
Subject: Building sharable object libraries for CALL_EXTERNAL

Posted by [Octavi Fors](#) on Fri, 12 Mar 1999 08:00:00 GMT

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```
<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
```

```
<html>
```

Hello,

<p>This is my first trial calling a C-routine from IDL with CALL_EXTERNAL, and I have some problems with building <i>routine.so</i> file. It's just a test, so the routine it's very simple:

```
<p><font size=-1>#include &lt;math.h></font>
```

```
<br><font size=-1>#include &lt;stdio.h></font>
```

```
<br><font size=-1>#include &lt;stdlib.h></font>
```

```
<br><font size=-1>#include &lt;fcntl.h></font>
```

```
<br><font size=-1>#include &lt;sys/types.h></font>
```

```
<br><font size=-1>#include &lt;sys/stat.h></font>
```

```
<br><font size=-1>#include &lt;string.h></font><font size=-1></font>
```

```
<p><font size=-1>float** routine(argc,argv)</font>
```

```
<br><font size=-1>int argc;</font>
```

```
<br><font size=-1>void *argv[];</font>
```

```
<br><font size=-1>{</font>
```

```
<br><font size=-1>int n, x, y;</font>
```

```
<br><font size=-1>float *input;</font>
```

```
<br><font size=-1>float **output;</font>
```

```
<br><font size=-1>int i,j;</font><font size=-1></font>
```

```
<p><font size=-1>&nbsp;input = (float *) argv[0];</font>
```

```
<br><font size=-1>&nbsp;n=(int *) argv[1];</font>
```

```
<br><font size=-1>&nbsp;x=(int *) argv[2];</font>
```

```
<br><font size=-1>&nbsp;y=(int *) argv[3];</font><font size=-1></font>
```

```
<p><font size=-1>&nbsp;output=(float **)malloc(4*n);</font>
```

```
<br><font size=-1>&nbsp;for(i=0;i<=n;i++) output[i]=(float*)malloc(4*x*y);</font><font size=-1></font>
```

```
<p><font size=-1>for(j=0;j<=n;j++)</font>
```

```
<br><font size=-1>for(i=0;i<=x*y;i++)</font>
```

```
<br><font size=-1>output[j][i]=input[i];</font><font size=-1></font>
```

```
<p><font size=-1>return(output);</font>
```

```
<br><font size=-1>}</font>
```

<p>First, I try to create routine.o with:

```
<br><font size=-1>$ cc -pic -fsingle -c routine.c</font>
```


no problem.

<p>Second, when I try to create routine.so with:

```
<br><font size=-1>$ ld -o routine.so -z text routine.o (changing '-assert  
pure-text' to '-z text' because it's a SunOS Version 5.5.1)</font>
```

```
<br><font size=-1> Undefined                              &
```

```
&                              &                    &  
&                              &
```

first referenced

```
<br><font size=-1> &                              &
```


SPAIN

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