Subject: Programming annoyances
Posted by swingnut on Fri, 09 Sep 2005 21:18:22 GMT
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Ok, I've got some code. I've tweaked it so that it actually runs again (sortof; it was written by another grad student back in 2001-2002 but hasn't been used much since then). Two issues that have come up, which I don't understand.

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First, the pro file contains a function, N_REFR. IDL compiles this when I select the compile all option, and sometimes IDL sees it but most of the time IDL gives a variable undefined error.

```
... (other modules compiled)
% Compiled module: N_REFR
% Compiled module: MASSPROFILE4
IDL> massprofile 4
...(log messages)
% Variable is undefined: N_REFR
% Execution halted at: RPIPROFILER      286
  /data/aramisgm/research/tracing/testing/massprofile4.pro
%                     MASSPROFILE4     667
  /data/aramisgm/research/tracing/testing/massprofile4.pro
%                     $MAIN$
% Program caused arithmetic error: Floating underflow
```

I tried putting N_REFR into a separate pro file, but I got the same behavior. I eventually changed the function name to be N_refr, and now it seems to work but unreliably. I've fiddled with changing the function call to match, but the subtleties of case sensitivity seem to be showing up. This happens whether both at the IDL prompt and in idlde. In any case, what can cause this happen?

BTW, this is IDL 6.2 on a Red Hat 8 cluster.

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Second, on the occasions when the program does run, when it reaches the end of the main procedure, IDL prints two or three error messages to the log:

Program caused arithmetic error: Floating point divide by 0
Program caused arithmetic error: Floating underflow

and sometimes

Program caused arithmetic error: Floating overflow

I added a tracing statement to determine for sure that this happens at the end, and sure enough, it is not generated by anything in the code, though I could imagine it being generated by something being left ot at the end. Any ideas?

Thanks.
