swingnut@gmail.com wrote:
> 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.
>
> **********
> 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
>

Perhaps a bad assig instruction is the problem. Although you have been
compiled the N_REFR function and MASSPROFILE4 procedure/function you
could have a:
a= NREFR ---> BAD (without parenthesis) Variable N_REFR undefined.
a= NREFR() --> OK

> 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.
>
> **********
> 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.
>

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