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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