Subject: FPU context can't be restored. The processor is incompatible.
Posted by wetpaste on Wed, 05 Dec 2012 01:17:32 GMT
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Hi all,

I've been trying out the live migration abilities of openvz and I ran into an interesting error in which google has not been helpful.

```
[root@HN .ssh]# vzmigrate -r no --online -v 10.1.1.105 1
Starting live migration of CT 1 to 10.1.1.105
OpenVZ is running...
   Loading /etc/vz/vz.conf and /etc/vz/conf/1.conf files
   Check IPs on destination node: 10.1.1.103 10.1.1.15
Preparing remote node
   Copying config file
1.conf                                        100% 1335     1.3KB/s   00:00
No changes in CT configuration, not saving
   Creating remote container root dir
   Creating remote container private dir
Syncing private
Live migrating container...
   Suspending container
Setting up checkpoint...
 suspend...
 get context...
Checkpointing completed successfully
   Dumping container
Setting up checkpoint...
 join context..
 dump...
Checkpointing completed successfully
   Copying dumpfile
dump.1                                        100%  177MB  29.4MB/s   00:06
   Syncing private (2nd pass)
   Undumping container
Restoring container ...
Container is mounted
 undump...
Adding IP address(es): 10.1.1.103 10.1.1.15
Setting CPU units: 1000
Error: undump failed: Bad address
Restoring failed:
Error: FPU context can't be restored. The processor is incompatible.
Container restore failed
Container is unmounted
Error: Failed to undump container
```

Resuming...

Both source and destination machines are already running containers without issue. At least the site is still live, just not migrated.

The source kernel is: 2.6.32-042stab062.2
Dest: 2.6.32-042stab063.2

Any idea what the issue could be? It looks like the CPU checkpointing is not working on one of the machines, maybe some instruction is being used on the newer machine, is being checkpointed, and cannot be interpreted by the old machine? Is that common?

Source: Intel(R) Xeon(R) CPU E5-2430L
Dest: Intel(R) Xeon(R) CPU 3040

Subject: Re: FPU context can't be restored. The processor is incompatible.
Posted by lojasyst on Thu, 27 Dec 2012 22:11:21 GMT
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Hello

I am having the same problem. here my situation

I have a two nodes cluster
First: Dell PE2950 intel xeon
Second: Desktop intel CI7

When migrating offline between both nodes no problem.

When I migrate online from Xeon to CI7 OK
But when I migrate online from CI7 to Xeon i have the message "FPU context can't be restored. The processor is incompatible."

I posted this problem in the proxmox forum and I got no solution so they suggested me to try in this forum.

Anybody has a hint?

Subject: Re: FPU context can't be restored. The processor is incompatible.
Posted by lojasyst on Tue, 08 Jan 2013 00:13:03 GMT
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wetpaste

have you solved this issue?

Subject: Re: FPU context can't be restored. The processor is incompatible.
Posted by Paparaciz on Wed, 09 Jan 2013 14:10:08 GMT
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it is good and bad news:

http://bugzilla.openvz.org/show_bug.cgi?id=2275
