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Subject: Re: debugging with new variables (dictionary, hash, ...)

Posted by [wlandsman](#) on Wed, 14 Jan 2015 22:19:07 GMT

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You could use the .STEPOVER (.SO) command. ("Unlike .STEP, if .STEPOVER executes a statement that calls another routine, the called routine runs until it ends before control returns to interactive mode.")

Or somewhat more tedious you could use .OUT once you enter into HASH or DICTIONARY to get out in one step.

Now you just have to assign .SO to a key (which I assume can be done but don't know how offhand).

--Wayne

On Wednesday, January 14, 2015 at 5:06:04 PM UTC-5, Helder wrote:

```
> Hi,
> I like to debug inserting breakpoints and then I like to use F5 or F6 (step-in and step-over) to go
> through the code.
> If you have some of the new variables in the code, it will be a painful clicking exercise...
>
> Here is a minimal example, that simulates what happens to me quite often...
>
> function retValue, inVar1, inVar2
> return, {inVar1:inVar1, inVar2:inVar2}
> end
>
> pro testDict
> d = dictionary('var', 5, 'new', 6)
> print, retValue(d.var, d.new) ;put a breakpoint on this line
> end
>
> Now run testDict and then suppose you would like to go in the function "retValue" by clicking F5
> (step-in). Well, good luck. It's going to take, in this example with two dictionaries, about 93 clicks
> of F5. Below is the terminal output.
>
> Is there any chance to see all of this disappear in the future?
>
> Regards,
> Helder
>
> PS: There are of course ways around this, like putting a new toggle point at the beginning of
> the procedure/function being called. However, the behavior does not fit with other IDL functions.
>
> % Stepped to: DICTIONARY::GETPROPERTY 13
> % Stepped to: DICTIONARY::GETPROPERTY 16
```

> % Stepped to: DICTIONARY::GETPROPERTY 18  
> % Stepped to: DICTIONARY::GETPROPERTY 19  
> % Stepped to: DICTIONARY::HASKEY 91  
> % Stepped to: DICTIONARY::HASKEY 93  
> % Stepped to: DICTIONARY::HASKEY 96  
> % Stepped to: DICTIONARY::HASKEY 99  
> % Stepped to: HASH::HASKEY 428  
> % Stepped to: HASH::HASKEY 430  
> % Stepped to: HASH::HASKEY 432  
> % Stepped to: HASH::HASKEY 435  
> % Stepped to: HASH::HASKEY 437  
> % Stepped to: HASH::HASKEY 440  
> % Stepped to: HASH::HASKEY 442  
> % Stepped to: HASH::HASKEY 443  
> % Stepped to: HASH::HASKEY 444  
> % Stepped to: HASH::HASKEY 445  
> % Stepped to: HASH::HASKEY 448  
> % Stepped to: HASH::HASKEY 449  
> % Stepped to: HASH::HASKEY 451  
> % Stepped to: DICTIONARY::GETPROPERTY 20  
> % Stepped to: DICTIONARY::GET 77  
> % Stepped to: DICTIONARY::GET 79  
> % Stepped to: DICTIONARY::GET 82  
> % Stepped to: DICTIONARY::GET 85  
> % Stepped to: HASH::GET 213  
> % Stepped to: HASH::GET 216  
> % Stepped to: HASH::GET 218  
> % Stepped to: HASH::GET 221  
> % Stepped to: HASH::GET 223  
> % Stepped to: HASH::GET 226  
> % Stepped to: HASH::GET 227  
> % Stepped to: HASH::GET 231  
> % Stepped to: HASH::GET 232  
> % Stepped to: HASH::GET 233  
> % Stepped to: HASH::GET 236  
> % Stepped to: HASH::GET 237  
> % Stepped to: HASH::GET 238  
> % Stepped to: HASH::GET 243  
> % Stepped to: HASH::GET 246  
> % Stepped to: HASH::GET 247  
> % Stepped to: HASH::GET 255  
> % Stepped to: HASH::GET 256  
> % Stepped to: HASH::GET 261  
> % Stepped to: HASH::GET 265  
> % Stepped to: DICTIONARY::GETPROPERTY 37  
> % Stepped to: DICTIONARY::GETPROPERTY 13  
> % Stepped to: DICTIONARY::GETPROPERTY 16  
> % Stepped to: DICTIONARY::GETPROPERTY 18

> % Stepped to: DICTIONARY::GETPROPERTY 19  
> % Stepped to: DICTIONARY::HASKEY 91  
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> % Stepped to: DICTIONARY::HASKEY 96  
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> % Stepped to: HASH::GET 261  
> % Stepped to: HASH::GET 265  
> % Stepped to: DICTIONARY::GETPROPERTY 37

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