
Subject: Re: Function to return the current procedure/function
Posted by [David Fanning](#) on Sat, 05 Sep 2009 13:05:31 GMT
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maurya writes:

```
> Is there any function to return the current procedure/function name
> only not all?
>
> There is one function "ROUTINE_INFO" which provide information about
> all currently-compiled procedures and functions. But, I want to get
> the name of the procedure/function using a function (say Routine_Name)
> by calling in the same routine. e.g.
>
> Pro test_plot
>
>   plot,findgen(200)
>   ;
>
>   print, Routine_Name()
>
> end
>
> The print function should return 'test_plot'.
```

ProgramRootDir does this:

```
http://www.dfanning.com/programs/programrootdir.pro
```

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Function to return the current procedure/function
Posted by [Heinz Stege](#) on Sat, 05 Sep 2009 14:04:40 GMT
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On Sat, 5 Sep 2009 07:05:31 -0600, David Fanning wrote:

```
> maurya writes:
```

```

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>
> David

```

An alternative approach is the SCOPE_TRACEBACK function, which is part of IDL:

```

IDL> info=scope_traceback(/structure)
IDL> n=n_elements(info)
IDL> help,info[n-1],/structure
** Structure IDL_TRACEBACK, 8 tags, length=36, data length=36:
  ROUTINE      STRING  'DISPLAY'
  FILENAME     STRING  'C:\my_routines\display.pro'
  LINE         LONG    99
  LEVEL        LONG    1
  IS_FUNCTION  BYTE    0
  METHOD        BYTE    0
  RESTORED     BYTE    0
  SYSTEM       BYTE    0
IDL> print,'Routine name is: '+info[n-1].routine
Routine name is: DISPLAY

```

Heinz

Subject: Re: Function to return the current procedure/function
Posted by [maurya](#) on Sat, 05 Sep 2009 16:16:10 GMT
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On 5 Sep, 19:04, Heinz Stege <public.215....@arcor.de> wrote:

> On Sat, 5 Sep 2009 07:05:31 -0600, David Fanning wrote:

>> maurya writes:

>

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>>> only not all?

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>

>> David

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>

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> IDL> n=n_elements(info)

> IDL> help,info[n-1],/structure

> ** Structure IDL_TRACEBACK, 8 tags, length=36, data length=36:

> ROUTINE STRING 'DISPLAY'

> FILENAME STRING 'C:\my_routines\display.pro'

> LINE LONG 99

> LEVEL LONG 1

> IS_FUNCTION BYTE 0

> METHOD BYTE 0

> RESTORED BYTE 0

```
> SYSTEM      BYTE      0
> IDL> print,'Routine name is: '+info[n-1].routine
> Routine name is: DISPLAY
>
> Heinz
```

Thanks Heinz,

I was looking for such function.

The routine suggested by David is good for finding the root directory name.

I got the answer as follow:

```
.....
,,,,,,,,,,,,,
Function Routine_Name

  Info=scope_traceback(/structure)
  n=n_elements(Info)

  FullName=Info[n-2].FileName

  SP=Strpos(FullName,'\', /Reverse_Search)

  Proc=Strmid(FullName,SP+1,Strlen(FullName)-SP)

  Return,Proc

End

Pro Test_Plot

  Plot,Findgen(200)

  Print,Routine_Name()

End
.....
,,,,,,,,,,,,,

IDL> test_plot
Compiled module: ROUTINE_NAME.
test_plot.pro
```

Ram

Subject: Re: Function to return the current procedure/function
Posted by [Maarten\[1\]](#) on Mon, 07 Sep 2009 08:02:11 GMT
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On Sep 5, 6:16 pm, maurya <ramaury...@gmail.com> wrote:

```
> Function Routine_Name
> Info=scope_traceback(/structure)
> n=n_elements(Info)
> FullName=Info[n-2].FileName
>
> SP=Strpos(FullName,'\', /Reverse_Search)
>
> Proc=Strmid(FullName,SP+1,Strlen(FullName)-SP)
> Return,Proc
> End
```

Just a warning that will prevent a serious headache later on: instead of hard-coding the path delimiter to '\', you may want to use the function `path_sep()` instead. After all, there is only one operating system that uses '\' as a directory separator.

You may also have a look at the functions `file_basename()` and `file_dirname()`.

Best,

Maarten
