



DEPARTMENT OF COMPUTING AND DESIGN

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Examples

- [WaterPokemon-f16.tgz](#)
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- [disk-full.txt](#)
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Last Updated 08/11/2021



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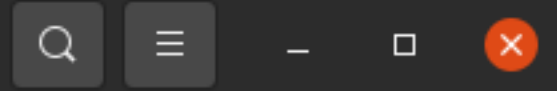
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Examples

- [WaterPokemon-f16.tgz](#)
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```
joe@fs:~$ wget http://cit.dixie.edu/it/3100/examples.examples/resource-hogs.tgz
```



```
joe@fs:~$ ls  
resource-hogs.tgz  
joe@fs:~$ tar -xvzf resource-hogs.tgz
```



```
joe@fs:~$ ls  
cpuhog  diskhog  fileiohog  inodehog  memhog  README.txt  resource-hogs.tgz  
joe@fs:~$ sudo mv *hog /usr/local/bin/
```

usage: ./memhog -m mega_bytes_to_consume

The program will allocate memory at 10 MB per second until the limit is reached. It will keep touching memory to keep it in physical RAM if possible.

diskhog: Uses up disk space by writing as many 1 GByte files as possible.

usage: ./diskhog [-f name]

-f name : base of filenames

-h : display this message

inodehog: Uses I-nodes on filesystem

usage: ./inodehog -n name -s size -c files_per_dir

name is the base name for files and directories

size is the file size created

files_per_dir is the number of files per directory

The program will create a directory, fill it with files, then create another directory, fill it with files, and repeat until no more files or directories may be created.

fileiohog: Exercises the I/O system for file input and/or output.

usage: ./fileiohog -rwh [-c count] [-s size]

-c num : do num repetitions (0 == infinite, default)

:

```
joe@fs:~$ ls
```

```
README.txt  resource-hogs.tgz
```

```
joe@fs:~$ df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
udev	972740	0	972740	0%	/dev
tmpfs	203540	1048	202492	1%	/run
/dev/sda2	6127168	2692752	3103460	47%	/
tmpfs	1017692	0	1017692	0%	/sys/fs/cgroup
tmpfs	203536	0	203536	0%	/run/user/1000
/dev/sda4	95088	72	87848	1%	/class/linuxmount
/dev/sda5	102182	0	102182	0%	/class/vfatmount
/dev/sda6	102396	2500	99896	3%	/class/ntfsmount

```
joe@fs:~$ cd /class/linuxmount/
```

```
joe@fs:/class/linuxmount$
```



```
joe@fs:/class/linuxmount$ ls
```

```
lost+found  newfile.txt
```

```
joe@fs:/class/linuxmount$ sudo diskhog
```

```
0000 - .Error in write.joe@fs:/class/linuxmount$
```

```
joe@fs:/class/linuxmount$ echo "It is supposed to do that"
```

```
It is supposed to do that
```

```
joe@fs:/class/linuxmount$ █
```



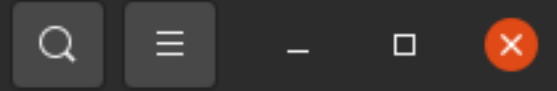
```
joe@fs:/class/linuxmount$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
udev	950M	0	950M	0%	/dev
tmpfs	199M	1.1M	198M	1%	/run
/dev/sda2	5.9G	2.6G	3.0G	47%	/
tmpfs	994M	0	994M	0%	/sys/fs/cgroup
tmpfs	199M	0	199M	0%	/run/user/1000
/dev/sda4	93M	91M	0	100%	/class/linuxmount
/dev/sda5	100M	0	100M	0%	/class/vfatmount
/dev/sda6	100M	2.5M	98M	3%	/class/ntfsmount

```
joe@fs:/class/linuxmount$ echo "It used up 100% of my blocks"
```

```
It used up 100% of my blocks
```

```
joe@fs:/class/linuxmount$ █
```



```
joe@fs:/class/ntfsmount$ sudo inodehog
Failed to fclose hog-00018/hog-00722.
fclose failed:: No space left on device
Created 19 directories and 19155 files.
joe@fs:/class/ntfsmount$ echo "That is how it works"
That is how it works
joe@fs:/class/ntfsmount$ █
```

```
joe@fs:/class/ntfsmount$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
udev	950M	0	950M	0%	/dev
tmpfs	199M	1.1M	198M	1%	/run
/dev/sda2	5.9G	2.6G	3.0G	47%	/
tmpfs	994M	0	994M	0%	/sys/fs/cgroup
tmpfs	199M	0	199M	0%	/run/user/1000
/dev/sda4	93M	91M	0	100%	/class/linuxmount
/dev/sda5	100M	0	100M	0%	/class/vfatmount
/dev/sda6	100M	100M	0	100%	/class/ntfsmount

```
joe@fs:/class/ntfsmount$ df -i
```

Filesystem	Inodes	IUsed	IFree	IUse%	Mounted on
udev	243185	481	242704	1%	/dev
tmpfs	254423	704	253719	1%	/run
/dev/sda2	393216	80154	313062	21%	/
tmpfs	254423	18	254405	1%	/sys/fs/cgroup
tmpfs	254423	22	254401	1%	/run/user/1000
/dev/sda4	25600	13	25587	1%	/class/linuxmount
/dev/sda5	0	0	0	-	/class/vfatmount
/dev/sda6	32768	13	32755	1%	/class/ntfsmount

```
joe@fs:/class/ntfsmount$
```



```
joe@fs:/class/ntfsmount$ ls
hog-00000  hog-00003  hog-00006  hog-00009  hog-00012  hog-00015  hog-00018
hog-00001  hog-00004  hog-00007  hog-00010  hog-00013  hog-00016
hog-00002  hog-00005  hog-00008  hog-00011  hog-00014  hog-00017
joe@fs:/class/ntfsmount$ sudo rm -rf *
joe@fs:/class/ntfsmount$ ls
joe@fs:/class/ntfsmount$
```