Subject: linkimage difficulties: mixed case and multiple libraries

Posted by Fred Knight on Wed, 07 Jul 1999 07:00:00 GMT

View Forum Message <> Reply to Message

I'd appreciate hearing about solutions to these problems.

1. I can't get linkimage to use a mixed-case function name under Solaris 2.
Here's a simple test:

```
name = 'openprot__7filebuf'
image = '/usr/lib/libC.so.3'
type = 1                    ; function
linkimage,name,image,type
name = 'oct__Fli'
image = '/usr/lib/libC.so.3'
type = 1                    ; function
linkimage,name,image,type
```

The first linkimage call works, but the second gives the error:

```
% LINKIMAGE: Error loading sharable executable.
        Symbol: oct__fli, File = /usr/lib/libC.so.3
        ld.so.1: /usr/local/idl/bin/bin.solaris2.sparc/idl: fatal:
oct__fli:
        can't find symbol
```

I think the problem is the uppercase F.

2. I can't get linkimage to work when symbols aren't completely resolved in one
library. Here's a simple test with a local library that calls other libraries

```
name = 'sdv_waitdone'
image = '/usr/local/astb/lib/libairi.so'
type = 1                    ; function
linkimage,name,image,type
```

The error message is:

```
% LINKIMAGE: Error loading sharable executable.
        Symbol: sdv_waitdone, File = /usr/local/astb/lib/libairi.so
        ld.so.1: /usr/local/idl/bin/bin.solaris2.sparc/idl: fatal:
relocation
        error: file /usr/local/astb/lib/libairi.so: symbol
        error_message_all_threads: referenced symbol not found
```

I don't have a solution for the first, except to use all lowercase. I can only
solve the second by putting all symbols in one library, but I would be
interested in a solution using LD_LIBRARY_PATH or something else. Possibly

answers to these questions are in the "Advanced Development Guide," which I
don't have, but I can't find any answers in the linkimage description in the
"Reference Guide."

Thanks, Fred
--
Fred Knight | knight@ll.mit.edu | 781 981 1053 | fax: 781 981 5359
C-490 | MIT Lincoln Laboratory | 244 Wood St. | Lexington, MA 02420-9108