Subject: Re: call C routine on a Linux computer Posted by Steve[2] on Wed, 09 Feb 2000 08:00:00 GMT

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Shunrong Zhang wrote:

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> Hi,
>
 I was trying to call a simple C routine using call external, but failed.
  The C code file is sample.c (IDL 5.1 External Development Guide, p 108)
> #include <stdio.h>
> float sum_array(argc, argv)
> int argc;
> void *argv[];
> {
   float *fp, s = 0.0; int n;
   for(n = *(int *) argv[1], fp = (float *) argv[0]; n--;)
    s += *fp++;
   return(s);}
>
 I worked with a Linux computer, and the C compiler is gcc (v2.7). So I
  compiled and linked in the following way,
>
>
    cc -fPIC -c sample.c
>
    ld -shared -o sample.so sample.o
>
```

It looks like the problem is in your C compilation: when you use cc, use: cc -fPIC sample.c -o sample.o . gcc will output executable as 'a.out' unless you use the -o option. Is your compilation giving you a sample.o file?

```
>
> Then from IDL.
>
   X = FINDGEN(10)
>
   S = CALL EXTERNAL('sample.so', ' sum array' X, N ELEMENTS(X),
 /F_VALUE)
> There came out a message of syntax error.
> I changed the entry point name from '_sum_array' to 'sum_array', the
> same error message came out.
> What was my entry point name? Anything wrong in my above procedure?
```

```
> Thank you in advance!
```

> S.-R.