

Re: Migrating app from 3.2v4.2 to OpenServer 5.0.7?

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[reposting article that didn't make it through the mail->news gateway]

Brian Lavender wrote:

- > *I have an orthodontics application running on 3.2v4.2 This is somewhat*
- > *similar to another post, but a different approach.*
- >
- > *Should I:*
- >
- > *1. Try to build another 3.2v4.2 box*
- > *2 Convert the app to 5.0.7*
- > *3. Run it under Linux-ABI*
- >
- > *I am thinking that there might be issues that could cause this to be*
- > *somewhat difficult. Here's what I have. This is an old (still useful)*
- > *terminal based application along with some dumb terminals and some*
- > *logins through the TCP/IP network.*
- >
- > *The OrthoTrac system uses user ID's 200 through 240. It also has these*
- > *users in the group called group which has a gid of 50. Are these*
- > *uid/gid's reserved on the new version of Openserver?*

They're still available.

- > *The app talks directly to the printer through the parallel port, and*
- > *it looks like the app has /dev/slp1 hard coded into it in various*
- > *areas. It also communicates with two serial based printers. The*
- > *application talks directly to the device with its own drivers. Is*
- > */dev/slp1 still the device name of the printer on parallel port one?*
- > *Am I going to have to tweak 5.0.7 to allow this direct device access?*
- > *In fact, it seems wierd that this is the device name on 3.2v4.2,*
- > *unless I got misinterpreted something somewhere.*

Seems weird to me, too. SCO Unix never supplied a device named /dev/slp1. The three "standard" parallel port addresses correspond to

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devices /dev/lp0, lp1, lp2. /dev/slp1 might be linked from one of those devices — what are its major/minor numbers? Or, when you said "with its own drivers" maybe you really did mean its own kernel device drivers. In which case — kernel device drivers should be compatible from SCO Unix 3.2v4.2 to OpenServer 5.0.7.

> *The app looks as if it forks, or calls another process that wants to write to the /dev/tty. In fact, the .profile for the ortho user executes a command that adds write privilege to all the /dev/tty*. Is /dev/tty* still the name of the pseudo terms in 5.0.7. I have had some problems with Linux's /dev/pts/* pseudo terminals.*

OpenServer tty devices are still /dev/tty*. Largely for this exact sort of reason — apps exist which expect it so.

> *I am almost thinking that maybe I ought to build/obtain a box that is running 3.2v4.2 and use it as a failover. The app is working fine. It's just that there is no other server available if this one fails.*

>

> *I am most familiar with Linux, so I have been working with the application on Redhat 8 using ABI. THE cobol runtime seems to run well, but there seems to be problems with the way the software is accessing the hardware. I haven't seen any segfaults, but I can't seem to get strace to follow child processes, so it's hard to see where the app fails under Linux.*

I'm not qualified to help you with that...

3.2v4.2 might be difficult to install on current hardware. I'm not really sure. You could probably find old/used/low spec hardware that might work. On the other hand, bringing the app up on OSR507 shouldn't be too bad, and will let you use much more easily obtained hardware.

>Bela<