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Subject: Calculating VE CPU Usage  
Posted by [XOUS](#) on Thu, 24 Dec 2009 20:53:51 GMT  
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How should I be calculating per VE CPU usage

I'm reading the values from /proc/vz/vestat

idle\_c is the change in number of idle cycles  
user\_j, nice\_j, system\_j is the change in usage in jiffies

```
$cpu_usage = 100 - (idle_c / (user_j + nice_j + system_j + idle_c) * 100);
```

To me the above seems incorrect because I'm mixing cycles and jiffies.

I've found the following definitions of jiffies and cycles

```
$seconds = $jiffies / $CONFIG_HZ;  
$seconds = $cycles / $CPU_FREQ;
```

So I should be able rework this to:

```
$jiffies = $cycles / $CPU_FREQ * $CONFIG_HZ;
```

My code becomes:

```
$idle_j = $idle_c / $CPU_FREQ * $CONFIG_HZ;  
$cpu_usage = 100 - (idle_j / (user_j + nice_j + system_j + idle_j) * 100);
```

Am I completely off base?

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