
Subject: IDL procedure and function names
Posted by [cpaxson](#) on Thu, 07 Aug 2014 15:41:57 GMT
[View Forum Message](#) <> [Reply to Message](#)

Dear IDL Users,

I would like to print out the name of the procedure or function as the code executes. In C I'd add a line referring to `argv[0]`. Is there an equivalent in IDL such as `argv` or a `!System` variable?
Thanks.

Charles

Subject: Re: IDL procedure and function names
Posted by [Phillip Bitzer](#) on Thu, 07 Aug 2014 15:53:06 GMT
[View Forum Message](#) <> [Reply to Message](#)

Sorta.

Add this command your code:

MESSAGE, 'is starting', /CONTINUE, LEVEL=0

I use this from time to time - there's likely more sophisticated solutions out there.

Subject: Re: IDL procedure and function names
Posted by [Paul Van Delst\[1\]](#) on Thu, 07 Aug 2014 15:53:29 GMT
[View Forum Message](#) <> [Reply to Message](#)

On 08/07/14 11:41, cpaxson@cfa.harvard.edu wrote:

> Dear IDL Users,
>
> I would like to print out the name of the procedure or function as
> the code executes. In C I'd add a line referring to `argv[0]`. Is
> there an equivalent in IDL such as `argv` or a `!System` variable?

You can use the MESSAGE procedure, e.g.

```
pro testpro
  message, 'Entered...', /informational
  ; do stuff
end
```

```
IDL> testpro
% TESTPRO: Entered...
IDL>
```

I use this in concert with a debug keyword, e.g.

```
pro testpro, debug=debug
  if ( keyword_set(debug) ) then $
    message, 'Entered...', /informational
  ; Do stuff
end
```

You can also pass an empty string.

cheers,

paulv

Subject: Re: IDL procedure and function names
Posted by [cpaxson](#) on Thu, 07 Aug 2014 16:31:25 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Thursday, August 7, 2014 11:53:29 AM UTC-4, Paul van Delst wrote:

> On 08/07/14 11:41, cpaxson@cfa.harvard.edu wrote:

>

>> Dear IDL Users,

>

>>

>

>> I would like to print out the name of the procedure or function as

>

>> the code executes. In C I'd add a line referring to argv[0]. Is

>

>> there an equivalent in IDL such as argv or a !System variable?

>

>

>

> You can use the MESSAGE procedure, e.g.

>

>

>

> pro testpro

>

> message, 'Entered...', /informational

>

> ; do stuff

>

> end

>

>

>
> IDL> testpro
>
> % TESTPRO: Entered...
>
> IDL>
>
>
>
> I use this in concert with a debug keyword, e.g.
>
>
>
> pro testpro, debug=debug
>
> if (keyword_set(debug)) then \$
> message, 'Entered...', /informational
>
> ; Do stuff
>
> end
>
>
>
> You can also pass an empty string.
>
>
>
> cheers,
>
>
>
> paulv

Thank you very much paul and phillip

Subject: Re: IDL procedure and function names
Posted by [John Correia](#) on Thu, 07 Aug 2014 16:59:08 GMT
[View Forum Message](#) <> [Reply to Message](#)

On 08/07/2014 11:41 AM, cpaxson@cfa.harvard.edu wrote:

> Dear IDL Users,
>
> I would like to print out the name of the procedure or function as
> the code executes. In C I'd add a line referring to argv[0]. Is
> there an equivalent in IDL such as argv or a !System variable?

> Thanks.
>
> Charles
>

In David's absence I'll make a plug for cgWhoAmI

<http://www.idlcoyote.com/programs/cgwhoami.pro>

John

Subject: Re: IDL procedure and function names
Posted by [Bill Nel](#) on Thu, 07 Aug 2014 17:56:46 GMT
[View Forum Message](#) <> [Reply to Message](#)

You can also parse the output of "help, /traceback, output=callstack". If you turn this parsing code into a function, say, RoutineName(), you'll need to parse callstack[1] -- callstack[0] will be "RoutineName".

Subject: Re: IDL procedure and function names
Posted by [Michael Galloy](#) on Fri, 08 Aug 2014 00:37:21 GMT
[View Forum Message](#) <> [Reply to Message](#)

On 8/7/14, 9:41 am, cpaxson@cfa.harvard.edu wrote:

> Dear IDL Users,
>
> I would like to print out the name of the procedure or function as
> the code executes. In C I'd add a line referring to argv[0]. Is
> there an equivalent in IDL such as argv or a !System variable?
> Thanks.
>
> Charles
>

SCOPE_TRACEBACK is the way to tell what routine you are in.

Mike

--

Michael Galloy
www.michaelgalloy.com
Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)
Research Mathematician
Tech-X Corporation
