Subject: idl process id Posted by csaute3 on Mon, 20 Apr 1998 07:00:00 GMT

View Forum Message <> Reply to Message

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

----= Posted via Deja News, The Leader in Internet Discussion ==----http://www.dejanews.com/ Now offering spam-free web-based newsreading

Subject: Re: idl process id

Posted by David Foster on Thu, 23 Apr 1998 07:00:00 GMT

View Forum Message <> Reply to Message

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

Subject: Re: idl process id

Posted by korpela on Fri, 24 Apr 1998 07:00:00 GMT

View Forum Message <> Reply to Message

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. Click for home page.