
Subject: Re: netcdf + idl: posixio.c:265: px_pgin: Assertion ...
Posted by [Fabzou](#) on Wed, 13 Apr 2011 13:24:17 GMT
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Hi,

Thanks for the information. Could it be related to my problem?
https://groups.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/85b56dbd3e16d687/213ae8de36749fd9?hl=ky&lnk=gst&q=fabzou#213ae8de36749fd9

Anyway, I did not understand what you mean with:

- > The workaround is to to introduce a caching routine for copying the file
- > to a local storage with IO Block: 4096 size.

Is there a code template for this ?

Thanks in advance,

Fab

On 04/13/2011 02:37 PM, Reimar Bauer wrote:

- > Hi
- >
- > we found a terrible netCDF problem which makes it hard to use a given
- > network storage for reading many many files.
- >
- > It is the same problem for reading as discussed in that thread
- > https://www.unidata.ucar.edu/mailling_lists/archives/netcdfgroup/2011/msg00108.html
- >
- > The workaround is to to introduce a caching routine for copying the file
- > to a local storage with IO Block: 4096 size.
- >
- > We have some users which got a bit crazy because of random
- >
- > idl: posixio.c:265: px_pgin: Assertion `*posp == ((off_t)(-1)) || *posp
- > == lseek(nciop->fd, 0, 1)' failed.
- > Aborted
- >
- > while accessing a few hundred files.
- >
- > cheers
- > Reimar

Subject: Re: netcdf + idl: posixio.c:265: px_pgin: Assertion ...
Posted by [Kenneth P. Bowman](#) on Wed, 13 Apr 2011 13:34:36 GMT
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In article <io451n\$ujh\$1@zam602.zam.kfa-juelich.de>,
Reimar Bauer <R.Bauer@fz-juelich.de> wrote:

> Hi
>
> we found a terrible netCDF problem which makes it hard to use a given
> network storage for reading many many files.
>
> It is the same problem for reading as discussed in that thread
> https://www.unidata.ucar.edu/mailling_lists/archives/netcdfgroup/2011/msg00108.html
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> while accessing a few hundred files.
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> cheers
> Reimar

Is this a netCDF library problem or an IDL problem? Have you
reported it to UNIDATA and/or ITTVIS?

Ken

Subject: Re: netcdf + idl: posixio.c:265: px_pgin: Assertion ...
Posted by [R.Bauer](#) on Thu, 14 Apr 2011 08:26:12 GMT
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Am 13.04.2011 15:34, schrieb Kenneth P. Bowman:

> In article <io451n\$ujh\$1@zam602.zam.kfa-juelich.de>,
> Reimar Bauer <R.Bauer@fz-juelich.de> wrote:
>
>> Hi
>>
>> we found a terrible netCDF problem which makes it hard to use a given
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>> cheers
>> Reimar
>
> Is this a netCDF library problem or an IDL problem? Have you
> reported it to UNIDATA and/or ITTVIS?

I have reported it to unidata by a mail to the mailinglist, see the thread I posted. I guess it is a unidata netCDF problem and after it is fixed we need a newer version in IDL.

Reimar

>
> Ken

Subject: Re: netcdf + idl: posixio.c:265: px_pgin: Assertion ...
Posted by [R.Bauer](#) on Thu, 14 Apr 2011 08:33:14 GMT
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Am 13.04.2011 15:24, schrieb Fabzou:

> Hi,
>
> Thanks for the information. Could it be related to my problem?
> https://groups.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/85b56dbd3e16d687/213ae8de36749fd9?hl=ky&lnk=gst&q=fabzou#213ae8de36749fd9
>

I guess it is.

>

> Anyway, I did not understand what you mean with:

>

>> The workaround is to to introduce a caching routine for copying the file

The workaround is a function with locking capability which copies a file from NFS to local storage before it becomes readed.

https://idlsources.fz-juelich.de/hg/icg_lib-11.0/file/tip/idl_work/rb_lib/caching.pro

>> to a local storage with IO Block: 4096 size.

if you do a

> stat filename

From the man page

NAME

stat - display file or file system status

you get the IO Block information of the filesystem for your filename.

In our case we have on the fileserver the IO Block: 4096 size but not on the NFS filesystem.

Reimar

>

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>

> Thanks in advance,

>

> Fab

>

> On 04/13/2011 02:37 PM, Reimar Bauer wrote:

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>> [https://www.unidata.ucar.edu mailing_lists/archives/netcdfgroup](https://www.unidata.ucar.edu mailing_lists/archives/netcdfgroup/2011/msg00108.html)

>> /2011/msg00108.html

>>

>> The workaround is to to introduce a caching routine for copying the file

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```
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