
Subject: Error Handling - Emailing

Posted by [Benjamin Panter](#) on Thu, 08 May 2003 13:23:34 GMT

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I'm using programs written in IDL to analyse a massive dataset (~135k tasks) on about 20 CPUs spread around our site, and would like to get them to email me when there is a problem (ie when one of them crashes). I can then quickly sort the problem and get the machine in question back running, while also spotting any trends which might be causing the problems. I've worked out how to do it if the data file simply doesn't exist - that's an I/O error and I would add lines like:

```
on_ioerror, panic
panic: spawn, 'echo IO Problem with machine X | sendmail
bdp@blob.ac.uk'
```

On_error has different syntax - but is there a way of adapting it? I've looked through the manuals and the archive, but nothing springs out. I'm using the Linux version under redhat and IDL 5.6

Thanks in Anticipation,

Ben

PS: I *am* trying to fix the shoddy part of the code that causes the problems too!

--

Ben Panter, Royal Observatory, Edinburgh
My name (no spaces)@bigfoot which is a com.

Subject: Re: Error Handling - Emailing

Posted by [condor](#) on Wed, 14 May 2003 01:30:37 GMT

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Benjamin Panter <See@the_end.not> wrote in message
news:<3EBA5A56.1A02C5A5@the_end.not>...

```
> I'm using programs written in IDL to analyse a massive dataset
> (~135k tasks) on about 20 CPUs spread around our site, and would like to
> get them to email me when there is a problem (ie when one of them
> crashes).
```

Well, if IDL actually *crashes*, it isn't going to do anything - including sending mail.

I don't know how your processes get started, but some trivial csh

script like this could work:

```
echo ".run dreadedprocess" | idl >& outputfile
mail email@address < outputfile
```

which will simply collect everything idl produces in that file and mail it when idl exits (presumably because it crashed).

Subject: Re: error

Posted by [mads](#) on Wed, 06 Aug 2003 03:59:24 GMT

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"mads" <mads@mschumacher.com> wrote in message
news:bgptgt\$2qm\$1@nntp.msstate.edu...

```
> Hi all,
> I get the following error when i compile the code in this segment
> :
> "
> m = {mcr, name:'kuusk2', leafOpticsModel2:'prospect', nComponents2:4, $
> L2:0, sl2:0.15, clz2:1.0, eln2:2.0, thm2:35.0, slw2:90.0, nCoef2:0.9, $
> nCellLayers:1.5, c12:0.43, c12FName:'chlorop3.dat', c22:80.0,
> c22FName:'waterp3.dat', $
> c32:0.6, c32FName:'drymatter.dat', c42:0.2, c42FName:'drymatter.dat', $
> leafOpticsModel:'liberty', nComponents1:5, L1:0.5, sl1:0.15, clz1:1.0, $
> eln1:3.0, thm1:15.0, SLW1:80.5, nCoef1:0.9, nCellLayers:1.25,
dCell1:80.0,
> $
> iCellAir1:0.045, c11:0.68, c11FName:'chlorop3.dat', c21:101.0,
> c21FName:'waterp3.dat', $
> c31:7.6, c31FName:'drymatter.dat', c41:0.6, c41FName:'brownpigm.dat', $
> c51:250.0, c51FName:'base.dat', th1, 37.3, phi:0.0, bAng:0.12, skyl:0.0,
$
> rsli:0.29, thsSoil:[0.130, 0.06, -0.04, 45.0], alpl:'angstr.dat',
> price:'price.dat', $
> mu:'refrind.dat', th2:0.0, wlMin:400.0, wlMax:2400, dwl:5.0, lmbda:486.0,
$
> thMin:-85.0, thMax:85.0, dth:3.0, lspec:'f', lad:'t'}
>
> fmt = '(a, /, i2, /, 3(f5.2, 2x), /, 2(2(f3.0, 2x), /), f3.1, /, 4(f5.2,
2x,
> a, /), $
> a, /, i2, /, 3(f4.2, 2x), /, 2(2(f4.1, 2x), /), 3(f6.3, 2x), /, 5(f6.2,
2x,
> a, /), $
> 4(5.2, 2x), /, 5(7.3, 2x), /, 3(a, /), 2(4(5.0, 2x), /), 2(a,2x), /)'
> "
> ERROR:
```

```

>
> thMin:-85.0, thMax:85.0, dth:3.0, lspec:'f', lad:'t'}
>                                     ^
> % Conflicting or duplicate structure tag definition: <missing>.
>   At: /home/madhu/thesiswork/thesis.pro, Line 17
>
> thMin:-85.0, thMax:85.0, dth:3.0, lspec:'f', lad:'t'}
>                                     ^
> % Conflicting or duplicate structure tag definition: <missing>.
>   At: /home/madhu/thesiswork/thesis.pro, Line 17
>

