Subject: Re: Scaling UBC values: Why?

Posted by maratrus on Fri, 04 Sep 2009 12:54:17 GMT

View Forum Message <> Reply to Message

Hi,

all UBC configuration parameters should obey the consistency rules which are described at the page

http://wiki.openvz.org/UBC_consistency_check

It's just a simple math exercise

For example

Let's assume that there are exist two configuration examples.

Each of them should obey the inequalities that are described in a page mentioned above i.e.

lf

```
privvmpages_3_bar = a_1*privvmpages_1_bar + a_2*privvmpages_2_bar vmguarpages_3_bar = <math>a_1*vmguarpages_1_bar + a_2*vmguarpages_2_bar a_1 + a_2 = 1, a_1 >= 0, a_2 >= 0
```

then the consistency rule is still being held

privvmpages_3_bar >= vmguarpages_3_bar

So, the third configuration which is obtained as

```
[THIRD_CONFIGURATION] = a_1*[FIRST_CONFIGURATION] + a_2*[SECOND_CONFIGURATION] a_1>=0, a_2>=0, a_1 + a_2 = 1
```

obey the consistency rule.

Consider another rule

So, the third configuration which is obtained as

should obtain this rule too

 $tcprcvbuf_3_bar = a_1*tcprcvbuf_1_bar + a_2*tcprcv)buf_2_bar >= a_1*64 + a_2*64 = 64*(a_1 + a_2) = 64$

because $a_1 + a_2 = 1$.

But subtraction doesn't guarantee that all rules are preserved. Example

5 > 3, 4 > 1 but (5 - 4) < (3 - 1) because 1 < 2