
Subject: max number of VE

Posted by [yahbluez](#) on Mon, 27 Aug 2007 21:01:58 GMT

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Hello Gents,

i'm new here and like to ask where are the limits of VEs on a host. I try to start 100 on an 16GB dual quad core Dell2950. I build the .conf with `vzsplit -n100` but i get at max 49 VEs running. I guess that `kmemsize` is my problem. How much `kemsize` is usefull for a verry small VE?

thx

yahbluez

Subject: Re: max number of VE

Posted by [kir](#) on Tue, 28 Aug 2007 00:05:55 GMT

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`vzsplit` is probably not working well enough in your case. Can you tell us what `vzmemcheck -v` shows?

I recommend to stick to shipped configs. I guess you can run a few thousand VEs on such a machine, using the default `ve-light.conf`.

Subject: Re: max number of VE

Posted by [yahbluez](#) on Tue, 28 Aug 2007 12:31:52 GMT

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Same Problem.

I put together all informations:

Dell PE2950, 16GB RAM, 750GB HD, dual E5310
Debian ETCH AMD64 (aka x86_64)

The VE OS is a minimal debian etch.
I try to run 100 instances.

The conf file:

```
# Primary parameters
AVNUMPROC="40:50"
NUMPROC="80:80"
NUMTCPSOCK="60:80"
NUMOTHERSOCK="60:80"
VMGUARPAGES="1725:9223372036854775807"
```

```
# Secondary parameters
KMEMSIZE="524288:589824"
TCPSNDBUF="32768:65536"
TCPRCVBUF="32768:65536"
OTHERSOCKBUF="32768:65536"
DGRAMRCVBUF="32768:32768"
OOMGUARPAGES="1725:9223372036854775807"
```

```
# Auxiliary parameters
LOCKEDPAGES="4:4"
SHMPAGES="1152:1152"
PRIVVMPAGES="20480:40960"
NUMFILE="512:512"
NUMFLOCK="50:60"
NUMPTY="4:4"
NUMSIGINFO="256:256"
DCACHESIZE="196608:202752"
PHYSPAGES="0:9223372036854775807"
NUMIPTENT="16:16"
```

```
# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="204800:204800"
DISKINODES="80000:88000"
QUOTATIME="0"
```

```
# CPU fair sheduler parameter
CPUUNITS="4000"
```

```
ncl0:~/bin# vzmemcheck -v
```

```
Output values in %
```

veid	LowMem util	LowMem commit	RAM util	MemSwap commit	MemSwap util	MemSwap commit	Alloc limit	Alloc	Alloc
148	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.50	
147	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.50	

```
% and so on all the same
```

103	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.50
102	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.50
101	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.50
100	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.50

```
-----
Summary:  0.10  0.60  0.25  0.12  1.14  0.16  1.14  24.31
```

user_beans:

0: kmemsize	15036287	16002019	9223372036854775807
9223372036854775807	0		
lockedpages	0	5205	9223372036854775807
9223372036854775807	0		
privvmpages	4387	14309	9223372036854775807
9223372036854775807	0		
shmpages	1292	1308	9223372036854775807
9223372036854775807	0		
dummy	0	0	9223372036854775807 9223372036854775807
0			
numproc	474	483	9223372036854775807
9223372036854775807	0		
physpages	2076	3635	9223372036854775807
9223372036854775807	0		
vmguarpages	0	0	9223372036854775807
9223372036854775807	0		
oomguarpages	2076	3635	9223372036854775807
9223372036854775807	0		
numtcpsock	3	4	9223372036854775807
9223372036854775807	0		
numflock	1	5	9223372036854775807 9223372036854775807
0			
numpty	2	2	9223372036854775807 9223372036854775807
0			
numsiginfo	0	3	9223372036854775807 9223372036854775807
0			
tcpsndbuf	89776	89776	9223372036854775807
9223372036854775807	0		
tcprecvbuf	49152	0	9223372036854775807
9223372036854775807	0		
othersockbuf	9248	17536	9223372036854775807
9223372036854775807	0		
dgramrcvbuf	0	8456	9223372036854775807
9223372036854775807	0		
numothersock	31	37	9223372036854775807
9223372036854775807	0		
dcachesize	0	0	9223372036854775807 9223372036854775807
0			
numfile	7730	7881	9223372036854775807
9223372036854775807	0		
dummy	0	0	9223372036854775807 9223372036854775807
0			
dummy	0	0	9223372036854775807 9223372036854775807
0			
dummy	0	0	9223372036854775807 9223372036854775807
0			
numiptent	10	10	9223372036854775807

look this:

```
ncl0:~/bin# cat /proc/user_beancounters |grep kmemsize
 148: kmemsize          120682          585476          524288          589824
295
 147: kmemsize          115675          585510          524288          589824
193
 146: kmemsize          128874          581253          524288          589824
354
 145: kmemsize          129785          584720          524288          589824
228
 144: kmemsize          125069          583757          524288          589824
174
 143: kmemsize          119771          585504          524288          589824
288
 142: kmemsize          116586          583821          524288          589824
229
 141: kmemsize          117497          579133          524288          589824
233
 140: kmemsize          127052          584584          524288          589824
220
 139: kmemsize          128874          580862          524288          589824
199
 138: kmemsize          112490          584841          524288          589824
219
 137: kmemsize          124778          582395          524288          589824
213
 136: kmemsize          124778          583811          524288          589824
204
 135: kmemsize          127884          583898          524288          589824
159
 134: kmemsize          129165          584182          524288          589824
191
 133: kmemsize          125689          583081          524288          589824
206
 132: kmemsize          115675          585694          524288          589824
266
 131: kmemsize          128874          579133          524288          589824
219
 130: kmemsize          120682          583053          524288          589824
188
 129: kmemsize          134172          583344          524288          589824
205
 128: kmemsize          111579          585079          524288          589824
```

253				
127: kmemsize	129785	585966	524288	589824
327				
126: kmemsize	123247	584126	524288	589824
150				
125: kmemsize	124778	585504	524288	589824
224				
124: kmemsize	122956	582856	524288	589824
188				
123: kmemsize	124778	585712	524288	589824
226				
122: kmemsize	129785	579400	524288	589824
185				
121: kmemsize	120682	584060	524288	589824
222				
120: kmemsize	124778	583717	524288	589824
440				
119: kmemsize	121757	585031	524288	589824
226				
118: kmemsize	119771	579178	524288	589824
219				
117: kmemsize	123867	581009	524288	589824
185				
116: kmemsize	123867	584153	524288	589824
209				
115: kmemsize	128874	584850	524288	589824
253				
114: kmemsize	116586	578780	524288	589824
275				
113: kmemsize	120973	578253	524288	589824
197				
112: kmemsize	127963	582059	524288	589824
198				
111: kmemsize	121593	580768	524288	589824
188				
110: kmemsize	212967	585631	524288	589824
341				
109: kmemsize	120973	582570	524288	589824
210				
108: kmemsize	121593	580015	524288	589824
327				
107: kmemsize	204781	584593	524288	589824
766				
106: kmemsize	317829	584358	524288	589824
933				
105: kmemsize	223235	584286	524288	589824
384				
104: kmemsize	124796	584969	524288	589824

```

640
 103: kmemsize          128874          584806          524288          589824
210
 102: kmemsize          128874          584355          524288          589824
182
 101: kmemsize          118860          584659          524288          589824
228
 100: kmemsize          132970          578085          524288          589824
186
  0: kmemsize          15131641        16243985 9223372036854775807
9223372036854775807          0

```

I've no idea who eats all the kmem.

thc
yahbluez

Subject: Re: max number of VE
 Posted by [kir](#) on Tue, 28 Aug 2007 12:40:05 GMT
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I see. I got you wrong for the first time. The problem is not with number of VEs that you have -- the problem is kmemsize limits are way too small for those VEs. Just increase those; something like this should do the job:

```

for VE in `vzlist -a -H -oveid`; do
  vzctl set $VE --kmemsize 1740800:1847296 --save
done

```

Subject: Re: max number of VE
 Posted by [yahbluez](#) on Wed, 29 Aug 2007 11:35:03 GMT
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Same effect as befor.

