

Linux	<i>vfs_cache_pressure</i>	3
가	? (Page Cache)	3
	3
	4
	<i>vfs_cache_pressure</i>	4
	5
가	6
	6

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

Page Cache

Linux Free

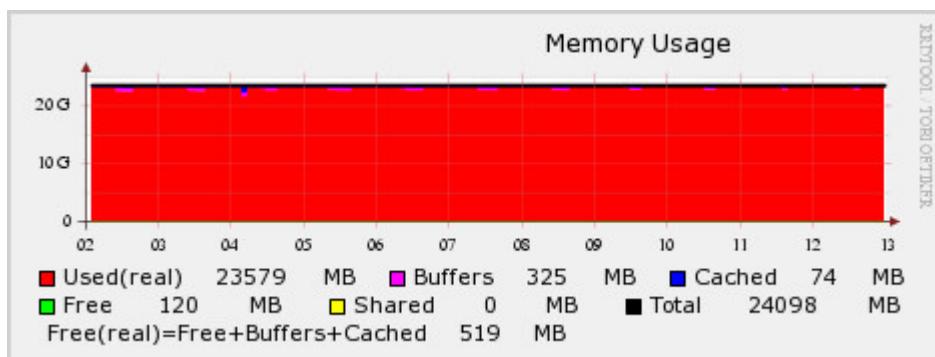
가

?'

RRDTool

. 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)
 dentry

 inode dentry
Slab 가

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

?

가
가

Linux . 가
dentry , , /
) (, /
I/O

Linux Slab inode (ext3 ext4_inode_cache slabtop
Slab) dentry_cache

Slab

vfs_cache_pressure

Linux vm vfs_cache_pressure
inode (reclaim)
100.

0 Linux Out of Memory (!!)

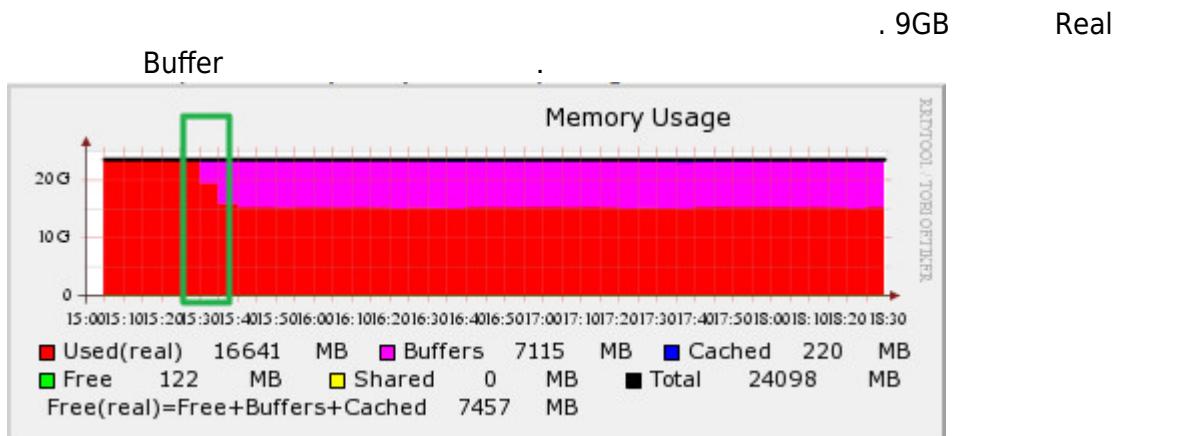
, 100
가 Linux) 가
inode dentry (가

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

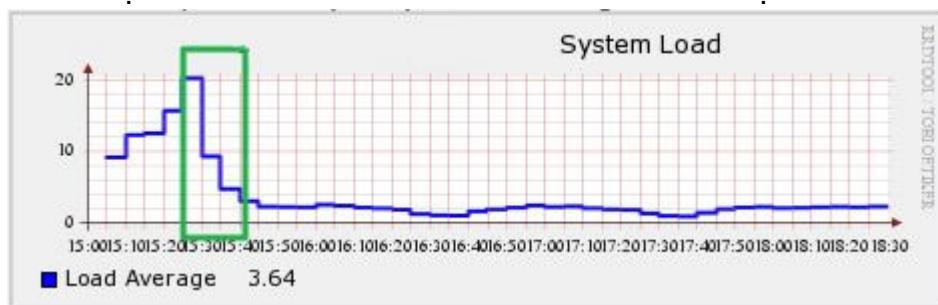
```
echo 10000 > /proc/sys/vm/vfs_cache_pressure
$ sysctl vm.vfs_cache_pressure=10000
```

/etc/sysctl.conf 가

```
vm.vfs_cache_pressure = 10000
```



, Buffer (Load)



Load : non-interruptible
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>

