Subject: Re: Comparison between arrays with different lenght
Posted by skymaxwell@gmail.com on Thu, 10 Jul 2014 08:50:27 GMT
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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
```

```
  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