A question, is this typicall:

```

ncl0:/proc/sys# cat /proc/user_beancounters
Version: 2.5
  uid resource          held          maxheld          barrier          limit          failcnt
  0: kmemsize          4949907        9474391 9223372036854775807
9223372036854775807          0

```

lockedpages	0	5203	9223372036854775807
9223372036854775807	0		
privvmpages	3190	14306	9223372036854775807
9223372036854775807	0		
shmpages	652	668	9223372036854775807
9223372036854775807	0		
dummy	0	0	9223372036854775807 9223372036854775807
0			
numproc	79	140	9223372036854775807
9223372036854775807	0		
physpages	1667	3628	9223372036854775807
9223372036854775807	0		
vmguarpages	0	0	9223372036854775807
9223372036854775807	0		
oomguarpages	1667	3628	9223372036854775807
9223372036854775807	0		
numtcpsock	2	2	9223372036854775807
9223372036854775807	0		
numflock	1	6	9223372036854775807 9223372036854775807
0			
numpty	1	1	9223372036854775807 9223372036854775807
0			
numsiginfo	0	3	9223372036854775807 9223372036854775807
0			
tcpsndbuf	43336	43336	9223372036854775807
9223372036854775807	0		
tcprcvbuf	32768	0	9223372036854775807
9223372036854775807	0		
othersockbuf	9248	17536	9223372036854775807
9223372036854775807	0		
dgramrcvbuf	0	8456	9223372036854775807
9223372036854775807	0		
numothersock	31	37	9223372036854775807
9223372036854775807	0		
dcachesize	0	0	9223372036854775807 9223372036854775807
0			
numfile	1354	2259	9223372036854775807
9223372036854775807	0		
dummy	0	0	9223372036854775807 9223372036854775807
0			
dummy	0	0	9223372036854775807 9223372036854775807
0			
dummy	0	0	9223372036854775807 9223372036854775807
0			
numiptent	10	10	9223372036854775807
9223372036854775807	0		

I wonder about the barrier and limit values they look verry high?

thx

Subject: Re: max number of VE
Posted by [dev](#) on Wed, 29 Aug 2007 14:16:06 GMT
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0 beancounter is a host system - it should be unlimited, so high values are ok.

Subject: Re: max number of VE
Posted by [dev](#) on Wed, 29 Aug 2007 14:17:01 GMT
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what do you mean by got only 49 VEs to run?
vzctl start failed on other 51 VEs? or machine started to be slow? or what?

Subject: Re: max number of VE
Posted by [dev](#) on Wed, 29 Aug 2007 14:18:37 GMT
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yep, these configs have terribly small limits. try to use config after vzsplit -n 20 or 10.
It will be a config with overcommitment, but it's ok for your test.

Subject: Re: max number of VE
Posted by [yahbluez](#) on Wed, 29 Aug 2007 15:59:12 GMT
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I mean the openvz did not start more than 49 instances.

Please looke here:

I first run 10 Ves than add 30 add up to 49
and than when i try to strat VE nummber 50 it will not do that.
I got an error message at syslog. I have 100 identical Ves atthe stoarge so not working ist not
based on the expliziet number of the instance. When i have 49 running i can't start more VEs.

I still don't see which limit i oversize, maybe someone here sees it:

no VE started

Version: 2.5

uid resource	held	maxheld	barrier	limit	failcnt
0: kmemsize	5148172	9474391	9223372036854775807		
9223372036854775807	0				
lockedpages	0	5203	9223372036854775807		
9223372036854775807	0				
privvmpages	3190	14306	9223372036854775807		
9223372036854775807	0				
shmpages	652	668	9223372036854775807		
9223372036854775807	0				
dummy	0	0	9223372036854775807	9223372036854775807	
0					
numproc	79	140	9223372036854775807		
9223372036854775807	0				
physpages	1667	3628	9223372036854775807		
9223372036854775807	0				
vmguarpages	0	0	9223372036854775807		
9223372036854775807	0				
oomguarpages	1667	3628	9223372036854775807		
9223372036854775807	0				
numtcpsock	2	2	9223372036854775807		
9223372036854775807	0				
numflock	1	6	9223372036854775807	9223372036854775807	
0					
numpty	1	1	9223372036854775807	9223372036854775807	
0					
numsiginfo	0	3	9223372036854775807	9223372036854775807	
0					
tcpsndbuf	43336	43336	9223372036854775807		
9223372036854775807	0				
tcprcvbuf	32768	0	9223372036854775807		
9223372036854775807	0				
othersockbuf	9248	27856	9223372036854775807		
9223372036854775807	0				
dgramrcvbuf	0	8456	9223372036854775807		
9223372036854775807	0				
numothersock	31	37	9223372036854775807		
9223372036854775807	0				
dcachesize	0	0	9223372036854775807	9223372036854775807	
0					
numfile	1352	2259	9223372036854775807		
9223372036854775807	0				
dummy	0	0	9223372036854775807	9223372036854775807	
0					
dummy	0	0	9223372036854775807	9223372036854775807	

