Subject: Re: Compile Problem with IDL5.2

Posted by davidf on Thu, 22 Jul 1999 07:00:00 GMT

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Joerg Mosthaf (joerg.mosthaf@urz.uni-heidelberg.de) writes:

- > Well, thanks for answering so fast, but this is probably not the cause of the
- > problem, as I can see in the status-windows that all routines, including the
- > offending one, are compiled. At least I presume that when IDL says
- > % Compiled module: PatData
- > that it really did that and compiled the function. But still it sometimes
- > cannot find said routine when executing.
- > I will try the suggestion in the second posting and report back.

Here is an illustration of what is going on for you.

FUNCTION myfunction, number RETURN, Randomu(seed, number) END

PRO main utility print, myfunction(3) END

When I run this program, I get this:

IDL> main

% Compiled module: MAIN.

% Variable is undefined: MYFUNCTION.

% Execution halted at: UTILITY 2 C:\RSI\IDL52\DAVID\main.pro

% MAIN 10 C:\RSI\IDL52\DAVID\main.pro

% \$MAIN\$

This happens even if I compile the program first:

IDL> .compile main

% Compiled module: UTILITY.

% Compiled module: MYFUNCTION.

% Compiled module: MAIN.

IDL> main

% Variable is undefined: MYFUNCTION.

% Execution halted at: UTILITY 2 C:\RSI\IDL52\DAVID\main.pro

% MAIN 10 C:\RSI\IDL52\DAVID\main.pro

% \$MAIN\$

The problem here is that the first module, UTILITY, is calling the function, MYFUNCTION, that isn't compiled until *after* UTILITY is compiled. As a result, "myfunction" has been registered with IDL as a variable.

The problem is easily solved (without resorting to FORWARD_FUNCTION) by moving the function ahead of the UTILITY procedure in the file:

FUNCTION myfunction, number RETURN, Randomu(seed, number) END

PRO utility value = myfunction(5) END

PRO main utility print, myfunction(3) END

Now, when I call it:

IDL> main % Compiled module: MAIN. 0.383502 0.653919 0.0668422

Cheers.

David

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