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Subject: More on memory limits

Posted by [weycresto](#) on Tue, 24 Jan 2006 23:35:35 GMT

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I'm trying to get to grips with memory limits reading the forums, OpenVZ and commercial VZ docs and getting slightly confused.

In an earlier thread (on setting memory limits) a user on here was trying to set 128MB with the following command:

```
vzctl set ID --vmguarpages=32768 --save
```

(this example slightly wrong because there is a barrier and upper limit) but the logic being that each integer equals 4 KB so the value above should equal 128 MB

However in hybodus config example (nicely commented btw) 128MB is represented by:

```
#128 MB RAM
VMGUARPAGES="6144:2147483647"
LOCKEDPAGES="32:32"
```

Also what is LOCKEDPAGES? Commercial VZ gives sample configs for 256, 512, 1024 and 2048MB VPS's as follows:

```
#256MB
VMGUARPAGES="33792:2147483647"
LOCKEDPAGES="256:256"
```

```
#512MB
VMGUARPAGES="67584:2147483647"
LOCKEDPAGES="512:512"
```

```
#1024MB
VMGUARPAGES="135168:2147483647"
LOCKEDPAGES="1024:1024"
```

```
#2048MB
VMGUARPAGES="270336:2147483647"
LOCKEDPAGES="2048:2048"
```

Can someone explain the relationship between LOCKEDPAGES and setting memory limits. I'm probably being dim, but I'm trying to eatblish the logic between various configs given.