0			
dummy	0	0	9223372036854775807 9223372036854775807
0			
numiptent	10	10	9223372036854775807
9223372036854775807	0		
10 VEs running			
0: kmemsize	6690269	9474391	9223372036854775807
9223372036854775807	0		
lockedpages	0	5203	9223372036854775807
9223372036854775807	0		
privvmpages	3191	14306	9223372036854775807
9223372036854775807	0		
shmpages	652	668	9223372036854775807
9223372036854775807	0		
dummy	0	0	9223372036854775807 9223372036854775807
0			
numproc	159	167	9223372036854775807
9223372036854775807	0		
physpages	1668	3628	9223372036854775807
9223372036854775807	0		
vmguarpages	0	0	9223372036854775807
9223372036854775807	0		
oomguarpages	1668	3628	9223372036854775807
9223372036854775807	0		
numtcpsock	2	3	9223372036854775807
9223372036854775807	0		
numflock	1	6	9223372036854775807 9223372036854775807
0			
numpty	1	1	9223372036854775807 9223372036854775807
0			
numsiginfo	0	3	9223372036854775807 9223372036854775807
0			
tcpwndbuf	64936	64936	9223372036854775807
9223372036854775807	0		
tcprcvbuf	32768	0	9223372036854775807
9223372036854775807	0		
othersockbuf	9248	27856	9223372036854775807
9223372036854775807	0		
dgramrcvbuf	0	8456	9223372036854775807
9223372036854775807	0		
numothersock	31	37	9223372036854775807
9223372036854775807	0		
dcachesize	0	0	9223372036854775807 9223372036854775807
0			
numfile	2657	2756	9223372036854775807
9223372036854775807	0		

dummy	0	0 9223372036854775807 9223372036854775807
0		
dummy	0	0 9223372036854775807 9223372036854775807
0		
dummy	0	0 9223372036854775807 9223372036854775807
0		
numiptent	10	10 9223372036854775807
9223372036854775807	0	
40 VEs running		
0: kmemsize	11494115	12172126 9223372036854775807
9223372036854775807	0	
lockedpages	0	5203 9223372036854775807
9223372036854775807	0	
privvmpages	3192	16012 9223372036854775807
9223372036854775807	0	
shmpages	652	668 9223372036854775807
9223372036854775807	0	
dummy	0	0 9223372036854775807 9223372036854775807
0		
numproc	407	415 9223372036854775807
9223372036854775807	0	
physpages	1672	3628 9223372036854775807
9223372036854775807	0	
vmguarpages	0	0 9223372036854775807
9223372036854775807	0	
oomguarpages	1672	3628 9223372036854775807
9223372036854775807	0	
numtcpsock	2	3 9223372036854775807
9223372036854775807	0	
numflock	1	6 9223372036854775807 9223372036854775807
0		
numpty	1	1 9223372036854775807 9223372036854775807
0		
numsiginfo	0	3 9223372036854775807 9223372036854775807
0		
tcpsndbuf	80264	80264 9223372036854775807
9223372036854775807	0	
tcprcvbuf	32768	0 9223372036854775807
9223372036854775807	0	
othersockbuf	9248	27856 9223372036854775807
9223372036854775807	0	
dgramrcvbuf	0	8456 9223372036854775807
9223372036854775807	0	
numothersock	31	37 9223372036854775807
9223372036854775807	0	
dcachesize	0	0 9223372036854775807 9223372036854775807
0		

```

numfile          6600          6745 9223372036854775807
9223372036854775807 0
dummy           0          0 9223372036854775807 9223372036854775807
0
dummy           0          0 9223372036854775807 9223372036854775807
0
dummy           0          0 9223372036854775807 9223372036854775807
0
numiptent       10          10 9223372036854775807
9223372036854775807 0

```

ncl0:~/bin# vzmemcheck

Output values in %

LowMem	LowMem	RAM	MemSwap	MemSwap	Alloc	Alloc	Alloc
util	commit	util	commit	util	commit	limit	
0.33	2.79	0.69	0.34	1.41	0.49	1.41	20.80

48 VEs running

```

0: kmemsize      12724009          13937184 9223372036854775807
9223372036854775807 0
lockedpages      0          5203 9223372036854775807
9223372036854775807 0
privvmpages     3192          16012 9223372036854775807
9223372036854775807 0
shmpages        652          668 9223372036854775807
9223372036854775807 0
dummy           0          0 9223372036854775807 9223372036854775807
0
numproc         471          483 9223372036854775807
9223372036854775807 0
physpages       1672          3628 9223372036854775807
9223372036854775807 0
vmguarpages     0          0 9223372036854775807
9223372036854775807 0
oomguarpages    1672          3628 9223372036854775807
9223372036854775807 0
numtcpsock      2          3 9223372036854775807
9223372036854775807 0
numflock        1          6 9223372036854775807 9223372036854775807
0
numpty          1          1 9223372036854775807 9223372036854775807
0
numsiginfo      0          3 9223372036854775807 9223372036854775807
0
tcpwndbuf       80264          80264 9223372036854775807
9223372036854775807 0
tcprcvbuf       32768          0 9223372036854775807
9223372036854775807 0

```

```

    othersockbuf          9248          27856 9223372036854775807
9223372036854775807      0
    dgramrcvbuf          0          8456 9223372036854775807
9223372036854775807      0
    numothersock         31          37 9223372036854775807
9223372036854775807      0
    dcachesize           0          0 9223372036854775807 9223372036854775807
    0
    numfile              7626          7852 9223372036854775807
9223372036854775807      0
    dummy                0          0 9223372036854775807 9223372036854775807
    0
    dummy                0          0 9223372036854775807 9223372036854775807
    0
    dummy                0          0 9223372036854775807 9223372036854775807
    0
    numiptent            10          10 9223372036854775807
9223372036854775807      0

```

ncl0:~/bin# vzmemcheck

Output values in %

LowMem	LowMem	RAM	MemSwap	MemSwap	Alloc	Alloc	Alloc
util	commit	util	util	commit	util	commit	limit
0.39	3.34	0.82	0.41	1.68	0.59	1.68	24.85

ncl0:~/bin# vzcpucheck

Current CPU utilization: 197000

Power of the node: 657217

Try to start VE 49:

Starting VPS ...

VPS is mounted

env_create error: Resource temporarily unavailable

VPS start failed

/var/log/syslog tells me:

Aug 29 17:52:02 ncl0 kernel: VE: 149: stopped

Aug 29 17:52:02 ncl0 kernel: VE: 149: failed to start with err=-11

ncl0:~/bin# uname -a

Linux ncl0 2.6.18-openvz-12-1etch1-amd64 #1 SMP Fri May 4 23:37:24 MSD 2007 x86_64
GNU/Linux



Subject: Re: max number of VE
Posted by [kir](#) on Wed, 29 Aug 2007 21:24:42 GMT
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Is there something bad in dmesg? The exact quote would be appreciated.

Also it's not quite clear what OpenVZ kernel version do you use. Have you compiled that yourself?
Then what was the version of linux-patch-opensvz.

Also — can you reproduce the problem with the latest 2.6.18 kernel from <http://debian.sysfs.org/>?