```

The above error has been solved . I has duplicate names as the error said.
But the error below is still on.....

```

> a, /, i2, /, 3(f4.2, 2x), /, 2(2(f4.1, 2x), /), 3(f6.3, 2x), /, 5(f6.2,
2x, a, /), $
>      ^
> % Syntax error.
>   At: /home/madhu/thesiswork/thesis.pro, Line 20
>
> What is the problem?
> Thanks
> M
>
>

```

Subject: Re: error

Posted by [andrew.cool](#) on Wed, 06 Aug 2003 22:16:07 GMT

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"mads" <mads@mschumacher.com> wrote in message
news:<bgpub7\$34s\$1@nntp.msstate.edu>...

```

> "mads" <mads@mschumacher.com> wrote in message
> news:bgptgt$2qm$1@nntp.msstate.edu...
>> fmt = '(a, /, i2, /, 3(f5.2, 2x), /, 2(2(f3.0, 2x), /), f3.1, /, 4(f5.2,
> 2x,
>> a, /), $
>> a, /, i2, /, 3(f4.2, 2x), /, 2(2(f4.1, 2x), /), 3(f6.3, 2x), /, 5(f6.2,
> 2x,
>> a, /), $
>> 4(5.2, 2x), /, 5(7.3, 2x), /, 3(a, /), 2(4(5.0, 2x), /), 2(a, 2x), /)'
>> "

```

> But the error below is still on.....

```

>
>> a, /, i2, /, 3(f4.2, 2x), /, 2(2(f4.1, 2x), /), 3(f6.3, 2x), /, 5(f6.2,

```

```
> 2x, a, /), $
>>      ^
>> % Syntax error.
>> At: /home/madhu/thesiswork/thesis.pro, Line 20
>>
>> What is the problem?
```

The problem is that you're trying to cram too much onto one line, just like you are in your structure definition... ;-)

Why not :-

```
fmt = '(a, /, i2, /, 3(f5.2, 2x), /, 2(2(f3.0, 2x), /), f3.1,)'
fmt = fmt + '(/, 4(f5.2, 2x,a, /),a, /, i2, /, 3(f4.2, 2x), /,)'
fmt = fmt + '( 2(2(f4.1, 2x), /), 3(f6.3, 2x), /, 5(f6.2, 2x, a, /))'
fmt = fmt + '(4(5.2, 2x), /, 5(7.3, 2x), /, 3(a, /))'
fmt = fmt + '(/, 2(4(5.0, 2x), /), 2(a,2x), /)'
```

But why such a whooping great format statement anyway?!?!

Andrew

Andrew D. Cool
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Email : andrew.cool@dsto.defence.gov.au

Subject: Re: error
Posted by [mads](#) on Thu, 07 Aug 2003 01:31:42 GMT
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"Andrew Cool" <andrew.cool@dsto.defence.gov.au> wrote in message
news:c6d70400.0308061416.7b199fe2@posting.google.com...

```

> "mads" <mads@mschumacher.com> wrote in message
news:<bgpub7$34s$1@nntp.msstate.edu>...
>> "mads" <mads@mschumacher.com> wrote in message
>> news:bgptgt$2qm$1@nntp.msstate.edu...
>>> fmt = '(a, /, i2, /, 3(f5.2, 2x), /, 2(2(f3.0, 2x), /), f3.1, /,
4(f5.2,
>> 2x,
>>> a, /), $
>>> a, /, i2, /, 3(f4.2, 2x), /, 2(2(f4.1, 2x), /), 3(f6.3, 2x), /,
5(f6.2,
>> 2x,
>>> a, /), $
>>> 4(5.2, 2x), /, 5(7.3, 2x), /, 3(a, /), 2(4(5.0, 2x), /), 2(a,2x), /)'
>>> "
>
>> But the error below is still on.....
>>
>>> a, /, i2, /, 3(f4.2, 2x), /, 2(2(f4.1, 2x), /), 3(f6.3, 2x), /,
5(f6.2,
>> 2x, a, /), $
>>>      ^
>>> % Syntax error.
>>> At: /home/madhu/thesiswork/thesis.pro, Line 20
>>>
>>> What is the problem?
>
> The problem is that you're trying to cram too much onto one line, just
like
> you are in your structure definition... ;-)
>
> Why not :-
>
>
> fmt = '(a, /, i2, /, 3(f5.2, 2x), /, 2(2(f3.0, 2x), /), f3.1,)'
>
> fmt = fmt + '(/, 4(f5.2, 2x,a, /),a, /, i2, /, 3(f4.2, 2x), /,)'
>
> fmt = fmt + '( 2(2(f4.1, 2x), /), 3(f6.3, 2x), /, 5(f6.2, 2x, a, /))'
>
> fmt = fmt + '(4(5.2, 2x), /, 5(7.3, 2x), /, 3(a, /))'
>
> fmt = fmt + '(, 2(4(5.0, 2x), /), 2(a,2x), /)'
>
>
> But why such a whooping great format statement anyway?!?!

