
Subject: Re: Need Help Resolving ENDIF Errors
Posted by [einszweilieb](#) on Tue, 10 Mar 2009 20:41:58 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.
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> For example:
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> ZZ =YY
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> if ((where(XX ne XX))(0) ne -1) then begin
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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

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>> 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 an 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.

Ben

Subject: Re: Need Help Resolving ENDIF Errors

Posted by [Michael Galloy](#) on Tue, 10 Mar 2009 21:26:48 GMT

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einszweilieb@gmail.com wrote:

> On Mar 10, 3:38 pm, einszweil...@gmail.com wrote:

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>> 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

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>> 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:

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> IF LOOPS, each of minimal complexity - they are fairly simple.

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> For example:

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> 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

>

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> 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.

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.
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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:

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> 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
> are ENDIF errors.

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

```
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.
>
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>
> 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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```
>
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> ZZ =YY
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> 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)

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 use 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
[View Forum Message](#) <> [Reply to Message](#)

On Mar 10, 3:38 pm, einszweil...@gmail.com wrote:

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```

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
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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:

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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 <pgrigis...@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:
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>

> ;-)
>
> Ciao,
> Paolo
>
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Subject: Re: Need Help Resolving ENDIF Errors
Posted by [Jeremy Bailin](#) on Wed, 11 Mar 2009 15:19:05 GMT
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On Mar 10, 4:41 pm, einszweil...@gmail.com wrote:
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>
> 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.
