Subject: Temporary variables still checked out ... Posted by Martin Schultz on Thu, 22 Oct 1998 07:00:00 GMT View Forum Message <> Reply to Message

To all,

even after about an hour or so, I still cannot figure out why I get the error message "% Temporary variables are still checked out cleaning up..." with the program attached below. The idea of the program is to return a free logical unit number both as function result and parameter so that it can be used immediately as well as later on (like in OPEN\_FILE,name,get\_freelun(ilun) & free\_lun,ilun). Interestingly, the result itself is correct, and if you first open a file (e.g. with openr,1,name), then a subsequent call to get\_freelun yields no error message. I searched the online help but couldn't find anything.

Thanks for any input,

Martin.

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```
; $Id: get_freelun.pro,v 1.1 1998/10/09 19:53:32 mgs Exp mgs $
;+
```

### : NAME:

GET\_FREELUN (function)

#### PURPOSE:

Return next available logical unit number. Unlike the internal GET\_LUN procedure, this function is not restricted to unit numbers above 100, and it will detect any blocked unit number.

# **CATEGORY:**

I/O tools

#### **CALLING SEQUENCE:**

lun = GET\_FREELUN([LUN])

### **INPUTS:**

none

#### **KEYWORD PARAMETERS:**

none

### **OUTPUTS:**

The lowest available logical unit number. This number is also returned in the LUN parameter for later use.

#### SUBROUTINES:

**REQUIREMENTS:** 

NOTES:

## **EXAMPLE:**

openw,get\_freelun(lun),filename

#### MODIFICATION HISTORY:

mgs, 17 Sep 1998: VERSION 1.00

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; The copyright is granted if this program becomes part of the : IDL distribution.

; Bugs and comments should be directed to mgs@io.harvard.edu

```
; with subject "IDL routine get_freelun"
function get_freelun,lun
   help,/files,output=list
   newlun = 1
   lun = newlun
   ; at least one file open
  ; find lowest available unit number
   if (n_elements(list) gt 1) then begin
     ; maximum allowed number of open files exceeded?
     if (n_elements(list) gt 99) then $
        message, 'Cannot handle any more open files'
     ; extract numbers and compare to expectation
     for i=1,n_elements(list)-1 do begin
        usedlun = fix(strmid(list[i],0,3))
        if (usedlun gt i) then begin
          newlun = i
          lun = newlun
          return, newlun ; this one's free
        endif
     endfor
     ; next free unit is greater than all used ones
     newlun = i
     lun = newlun
     return,newlun
   endif else begin
                     ; no file opened
     return, newlun
   endelse
end
File Attachments
1) get_freelun.pro, downloaded 111 times
```