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Subject: Temporary variables still checked out ...

Posted by [Martin Schultz](#) on Thu, 22 Oct 1998 07:00:00 GMT

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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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Dr. Martin Schultz

Department for Engineering&Applied Sciences, Harvard University  
109 Pierce Hall, 29 Oxford St., Cambridge, MA-02138, USA

phone: (617)-496-8318

fax : (617)-495-4551

e-mail: [mgs@io.harvard.edu](mailto:mgs@io.harvard.edu)

Internet-homepage: <http://www-as.harvard.edu/people/staff/mgs/>  
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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

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```
; with subject "IDL routine get_freelun"  
;----- --
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```
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
```

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## File Attachments

1) [get\\_freelun.pro](#), downloaded 100 times

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