Subject: Re: max number of VE
Posted by [yahbluez](#) on Wed, 29 Aug 2007 21:46:33 GMT
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Hi Kirr,

kernel:

Linux version 2.6.18-opensvz-12-1etch1-amd64 () (ola@deb-build-amd64.opensvz.org) (gcc version 4.1.2 20061115 (prerelease) (Debian 4.1.1-21))

Not self made.

full dmesg:

```
Bootdata ok (command line is root=/dev/mapper/vg-rootfs ro )
Linux version 2.6.18-opensvz-12-1etch1-amd64 () (ola@deb-build-amd64.opensvz.org) (gcc version
4.1.2 20061115 (prerelease) (Debian 4.1.1-21)) #1 SMP Fri May 4 23:37:24 MSD 2007
BIOS-provided physical RAM map:
 BIOS-e820: 0000000000000000 - 00000000000a0000 (usable)
 BIOS-e820: 0000000000100000 - 00000000cffa8000 (usable)
 BIOS-e820: 00000000cffa8000 - 00000000cffb7c00 (ACPI data)
 BIOS-e820: 00000000cffb7c00 - 00000000d0000000 (reserved)
 BIOS-e820: 00000000e0000000 - 00000000f0000000 (reserved)
 BIOS-e820: 00000000fe000000 - 0000000100000000 (reserved)
 BIOS-e820: 0000000100000000 - 0000000430000000 (usable)
DMI 2.4 present.
ACPI: RSDP (v002 DELL ) @ 0x000000000000f2620
ACPI: XSDT (v001 DELL PE_SC3 0x00000001 DELL 0x00000001) @ 0x000000000000f26a0
ACPI: FADT (v003 DELL PE_SC3 0x00000001 DELL 0x00000001) @ 0x000000000000f27a8
ACPI: MADT (v001 DELL PE_SC3 0x00000001 DELL 0x00000001) @ 0x000000000000f289c
ACPI: SPCR (v001 DELL PE_SC3 0x00000001 DELL 0x00000001) @ 0x000000000000f297d
ACPI: HPET (v001 DELL PE_SC3 0x00000001 DELL 0x00000001) @ 0x000000000000f29cd
ACPI: MCFG (v001 DELL PE_SC3 0x00000001 DELL 0x00000001) @ 0x000000000000f2a05
ACPI: DSDT (v001 DELL PE_SC3 0x00000001 MSFT 0x0100000e) @ 0x0000000000000000
No NUMA configuration found
```

Faking a node at 0000000000000000-0000000430000000
Bootmem setup node 0 0000000000000000-0000000430000000
On node 0 totalpages: 4124603
DMA zone: 3027 pages, LIFO batch:0
DMA32 zone: 831464 pages, LIFO batch:31
Normal zone: 3290112 pages, LIFO batch:31
ACPI: PM-Timer IO Port: 0x808
ACPI: Local APIC address 0xfee00000
ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
Processor #0 6:15 APIC version 20
ACPI: LAPIC (acpi_id[0x02] lapic_id[0x04] enabled)
Processor #4 6:15 APIC version 20
ACPI: LAPIC (acpi_id[0x03] lapic_id[0x01] enabled)
Processor #1 6:15 APIC version 20
ACPI: LAPIC (acpi_id[0x04] lapic_id[0x05] enabled)
Processor #5 6:15 APIC version 20
ACPI: LAPIC (acpi_id[0x05] lapic_id[0x02] enabled)
Processor #2 6:15 APIC version 20
ACPI: LAPIC (acpi_id[0x06] lapic_id[0x06] enabled)
Processor #6 6:15 APIC version 20
ACPI: LAPIC (acpi_id[0x07] lapic_id[0x03] enabled)
Processor #3 6:15 APIC version 20
ACPI: LAPIC (acpi_id[0x08] lapic_id[0x07] enabled)
Processor #7 6:15 APIC version 20
ACPI: LAPIC_NMI (acpi_id[0x01] high edge lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x02] high edge lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x03] high edge lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x04] high edge lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x05] high edge lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x06] high edge lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x07] high edge lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x08] high edge lint[0x1])
ACPI: IOAPIC (id[0x08] address[0xfec00000] gsi_base[0])
IOAPIC[0]: apic_id 8, version 32, address 0xfec00000, GSI 0-23
ACPI: IOAPIC (id[0x09] address[0xfec81000] gsi_base[64])
IOAPIC[1]: apic_id 9, version 32, address 0xfec81000, GSI 64-87
ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
ACPI: IRQ0 used by override.
ACPI: IRQ2 used by override.
ACPI: IRQ9 used by override.
Setting APIC routing to flat
ACPI: HPET id: 0x8086a201 base: 0xfed00000
Using ACPI (MADT) for SMP configuration information
Allocating PCI resources starting at d1000000 (gap: d0000000:10000000)
Built 1 zonelists. Total pages: 4124603
Kernel command line: root=/dev/mapper/vg-rootfs ro
Initializing CPU#0

PID hash table entries: 4096 (order: 12, 32768 bytes)
time.c: Using 14.318180 MHz WALL HPET GTOD HPET/TSC timer.
time.c: Detected 1596.045 MHz processor.
Console: colour VGA+ 80x25
Dentry cache hash table entries: 2097152 (order: 12, 16777216 bytes)
Inode-cache hash table entries: 1048576 (order: 11, 8388608 bytes)
Checking aperture...
PCI-DMA: Using software bounce buffering for IO (SWIOTLB)
Placing software IO TLB between 0x2884000 - 0x6884000
Memory: 16401928k/17563648k available (1930k kernel code, 374552k reserved, 872k data, 204k init)
Calibrating delay using timer specific routine.. 3195.32 BogoMIPS (lpj=6390645)
Mount-cache hash table entries: 256
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
using mwait in idle threads.
CPU: Physical Processor ID: 0
CPU: Processor Core ID: 0
CPU0: Thermal monitoring enabled (TM1)
Freeing SMP alternatives: 28k freed
ACPI: Core revision 20060707
Page beancounter hash is 2097152 entries.
Using local APIC timer interrupts.
result 16625469
Detected 16.625 MHz APIC timer.
Booting processor 1/8 APIC 0x4
Initializing CPU#1
Calibrating delay using timer specific routine.. 3192.18 BogoMIPS (lpj=6384368)
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 1
CPU: Processor Core ID: 0
CPU1: Thermal monitoring enabled (TM2)
Intel(R) Xeon(R) CPU E5310 @ 1.60GHz stepping 07
Booting processor 2/8 APIC 0x1
Initializing CPU#2
Calibrating delay using timer specific routine.. 3192.17 BogoMIPS (lpj=6384358)
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 0
CPU: Processor Core ID: 1
CPU2: Thermal monitoring enabled (TM2)
Intel(R) Xeon(R) CPU E5310 @ 1.60GHz stepping 07
Booting processor 3/8 APIC 0x5
Initializing CPU#3
Calibrating delay using timer specific routine.. 3192.24 BogoMIPS (lpj=6384492)
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K

CPU: Physical Processor ID: 1
CPU: Processor Core ID: 1
CPU3: Thermal monitoring enabled (TM2)
Intel(R) Xeon(R) CPU E5310 @ 1.60GHz stepping 07
Booting processor 4/8 APIC 0x2
Initializing CPU#4
Calibrating delay using timer specific routine.. 3192.17 BogoMIPS (lpj=6384348)
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 0
CPU: Processor Core ID: 2
CPU4: Thermal monitoring enabled (TM2)
Intel(R) Xeon(R) CPU E5310 @ 1.60GHz stepping 07
Booting processor 5/8 APIC 0x6
Initializing CPU#5
Calibrating delay using timer specific routine.. 3192.18 BogoMIPS (lpj=6384371)
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 1
CPU: Processor Core ID: 2
CPU5: Thermal monitoring enabled (TM2)
Intel(R) Xeon(R) CPU E5310 @ 1.60GHz stepping 07
Booting processor 6/8 APIC 0x3
Initializing CPU#6
Calibrating delay using timer specific routine.. 3192.17 BogoMIPS (lpj=6384340)
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 0
CPU: Processor Core ID: 3
CPU6: Thermal monitoring enabled (TM2)
Intel(R) Xeon(R) CPU E5310 @ 1.60GHz stepping 07
Booting processor 7/8 APIC 0x7
Initializing CPU#7
Calibrating delay using timer specific routine.. 3192.24 BogoMIPS (lpj=6384491)
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 1
CPU: Processor Core ID: 3
CPU7: Thermal monitoring enabled (TM2)
Intel(R) Xeon(R) CPU E5310 @ 1.60GHz stepping 07
Brought up 8 CPUs
testing NMI watchdog ... OK.
migration_cost=18,11860
checking if image is initramfs... it is
Freeing initrd memory: 5409k freed
NET: Registered protocol family 16
ACPI: bus type pci registered
PCI: Using MMCONFIG at e0000000

