
Subject: Re: Simultaneous write on textfile over NFS
Posted by [pgrigis](#) on Wed, 10 Feb 2010 14:39:38 GMT
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On Feb 10, 4:29 am, Johannes Korn <k...@freisingnet.de> wrote:

> Hi,
>
> I often run idl programs which utilize only one CPU core (for loops).
> The output is a text line appended to a file.
>
> To exploit a multicore I run multiple instances with different parameter
> setups. The output goes to different files. After all jobs are completed
> I manually merge the files.
> This ways I have to keep track which file contains what output and so on.
>
> My question, what happens if I use the same output file for all jobs. Is
> it save?
>
> This means every job would write about every 15 seconds a line like that.
>
> OPENW, u, 'file.txt', /GET_LUN, WIDTH=250, /APPEND
> printf, a, b, c
> FREE_LUN,u

Well, I have no experience with this, but I would be concerned that if one program attempts to write "apple" and the other "orange" you may end up with "apporangele" or something ugly like that...

I mean - maybe it's safe but it looks risky to me.

I would suggest instead to write the time stamp first in each line of output in all the different files - this way you can merge the file and sort them (it's a few commands only if you have a UNIX-like terminal) - and end up with the same output as if they were using the same file...

After merge & sort you would have something like:

```
20100210 09:01:00 apple
20100210 09:01:03 orange
20100210 09:01:12 banana
etc.
```

Looks much cleaner to me :)

Ciao,
Paolo

>
> What if two write accesses collide? Will the file be corrupted? Will
> there be an error? Will the second job wait until the first one has
> closed the file?
>
> Filesystem is NFS.
>
> Regards,
>
> Johannes
