Subject: Newbie Mac PPC shared lib
Posted by Irene Barg on Thu, 02 Mar 2000 08:00:00 GMT
View Forum Message <> Reply to Message

Hello to all,

My development environment:
 Mac G4 450MHz 512MB RAM OS 9
       IDL 5.2 for Mac
 CodeWarrior V5 for Mac

I'm new to the Macintosh, however, after reading several
posts regarding "shared libraries" on this newsgroup, I was
able to get my code up and running. Now, I have a question.

Our UNIX users use IDL, Interactive Data Language, package
from RSI, for interactive analysis and visualization. We have
a set of C routines that we have been able to call from IDL
using the IDL CALL_EXTERNAL function which loads and calls
routines contained in shareable object libraries. My task was
to port this C code to the Macintosh environment so that our
Mac/IDL users could use it as well.

Inside my IDL procedure, I call a C routine with the following:

 s = CALL_EXTERNAL('calnica.shlb','do_cridcalc',nic,input,crimage)

Where:
  "calnica.shlb" is my PowerPC shared library created with CW.
  "do_cridcalc" is my entry point name to my shared code.
  "nic, input, crimage" are pointers to data.

I created "shlb" using CW PPC Std C Console stationary. The
code works, but, while it's running, I can't do anything else
with the Mac. Normally, one processes more than one image at
a time, so I have to free up the Mac, but how? This is not
a problem on the UNIX platform. I'm not certain if it's an
IDL or Mac problem. Any insight you may have will be most
appreciated.

Thanks,

-- irene

 -- ------
Irene Barg   Email: ibarg@as.arizona.edu
Steward Observatory Phone: 520-621-2602
University of Arizona FAX: 520-621-1891

Tucson, AZ 85721 http://nickel.as.arizona.edu/~barg
 --- ------