ACPI: Interpreter enabled
ACPI: Using IOAPIC for interrupt routing
ACPI: PCI Root Bridge [PCI0] (0000:00)
PCI: Probing PCI hardware (bus 00)
PCI: Ignoring BAR0-3 of IDE controller 0000:00:1f.1
Boot video device is 0000:10:0d.0
PCI: Transparent bridge - 0000:00:1e.0
ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEX2._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEX2.UPST._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEX2.UPST.DWN1._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEX2.UPST.DWN2._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEX3._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEX3.PE2P._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEX4._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEX6._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.SBEX._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.COMP._PRT]
ACPI: PCI Interrupt Link [LK00] (IRQs 3 4 5 6 7 10 *11 12)
ACPI: PCI Interrupt Link [LK01] (IRQs 3 4 5 6 7 10 11 12) *0, disabled.
ACPI: PCI Interrupt Link [LK02] (IRQs 3 4 *5 6 7 10 11 12)
ACPI: PCI Interrupt Link [LK03] (IRQs 3 4 5 6 7 *10 11 12)
ACPI: PCI Interrupt Link [LK04] (IRQs 3 4 5 6 7 *10 11 12)
ACPI: PCI Interrupt Link [LK05] (IRQs 3 4 5 6 7 10 *11 12)
ACPI: PCI Interrupt Link [LK06] (IRQs 3 4 5 6 7 10 11 12) *0, disabled.
ACPI: PCI Interrupt Link [LK07] (IRQs 3 4 5 6 7 10 11 12) *0, disabled.
Linux Plug and Play Support v0.97 (c) Adam Belay
pnp: PnP ACPI init
pnp: ACPI device : hid PNP0A03
pnp: ACPI device : hid PNP0200
pnp: ACPI device : hid PNP0C04
pnp: ACPI device : hid PNP0C01
pnp: ACPI device : hid PNP0B00
pnp: ACPI device : hid PNP0700
pnp: ACPI device : hid PNP0501
pnp: ACPI device : hid PNP0501
pnp: ACPI device : hid PNP0C01
pnp: ACPI device : hid IPI0001
pnp: ACPI device : hid PNP0C02
pnp: ACPI device : hid PNP0103
pnp: PnP ACPI: found 12 devices
usbcore: registered new driver usbfs
usbcore: registered new driver hub
PCI: Using ACPI for IRQ routing
PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report
hpet0: at MMIO 0xfed00000 (virtual 0xffffffffff5fe000), IRQs 2, 8, 0
hpet0: 3 64-bit timers, 14318180 Hz
PCI-GART: No AMD northbridge found.

pnP: the driver 'system' has been registered
pnP: match found with the PnP device '00:03' and the driver 'system'
pnP: match found with the PnP device '00:08' and the driver 'system'
pnP: 00:08: ioport range 0x800-0x87f could not be reserved
pnP: 00:08: ioport range 0x880-0x8bf has been reserved
pnP: 00:08: ioport range 0x8c0-0x8df has been reserved
pnP: 00:08: ioport range 0x8e0-0x8e3 has been reserved
pnP: 00:08: ioport range 0xc00-0xc7f has been reserved
pnP: 00:08: ioport range 0xca0-0xca7 has been reserved
pnP: 00:08: ioport range 0xca9-0xcab has been reserved
pnP: 00:08: ioport range 0xcad-0xcaf has been reserved
pnP: match found with the PnP device '00:09' and the driver 'system'
pnP: 00:09: ioport range 0xca8-0xca8 has been reserved
pnP: 00:09: ioport range 0xcac-0xcac has been reserved
pnP: match found with the PnP device '00:0a' and the driver 'system'
PCI: Bridge: 0000:08:00.0
IO window: disabled.
MEM window: f4000000-f7ffffff
PREFETCH window: disabled.
PCI: Bridge: 0000:07:00.0
IO window: disabled.
MEM window: f4000000-f7ffffff
PREFETCH window: disabled.
PCI: Bridge: 0000:07:01.0
IO window: disabled.
MEM window: disabled.
PREFETCH window: disabled.
PCI: Bridge: 0000:06:00.0
IO window: disabled.
MEM window: f4000000-f7ffffff
PREFETCH window: disabled.
PCI: Bridge: 0000:06:00.3
IO window: disabled.
MEM window: disabled.
PREFETCH window: disabled.
PCI: Bridge: 0000:00:02.0
IO window: disabled.
MEM window: f2000000-f7ffffff
PREFETCH window: disabled.
PCI: Bridge: 0000:01:00.0
IO window: disabled.
MEM window: fc400000-fc5fffff
PREFETCH window: d8000000-d80fffff
PCI: Bridge: 0000:01:00.2
IO window: disabled.
MEM window: disabled.
PREFETCH window: disabled.
PCI: Bridge: 0000:00:03.0

IO window: disabled.
MEM window: fc300000-fc5fffff
PREFETCH window: d8000000-d80fffff
PCI: Bridge: 0000:00:04.0
IO window: disabled.
MEM window: disabled.
PREFETCH window: disabled.
PCI: Bridge: 0000:00:05.0
IO window: disabled.
MEM window: disabled.
PREFETCH window: disabled.
PCI: Bridge: 0000:00:06.0
IO window: disabled.
MEM window: disabled.
PREFETCH window: disabled.
PCI: Bridge: 0000:00:07.0
IO window: disabled.
MEM window: disabled.
PREFETCH window: disabled.
PCI: Bridge: 0000:04:00.0
IO window: disabled.
MEM window: f8000000-fbffffff
PREFETCH window: disabled.
PCI: Bridge: 0000:00:1c.0
IO window: disabled.
MEM window: f8000000-fbffffff
PREFETCH window: disabled.
PCI: Bridge: 0000:00:1e.0
IO window: e000-efff
MEM window: fc100000-fc2fffff
PREFETCH window: d0000000-d7ffffff
GSI 16 sharing vector 0xA9 and IRQ 16
ACPI: PCI Interrupt 0000:00:02.0[A] -> GSI 16 (level, low) -> IRQ 169
PCI: Setting latency timer of device 0000:00:02.0 to 64
ACPI: PCI Interrupt 0000:06:00.0[A] -> GSI 16 (level, low) -> IRQ 169
PCI: Setting latency timer of device 0000:06:00.0 to 64
ACPI: PCI Interrupt 0000:07:00.0[A] -> GSI 16 (level, low) -> IRQ 169
PCI: Setting latency timer of device 0000:07:00.0 to 64
PCI: Setting latency timer of device 0000:08:00.0 to 64
ACPI: PCI Interrupt 0000:07:01.0[A] -> GSI 16 (level, low) -> IRQ 169
PCI: Setting latency timer of device 0000:07:01.0 to 64
PCI: Setting latency timer of device 0000:06:00.3 to 64
ACPI: PCI Interrupt 0000:00:03.0[A] -> GSI 16 (level, low) -> IRQ 169
PCI: Setting latency timer of device 0000:00:03.0 to 64
PCI: Setting latency timer of device 0000:01:00.0 to 64
PCI: Setting latency timer of device 0000:01:00.2 to 64
ACPI: PCI Interrupt 0000:00:04.0[A] -> GSI 16 (level, low) -> IRQ 169
PCI: Setting latency timer of device 0000:00:04.0 to 64

