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Subject: finding out if program exists (newproc.pro)

Posted by [stl](#) on Mon, 27 Jun 1994 11:32:38 GMT

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Hello,

there has been some discussion lately (actually since a while) that it is difficult to make sure that when you give a name to a routine, that the name you picked doesn't already exist.

Well, here at SMA, we have a program, newproc.pro, that helps us out with this. It takes one parameter, the name of the routine you would like to create. For example, if you want to create the program plot\_drop.pro, do the following:

```
idl>newproc,'plot_drop.pro'
```

if the file exists, a warning such as the following is displayed:

```
Procedure with the same name already exists in /tools/idl/lib/idlmeteo/pro
Please choose another name
```

If it doesn't exist, the template.pro program is copied into your current directory with the file name you requested. Then you can start editing, or simply exit, and edit the program at your leisure later. (see Using this, below, for a brief discussion of the template file.)

SHORT comings: until now, this routine doesn't check for routine names that come with the IDL system. SO if you typed newproc,'min.pro' the file min.pro will be created (in your current directory) despite the fact that min is a built in IDL function. So, if someone would like to add the functionality of checking for IDL system routine, it would be appreciated.

Using this:

The following line needs to be changed so that it contains the correct path to some header template, called template.pro, you use. If you currently use no template, I have included our template.pro at the end of this posting.

```
spawn, ['cp',!DIR+'lib/idlmeteo/pro/template.pro',proc], /NOSHELL
```

So make sure you change the above line. Then put this program in a directory that is in the IDL\_PATH, and place the template.pro program at the place you just indicated in the changed line above.

[illegible]

```

;
;+
; NAME:
; NEWPROC
;
;
; PURPOSE:
;   Creating of new procedure. Checks first if a procedure with the
;   same name already exists. If not the template.pro with the default
;   header will be loaded into the editor set by the environment
;   variable IMEDITOR (default is vi, if variable is not set).
;
; CATEGORY:
;   Help
;
;
; CALLING SEQUENCE:
;   newproc, 'procname'
;
;
; INPUTS:
;   procname    name of procedure to create
;
;
; OUTPUTS:
;   New procedure
;
; RESTRICTIONS:
;
;
; EXAMPLE:
;   newproc, 'create_table'
;
; SEE ALSO:
;   getpro
;
; MODIFICATION HISTORY:
;   Written by: Thomas.Oettli@sma.ch,   21-Dec-1992
;             16-May-1994, added current directory to
;             search path.
;
;-

```

## PRO newproc, proc

```

i=0
found = -1
editor = getenv("IMEDITOR")
cd, CURRENT=here
path = str_sep(!PATH+':'+here,':')
if strpos(proc, '.') EQ -1 then proc = proc + ".pro"

WHILE i LE n_elements(path)-1 AND found EQ -1 DO BEGIN
  cd, path(i)
  OPENR, 99, proc, ERROR = err
  CLOSE, 99
  IF (err EQ 0) THEN BEGIN
    found=1
  ENDIF
  i=i+1
ENDWHILE

if found EQ 1 then begin
  print, "Procedure with the same name already exists in ", path(i-1)
  print, "Please choose another name"
  print, " "
endif else begin
  cd, here
  spawn, ['cp',!DIR+'lib/idlmeteo/pro/template.pro',proc], /NOSHELL

if strlen(editor) NE 0 then spawn, [editor,proc], /NOSHELL $
  else spawn, ['vi',proc], /NOSHELL

endelse

END

```

okay, now here is a template.pro, which you will need (or use your own one)

```
; IDL rules
;
;
;
;
; CATEGORY:
;   Help
;
;
; CALLING SEQUENCE:
;
;
;
;
; INPUTS:
;
;
;
;
; OPTIONAL INPUTS:
;
;
;
;
; KEYWORD PARAMETERS:
;
;
;
;
; OUTPUTS:
;
;
;
; OPTIONAL OUTPUTS:
;
;
;
;
; COMMON BLOCKS:
;
;
;
; SIDE EFFECTS:
;
;
;
; RESTRICTIONS:
;
;
;
;
; PROCEDURE:
;
;
;
;
; EXAMPLE:
;
;
;
; SEE ALSO:
```

```
.  
;  
.  
;  
;  
; MODIFICATION HISTORY:  
; Written by: Your name here, Date.  
;  
;  
;  
;-  
;
```

```
--  
Stephen C Strebel          /    SKI TO DIE  
strebel@sma.ch            /    and  
Swiss Meteorological Institute, Zuerich / LIVE TO TELL ABOUT IT  
01 256 93 85              / (and pray for snow)
```

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