Examples

- WaterPokemon-f16.tgz
- WaterPokemon-s19.tgz
- disk-full.txt
- resource-hogs.tgz

Last Updated 08/11/2021

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Examples

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- disk-full.txt
- resource-hogs.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 -rwfh [-c count] [-s size]
  -c num : do num repetitions (0 == infinite, default)
```
ls
README.txt  resource-hogs.tgz

def
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

cd /class/linuxmount/
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$
```
<table>
<thead>
<tr>
<th>Filesystem</th>
<th>Size</th>
<th>Used</th>
<th>Avail</th>
<th>Use%</th>
<th>Mounted on</th>
</tr>
</thead>
<tbody>
<tr>
<td>udev</td>
<td>950M</td>
<td>0</td>
<td>950M</td>
<td>0%</td>
<td>/dev</td>
</tr>
<tr>
<td>tmpfs</td>
<td>199M</td>
<td>1.1M</td>
<td>198M</td>
<td>1%</td>
<td>/run</td>
</tr>
<tr>
<td>/dev/sda2</td>
<td>5.9G</td>
<td>2.6G</td>
<td>3.0G</td>
<td>47%</td>
<td>/</td>
</tr>
<tr>
<td>tmpfs</td>
<td>994M</td>
<td>0</td>
<td>994M</td>
<td>0%</td>
<td>/sys/fs/cgroup</td>
</tr>
<tr>
<td>tmpfs</td>
<td>199M</td>
<td>0</td>
<td>199M</td>
<td>0%</td>
<td>/run/user/1000</td>
</tr>
<tr>
<td>/dev/sda4</td>
<td>93M</td>
<td>91M</td>
<td>0</td>
<td>100%</td>
<td>/class/linuxmount</td>
</tr>
<tr>
<td>/dev/sda5</td>
<td>100M</td>
<td>0</td>
<td>100M</td>
<td>0%</td>
<td>/class/vfatmount</td>
</tr>
<tr>
<td>/dev/sda6</td>
<td>100M</td>
<td>2.5M</td>
<td>97.5M</td>
<td>3%</td>
<td>/class/ntfsmount</td>
</tr>
</tbody>
</table>
```

```
It used up 100% of my blocks
```
Failed to fclose hog-00018/hog-00722.
fclose failed: No space left on device
Created 19 directories and 19155 files.

That is how it works
```
<table>
<thead>
<tr>
<th>Filesystem</th>
<th>Size</th>
<th>Used</th>
<th>Avail</th>
<th>Use%</th>
<th>Mounted on</th>
</tr>
</thead>
<tbody>
<tr>
<td>udev</td>
<td>950M</td>
<td>0</td>
<td>950M</td>
<td>0%</td>
<td>/dev</td>
</tr>
<tr>
<td>tmpfs</td>
<td>199M</td>
<td>1.1M</td>
<td>198M</td>
<td>1%</td>
<td>/run</td>
</tr>
<tr>
<td>/dev/sda2</td>
<td>5.9G</td>
<td>2.6G</td>
<td>3.0G</td>
<td>47%</td>
<td>/</td>
</tr>
<tr>
<td>tmpfs</td>
<td>994M</td>
<td>0</td>
<td>994M</td>
<td>0%</td>
<td>/sys/fs/cgroup</td>
</tr>
<tr>
<td>tmpfs</td>
<td>199M</td>
<td>0</td>
<td>199M</td>
<td>0%</td>
<td>/run/user/1000</td>
</tr>
<tr>
<td>/dev/sda4</td>
<td>93M</td>
<td>91M</td>
<td>0</td>
<td>100%</td>
<td>/class/linuxmount</td>
</tr>
<tr>
<td>/dev/sda5</td>
<td>100M</td>
<td>0</td>
<td>100M</td>
<td>0%</td>
<td>/class/vfatmount</td>
</tr>
<tr>
<td>/dev/sda6</td>
<td>100M</td>
<td>100M</td>
<td>0</td>
<td>100%</td>
<td>/class/ntfsmount</td>
</tr>
</tbody>
</table>
```

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