
Subject: idl process id
Posted by [csaute3](#) on Mon, 20 Apr 1998 07:00:00 GMT
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This is my setup:

```
IDL> help, !version, /str
** Structure !VERSION, 4 tags, length=32:
  ARCH      STRING  'sparc'
  OS        STRING  'sunos'
  OS_FAMILY STRING  'unix'
  RELEASE   STRING  '4.0.1'
IDL> print, getenv('SHELL')
/bin/tcsh
IDL> print, getenv('TERM')
xterm
```

I know that I can grab the IP address of my terminal this way:

```
IDL> print, getenv('DISPLAY')
255.255.255.255:0.0
```

How would I easily grab the process ID of my IDL session?

```
255.255.255.255:0.0
```

How would I easily grab the process ID of my IDL session?

I don't want to do "ps | grep idl" because of the result.

```
IDL> spawn,'ps | grep idl',result,/sh
IDL> print, result
23847 pd S    0:02 /usr/local/rsi/idl_4/bin/bin.sunos.4.1/idl
23852 pd S    0:00 sh -c ps | grep idl 23853 pd S    0:00 grep idl
```

There is an option on spawn to return the process ID:

```
IDL> spawn,'ps | grep idl',result,/sh,pid=processid
IDL> help, processid
PROCESSID    LONG    =    23852
```

But pid is for the child process. I would like the process id for the "parent process."

Cathy Campo

Subject: Re: idl process id
Posted by [David Foster](#) on Thu, 23 Apr 1998 07:00:00 GMT
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Eric J. Korpela wrote:

```
>  
> If you really feel lucky you can try something like.....  
>  
> IDL> ; check your libc version before doing this!  
> IDL> result=call_external('/lib/libc.so.1.9','getpid')  
> IDL> print,result  
>      23847
```

Whoa! Does this work in any general sense? Do you have suggestions for getting references on which routines are available in which libraries? How "safe" is this?

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  
~~~~~

Subject: Re: idl process id
Posted by [korpela](#) on Fri, 24 Apr 1998 07:00:00 GMT
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In article <353FB8D8.DE9@bial1.ucsd.edu>,
David Foster <foster@bial1.ucsd.edu> wrote:

```
>> IDL> result=call_external('/lib/libc.so.1.9','getpid')  
>> IDL> print,result  
>>      23847  
>
```

```
> Whoa! Does this work in any general sense? Do you have suggestions  
> for getting references on which routines are available in which  
> libraries? How "safe" is this?
```

It works for any libc routine that either takes no parameters, or takes zero or another small integer as the only parameter. For example time(0) works. That's because call_external uses an (argc,void *argv[]) calling system. In the above example the actual call that made is "getpid(0,some_random_pointer)". Since caller removes the arguments under most systems, this works as an equivalent of getpid().

As far as where routines are found, most general unix routines will be in libc. (i.e. anything that doesn't require libraries to be listed on the command line during a C compile.)

Eric

--

Eric Korpela | An object at rest can never be
korpela@ssl.berkeley.edu | stopped.
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