
Subject: Some good reasons for migrate from 32 bit to 64 bits

Posted by [Felix](#) on Fri, 23 Dec 2011 09:43:31 GMT

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Ok, there is probably some differences due to version of kernels:
The first (old) was a 2.6.26-686 (Debian Lenny) and the actual
is a 2.6.32-amd64.

There is a difference between the output of the command: `vzsplit -n 3` in the same host. but under
32bit
kernel than under 64bit kernel.

```
# Configuration file generated by vzsplit for 3 containers
-# on HN with total amount of physical mem 32456 Mb
-# low memory 589 Mb, swap size 40959 Mb, Max treads 8000
+# on HN with total amount of physical mem 32178 Mb
+# low memory 32178 Mb, swap size 40959 Mb, Max treads 16000
# Resource commit level 0:
```

In table format:

Name	barrier32->	barrier64 :	limit32->	limit64 :-	%barrier :	%limit
# Primary parameters						
NUMPROC	2666->	54916 :	2666->	54916 ^:^	+1959.86% :	+1959.86%
AVNUMPROC	503->	27458 :	503->	27458 ^:^	+5358.85% :	+5358.85%
NUMTCP SOCK	2666->	54916 :	2666->	54916 ^:^	+1959.86% :	+1959.86%
NUMOTHER SOCK	2666->	54916 :	2666->	54916 ^:^	+1959.86% :	+1959.86%
VMGUAR PAGES	4985269->	4942552 :	2147483647->	9223372036854775807 v:^	-0.86% :	+429496729700.00%
# Secondary parameters						
KMEM SIZE	41235251->	2249410696 :	45358776->	2474351765 ^:^	+5355.07% :	+5355.07%
TCPSN DBUF	2825147->	524867629 :	13745083->	749803565 ^:^	+18478.42% :	+5355.07%
TCPRC VBUF	2825147->	524867629 :	13745083->	749803565 ^:^	+18478.42% :	+5355.07%
OTHER SOCK BUF	1412573->	262433814 :	12332509->	487369750 ^:^	+18478.42% :	+3851.91%
DGRAMRC VBUF	1412573->	262433814 :	1412573->	262433814 ^:^	+18478.42% :	+18478.42%
OOMGUAR PAGES	4985269->	4942552 :	2147483647->	9223372036854775807 v:^	-0.86% :	+429496729700.00%
PRIVVMP PAGES	4985269->	4942552 :	5483795->	5436807 v:v	-0.86% :	

-0.86%

Auxiliary parameters

LOCKEDPAGES	2013->	109834 :	2013->	109834 ^:^	+5356.23% :	
						+5356.23%
SHMPAGES	498526->	494255 :	498526->	494255 v:v	-0.86% :	-0.86%
PHYSPAGES	0->	0 :	2147483647->	9223372036854775807 =:^	+0.00% :	
						+429496729700.00%
NUMFILE	16096->	878656 :	16096->	878656 ^:^	+5358.85% :	
						+5358.85%
NUMFLOCK	1000->	1000 :	1100->	1100 =:=	+0.00% :	+0.00%
NUMPTY	266->	512 :	266->	512 ^:^	+92.48% :	+92.48%
NUMSIGINFO	1024->	1024 :	1024->	1024 =:=	+0.00% :	+0.00%
DCACHESIZE	9001258->	491364908 :	9271296->	506105856 ^:^	+5358.85% :	
						+5358.85%
NUMIPTENT	200->	200 :	200->	200 =:=	+0.00% :	+0.00%
DISKSPACE	63657032->	254628130 :	70022736->	280090944 ^:^	+300.00% :	
						+300.00%
DISKINODES	16254656->	16254656 :	17880122->	17880122 =:=	+0.00% :	
						+0.00%
CPUUNITS	199518->	199468		v	-0.03%	

Curiously, some value are smaller than before...
less than one percent. I guess that's integer rounding
errors..

But at all, most of this values are much larger.