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?