Subject: Re: debugging with new variables (dictionary, hash, ...) Posted by Jim Pendleton on Wed, 14 Jan 2015 22:25:15 GMT

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On Wednesday, January 14, 2015 at 3:19:10 PM UTC-7, 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 guite 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 % Stepped to: DICTIONARY::HASKEY % Stepped to: DICTIONARY::HASKEY 96 % Stepped to: DICTIONARY::HASKEY % 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 79 >> % Stepped to: DICTIONARY::GET % 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

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>> % Stepped to: DICTIONARY::GETPROPERTY
                                             18
>> % Stepped to: DICTIONARY::GETPROPERTY
>> % 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: HASH::HASKEY
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>> % Stepped to: HASH::HASKEY
                                 451
>> % Stepped to: DICTIONARY::GETPROPERTY 20
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>> % Stepped to: DICTIONARY::GET
                                   82
>> % Stepped to: DICTIONARY::GET
                                   85
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                               255
>> % Stepped to: HASH::GET
                               256
>> % Stepped to: HASH::GET
                               261
>> % Stepped to: HASH::GET
                               265
>> % Stepped to: DICTIONARY::GETPROPERTY 37
```

There's also a ".out" button that was added to the workbench toolbar in 8.1.

It would be nice if these classes could be shoved down to C code or the IDL source routines could be exposed instead of being hidden in a .sav file. If anyone can't think of something to get me for my birthday, this would do the trick.

Jim P.