
Subject: LINKIMAGE, SunOS 5.4, IDL 5.4
Posted by [K Banerjee](#) on Thu, 03 Oct 2002 21:05:22 GMT
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Folks,

I have written some C/C++ functions to be used by our IDL programs. Under RedHat Linux, IDL 5.5a (as well as IDL 5.3), everything works as expected. The IDL command LINKIMAGE is used to load each of these external functions and procedures. However, under SunOS 5.4 (Sparc) and IDL 5.4, we get a segmentation fault when attempting to load the first function. Our linkimage call is:

```
linkimage, 'idlvbio_simple_function', 'idlvbio.so', 1, 'IDLVbio_Simple_Function', MAX_ARGS=0, MIN_ARGS=0
```

Here's the function (it simply returns 92):

```
extern "C" IDL_VPTR IDL_CDECL IDLVbio_Simple_Function(int argc, IDL_VPTR argv[], char *argk)
{
    return (IDL_GettmpLong(92));
}
```

In an appropriate header file, I have:

```
extern "C" IDL_VPTR IDL_CDECL IDLVbio_Simple_Function(int argc, IDL_VPTR argv[0], char *argk);
```

and an entry for this function in the array:

```
static VOXBO_IDL_DEF Vbio_functions[]
```

On the Sun box, we compile with gcc 2.95.3. After the segmentation fault, I examined the generated core file with gdb. From what I can tell (all the IDL libraries lacked symbolic info), the error occurred in the file `../gcc-2.95.3/frame.c`, line 627, which is:

```
case DW_CFA_set_loc:
```

Has anyone encountered this problem before? Has any had success with LINKIMAGE on a Sun with gcc (we need to use gcc)?

I looked in the index of IDL's External Development Guide, but found no relevant information. I searched the RSI TechTips, also to no avail.

Thanks.

