Subject: Need Help Resolving ENDIF Errors
Posted by einszweilieb on Tue, 10 Mar 2009 20:38:41 GMT
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I'm trying to run a procedure in IDL. The procedure has a series of IF LOOPS, each of minimal complexity - they are fairly simple.

For example:

```
XX=readfits('/home/kphil/img/img213.fits')
YY=readfits('/home/kphil/img/img213.fits', EXTEN_NO=1)
ZZ =YY

G  = where(ZZ ne 0)
invarmap=  ZZ * 0.0
invarmap[G] = (1./(ZZ[G])^2)

if ((where(XX ne XX))(0) ne -1) then begin
   ZZ[where(XX ne XX)] = 0
   XX[where(XX ne XX)] = 0
endif
```

The problem is that everything runs just great, until the ENDIF is reached. I CONSTANTLY get ENDIF errors.

Why is this happening? I feel that my code is solid, but all I get are ENDIF errors.

The .pro I'm running has about 7 IF LOOPS, and the ONLY errors I get are on the lines where ENDIF is.

Any idea what the problem is? Help!

Thanks in advance.

Subject: Re: Need Help Resolving ENDIF Errors
Posted by David Fanning on Thu, 12 Mar 2009 01:11:52 GMT
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Jeremy Bailin writes:

> 1. Yes, there is a use of asking where(XX ne XX) - it tells you where
> there are NaNs. I use it all the time.

Oh, dear! That's sorta like using the rhythm method of birth control, isn't it? I mean, maybe combined with

hope and prayer, but...I certainly wouldn't rely on
it. Better to use something that is actually defined
in the operating system, I think. Here is an article:

  http://www.dfanning.com/math_tips/nans.html

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Need Help Resolving ENDIF Errors
Posted by Jeremy Bailin on Thu, 12 Mar 2009 14:14:59 GMT
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On Mar 11, 9:11 pm, David Fanning <n...@dfanning.com> wrote:
> Jeremy Bailin writes:
>> 1. Yes, there is a use of asking where(XX ne XX) - it tells you where
>> there are NaNs. I use it all the time.
>
> Oh, dear! That's sorta like using the rhythm method of
> birth control, isn't it? I mean, maybe combined with
> hope and prayer, but...I certainly wouldn't rely on
> it. Better to use something that is actually defined
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>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.dfanning.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Ye gods! I must admit to never having used IDL in windows, so I've
never found that issue. Or used windows at all in a decade, for that
matter. Hmmm.

Any idea whether this statement: "If this turns out to be true there a
good chance that in the future the behavior of the Windows and Unix

versions of IDL will be consistent. [That is, versions after IDL
5.6.]" is indeed true for recent versions?

-Jeremy.

Subject: Re: Need Help Resolving ENDIF Errors
Posted by David Fanning on Thu, 12 Mar 2009 14:28:48 GMT
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Jeremy Bailin writes:

> Ye gods! I must admit to never having used IDL in windows, so I've
> never found that issue. Or used windows at all in a decade, for that
> matter. Hmmm.

As Warren Buffet said the other day, it's not who
YOU are sleeping with, it's who THEY are sleeping with.
Hard to say where those programs we write will show up
next. :-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Need Help Resolving ENDIF Errors
Posted by Carsten Lechte on Thu, 12 Mar 2009 14:35:49 GMT
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David Fanning wrote:
> it. Better to use something that is actually defined
> in the operating system, I think.

Or, more precisely, the language environment. The C library for
GNU cc correctly implements the 'NaN ne NaN' behaviour on all
operating systems (at least according to the manual). IDL
inherits its environment from the compiler that is used.

chl

Subject: Re: Need Help Resolving ENDIF Errors
Posted by Carsten Lechte on Thu, 12 Mar 2009 14:43:05 GMT
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Carsten Lechte wrote:
> David Fanning wrote:
>> it. Better to use something that is actually defined
>> in the operating system, I think.
>
> Or, more precisely, the language environment. The C library for
> GNU cc correctly implements the 'NaN ne NaN' behaviour on all
> operating systems (at least according to the manual). IDL
> inherits its environment from the compiler that is used.

And I forgot to add:
That is why David and I suggest one should prefer documented features
of a system (like FINITE()). On the other hand, who would have
thought to test for basic IEEE 754 compliance before using an
IEEE 754 feature?

chl