

Hi

I think something like that. I'm not sure, that it's best way

PRO DIFFSIZEARRAYS

```
;opening src files
path1='D:\Work\IDL\DiffSizeArrays\data\file1.txt'
path2='D:\Work\IDL\DiffSizeArrays\data\file2.txt'
outPath='D:\Work\IDL\DiffSizeArrays\data\result.txt'

OPENR,lun1,path1,/GET_LUN
OPENR,lun2,path2,/GET_LUN

;init
array1=""
array2=""
line=""

;reading file1
WHILE NOT EOF(lun1) DO BEGIN
  READF,lun1, line
  array1 = [array1, line]
ENDWHILE
array1=array1[1:.*]

;reading file2
WHILE NOT EOF(lun2) DO BEGIN
  READF,lun2, line
  ;cut useless information; we will be have only julianday and average data
  tmp=STRSPLIT(line,/EXTRACT)
  line=tmp[0]+' '+tmp[3]
  array2 = [array2, line]
ENDWHILE
array2=array2[1:.*]

;open file for write
OPENW,lun3,outPath,/GET_LUN

;preparing data and merge data.
sz1=SIZE(array1)
sz2=SIZE(array2)
;only AVERAGE
headerFile=STRSPLIT(array2[0],/EXTRACT)
;headerFile[1]='AVERAGE'and print header for result file
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```
PRINT,array1[0],headerFile[1]
PRINTF,lun3,array1[0],headerFile[1]
FOR I=1,sz1[1]-1 DO BEGIN
  FOR J=0,sz2[1]-1 DO BEGIN
    tmp1=STRSPLIT(array1[I],/EXTRACT)
    tmp2=STRSPLIT(array2[J],/EXTRACT)
    IF (tmp1[0] EQ tmp2[0]) THEN BEGIN
      PRINTF,lun3,array1[i],tmp2[1]
      PRINT,array1[i],tmp2[1]
    ENDIF
  ENDFOR
ENDFOR

;closing files
FREE_LUN,lun1,lun2,lun3
END
```

regards
