
Subject: Problems with CALL_EXTERNAL on AIX
Posted by [rivers](#) on Sat, 12 Sep 1992 04:28:19 GMT
[View Forum Message](#) <> [Reply to Message](#)

I am trying to use the call external routine on an IBM R/6000 machine running AIX 3.2 and IDL 2.3.2. I have succeeded in linking the following file as a shareable object library.

```
main()
{
}
```

```
test1(argc, argv)
    int argc;
    void *argv[];
{
    return(101);
}
```

```
test2(argc, argv)
    int argc;
    void *argv[];
{
    return(102);
}
```

I compile this with:
cc -c -bloadmap:test.map test.c -o test.o

and link it with
ld -o shrtest.o test.o -bE:shrtest.exp -bM:SRE -T512 -H512 -lc

where shrtest.exp contains:
#!
test1
test2

If I link this shareable object library to a main C program it works fine, test1 returns 101 and test2 returns 102.

However, when I try to call this from IDL I get the following:
; IDL Version 2.3.2 (AIX ibmr2)
; Journal File for rivers@xray1
; Working directory: /user/rivers
; Date: Sat Sep 12 00:05:48 1992

```
a = call_external('shrtest.o', '_test1')
print, a
```

```
;      101
a = call_external('shrtest.o', '_test2')
print, a
;      101
a = call_external('shrtest.o', 'zzzjunk')
print, a
;      101
```

It thus seems that IDL always calls the first function in the shareable object library no matter what the second argument to `call_external` is. The last call above should have given an IDL error.

Any idea what the problem is?

Mark Rivers

--

Mark Rivers	(516) 282-7708 or 5626
Building 815	rivers@bnlx26.nsls.bnl.gov (Internet)
Brookhaven National Laboratory	rivers@bnl (Bitnet)
Upton, NY 11973	BNLX26::RIVERS (Physnet)
