
Subject: Re: idl process id

Posted by [steinhh](#) on Thu, 23 Apr 1998 07:00:00 GMT

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

```
> Does anyone know how to get this to work on a DEC alpha?
```

```
> I can't find a shared object version of libc in my /lib
```

```
> directory.
```

Look in /shlib instead:

```
IDL> result=call_external('/shlib/libc.so','getpid')
```

```
IDL> print,result
```

```
31185
```

With the easy-going way of adding new system routines that I found two days ago, just compile the below included C-code into a shareable object file (remember to link in \$IDL_DIR/bin/bin.alpha), initialize with

```
IDL> print,call_external('gmain.so','addmain')
```

and then you go:

```
IDL> print,getpid()
```

(This is perhaps not a good example of this utility - since it's possible to do this with a single-line call_external statement, but it does illustrate how easy it is to expand IDL by adding "built-in" routines that are able to return honest-to-RSI *variables*).

Regards,

Stein Vidar

```
-----gmain.c
```

```
#include <unistd.h>
```

```
#include <stdio.h>
```

```
#include "export.h"
```

```
#define NULL_VPTR ((IDL_VPTR) NULL)
```

```
IDL_VPTR GETPID(int argc, IDL_VPTR argv[])
```

```
{
```

```
    IDL_VPTR tmp = IDL_Gettmp();
```

```
if (tmp==NULL_VPTR) {
    IDL_Message(IDL_M_NAMED_GENERIC,IDL_MSG_LONGJMP,
"Couldn't create temporary variable");
}

tmp->type = IDL_TYP_LONG;
tmp->value.l = getpid();

return tmp;
}

IDL_SYSFUN_DEF main_def[] = {(IDL_FUN_RET) GETPID,"GETPID", 0, 0});

IDL_LONG addmain(int argc,char *argv[])
{
    IDL_AddSystemRoutine(main_def,IDL_TRUE,1); /* Just add getpid */
    return 0;
}
```
