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Subject: Re: Suppressing diagnostic messages en masse  
Posted by [Craig Markwardt](#) on Sun, 05 Feb 2006 19:09:04 GMT  
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"Ed Hyer" <ejhyer@gmail.com> writes:

- > Hey great minds,
- >
- > I am engaged in semi-permanent debugging of some pretty long scripts,
- > which in the course of developing I have peppered with PRINT statements
- > to achieve various diagnostic ends.
- >
- > I don't think the script is "final," whatever that means, but it's time
- > to do some production runs, where the script will be invoked 10,000
- > times, instead of the usual 1.
- >
- > I can do a search-and-replace to comment out the diagnostics for this
- > purpose, but what would really be nice is if I could somehow put a
- > keyword flag into the routine that, when set, would suppress|promote
- > the diagnostic messages. Sounds like the sort of thing that might
- > exist. Anyone know how to do this?

I have had a need for this before. There are a lot of cases where I need to keep a log of diagnostic output, but not print it unless there is an error, or to save it to a file at the end.

I developed a small routine called PRINTLOG which is a drop-in replacement for PRINT. You work it like this,

```
PRINTLOG, LOG=LOG, "X = ", X
PRINTLOG, LOG=LOG, "Y = ", Y
and the result is that the LOG variable slowly builds up a transcript
of whatever you print to it. Unfortunately you will need to retool
your subroutines to accept a LOG keyword, but once you do that, you
can maintain one continuous log while traversing up and down the
subroutine call tree. Like this,
MYPROC1, LOG=LOG, X, Y, Z
... within MYPROC1 ...
PRINTLOG, LOG=LOG, "X = ", X
MYPROC2, LOG=LOG, L, B
... within MYPROC2 ...
PRINTLOG, LOG=LOG, "L = ", L
PRINTLOG, LOG=LOG, "B = ", B
```

The final trick is that you can globally turn the console output on or off by setting,

```
PRINTLOG, DEFAULT_PRINT=0
and later re-enable it with
PRINTLOG, DEFAULT_PRINT=1
```

Hope that helps!  
Craig

See the following web page for PRINTLOG,  
<http://cow.physics.wisc.edu/~craigm/idl/>

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