
Subject: External c calls broken in IDL 5.5

Posted by [Bob\[1\]](#) on Tue, 03 Sep 2002 20:52:38 GMT

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I have some dlm's that I made using DLMFORM (see <http://www.astro.uio.no/~steinhh/idl/dlmform.html>). They call fortran code through a c wrapper. They worked fine on IDL 5.3 and Tru64 Unix 5.0 but now that I've upgraded to IDL 5.5 and Tru64 Unix 5.1A they will no longer work (they core dump). I've tried remaking them and that doesn't help. Has anyone else had this problem?

So I've tried a really simple example (below) using call_external and just using c code and even the simple code that follows doesn't work (it should print out "n = 25" and "x = 3.14159"). Anyone have any ideas.

And last, is there a newer version of dlmform. I really like this routine but it is using some obsolete functions.

Thanks,
Bob

```
In test.c
#include <stdio.h>
#include "export.h"
```

```
void test(int argc, IDL_VPTR argv[])
{
    IDL_LONG n = argv[0]->value.l;
    printf("n = %i\n", n);
    float x = argv[1]->value.f;
    printf("x = %f\n", x);
}
```

I compile and link with:

```
cc -c -I/usr/local/rsi/idl/external -pthread test.c
ld -S -expect_unresolved '*' -shared -all -hidden -o test.so test.o
```

then trying it:

```
$ idl
IDL Version 5.5, Compaq Tru64 (OSF alpha). (c) 2001, Research Systems,
Inc.
IDL> n = 25I
IDL> x=!PI
IDL> help,n,x
N          LONG      =      25
X          FLOAT     =    3.14159
IDL> dum = call_external('./test.so', 'test',n,x)
```

```
n = 1074012760  
x = 0.000000  
IDL>
```
