

Answer:

df

1K-blocks	Used	Available	Use%	Mounted on
10474496	5192384	5282112	50%	/
131931592	0	131931592	0%	/dev
131931592	0	131931592	0%	/sys/fs/cgroup
30695792	26875756	3820036	88%	/etc/hosts
65536	0	65536	0%	/dev/shm

The values of used is 5192384 and available is 5282112. Sum of both the values will be 10474496. Hence it is equal

If the,

df -i is executed then the blocks size are given below

Inodes	IUsed	IFree	IUse%	Mounted on
10484736	170524	10314212	2%	/
32982898	17	32982881	1%	/dev
32982898	13	32982885	1%	/sys/fs/cgroup
15434064	134105	15299959	1%	/etc/hosts
32982898	1	32982897	1%	/dev/shm

Creating file README.txt

ls

README.txt

df

1K-blocks	Used	Available	Use%	Mounted on
10474496	5192344	5282152	50%	/
131931592	0	131931592	0%	/dev
131931592	0	131931592	0%	/sys/fs/cgroup
30695792	26876232	3819560	88%	/etc/hosts
65536	0	65536	0%	/dev/shm

After the file creation the used can be changed to 5192344 and the available value is 5282152.

Again the df -i command is executed

Inodes	IUsed	IFree	IUse%	Mounted on
10484736	170524	10314212	2%	/
32982898	17	32982881	1%	/dev
32982898	13	32982885	1%	/sys/fs/cgroup
15429584	134421	15295163	1%	/etc/hosts
32982898	1	32982897	1%	/dev/shm

Increasing the file size:

```
bash-4.3$ truncate -s 5000M README.txt
bash-4.3$ df
```

File size has been increased now the df command is used

df

The changes are highlighted.

1K-blocks	Used	Available	Use%	Mounted on
10474496	5192344	5282152	50%	/
131931592	0	131931592	0%	/dev
131931592	0	131931592	0%	/sys/fs/cgroup
30695792	26879816	3815976	88%	/etc/hosts
65536	0	65536	0%	/dev/shm

`df -i`

Inodes	IUsed	IFree	IUse%	Mounted on
10484736	170524	10314212	2%	/
32982898	17	32982881	1%	/dev
32982898	13	32982885	1%	/sys/fs/cgroup
15455008	132851	15322157	1%	/etc/hosts
32982898	1	32982897	1%	/dev/shm

The change of the file size impacts the changes of values in the result