Subject: Re: debugging with new variables (dictionary, hash, ...)
Posted by Helder Marchetto on Wed, 14 Jan 2015 22:28:48 GMT

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Hi,
I think that .SO and .OUT are the same as F6 and F7.
I tried in the IDLDE and it didn't work.
If you type .SO first, then it will (obviously) step over the line "print, retValue(...)". If you use F5 to step in (don't know what the command line option is), then you can't get out with .SO. With .OUT you go too far out!

Thanks anyway,
Helder

On Wednesday, January 14, 2015 at 11:19:10 PM UTC+1, wlandsman wrote:
> 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
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>> % Stepped to: DICTIONARY::GETPROPERTY   20
>> % Stepped to: DICTIONARY::GET   77
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>> % Stepped to: DICTIONARY::GET   82
>> % Stepped to: DICTIONARY::GET   85
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>> % Stepped to: HASH::GET   218
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>> % Stepped to: HASH::GET   236
>> % Stepped to: HASH::GET   237

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>> % 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
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>> % Stepped to: DICTIONARY::GETPROPERTY   37
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>> % Stepped to: HASH::GET          238
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>>  % 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
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