
Subject: I can call but will it come? (Debian)

Posted by [Mark Fardal](#) on Thu, 27 Apr 2000 07:00:00 GMT

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Hi,

does anyone have experience with Callable IDL on Debian? I can't get the example program to compile. I'm using IDL 5.2.1 now.

Here are the excruciating details...the problem seems to be the Motif libraries. The Makefile for calltest.c has this discouraging statement:

```
# Linux does not have bundled bundled Motif libraries. To build IDL
# you will need to install Motif on your system first. Although
# it is possible that Motif versions other than the one used by
# RSI for IDL might link and work work with IDL, it is equally likely
# that they won't. RSI cannot make any assurances other than the
# Motif version we used should work.
#
# Linux IDL is built using Red Hat Software's Motif 2.0.
```

The Makefile in fact doesn't work as given. libtermcap.a doesn't exist on Debian, so I substituted libncurses; that at least suppressed some error messages. There was no /usr/X11R6/lib/libXm.a or /usr/X11R6/include/Xm on my machine. I grabbed these from another Debian computer here. I don't know whether there are other files that are supposed to go along with these.

#RSI supplied makefile:

```
#LDFLAGS= -L$(BINDIR) -ldl -Wl,-rpath,. \
# -IMesaGLU -IMesaGL /usr/X11R6/lib/libXm.a -IXp -L/usr/X11R6/lib \
# -IXpm -IXext -IXt -ISM -lICE -lX11 -ldl -ltermcap -lm
```

#my attempt:

```
LDFLAGS= -L$(BINDIR) -ldl -Wl,-rpath,. -l/usr/X11R6/include/Xm \
-IMesaGLU -IMesaGL /usr/X11R6/lib/libXm.a -IXp -L/usr/X11R6/lib \
-IXpm -IXext -IXt -ISM -lICE -lX11 -ldl /lib/libncurses.so.4.2 -lm
```

When I try to compile the program now, I get these messages:

```
gcc -l/usr/local/rsi/idl_5.2/external -o calltest /usr/local/rsi/idl_5.2/external/callable/calltest.c
-L/usr/local/rsi/idl_5.2/bin/bin.linux -ldl -Wl,-rpath,. -l/usr/X11R6/include/Xm -IMesaGLU -IMesaGL
/usr/X11R6/lib/libXm.a -IXp -L/usr/X11R6/lib -IXpm -IXext -IXt -ISM -lICE -lX11 -ldl
/lib/libncurses.so.4.2 -lm
/usr/local/rsi/idl_5.2/bin/bin.linux/libidl.so: undefined reference to `XmeClearBorder'
/usr/local/rsi/idl_5.2/bin/bin.linux/libidl.so: undefined reference to `XmeGetTextualDragIcon'
/usr/local/rsi/idl_5.2/bin/bin.linux/libidl.so: undefined reference to `XmeDrawShadows'
/usr/local/rsi/idl_5.2/bin/bin.linux/libidl.so: undefined reference to `XmeNavigChangeManaged'
```

/usr/local/rsi/idl_5.2/bin/bin.linux/libidl.so: undefined reference to `XmeWarning'
/usr/local/rsi/idl_5.2/bin/bin.linux/libidl.so: undefined reference to `_XmChangeNavigationType'

Looking through libXm.a, see these symbols

_XmClearBorder [but no XmeClearBorder]

_XmGetTextualDragIcon [etc.]

_XmDrawShadows

_XmNavigChangeManaged

_XmWarning

and nothing with string ChangeNavigationType at all.

Does anyone know if a different version of Motif would solve this problem? Or know the significance of the prefixes Xme and _Xm? I'm unsure what Motif is anyway, and at this point am just thrashing around for ideas. I did search both the Debian and the Red Hat sites for Motif, but got only lists of peripheral packages that didn't seem to be what I needed.

thanks,

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