

Linux

가

vfs_cache_pressure

? (Page Cache)

.....

Slab

.....

vfs_cache_pressure

.....

가

.....

Linux

vfs_cache_pressure

가

? (Page Cache)

Linux I/O

Page Cache

Linux

Page Cache

가 I/O

Page

Page Cache

Cached

Page Cache

/proc/meminfo

Linux

Linux Free

가

?

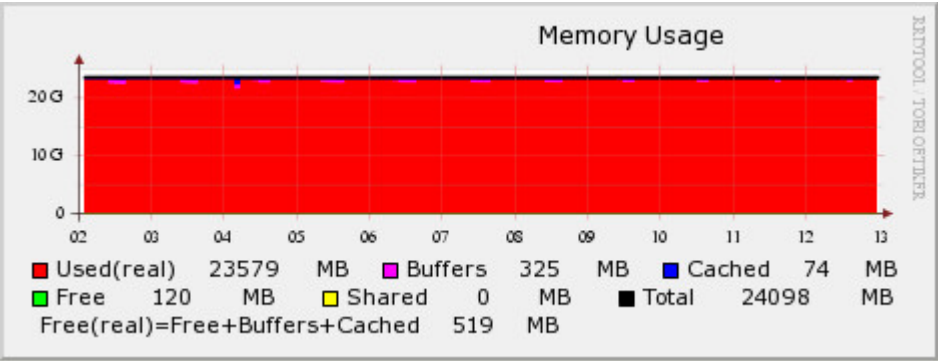
Page Cache

RRDTool

가

24GB

15GB



가

가 Page Cache

Page Cache

Cached ()

?

Slab

Slab Allocator

4KB

가 Page

Linux

Slab

/proc/meminfo

Linux

Slab: 349364 kB

Linux (inode, task ,) Slab meminfo Slab inode dentry . inode dentry . VFS(Virtual File System) . inode dentry . Slab inode dentry 가 () . Slab 가 9GB . . . ? . 가 . 가 Linux 가 inode dentry . , / (, / I/O) . Linux Slab inode (ext3 ext4_inode_cache slabtop) dentry_cache . Slab .

vfs_cache_pressure

Linux vm inode vfs_cache_pressure (reclaim) . . 100. 0 Linux Out of Memory . (!!)

가 , 100 Linux 가 (inode dentry 가 .)

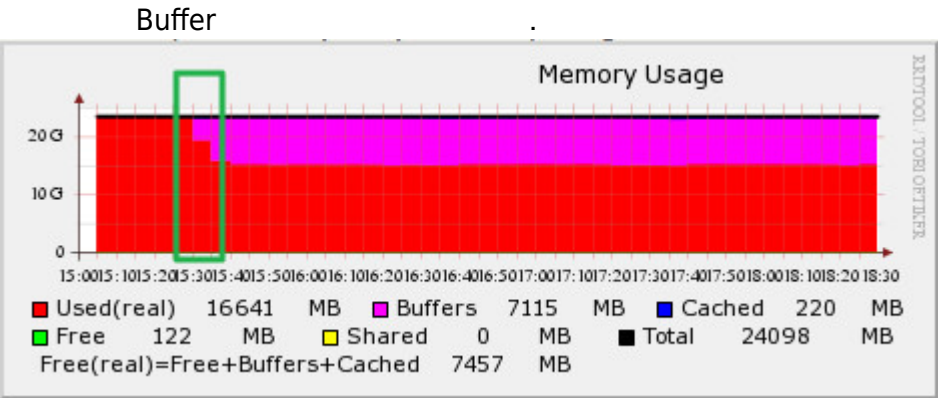
vfs_cache_pressure Linux . 100
10000 (,
가) .
.()

```
echo 10000 > /proc/sys/vm/vfs_cache_pressure
$ sysctl vm.vfs_cache_pressure=10000
```

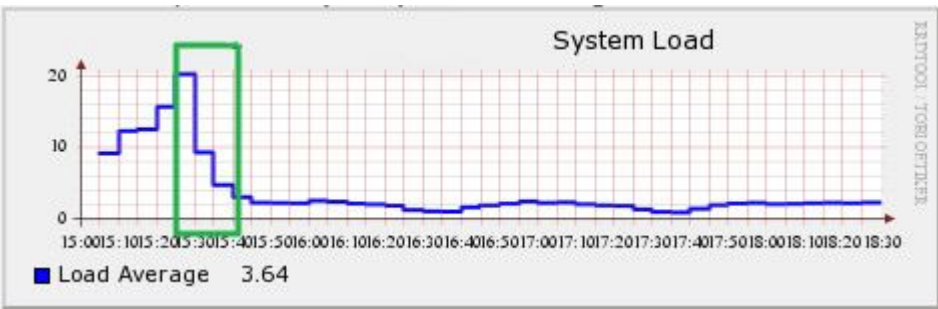
/etc/sysctl.conf 가

```
vm.vfs_cache_pressure = 10000
```

. 9GB Real



Buffer (Load)



Load : non-interruptible
가 .

Linux

가

. ()

가

vfs_cache_pressure

Linux

VFS

.

```
echo 1 > /proc/sys/vm/drop_caches
echo 2 > /proc/sys/vm/drop_caches
echo 3 > /proc/sys/vm/drop_caches
```

가

.



:

sync

.

- drop_caches = 1

Page cache .

- drop_caches = 2

inode, dentry cache .

- drop_caches = 3

Page cache, inode cache, dentry cache .

, 3) . (

- <http://tumblr.lunatine.net/post/28546340998/faq-linux-vfs-cache-pressure>

From:
<https://atl.kr/dokuwiki/> - AllThatLinux!

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