

# What is using the memory

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Running RHEL4

We are using weblogic which has three java processes. The sum of the percentage memory used of these processes is about 42% .

```
ps -aux | grep java | gawk '{ print $11, $4}'  
/opt/od-home/OpenDeployNG/jre/bin/java 0.3  
/opt/java/liveJava/bin/java 24.2  
/opt/java/liveJava/bin/java 18.1
```

If I do `ps -aux` and add up all the %cpu columns it totals about 45%. Yet when I look at `sar -r`

```
sar -r | gawk '{ print $1, $2, $5}' | head  
12:00:01 AM %memused  
12:10:01 AM 99.76  
12:20:01 AM 99.72
```

It seems to think the memory is 99% used. But I can't see any other processes in the process table using any significant memory.

Here is the contents of `/proc/meminfo` . I don't fully understand what all the entries mean.

```
[root@web1]# cat /proc/meminfo  
MemTotal: 8164748 kB  
MemFree: 164748 kB  
Buffers: 108356 kB  
Cached: 478412 kB  
SwapCached: 38628 kB  
Active: 3690740 kB  
Inactive: 409064 kB  
HighTotal: 0 kB  
HighFree: 0 kB  
LowTotal: 8164748 kB  
LowFree: 164748 kB  
SwapTotal: 16779884 kB  
SwapFree: 16643592 kB
```

## What is using the memory

Dirty: 2508 kB  
Writeback: 0 kB  
Mapped: 3529560 kB  
Slab: 185824 kB  
CommitLimit: 20862256 kB  
Committed\_AS: 7658544 kB  
PageTables: 13484 kB  
VmallocTotal: 536870911 kB  
VmallocUsed: 271300 kB  
VmallocChunk: 536599035 kB  
HugePages\_Total: 0  
HugePages\_Free: 0  
Hugepagesize: 2048 kB  
[root@weblogic1]/etc#

Our customer is asking us to explain what is using the memory and we have no answer.

George

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