
Subject: Re: getpid in Mac OS X

Posted by [Miguel Angel Cordoba](#) on Tue, 15 Jun 2004 09:22:44 GMT

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Thank you,

but the problem is that I need the PID off the process. If I execute three processes all of them needs his PID and with 'ps' list I think that it's not possible.

With the 'ps' method I can find the three PID's but I can't know who is his owner.

With the "call_external" method in all the programs I execute this to get the PID off the process.

SOLARIS:

```
my_pid=CALL_EXTERNAL('/lib/sparcv9/libc.so','getpid')
```

LINUX

```
my_pdi=CALL_EXTERNAL('/lib/i686/libc.so.6','getpid')
```

then the problem in Mac Os X is the error:

```
IDL>pid=CALL_EXTERNAL('/usr/lib/libc.dylib','getpid')
% CALL_EXTERNAL: Error loading sharable exectuble.
Symbol: getpid, FILE=/usr/lib/libc.dylib
not a Mach-O MH-BUNDLE file type
```

Any ideas?. Thank you.

M. Katz wrote:

> Miguel Angel Cordoba wrote:

>

>

>> Thank you,

>> but this solution only works if only one IDL process is running. In my

>> case there are 4 processes and I need all the PID's.

>>

>>

>

> OK, so all that takes is a few strokes of the pen...

> The function below returns a list. Below the code snippet is an

> example run.

> Note that this is Darwin (OS X) specific. It wouldn't take much to

> make it work on Linux.

>

> -----code-----

> function idl_pids

```

> pid = -1 ;--- default value appropriate for Mac, PC
>
> if (!version.os EQ 'darwin') then begin
>   spawn, 'ps', list
>   print, '-----'
>   print, list
>   print, '-----'
>   w = where((strpos(list, 'Applications') GT 0) $
>     and (strpos(list, 'idl') GT 0), count)
>   if (count LT 1) then begin
>     print, 'idl_pids error: no valid jobs'
>     return, -1
>   endif
>   pid = lonarr(count)
>   for i=0,count-1 do $
>     pid(i) = long( (strsplit(list(w(i)), ' ', /EXTRACT))(0) )
>   endif
>
> return, pid
> end
> ----- end of code -----
>
> IDL> print, idl_pids()
> -----
> PID TT STAT TIME COMMAND 11879 std Ss 0:00.06 -csh
> 11898 std S+ 0:03.54 /Applications/idl_6.0/bin/bin.darwin.ppc/idl
> 11947 std S+ 0:00.02 tcsh -c ps 11885 p2 Ss 0:00.06 -csh
> 11901 p2 S+ 0:03.36 /Applications/idl_6.0/bin/bin.darwin.ppc/idl
> 11891 p3 Ss 0:00.07 -csh
> 11894 p3 S+ 0:03.75 /Applications/idl_6.0/bin/bin.darwin.ppc/idl
> -----
> 11898 11901 11894
>
> Get rid of the print statements if you like.
> M. Katz
>
>
--

```

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