
Subject: call_external segmentation fault

Posted by [sc.bugger](#) on Thu, 16 Aug 2007 00:36:49 GMT

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Are there some pitfalls in using 'call_external' of C libraries which were created by different gcc versions?

I have exactly the same code working on the one computer (linux x86 m32, gcc 3.4.5) and crashing on the other one (linux x86, m32, gcc 4.2.1). What can be the problem?

I use "gcc -fPIC -c mypro.c && ld -shared -o libmypro.so mypro.o"

Here is the code, nothing especially:

```
----- mypro.c -----  
#include <stdio.h>  
#include <math.h>  
#include "/opt/idl/external/include/idl_export.h"
```

```
int wsum(int argc, void *argv[])  
{  
    float *coeff, *xmax, *out, *xvalue;  
    IDL_MEMINT *nc, *nx, i,j;  
  
    wights = (float *)    argv[0];  
    nc  = (IDL_MEMINT *) argv[1];  
    nx  = (IDL_MEMINT *) argv[2];  
    xmax = (float *)    argv[3];  
    out  = (float *)    argv[4];  
  
    for (i=0; i<*nx; i++)  
    {  
        *xvalue = -*xmax + 2. * *xmax * i/(*nx-1);  
        *(out + i) = 0.;  
        for (j=0; j<*nc; j++)  
            *(out + i) += pow(*xvalue,j+1) * *(wights + j);  
    }  
  
    return 1;  
}
```

```
----- mytest.pro -----  
function mytest, wights, nx, xmax, out  
  
    return, call_external('libmypro.so','wsum',$  
        wights, $  
        n_elements(coeffs), $  
        nx, $  
        xmax, $
```

```
out, /f_value)
```

```
end
```

Thank you for any hint.

Vlad
