
Subject: Re: ROUTINE_NAMES and other magic
Posted by [Craig Markwardt](#) on Tue, 18 Apr 2000 07:00:00 GMT
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"R.Bauer" <R.Bauer@fz-juelich.de> writes:

> Craig Markwardt wrote:

>

>> One thing that ROUTINE_NAMES() (**note) cannot do is *add* variables
>> to another level. If the variable exists, then you can muck as much
>> as you want with it, but if it doesn't exist, sorry.

>

> You can add variables to another level.

> Try this!

>

>

>

> PRO DEEPSTOP, level

> IF level EQ 1 THEN BEGIN

> level = ROUTINE_NAMES(/LEVEL)

> varName = 'A'

> void = ROUTINE_NAMES(varName, STORE=(level+1), 8)

> ENDIF

> IF level EQ 2 THEN begin

> print,a

> STOP

> end

> deepstop, level + 1

> END

Ahhh, but I argue that your procedure works for the reasons I said before. The variable A already existed in the procedure because you used it in a statement ("print, a"). So you really were not *adding* the variable to the procedure.

Try this one:

PRO DEEPSTOP2, level

IF level EQ 1 THEN BEGIN

; a = 0

level = ROUTINE_NAMES(/LEVEL)

varName = 'A'

void = ROUTINE_NAMES(varName, STORE=(level+1), 8)

help

ENDIF

IF level EQ 2 THEN begin

help

STOP

end

```
    deepstop, level + 1
END
```

This procedure does not mention "A" explicitly anywhere, and I can't get beyond the first IF clause.

```
IDL> deepstop2, 1
% ROUTINE_NAMES: Variable is undefined: A.
% Execution halted at: DEEPSTOP2      5 /dev/tty
%                               $MAIN$
```

But, if you uncomment the "a=0" line above, then you can get further. What I find is that the value of A is set at **both** levels!

I am using an older version of IDL, 5.2. This tells me that the functionality of ROUTINE_NAMES continued to evolve between versions, and that you can't be guaranteed to be able to add new variables in older versions.

```
IDL> help, !version, /str
** Structure !VERSION, 5 tags, length=80:
  ARCH      STRING  'alpha'
  OS        STRING  'OSF'
  OS_FAMILY STRING  'unix'
  RELEASE   STRING  '5.2'
  BUILD_DATE STRING  'Oct 30 1998'
```

Craig

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Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
