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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

$$\text{\$cpu\_usage} = 100 - (\text{idle\_c} / (\text{user\_j} + \text{nice\_j} + \text{system\_j} + \text{idle\_c}) * 100);$$

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?

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