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Subject: UBC parameters for Oracle Server  
Posted by [lst\\_hoe01](#) on Fri, 23 Mar 2007 12:59:38 GMT  
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We have a central Linux server for some development related services in our department. One of it is a Oracle 10gR2 Database server with two instances. I have managed to get it working but the needed parameters look a little bit odd to me. Especially the privvmpages must be really high and seams to climb up over time??

Version: 2.5

uid resource	held	maxheld	barrier	limit	failcnt	
107001: kmemsize	16705667	24744140	25000000	32000000		0
lockedpages	0	8	32	32	0	
privvmpages	3961971	4256673	19000000	20000000		0
shmpages	131714	132690	256000	256000	0	
dummy	0	0	0	0	0	
numproc	123	462	1024	1024	0	
physpages	195320	220490	0	2147483647	0	
vmguarpages	0	0	256000	2147483647	0	
oomguarpages	209597	223636	256000	2147483647		0
numtcpsock	98	121	1024	1024	0	
numflock	49	53	100	110	0	
numpty	1	2	16	16	0	
numsiginfo	0	256	256	256	0	
tcpsndbuf	157784	406584	512000	2048000	0	
tcprcvbuf	2392	622184	512000	2048000	0	
othersockbuf	178964	512824	512000	2048000		0
dgramrcvbuf	0	8364	132096	512000	0	
numothersock	115	122	1024	1024	0	
dcachesize	0	0	1024000	2048000	0	
numfile	4091	8192	16384	16384	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
numiptent	10	10	128	128	0	

Is there any downside in setting privvmpages that large for a 4GB/Dual-Proc Maschine or should i simply let it that way?

Thanxs

Andreas

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Subject: Re: UBC parameters for Oracle Server  
Posted by [dev](#) on Fri, 23 Mar 2007 13:24:13 GMT

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There is nothing bad in such high privvmpages settings.

1. Oracle manages it's caches itself and creates lots of mappings, which is the first reason of high privvmpages usages.

2. also please check the output of the following:

```
# cat /proc/sys/kernel/exec-shield-randomize
```

```
# cat /proc/sys/kernel/randomize_va_space
```

RHEL kernels introduce randomization of virtual memory areas,

but due to some reason it uses much more addition virtual memory for this.

So you can disable it echoing '0' to one of these files.

Thanks,

Kirill

Ist\_hoe01@kwsoft.de wrote:

```
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> our department. One of it is a Oracle 10gR2 Database server with two
> instances. I have managed to get it working but the needed parameters
> look a little bit odd to me. Especially the privvmpages must be really
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```
> uid resource      held  maxheld  barrier  limit  failcnt
> 107001: kmemsize   16705667 24744140 25000000 32000000 0
>   lockedpages      0      8      32      32      0
>   privvmpages 3961971 4256673 19000000 20000000 0
>   shmpages 131714 132690 256000 256000 0
>   dummy          0      0      0      0      0
>   numproc       123     462    1024    1024      0
>   physpages 195320 220490 0 2147483647 0
>   vmguarpages      0      0 256000 2147483647 0
>   oomguarpages 209597 223636 256000 2147483647 0
>   numtcpsock      98     121    1024    1024      0
>   numflock       49      53     100     110      0
>   numpty         1       2      16      16      0
>   numsiginfo      0     256     256     256      0
>   tcpsndbuf 157784 406584 512000 2048000 0
>   tcprcvbuf 2392 622184 512000 2048000 0
>   othersockbuf 178964 512824 512000 2048000 0
>   dgramrcvbuf      0     8364 132096 512000 0
>   numothersock    115     122    1024    1024      0
>   dcachesize      0      0 1024000 2048000 0
>   numfile      4091    8192   16384   16384      0
>   dummy          0      0      0      0      0
>   dummy          0      0      0      0      0
>   dummy          0      0      0      0      0
>   numiptent      10     10     128     128      0
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