PCI: Setting latency timer of device 0000:00:05.0 to 64
ACPI: PCI Interrupt 0000:00:06.0[A] -> GSI 16 (level, low) -> IRQ 169
PCI: Setting latency timer of device 0000:00:06.0 to 64
PCI: Setting latency timer of device 0000:00:07.0 to 64
ACPI: PCI Interrupt 0000:00:1c.0[A] -> GSI 16 (level, low) -> IRQ 169
PCI: Setting latency timer of device 0000:00:1c.0 to 64
PCI: Setting latency timer of device 0000:04:00.0 to 64
PCI: Setting latency timer of device 0000:00:1e.0 to 64
NET: Registered protocol family 2
IP route cache hash table entries: 524288 (order: 10, 4194304 bytes)
TCP established hash table entries: 262144 (order: 10, 4194304 bytes)
TCP bind hash table entries: 65536 (order: 8, 1048576 bytes)
TCP: Hash tables configured (established 262144 bind 65536)
TCP reno registered
audit: initializing netlink socket (disabled)
audit(1188385831.224:1): initialized
VFS: Disk quotas dquot_6.5.1
Dquot-cache hash table entries: 512 (order 0, 4096 bytes)
Initializing Cryptographic API
io scheduler noop registered
io scheduler anticipatory registered
io scheduler deadline registered
io scheduler cfq registered (default)
PCI: Setting latency timer of device 0000:00:02.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:02.0:pcie00]
Allocate Port Service[0000:00:02.0:pcie01]
PCI: Setting latency timer of device 0000:00:03.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:03.0:pcie00]
Allocate Port Service[0000:00:03.0:pcie01]
PCI: Setting latency timer of device 0000:00:04.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:04.0:pcie00]
Allocate Port Service[0000:00:04.0:pcie01]
PCI: Setting latency timer of device 0000:00:05.0 to 64
pcie_portdrv_probe->Dev[25e5:8086] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:05.0:pcie00]
Allocate Port Service[0000:00:05.0:pcie01]
PCI: Setting latency timer of device 0000:00:06.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:06.0:pcie00]
Allocate Port Service[0000:00:06.0:pcie01]
PCI: Setting latency timer of device 0000:00:07.0 to 64
pcie_portdrv_probe->Dev[25e7:8086] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:07.0:pcie00]

Allocate Port Service[0000:00:07.0:pcie01]
PCI: Setting latency timer of device 0000:00:1c.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:1c.0:pcie00]
Allocate Port Service[0000:00:1c.0:pcie03]
PCI: Setting latency timer of device 0000:06:00.0 to 64
Allocate Port Service[0000:06:00.0:pcie10]
Allocate Port Service[0000:06:00.0:pcie11]
PCI: Setting latency timer of device 0000:07:00.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:07:00.0:pcie20]
Allocate Port Service[0000:07:00.0:pcie21]
PCI: Setting latency timer of device 0000:07:01.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:07:01.0:pcie20]
Allocate Port Service[0000:07:01.0:pcie21]
Real Time Clock Driver v1.12ac
hpet_resources: 0xfed00000 is busy
Linux agpgart interface v0.101 (c) Dave Jones
Serial: 8250/16550 driver \$Revision: 1.90 \$ 4 ports, IRQ sharing enabled
serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
serial8250: ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A
pnp: the driver 'serial' has been registered
pnp: match found with the PnP device '00:06' and the driver 'serial'
00:06: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
pnp: match found with the PnP device '00:07' and the driver 'serial'
00:07: ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A
RAMDISK driver initialized: 16 RAM disks of 65536K size 1024 blocksize
pnp: the driver 'i8042 kbd' has been registered
pnp: the driver 'i8042 aux' has been registered
pnp: the driver 'i8042 kbd' has been unregistered
pnp: the driver 'i8042 aux' has been unregistered
PNP: No PS/2 controller found. Probing ports directly.
serio: i8042 AUX port at 0x60,0x64 irq 12
serio: i8042 KBD port at 0x60,0x64 irq 1
mice: PS/2 mouse device common for all mice
TCP bic registered
NET: Registered protocol family 1
NET: Registered protocol family 17
NET: Registered protocol family 8
NET: Registered protocol family 20
Freeing unused kernel memory: 204k freed
SCSI subsystem initialized
megasas: 00.00.03.01 Sun May 14 22:49:52 PDT 2006
megasas: 0x1028:0x0015:0x1028:0x1f03: bus 2:slot 14:func 0
GSI 17 sharing vector 0x42 and IRQ 17
ACPI: PCI Interrupt 0000:02:0e.0[A] -> GSI 78 (level, low) -> IRQ 66
Broadcom NetXtreme II Gigabit Ethernet Driver bnx2 v1.4.44 (August 10, 2006)

