Subject: Bug(s) in debugger? Breakpoint stepping for nested HASH's. Posted by JDS on Thu, 22 Mar 2012 22:37:58 GMT

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Add a breakpoint to the foreach line in this:

hash=hash('foo',hash('a','twenty','b','thirty'), \$
'boo',hash('y','unicorn','z','pixie'))

foreach item,hash['boo'],itemname do begin print,itemname,': ',item endforeach

END

;=========

and attempt to step through. Two issues:

1) you must use .so to step "over" the hash calls (even implicit ones like hash indexing), since the debugger for some unknown reason steps *into* the opaque routine HASH, e.g.:

IDL> .s 1

% Stepped to: HASH::_OVERLOADBRACKETSRIGHTSIDE

Since we don't have source code to HASH, stepping into it seems rather unhelpful.

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- 2) you can't step through this loop to completion, although it compiles and runs cleanly. The complaint:
- % String expression not allowed in this context: ITEM.
- % Execution halted at: \$MAIN\$

This seems to be specific to iterating over a hash nested inside another one. I'd guess the debugger is rather confused about the new hash iteration in foreach.

JD