```

I am basically trying to create a file each time in a loop which will be read by a fortran code which will in turn write out into a file on which I will

work. these are the parameters that will be changed and written into the file which will b the i/p to the fortran code. do u have any suggestions? breaking up the structure into 2 or breaking up the format code into so many parts is ok but its just as prone to error as the method i used above is what i feel.....any i/p on how i can make this a better structure is appreciated.....is there any way i can change filepointer on a formatted file like i am writing?

bye
m

>
>
> Andrew
>
> -----

> Andrew D. Cool
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> Intelligence, Surveillance & Reconnaissance Division
> Defence Science & Technology Organisation
> PO Box 1500, Edinburgh
> South Australia 5111
>
> Phone : 061 8 8259 5740 Fax : 061 8 8259 6673
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> -----

Subject: Re: error

Posted by [David Fanning](#) on Thu, 07 Aug 2003 02:38:17 GMT

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mads writes:

> I am basically trying to create a file each time in a loop which will b read
> by a fortran code which will in turn write out into a file on which i will
> work. these are the parameters that will be changed and written into the
> file which will b the i/p to the fortran code. do u have any suggestions?
> breaking up the structure into 2 or breaking up the format code into so many
> parts is ok but its just as prone to error as the method i used above is
> what i feel.....any i/p on how i can make this a better structure is
> appreciated.....is there any way i can change filepointer on a
> formatted file like i am writing?

Oh, never mind. On second thought that code is probably as optimised as it's ever going to get. :-)

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: error

Posted by [andrew.cool](#) on Sun, 10 Aug 2003 21:52:32 GMT

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```
"mads" <mads@mschumacher.com> wrote in message
news:<bgsa2a$h22$1@nntp.msstate.edu>...
> "Andrew Cool" <andrew.cool@dsto.defence.gov.au> wrote in message
> news:c6d70400.0308061416.7b199fe2@posting.google.com...
>> "mads" <mads@mschumacher.com> wrote in message
> news:<bgpub7$34s$1@nntp.msstate.edu>...
>>> "mads" <mads@mschumacher.com> wrote in message
>>> news:bgptgt$2qm$1@nntp.msstate.edu...
>>>> fmt = '(a, /, i2, /, 3(f5.2, 2x), /, 2(2(f3.0, 2x), /), f3.1, /,
> 4(f5.2,
> 2x,
>>>> a, /), $
>>>> a, /, i2, /, 3(f4.2, 2x), /, 2(2(f4.1, 2x), /), 3(f6.3, 2x), /,
> 5(f6.2,
> 2x,
>>>> a, /), $
>>>> 4(5.2, 2x), /, 5(7.3, 2x), /, 3(a, /), 2(4(5.0, 2x), /), 2(a, 2x), /)'
>>>> "
>
>>>> But the error below is still on.....
>>>>
>>>> a, /, i2, /, 3(f4.2, 2x), /, 2(2(f4.1, 2x), /), 3(f6.3, 2x), /,
> 5(f6.2,
> 2x, a, /), $
>>>>      ^
>>>> % Syntax error.
>>>> At: /home/madhu/thesiswork/thesis.pro, Line 20
>>>>
>>>> What is the problem?
>>
>> The problem is that you're trying to cram too much onto one line, just
> like
>> you are in your structure definition... ;-)
```

```

>>
>> Why not :-
>>
>>
>> fmt = '(a, /, i2, /, 3(f5.2, 2x), /, 2(2(f3.0, 2x), /), f3.1,)'
>>
>> fmt = fmt + '(/, 4(f5.2, 2x,a, /),a, /, i2, /, 3(f4.2, 2x), /,)'
>>
>> fmt = fmt + '( 2(2(f4.1, 2x), /), 3(f6.3, 2x), /, 5(f6.2, 2x, a, /))'
>>
>> fmt = fmt + '(4(5.2, 2x), /, 5(7.3, 2x), /, 3(a, /))'
>>
>> fmt = fmt + '(', 2(4(5.0, 2x), /), 2(a,2x), /)'
>>
>>
>> But why such a whooping great format statement anyway?!?!
>
> I am basically trying to create a file each time in a loop which will b read
> by a fortran code which will in turn write out into a file on which i will
> work. these are the parameters that will be changed and written into the
> file which will b the i/p to the fortran code. do u have any suggestions?
> breaking up the structure into 2 or breaking up the format code into so many
> parts is ok but its just as prone to error as the method i used above is
> what i feel

```

Look closer. You tried to split continue/split the format statement in the middle of a whole segment, for want of a better description, which produced the syntax error.

Crude as it is, my effort splits your format statement at natural/valid boundaries and makes it more readable in the process. No syntax error either.

mads 0/1 andrew 1/1

You really ought to seek assistance from that Fanning guy to sort out your other barrow load of problems...