
Subject: linkimage difficulties: mixed case and multiple libraries

Posted by [Fred Knight](#) on Wed, 07 Jul 1999 07:00:00 GMT

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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/ld/bin/bin.solaris2.sparc/ld: 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/ld/bin/bin.solaris2.sparc/ld: 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

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Subject: Re: linkimage difficulties: mixed case and multiple libraries

Posted by [m.konijnenburg](#) on Fri, 09 Jul 1999 07:00:00 GMT

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Hi,

In article <37837A15.D0681D93@ll.mit.edu>,

Fred Knight <knight@ll.mit.edu> wrote:

> I'd appreciate hearing about solutions to these problems.

>

> 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."

@Sorry, I can't help you with the linkimage problem. The documentation however can be downloaded from RSI's ftp server.

(ftp://ftp.rsinc.com/pub/idl_5.2/info/docs/)

The name has changed from "advanced development guide" to "external development guide" (edg.pdf).

If you have the sourcecode of the library you want to include, consider making a dynamic loadable module. It is a bit more work, but it works easier in IDL. This is the same way RSI incorporates new routines in IDL.

Best regards,

Marco

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