

<b>Linux</b>	<b>vfs_cache_pressure</b>	3
<b>가</b>	<b>? (Page Cache)</b>	3
		3
<b>Slab</b>		3
		4
	<b>vfs_cache_pressure</b>	4
		5
<b>가</b>		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

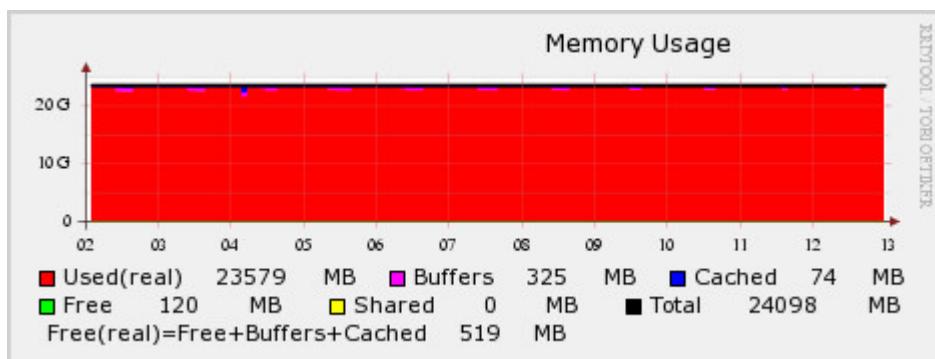
가

?'

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

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

Slab 가 . inode dentry

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

가  
가

Linux . 가  
dentry , /  
) ( , /  
I/O

Linux Slab inode (ext3 ext4\_inode\_cache slabtop  
) dentry\_cache

Slab

## **vfs\_cache\_pressure**

Linux vm vfs\_cache\_pressure  
inode (reclaim)  
100.

0 Linux Out of Memory ( !!)

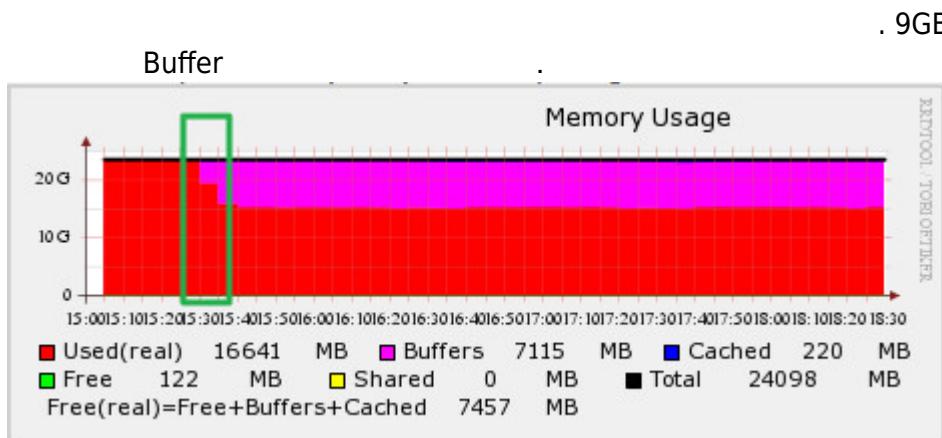
, 100  
가 Linux ) 가 inode dentry ( 가

vfs\_cache\_pressure Linux . 100  
10000 ) ( ,  
가 . ( )

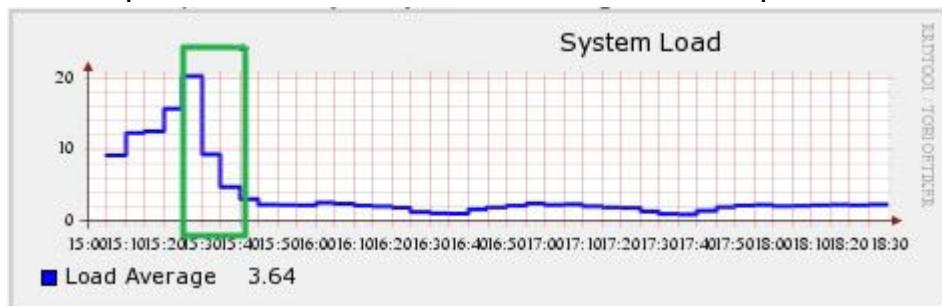
```
echo 10000 > /proc/sys/vm/vfs_cache_pressure
$ sysctl vm.vfs_cache_pressure=10000
```

/etc/sysctl.conf 가

```
vm.vfs_cache_pressure = 10000
```



, Buffer (Load )



Load : non-interruptible  
가

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>

