
Subject: Passing keywords to DLM

Posted by [jargoogle](#) on Sun, 08 Aug 2004 19:43:41 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hello,

I'm adapting Henry Chapman's DLM (itself modified from an earlier version) for calling the FFTW v3 fast fourier transform library.

Henry's dlm:

http://groups.google.com/groups?as_umsgid=b8f3f671.0312132158.5cda69f4@posting.google.com

I'm working on an Ultra Sparc 5 running Solaris 7 using IDL version 5.6 and Solaris compilers. So far, so good, except that only 2 of 7 keywords are recognized. Of the keywords, (X, Y, Z, MEDIUM, HI, OVERWRITE, and CLEANUP), only MEDIUM and HI are recognized.

All are treated as read only input boolean keywords. In the kw_pars[] array, they all look something like:

```
 {"X", IDL_TYP_LONG, 1, IDL_KW_ZERO|IDL_KW_VALUE|15, 0,
  IDL_KW_OFFSETOF(x)},
```

My IDL wrapper syntax looks something like:

```
dataOut = fftdft3D_IDL(dataIn, direction, [x=x, y=y, z=z,
medium=medium, $
      hi=hi, overwrite=overwrite, cleanup=cleanup])
```

The following perform as expected:

```
dataOut = fftdft3D_IDL(findgen(16,16,16), -1)
dataOut = fftdft3D_IDL(findgen(16,16,16), -1, /medium)
dataOut = fftdft3D_IDL(findgen(16,16,16), -1, /hi)
```

While no other option using the keywords works:

```
dataOut = fftdft3D_IDL(findgen(16,16,16), -1, /x)
% Loaded DLM: FFTDFT3D_IDL.
% Keyword X not allowed in call to: FFTDFT3D_IDL
% Execution halted at: $MAIN$
```

Now, I thought that perhaps there was an ambiguity with single letter keywords, but that doesn't explain why overwrite and cleanup are not recognized. They generate the same "not allowed" message.

Yet the keywords that are "not allowed" are all syntactically the same as far as the c-code declarations of kw_pars[] and KW_RESULT are concerned.

The DLM:
MODULE fftdft3D_IDL
DESCRIPTION 3-dimensional Complex fftw (v.3)
VERSION \$Revision: 1.0 \$
BUILD_DATE \$Date: Thu Aug 5 09:19:05 MDT 2004\$
SOURCE J. Roberts
FUNCTION fftdft3D_IDL 1 2 KEYWORDS

Any ideas?

Stumped,
JG.
