Subject: debugging with new variables (dictionary, hash, ...)
Posted by Helder Marchetto on Wed, 14 Jan 2015 22:06:02 GMT

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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
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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
% 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::GETPROPERTY 20
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% 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