
Subject: Calculating VE CPU Usage

Posted by [xous](#) on Thu, 24 Dec 2009 20:53:51 GMT

[View Forum Message](#) <> [Reply to Message](#)

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

$$\text{\$cpu_usage} = 100 - (\text{idle_c} / (\text{user_j} + \text{nice_j} + \text{system_j} + \text{idle_c}) * 100);$$

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

I've found the following definitions of jiffies and cycles

$$\text{\$seconds} = \text{\$jiffies} / \text{\$CONFIG_HZ};$$
$$\text{\$seconds} = \text{\$cycles} / \text{\$CPU_FREQ};$$

So I should be able rework this to:

$$\text{\$jiffies} = \text{\$cycles} / \text{\$CPU_FREQ} * \text{\$CONFIG_HZ};$$

My code becomes:

$$\text{\$idle_j} = \text{\$idle_c} / \text{\$CPU_FREQ} * \text{\$CONFIG_HZ};$$
$$\text{\$cpu_usage} = 100 - (\text{idle_j} / (\text{user_j} + \text{nice_j} + \text{system_j} + \text{idle_j}) * 100);$$

Am I completely off base?
