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Subject: Re: Compilation Error: Procedure header must appear first and only once  
Posted by [Michael Galloy](#) on Wed, 29 Jun 2011 16:30:17 GMT

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On 6/29/11 8:38 AM, Maegereg wrote:

> On 6/27/11 3:18PM, Michael Galloy wrote:

>> 1. Always check the first error in the file, a single syntax error can  
>> cause many later error messages.

>>

>> 2. "Procedure header must appear first and only once" almost always  
>> means you forgot to END something -- you have a BEGIN but no END for an  
>> IF statement, a FOR loop, etc.

>  
> I've checked the first error in each of the two files- both are syntax errors, and in both cases  
nothing actually appears wrong. Here's the two errors (error is on third line):

>

> END

> 'Funct\_AIF\_Fast': BEGIN

> SetTimeCommonBlock,tMargin=ObtainTMargin()+tMargin, tRange=tRange

> END

> 'Funct\_Artery\_AIF': BEGIN

>

> and

> t\_time=(\*pState).pt\_time

> time\_courseC=(\*pState).timecourse)[(\*pState).cursorPositio  
n[0],(\*pState).cursorPosition[1],\*]

> uptake\_curve=get\_uptake\_curve(time\_courseC, pState, base\_level=base\_level)

> noise\_Level=Calculate\_Noise(time\_courseC, (\*pState).n\_base, (\*pState).baseStart,  
(\*pState).n\_images-1) ;; df=df)

> ;save, uptake\_curve, t\_time, filename='D:\tmp.idl'

>

> Eclipse points out the )+ (of the tMargin=ObtainTMargin()+tMargin part), and the =b (of the  
base\_level=base\_level part). Neither of them seems to be a syntax error, though do correct me if  
I'm wrong. There are a ton more of these correct syntax errors scattered throughout the rest of the  
project.

These errors are usually indicative that you think you are calling a  
function, but IDL thinks you are indexing an array. I would use  
"compile\_opt strictarr" at the beginning of each routine \*and\* only use  
square brackets to index the array.

> I also checked the end statements for both of the files. I made a couple changes where it  
seemed like the wrong end had been used, but even now that the ends are completely correct,  
the errors persist. Another thing I did notice: eclipse is giving me errors of the form: "Type of end  
does not match statement" in the functions immediately before I start getting the procedure  
header errors. I've double checked these functions though, and the ends are correct. And I've also  
tried just blindly doing what the compiler says to make those bug reports go away (changing the  
ends to whatever it suggests, even if it's incorrect), but that didn't fix anything either.

I still think there is something screwed up there based on the  
"Procedure header must appear first and only once", Carsten's suggestion  
to remove a enough code for it to work and add back a little at a time  
is good.

Mike

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Michael Galloy

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Modern IDL, A Guide to Learning IDL: <http://modernidl.idldev.com>

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