

Re: program to copy files – problems – unix ksh to java

Source: <http://coding.derkeiler.com/Archive/Java/comp.lang.java.programmer/2004-02/1030.html>

From: hiwa (HGA03630_at_nifty.ne.jp)

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kaeli <tiny_one@NOSPAM.comcast.net> wrote in message
news:<MPG.1a9172689199094e989bf1@nntp.lucent.com>...

> *Hi all,*

>

> *I've got a shell script (ksh) that does some file copying and deleting.*

> *I'm running into some problems with it that I'm wondering if I can*

> *solve. Since I plan on re-writing it with java (1.4), I figure I might*

> *as well do it right this time.*

>

> *Here's the drill:*

> *Cron runs this code every 5 minutes.*

> *Program looks on one machine, uses ssh to copy a file to another*

> *machine, changes the filename, the owner and permissions (chmod), and*

> *then deletes the file from the source machine.*

> *Sounds simple enough...*

>

> *Problems:*

> *Large files (we're talking gigabytes) take more than 5 minutes to copy.*

> *Something is causing the file to be deleted before it has finished*

> *copying. We lose the whole file, as it doesn't show up on either*

> *machine.*

> *Program gets called again while an instance is running, so it tries to*

> *copy files that are currently being copied.*

>

> *I was going to solve this with the usual .running type fix, but we*

> *really need the program to actually run every 5 minutes (more than one*

> *instance will be needed). If an instance is already copying the file,*

> *the file should just be ignored. The file should not be deleted if the*

> *copy hasn't finished.*

>

> *Does anyone know of any system stuff I should be looking at for java?*

> *Specifically, Unix Solaris interface so I can tell if a file is in use?*

> *Also, how can I make sure that the copy was finished before deleting the*

> *source? I expected the script to wait for the copy to finish before*

> *deleting, but it appears that it is not doing that. Should I use threads*

> *for this?*

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> *Thanks for any ideas, input, etc...*

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Are you syncing or flushing with proper synchronization?