
Subject: writeu, printf, readu/f 2 file

Posted by [Sean Heukels](#) on Tue, 13 Mar 2001 15:56:35 GMT

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Can writeu, and printf be combined ?? in one write action.

Or is it the one or the other ?

I've been trying everything. The whole day and it still doesn't work.

What I want to do is write some txt and variables, that define the following data block and ofcourse the time and location, etc In the header. But somehow, the first line reads fine, but after that everything is garbled.

I think it has something to do with the different write/read statements

See sample code that is not working

I save a file with :

```
PRO SAVE_FILE, img, struct, outfile
if (NOT KEYWORD_SET(outfile) OR (outfile eq '')) then RETURN
if (NOT KEYWORD_SET(img)) then MESSAGE, 'Structure must be added :img'
if (NOT(STRMID(outfile, STRLEN(outfile)-3, 3) eq 'dif')) then
outfile=outfile+'.dif'
```

```
temp=string(sysTime())
```

```
tiepe = "dif";
versie = 1.0;
HEADERSTRUCT = {HEADERSTRUCT, filename:struct.filename, file:struct.file,
description:struct.description, date:temp, Location:"Invivonmr Utrecht"}
TXTSTRUCT = {TXTSTRUCT, orient:struct.orient, view:struct.view,
plot:struct.plot}
VARSTRUCT = {VARSTRUCT, ft:struct.ft, lro:struct.lro, lpe:struct.lpe,
te:struct.te, tr:struct.tr, ti:struct.ti, nro:struct.nro, npe:struct.npe, $
ns:struct.ns, nt:struct.nt, zf:struct.zf, zff_nro:struct.zff_nro,
zff_npe:struct.zff_npe, pss:struct.pss, thk:struct.thk, raw:struct.raw}
```

```
openw, unit, outfile, /get_lun ; Open file
```

```
point_lun, unit, 0L
```

```
; Point it at the start
```

```
printf, unit, tiepe
```

```
printf, unit, HEADERSTRUCT
```

```
printf, unit, versie
```

```
printf, unit, TXTSTRUCT
```

```
printf, unit, VARSTRUCT
```

```
for slice=0, struct.ns-1 do begin ; Slice loop
```

```

    for tp=0, struct.nt-1 do begin    ; Time-point loop
    for np=0,struct.npe-1 do begin    ; Multi-slice loop
        writeu, unit, struct.data(*, np, tp, slice) ; Write the block header
    endfor
    endfor
endfor

```

```

free_lun, unit

```

```

UNDEFINE, TYPE
UNDEFINE, VERSION
UNDEFINE, HEADERSTRUCT
UNDEFINE, TXTSTRUCT
UNDEFINE, VARSTRUCT

```

```

struct.raw=0
img.saved=1
img.filename=outfile
RETURN
END

```

AND READ WITH :

```

PRO READ_FILE, img, struct, infile
if (NOT KEYWORD_SET(infile) OR (infile eq "")) then RETURN
if (NOT KEYWORD_SET(img)) then MESSAGE, 'Structure must be added :img'

```

```

tiepe  = "
versie  = 0.0
HEADERSTRUCT = {HEADERSTRUCT, filename:"", file:"", description:"", date:"",
Location:""}
TXTSTRUCT = {TXTSTRUCT, orient:"", view:"", plot:""}
VARSTRUCT = {VARSTRUCT, ft:0, lro:0.0, lpe:0.0, te:0.0, tr:0.0, ti:0.0,
nro:0, npe:0, ns:0, nt:0, zf:0, zff_nro:0, zff_npe:0, pss:0.0, thk:0.0,
raw:0}

```

```

openr, unit, infile, /get_lun
point_lun, unit, 0L

```

```

readf, unit, tiepe
readf, unit, HEADERSTRUCT
readf, unit, versie

```

```

if (NOT (tiepe eq 'dif')) then begin
img.error='Sorry, only .dif files can be opened. .fids must be imported'
free_lun, unit

```

```

RETURN
endif
if (versie gt 1.0) then begin
img.error='File version exceeds this modules read capatibility.
Version: '+format(TYPE)
free_lun, unit
RETURN
ENDIF

help, tiepe, versie
help, HEADERSTRUCT, /st

readf, unit, TXTSTRUCT
readf, unit, VARSTRUCT

NEW_FID, struct, VARSTRUCT.nro, VARSTRUCT.npe, VARSTRUCT.nt, VARSTRUCT.ns

all_tags = TAG_NAMES(HEADERSTRUCT)
for w=0, N_ELEMENTS(all_tags)-1 do begin
  if (all_tags[w] ne 'data') then struct.(w) = HEADERSTRUCT.(w)
endfor
all_tags = TAG_NAMES(TXTSTRUCT)
for w=0, N_ELEMENTS(all_tags)-1 do begin
  if (all_tags[w] ne 'data') then struct.(w) = TXTSTRUCT.(w)
endfor
all_tags = TAG_NAMES(HEADERSTRUCT)
for w=0, N_ELEMENTS(all_tags)-1 do begin
  if (all_tags[w] ne 'data') then struct.(w) = VARSTRUCT.(w)
endfor

for slice=0, struct.ns-1 do begin  ; Slice loop
  for tp=0, struct.nt-1 do begin  ; Time-point loop
    for np=0,struct.npe-1 do begin  ; Multi-slice loop
      readu, unit, struct.data(*, np, tp, slice); Write the block header
    endfor
  endfor
endfor

free_lun, unit

img.filename=infile  ; Set for the img structure
img.slice=1
img.timepoint=1
img.saved=1
END

```

BUT its not working

Any help appreciated

greet's Sean