ACPI: PCI Interrupt 0000:09:00.0[A] -> GSI 16 (level, low) -> IRQ 169
eth0: Broadcom NetXtreme II BCM5708 1000Base-T (B2) PCI-X 64-bit 133MHz found at mem
f4000000, IRQ 169, node addr 001aa031b7eb
USB Universal Host Controller Interface driver v3.0
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
scsi0 : LSI Logic SAS based MegaRAID driver
Vendor: ATA Model: ST3250620NS Rev: 3BKH
Type: Direct-Access ANSI SCSI revision: 05
Vendor: ATA Model: ST3250620NS Rev: 3BKH
Type: Direct-Access ANSI SCSI revision: 05
Vendor: ATA Model: ST3250620NS Rev: 3BKH
Type: Direct-Access ANSI SCSI revision: 05
Vendor: ATA Model: ST3250620NS Rev: 3BKH
Type: Direct-Access ANSI SCSI revision: 05
Vendor: DP Model: BACKPLANE Rev: 1.05
Type: Enclosure ANSI SCSI revision: 05
Vendor: DELL Model: PERC 5/i Rev: 1.03
Type: Direct-Access ANSI SCSI revision: 05
ACPI: PCI Interrupt 0000:05:00.0[A] -> GSI 16 (level, low) -> IRQ 169
GSI 18 sharing vector 0x4A and IRQ 18
ACPI: PCI Interrupt 0000:00:1d.0[A] -> GSI 21 (level, low) -> IRQ 74
PCI: Setting latency timer of device 0000:00:1d.0 to 64
uhci_hcd 0000:00:1d.0: UHCI Host Controller
uhci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 1
uhci_hcd 0000:00:1d.0: irq 74, io base 0x0000dce0
eth1: Broadcom NetXtreme II BCM5708 1000Base-T (B2) PCI-X 64-bit 133MHz found at mem
f8000000, IRQ 169, node addr 001aa031b7e9
usb usb1: configuration #1 chosen from 1 choice
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 2 ports detected
SCSI device sda: 1461190656 512-byte hdwr sectors (748130 MB)
sda: Write Protect is off
sda: Mode Sense: 1f 00 10 08
SCSI device sda: drive cache: write through w/ FUA
SCSI device sda: 1461190656 512-byte hdwr sectors (748130 MB)
sda: Write Protect is off
sda: Mode Sense: 1f 00 10 08
SCSI device sda: drive cache: write through w/ FUA
sda: sda1 sda2 < sda5 >
sd 0:2:0:0: Attached scsi disk sda
GSI 19 sharing vector 0x52 and IRQ 19
ACPI: PCI Interrupt 0000:00:1d.1[B] -> GSI 20 (level, low) -> IRQ 82
PCI: Setting latency timer of device 0000:00:1d.1 to 64
uhci_hcd 0000:00:1d.1: UHCI Host Controller
uhci_hcd 0000:00:1d.1: new USB bus registered, assigned bus number 2
uhci_hcd 0000:00:1d.1: irq 82, io base 0x0000dcc0
usb usb2: configuration #1 chosen from 1 choice

hub 2-0:1.0: USB hub found
hub 2-0:1.0: 2 ports detected
ACPI: PCI Interrupt 0000:00:1d.2[C] -> GSI 21 (level, low) -> IRQ 74
PCI: Setting latency timer of device 0000:00:1d.2 to 64
uhci_hcd 0000:00:1d.2: UHCI Host Controller
uhci_hcd 0000:00:1d.2: new USB bus registered, assigned bus number 3
uhci_hcd 0000:00:1d.2: irq 74, io base 0x0000dca0
usb usb3: configuration #1 chosen from 1 choice
hub 3-0:1.0: USB hub found
hub 3-0:1.0: 2 ports detected
ACPI: PCI Interrupt 0000:00:1d.7[A] -> GSI 21 (level, low) -> IRQ 74
PCI: Setting latency timer of device 0000:00:1d.7 to 64
ehci_hcd 0000:00:1d.7: EHCI Host Controller
ehci_hcd 0000:00:1d.7: new USB bus registered, assigned bus number 4
ehci_hcd 0000:00:1d.7: debug port 1
PCI: cache line size of 32 is not supported by device 0000:00:1d.7
ehci_hcd 0000:00:1d.7: irq 74, io mem 0xfc600400
ehci_hcd 0000:00:1d.7: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
usb usb4: configuration #1 chosen from 1 choice
hub 4-0:1.0: USB hub found
hub 4-0:1.0: 6 ports detected
ESB2: IDE controller at PCI slot 0000:00:1f.1
ACPI: PCI Interrupt 0000:00:1f.1[A] -> GSI 16 (level, low) -> IRQ 169
ESB2: chipset revision 9
ESB2: not 100% native mode: will probe irqs later
 ide0: BM-DMA at 0xfc00-0xfc07, BIOS settings: hda:DMA, hdb:pio
Probing IDE interface ide0...
hda: HL-DT-ST GCR-8240N, ATAPI CD/DVD-ROM drive
usb 4-5: new high speed USB device using ehci_hcd and address 3
usb 4-5: configuration #1 chosen from 1 choice
hub 4-5:1.0: USB hub found
hub 4-5:1.0: 4 ports detected
usb 2-2: new low speed USB device using uhci_hcd and address 2
ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
hda: ATAPI 24X CD-ROM drive, 128kB Cache, UDMA(33)
Uniform CD-ROM driver Revision: 3.20
usb 2-2: configuration #1 chosen from 1 choice
Probing IDE interface ide1...
usbcore: registered new driver hiddev
input: Logitech USB Receiver as /class/input/input0
input: USB HID v1.10 Keyboard [Logitech USB Receiver] on usb-0000:00:1d.1-2
input: Logitech USB Receiver as /class/input/input1
input: USB HID v1.10 Mouse [Logitech USB Receiver] on usb-0000:00:1d.1-2
usbcore: registered new driver usbhid
drivers/usb/input/hid-core.c: v2.6:USB HID core driver
device-mapper: ioctl: 4.7.0-ioctl (2006-06-24) initialised: dm-devel@redhat.com
Attempting manual resume
kjournald starting. Commit interval 5 seconds

EXT3-fs: mounted filesystem with ordered data mode.
input: PC Speaker as /class/input/input2
intel_rng: FWH not detected
pci_hotplug: PCI Hot Plug PCI Core version: 0.5
shpchp: Standard Hot Plug PCI Controller Driver version: 0.4
floppy0: no floppy controllers found
EXT3 FS on dm-2, internal journal
loop: loaded (max 8 devices)
kjournald starting. Commit interval 5 seconds
EXT3 FS on sda1, internal journal
EXT3-fs: mounted filesystem with ordered data mode.
Adding 16777208k swap on /dev/mapper/vg-swap. Priority:-1 extents:1 across:16777208k
bnx2: eth0: using MSI
ACPI: Power Button (FF) [PWRBF]
NET: Registered protocol family 10
lo: Disabled Privacy Extensions
ADDRCONF(NETDEV_UP): eth0: link is not ready
IPv6 over IPv4 tunneling driver
ip_tables: (C) 2000-2006 Netfilter Core Team
Netfilter messages via NETLINK v0.30.
ip_conntrack version 2.4 (8192 buckets, 65536 max) - 312 bytes per conntrack
bnx2: eth0 NIC Link is Up, 1000 Mbps full duplex, receive & transmit flow control ON
ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready
eth0: no IPv6 routers present
VE: 100: started
VE: 101: started
lo: Disabled Privacy Extensions
VE: 102: started
lo: Disabled Privacy Extensions
VE: 103: started
lo: Disabled Privacy Extensions
VE: 104: started
lo: Disabled Privacy Extensions
VE: 105: started
lo: Disabled Privacy Extensions
VE: 106: started
lo: Disabled Privacy Extensions
VE: 107: started
lo: Disabled Privacy Extensions
VE: 108: started
lo: Disabled Privacy Extensions
VE: 109: started
lo: Disabled Privacy Extensions
lo: Disabled Privacy Extensions
VE: 110: started
VE: 111: started
lo: Disabled Privacy Extensions
VE: 112: started

lo: Disabled Privacy Extensions
VE: 113: started
lo: Disabled Privacy Extensions
VE: 114: started
lo: Disabled Privacy Extensions
VE: 115: started
lo: Disabled Privacy Extensions
VE: 116: started
lo: Disabled Privacy Extensions
VE: 117: started
lo: Disabled Privacy Extensions
VE: 118: started
lo: Disabled Privacy Extensions
VE: 119: started
lo: Disabled Privacy Extensions
VE: 120: started
lo: Disabled Privacy Extensions
VE: 121: started
lo: Disabled Privacy Extensions
VE: 122: started
lo: Disabled Privacy Extensions
VE: 123: started
lo: Disabled Privacy Extensions
VE: 124: started
lo: Disabled Privacy Extensions
VE: 125: started
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VE: 126: started
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VE: 127: started
lo: Disabled Privacy Extensions
VE: 128: started
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VE: 130: started
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VE: 131: started
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VE: 135: started
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VE: 136: started

