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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

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--  
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.")

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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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>
> Cheers,
>
> 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

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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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>>> end

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>>> The print function should return 'test\_plot'.

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>

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>> Cheers,

>

>> David

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> 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

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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](mailto: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

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