```
On Mar 10, 3:38 pm, einszweil...@gmail.com wrote:
> 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
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For clarity the error message always looks something like:
endif
% Syntax error.
 At: /home/kphil/idl/pro/cltin.pro, Line 37
Ugh...
```

Subject: Re: Need Help Resolving ENDIF Errors

Subject: Re: Need Help Resolving ENDIF Errors

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Posted by einszweilieb on Tue, 10 Mar 2009 20:41:58 GMT

```
On Mar 10, 4:41 pm, einszweil...@gmail.com wrote:
> On Mar 10, 3:38 pm, einszweil...@gmail.com wrote:
>
>
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>> 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
Hi,
```

Do you really mean where(XX ne XX)? XX ne XX should give you and array the size of XX filled with zeroes.

```
IDL> xx = INDGEN(10)
IDL> print, xx ne xx
0 0 0 0 0 0 0 0 0 0
```

I have no idea how to resolve the endif error or if the above is related. However, in general (regardless of the comparison you are making) you want to do the WHERE search just once.

```
index = WHERE(something NE somethingElse, count) if (count NE 0) then begin
```

```
aThirdThing = ZZ[index]
```

endif

No point in searching your array repeatedly if you don't need to.

Subject: Re: Need Help Resolving ENDIF Errors Posted by Michael Galloy on Tue, 10 Mar 2009 21:26:48 GMT View Forum Message <> Reply to Message

```
einszweilieb@gmail.com wrote:
> On Mar 10, 3:38 pm, einszweil...@gmail.com wrote:
>> 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:
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>> 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.
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>> 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.
  For clarity the error message always looks something like:
>
 endif
> % Syntax error.
   At: /home/kphil/idl/pro/cltin.pro, Line 37
```

> Ugh...

My guess would be that you are forgetting the BEGIN. If there are only 7 loops, maybe it's short enough to show the entire code?

Mike

--

www.michaelgalloy.com Associate Research Scientist Tech-X Corporation

Subject: Re: Need Help Resolving ENDIF Errors Posted by pgrigis on Tue, 10 Mar 2009 21:34:42 GMT

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```
einszweil...@gmail.com wrote:
> 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:
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> 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.
If you put an "else" after endif on the next line,
be sure to put a $ after endif
```

Ciao, Paolo

```
> 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 Paul Van Delst[1] on Tue, 10 Mar 2009 21:56:13 GMT
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```
einszweilieb@gmail.com wrote:
> 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:
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> 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.
Weird. On *every* endif?
> Why is this happening? I feel that my code is solid, but all I get
```

Such basic syntax error reports are an indication code is definitely not "solid". Now, don't take that the wrong way: most of my code qualifies in the jello category so I'm quite familiar with the phenomenon. :o)

Apart from the strangeness of "where(XX ne XX)", what happens if you replace

> are ENDIF errors.

```
if ((where(XX ne XX))(0) ne -1) then begin

with

if ((where(XX ne XX))[0] ne -1) then begin
?

cheers,

paulv

> 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 Andi Walther on Tue, 10 Mar 2009 21:56:45 GMT
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```
> 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
in case you meant
if ((where(XX ne YY))(0) ne -1) then begin
  ZZ[where(XX ne YY)] = 0
  XX[where(XX ne YY)] = 0
endif
you can just use
IDL > ivermap = (1/((ZZ^2)>1)) * (ZZ NE 0)
```

Subject: Re: Need Help Resolving ENDIF Errors Posted by Andi Walther on Tue, 10 Mar 2009 22:18:09 GMT View Forum Message <> Reply to Message

```
On 10 Mrz., 16:56, Andi Walther <andi.b.walt...@googlemail.com> wrote:
>> 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
>
> in case you meant
> if ((where(XX ne YY))(0) ne -1) then begin
    ZZ[where(XX ne YY)] = 0
    XX[where(XX ne YY)] = 0
  endif
> you can just use
> IDL > ivermap = (1/((ZZ^2)>1)) * (ZZ NE 0)
> IDL> ZZ = XX * ( XX EQ YY)
And, you can't us blocks (everything that starts with a BEGIN) in
batch files.
That means you will get this error message with
```

IDL> @my_program_with_an_if_block

Subject: Re: Need Help Resolving ENDIF Errors
Posted by David Gell on Wed, 11 Mar 2009 12:25:22 GMT
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On Mar 10, 3:38 pm, einszweil...@gmail.com wrote:

> 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.
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> 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.
```

Usually, this error message appears at an END statement someplace after the actual location of the syntax error. Check each of the seven IF blocks to make sure that they are properly formed. Also if you have other compound statements, e.g. FOR ... DO BEGIN ... ENDFOR or WHILE .. DO BEGIN...ENDWHILE, make sure that they are properly formed. Finally make sure that any continued statements have the \$ character at the end and that non-continued statements do not.

Subject: Re: Need Help Resolving ENDIF Errors Posted by Jean H. on Wed, 11 Mar 2009 13:51:48 GMT View Forum Message <> Reply to Message

Hi,

also don't forget, if you have ELSE begin statements, to close them by ENDELSE, not endif... (it's different in other languages, I make the mistake half of the time!)

Jean

Subject: Re: Need Help Resolving ENDIF Errors Posted by pgrigis on Wed, 11 Mar 2009 14:35:56 GMT

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This thread is a typical example of scientific arguments: a plethora of wild speculations based on insufficient data!

;-)

Ciao, Paolo

Jean H. wrote:

- > Hi,
- >
- > also don't forget, if you have ELSE begin statements, to close them by
- > ENDELSE, not endif... (it's different in other languages, I make the
- > mistake half of the time!)

>

> Jean

Subject: Re: Need Help Resolving ENDIF Errors Posted by ben.bighair on Wed, 11 Mar 2009 15:02:45 GMT

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On Mar 11, 10:35 am, Paolo <pgri...@gmail.com> wrote:

- > This thread is a typical example of scientific arguments:
- > a plethora of wild speculations based on insufficient data!

>

> ;-)

>

Just keeping limber for the upcoming grant renewal season!

Subject: Re: Need Help Resolving ENDIF Errors Posted by Jean H. on Wed, 11 Mar 2009 15:05:15 GMT

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Are you slowly bringing the idea that it could be an hardware problem?;)

Jean

Paolo wrote:

- > This thread is a typical example of scientific arguments:
- > a plethora of wild speculations based on insufficient data!

>

```
> ;-)
> Ciao,
> Paolo
> Jean H. wrote:
>> Hi,
>>
> also don't forget, if you have ELSE begin statements, to close them by
>> ENDELSE, not endif... (it's different in other languages, I make the
>> mistake half of the time!)
>>
>> Jean
```

Subject: Re: Need Help Resolving ENDIF Errors Posted by Jeremy Bailin on Wed, 11 Mar 2009 15:19:05 GMT View Forum Message <> Reply to Message

On Mar 10, 4:41 pm, einszweil...@gmail.com wrote:

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The problem is that everything runs just great, until the ENDIF is

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> For clarity the error message always looks something like:
>
> endif
> ^
> % Syntax error.
> At: /home/kphil/idl/pro/cltin.pro, Line 37
>
> Ugh...

My votes:

- 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.
- 2. Definitely take Ben's advice about only having one WHERE!!!
- 3. I think Andi's speculation is the right one... you're probably using @foo.pro instead of .run foo.pro.

-Jeremy.