

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 ?

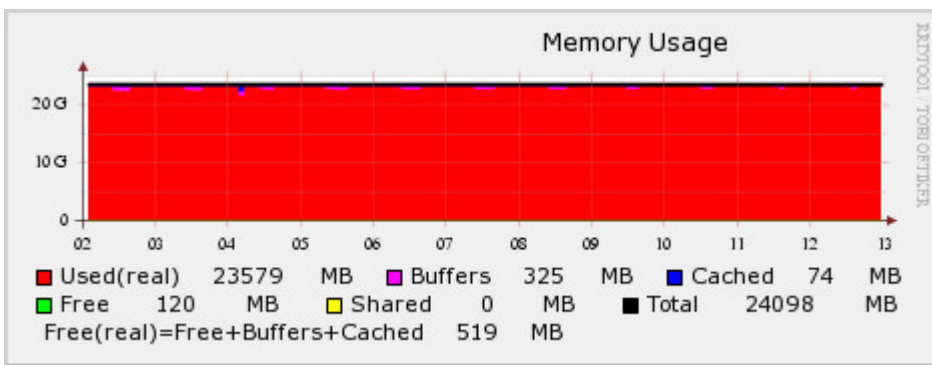
Page Cache

RRDTool

. 24GB

15GB

가



가

?
가 Page Cache

Page Cache

Cached ()

?

Slab

Slab Allocator

4KB

가 Page

Slab

/proc/meminfo

Linux

. Linux

Slab: 349364 kB

Linux

(inode, task meminfo Slab) Slab

dentry dentry . VFS(Virtual File System) . inode dentry . inode

Slab 가 inode dentry

/proc/meminfo Slab () . Slab 가 9GB Slab

?

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
 가 Linux) inode dentry (가

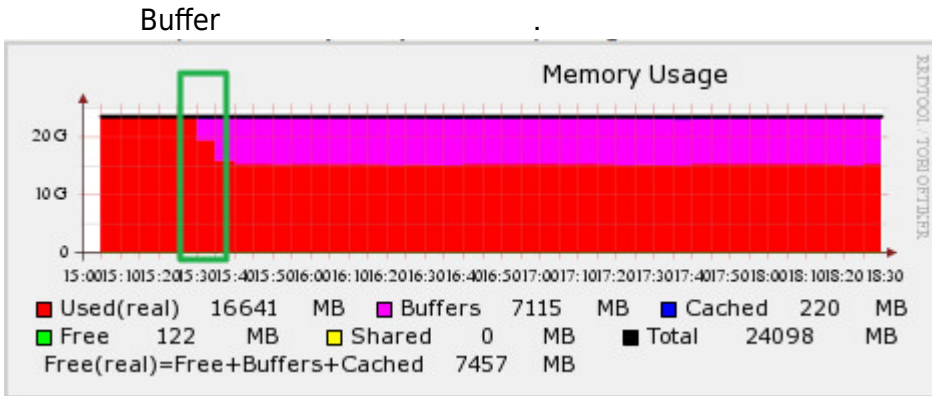
vfs_cache_pressure Linux . 100
 10000 (,
 가)
 . ()

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

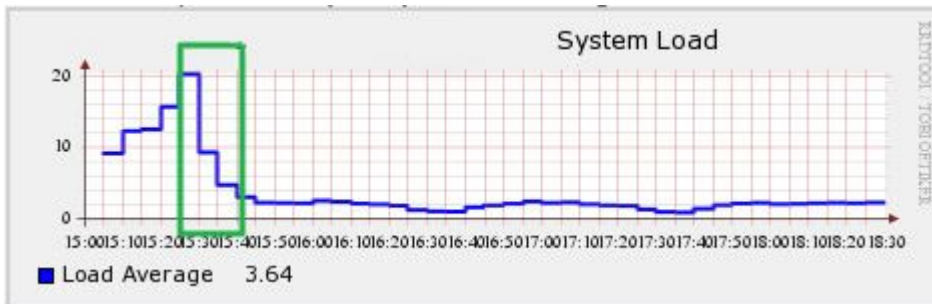
/etc/sysctl.conf 가

```
vm.vfs_cache_pressure = 10000
```

. 9GB Real



Buffer (Load)



Load : 가 non-interruptible

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

)

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

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