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VE: 137: started
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VE: 138: started
lo: Disabled Privacy Extensions
VE: 139: started
lo: Disabled Privacy Extensions
VE: 140: started
lo: Disabled Privacy Extensions
lo: Disabled Privacy Extensions
VE: 141: started
VE: 142: started
lo: Disabled Privacy Extensions
VE: 143: started
lo: Disabled Privacy Extensions
VE: 144: started
lo: Disabled Privacy Extensions
VE: 145: started
lo: Disabled Privacy Extensions
VE: 146: started
lo: Disabled Privacy Extensions
VE: 147: started
lo: Disabled Privacy Extensions
VE: 148: started
lo: Disabled Privacy Extensions
lo: Disabled Privacy Extensions
VE: 149: stopped
VE: 149: failed to start with err=-11
VE: 150: stopped
VE: 150: failed to start with err=-11
VE: 150: stopped
VE: 150: failed to start with err=-11
VE: 151: stopped
VE: 151: failed to start with err=-11
VE: 152: stopped
VE: 152: failed to start with err=-11
VE: 153: stopped
VE: 153: failed to start with err=-11
VE: 154: stopped
VE: 154: failed to start with err=-11
VE: 155: stopped
VE: 155: failed to start with err=-11
VE: 156: stopped
VE: 156: failed to start with err=-11
VE: 157: stopped
VE: 157: failed to start with err=-11
VE: 158: stopped
VE: 158: failed to start with err=-11

VE: 159: stopped
VE: 159: failed to start with err=-11
VE: 160: stopped
VE: 160: failed to start with err=-11
VE: 100: stopped
Ub 100 helds 3476 in kmemsize on put
VE: 101: stopped
Ub 101 helds 3476 in kmemsize on put
VE: 102: stopped
Ub 102 helds 3476 in kmemsize on put
VE: 103: stopped
Ub 103 helds 3476 in kmemsize on put
VE: 104: stopped
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Ub 127 helds 3476 in kmemsize on put
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VE: 128: stopped
Ub 128 helds 3476 in kmemsize on put
VE: 129: stopped
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Ub 130 helds 3476 in kmemsize on put
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VE: 141: stopped
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VE: 146: stopped
Ub 146 helds 3476 in kmemsize on put
VE: 147: stopped
Ub 147 helds 3476 in kmemsize on put
VE: 148: stopped
Ub 148 helds 3476 in kmemsize on put

wbr
yahbluez

Subject: Re: max number of VE
Posted by [dev](#) on Thu, 30 Aug 2007 08:10:16 GMT
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yahbluez wrote on Wed, 29 August 2007 19:59 I mean the openvz did not start more than 49 instances.

Please looke here:

I first run 10 Ves than add 30 add up to 49
and than when i try to strat VE nummber 50 it will not do that.
I got an error message at syslog.

what message in syslog? please always report exact info from logs/output from commands when something fails. Otherwise it is impossible to help w/o knowing what fails.

Subject: Re: max number of VE
Posted by [yahbluez](#) on Thu, 30 Aug 2007 09:17:00 GMT
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Sorry it was at the end of my post,
i show you the output of vzmemcheck and vzcpucheck just befor i try to start the next VE.

You see the error message and the paste from syslog.

It says error -11.

I try to move to centos 5.0 instead of etch, maybe that will make things easier?

wbr
yahbluez

```
ncl0:~/bin# vzmemcheck
Output values in %
LowMem LowMem RAM MemSwap MemSwap Alloc Alloc Alloc
util commit util util commit util commit limit
0.39 3.34 0.82 0.41 1.68 0.59 1.68 24.85
```

```
ncl0:~/bin# vzcpucheck
Current CPU utilization: 197000
Power of the node: 657217
```

Try to start VE 49:

```
Starting VPS ...
VPS is mounted
env_create error: Resource temporarily unavailable
VPS start failed
```

/var/log/syslog tells me:

```
Aug 29 17:52:02 ncl0 kernel: VE: 149: stopped
Aug 29 17:52:02 ncl0 kernel: VE: 149: failed to start with err=-11
```

```
ncl0:~/bin# uname -a
Linux ncl0 2.6.18-openvz-12-1etch1-amd64 #1 SMP Fri May 4 23:37:24 MSD 2007 x86_64
GNU/Linux
```

Subject: Re: max number of VE
Posted by [dev](#) on Thu, 30 Aug 2007 09:21:55 GMT
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hmm... -11 == EAGAIN... strange...
Can you please first try the most recent kernel 012 is too old and I remember there were many fixes...

if you can recompile the kernel I could prepare you debug patch which could help to resolve it...

Subject: Re: max number of VE
Posted by [yahbluez](#) on Thu, 30 Aug 2007 09:58:18 GMT
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I can compile on this server. To do so i need the patch and the information for wich kernel version the patch is.

Do you think that it is always a better idea to use a redhat based system for the host themself?

I preffer to run debian inside the Ves but outside centos or even SLES will be finde for me too.

thx
yahbluez

Subject: Re: max number of VE
Posted by [kir](#) on Thu, 30 Aug 2007 11:26:56 GMT
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Well, I guess you do not need to compile anything (yet).

Just add debian.systs.org repository to your apt sources list and update the kernel from that repo. Reboot into that new kernel (should be 2.6.18-028stab039 as of now) and try to reproduce the problem.

Subject: SOLVED Re: max number of VE
Posted by [yahbluez](#) on Thu, 30 Aug 2007 12:53:59 GMT
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Thx kir,

the newest kernel in this rep is:
2.6.18-028stab035.1-ovz-smp #1 SMP Wed Jun 13 21:52:27 CEST 2007 x86_64 GNU/Linux

With that kernel the bug did not apear.
Im able to run 100 VEs.

So no need for me to switch to centos on the host.

where may i found the sources of this kernel tree?

thanks again for your quick assistance.

with best regards
yahbluez

Subject: Re: SOLVED Re: max number of VE

Posted by [kir](#) on Thu, 30 Aug 2007 13:39:15 GMT

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Quote:where may i found the sources of this kernel tree?

Why do you need it? Want to rebuild? Why?

Sources are at

<http://download.openvz.org/kernel/branches/2.6.18/028stab035.1/>

or you may use the latest released kernel:

<http://download.openvz.org/kernel/branches/2.6.18/current/>

Subject: Re: SOLVED Re: max number of VE

Posted by [yahbluez](#) on Thu, 30 Aug 2007 14:05:18 GMT

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to include squashfs.

But its possibly to do that on an other machine.

thx again for your help.

yahbluez
