txt g24
three.txt g24
```

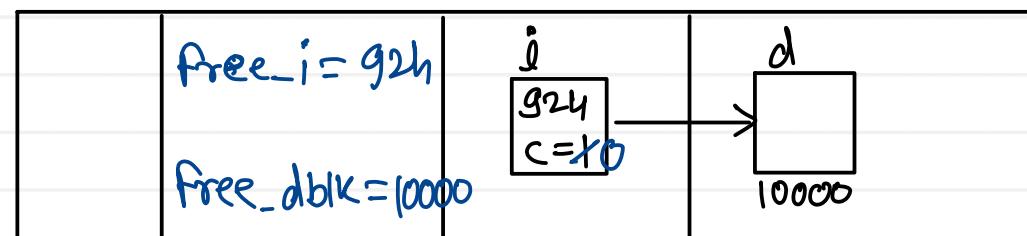
one.txt

```
i_no = g24
i_type = f
i_nlink = 123210
```

```
:
.
```

In one.txt two.txt
In one.txt three.txt

rm two.txt
rm three.txt
rm one.txt



demo

```
:
.
abc.txt g24
xyz.txt g24
```

abc.txt

```
no=g24
n.link=124
```

```
:
.
abc.txt g24
xyz.txt g24
```

rename

link(abc.txt , xyz.txt)
unlink(abc.txt)



Symbolic link

demo

i_no = 922
i_type = d
i_nlink = 2

..
one.txt 924
two.txt 925
three.txt 926

one.txt

i_no = 924
i_type = f
i_nlink = 1

==
--
--

two.txt

i_no = 925
i_type = f
i_nlink = 1

One.txt

ln -s one.txt two.txt

two.txt

ln -s /home/sunbeam/demo/one.txt

three.txt

i_no = 926
i_type = f
i_nlink = 1

/home/sunbeam/
demo/one.txt





Thank you!!!

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