Subject: Call_External and Re-Compiling C programs
Posted by rmlongfield on Thu, 20 Aug 1998 07:00:00 GMT
View Forum Message <> Reply to Message

Hi Everyone,
I've had some suucess using CALL_EXTERNAL to input IDL data to a C program and recieve a result.

My problem is, when I use SPAWN to compile a C program, the executable is not redefined within IDL. When I edit the C program and wish to recompile, it doesn't work. I have to exit IDL to get rid of it.

The IDL program is as follows:

```
PRO test
sh_command = 'testfile.sh'
c_command = 'testp'
SPAWN,sh_command
x=23
y=33
result = CALL_EXTERNAL('testp.so','testp',x,y)
print,'Result passed to IDL: ',result
help,/routines
end
```

++++++The shell program testfile.sh is:

```
rm *.o
rm *.so
echo Object files removed
cc -c -KPIC testp.c
ld -shared -o  testp.so  testp.o  -lm
echo Finished compiling
# produces testp.o and testp.so
```

+++++++The output for all of this is:

```
IDL> test
Object files removed
Finished compiling
*_____________________________________________
*____Value of argc: 2
*____Value of argv: 23
*____Value of argv: 33
*_____________________________________________
```

Result passed to IDL: 56
Compiled Procedures:
$MAIN$
TEST

Compiled Functions:

Question: Does anyone know how to un-define the compiled procedures?

Thanks
Rose Dlh... (dlhopols@DELETE_THISknmi.nl)

-----== Posted via Deja News, The Leader in Internet Discussion ==-----
http://www.dejanews.com/rg_mkgrp.xp Create Your Own Free Member Forum

---

Subject: Re: Call_External and Re-Compiling C programs
Posted by David Foster on Mon, 24 Aug 1998 07:00:00 GMT
View Forum Message <> Reply to Message

rmlongfield@my-dejanews.com wrote:
>
> Hi Everyone,
> I've had some suucess using CALL_EXTERNAL to input IDL data to
> a C program and recieve a result.
>
> My problem is, when I use SPAWN to compile a C program, the
> executable is not redefined within IDL. When I edit the C program and wish to
> recompile, it doesn't work. I have to exit IDL to get rid of it.

As far as I know, there is no way to get around this. When you
recompile a shared-object module, you must exit IDL and start
over.

Dave
--

~~~~~~ ~~~~~~
David S. Foster Univ. of California, San Diego
Programmer/Analyst Brain Image Analysis Laboratory
foster@bial1.ucsd.edu Department of Psychiatry
(619) 622-5892 8950 Via La Jolla Drive, Suite 2240
La Jolla, CA 92037
~~~~~~ ~~~~~~
