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 firt 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 capatibilty.
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

greets Sean