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Subject: RESOLVE\_ROUTINE not finding MEDIAN function?

Posted by [John Correia](#) on Fri, 17 Aug 2012 15:10:02 GMT

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Am I doing something wrong here? I want to use ROUTINE\_INFO on median (well it could be an arbitrary function name, but median is causing a problem), so I use RESOLVE\_ROUTINE first to make sure it is compiled, but it is not finding median ??? Must be something obvious I'm missing.

Thanks,

John

%%

```
IDL> resolve_routine, 'median', /EITHER, /COMPILE_FULL_FILE
% Attempt to call undefined procedure/function: 'MEDIAN'.
% Execution halted at: $MAIN$
```

```
IDL> print, median([1,2,3,4,5,6,7])
4.00000
```

```
IDL> resolve_routine, 'mean', /EITHER, /COMPILE_FULL_FILE
% Compiled module: MEAN.
```

```
IDL> resolve_routine, 'stddev', /EITHER, /COMPILE_FULL_FILE
% Compiled module: STDDEV.
```

```
IDL> resolve_routine, 'meanabsdev', /EITHER, /COMPILE_FULL_FILE
% Compiled module: MEANABSDEV.
```

```
IDL> resolve_routine, 'median', /EITHER, /COMPILE_FULL_FILE
% Attempt to call undefined procedure/function: 'MEDIAN'.
% Execution halted at: $MAIN$
```

```
IDL> help, !version, /STRUCTURES
** Structure !VERSION, 8 tags, length=104, data length=100:
ARCH      STRING  'x86_64'
OS         STRING  'linux'
OS_FAMILY  STRING  'unix'
OS_NAME    STRING  'linux'
RELEASE    STRING  '7.1'
BUILD_DATE STRING  'Apr 21 2009'
MEMORY_BITS INT     64
FILE_OFFSET_BITS
            INT     64
```

Subject: Re: RESOLVE\_ROUTINE not finding MEDIAN function?

Posted by [David Fanning](#) on Fri, 17 Aug 2012 15:19:20 GMT

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John Correia writes:

> Am I doing something wrong here? I want to use ROUTINE\_INFO on median  
> (well it could be an arbitrary function name, but median is causing a  
> problem), so I use RESOLVE\_ROUTINE first to make sure it is compiled,  
> but it is not finding median ??? Must be something obvious I'm missing.

MEDIAN is a system routine. It doesn't need to be compiled. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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Subject: Re: RESOLVE\_ROUTINE not finding MEDIAN function?

Posted by [John Correia](#) on Fri, 17 Aug 2012 15:39:35 GMT

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On 08/17/2012 11:19 AM, David Fanning wrote:

> John Correia writes:

>

>> Am I doing something wrong here? I want to use ROUTINE\_INFO on median  
>> (well it could be an arbitrary function name, but median is causing a  
>> problem), so I use RESOLVE\_ROUTINE first to make sure it is compiled,  
>> but it is not finding median ??? Must be something obvious I'm missing.

>

> MEDIAN is a system routine. It doesn't need to be compiled. :-)

>

> Cheers,

>

> David

>

>

>

So then I can't use ROUTINE\_INFO on it?

```
IDL> info = ROUTINE_INFO('median',/FUNCTIONS,/PARAMETERS)
% Attempt to call undefined procedure/function: 'MEDIAN'.
% Execution halted at: $MAIN$
```

I'm writing a procedure that you pass a function name to as a string parameter, and then that function is used later on in the procedure. I'm trying to include a check for cases where the caller includes keywords but the function does not accept keywords, most likely a user written function. The most obvious way seems to be ROUTINE\_INFO, i.e.

```
  takeskeywords =
  ((ROUTINE_INFO(funcname,/FUNCTIONS,/PARAMETERS)).NUM_KW_ARG S GT 0)
```

but it seems as if that does not work for system routines. Any other suggestions?

Thanks,

John

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Subject: Re: RESOLVE\_ROUTINE not finding MEDIAN function?  
Posted by [David Fanning](#) on Fri, 17 Aug 2012 15:59:23 GMT  
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John Correia writes:

> So then I can't use ROUTINE\_INFO on it?

Right. :-)

```
> IDL> info = ROUTINE_INFO('median',/FUNCTIONS,/PARAMETERS)
> % Attempt to call undefined procedure/function: 'MEDIAN'.
> % Execution halted at: $MAIN$
>
> I'm writing a procedure that you pass a function name to as a string
> parameter, and then that function is used later on in the procedure. I'm
> trying to include a check for cases where the caller includes keywords
> but the function does not accept keywords, most likely a user written
> function. The most obvious way seems to be ROUTINE_INFO, i.e.
>
>  takeskeywords =
>  ((ROUTINE_INFO(funcname,/FUNCTIONS,/PARAMETERS)).NUM_KW_ARG S GT 0)
>
>
> but it seems as if that does not work for system routines. Any other
```

> suggestions?

For system routines, you really have only two choices.

(1) Read the documentation and hardcode the information you need into your program, or (2) call the system routine and CATCH any program errors and handle it in whatever way is appropriate.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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Subject: Re: RESOLVE\_ROUTINE not finding MEDIAN function?

Posted by [John Correia](#) on Fri, 17 Aug 2012 16:14:46 GMT

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On 08/17/2012 11:59 AM, David Fanning wrote:

>

> For system routines, you really have only two choices.

> (1) Read the documentation and hardcode the information you

> need into your program, or (2) call the system routine and

> CATCH any program errors and handle it in whatever way is

> appropriate.

>

> Cheers,

>

> David

>

>

>

Thanks David.

John

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