
Subject: Re: compare ascii files, EOF
Posted by [R.Bauer](#) on Mon, 29 Jul 2002 10:48:09 GMT
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Wolfgang Koppe wrote:

>
> Hi,
> I'm trying to compare 2 ascii-files with the "where"-function to get to
> know which rows are equal. Both files have different lengths. The
> query starts at row 1 and stops at the end of the shorter file. But I
> would like to query till the end of the longer file.
> I've tried it with the EOF-function, but it doesn't work.
>
> file1 file2
> 2451823.5034722 2451823.5041666
> 2451823.5041666 2451823.5173111
> 2451823.5048611 2451823.5243056
> 2451823.5055555 2451823.5069444
> 2451823.5062500 .
> 2451823.5069444
> 2451823.5076389
> 2451823.5083333
> .
> .
> Can you help to query the whole file.
>
> thanks.
> Wolfgang

Dear Wolfgang

you can use our which_indices routine

```
;
;
; EXAMPLE:
; result=which_indices([10,2,3,20,4,12],[10,20,30])
; print,result
; 0      3
;
```

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/which_indices.tar.gz

for further routines and licensing please have a look at
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html

regards

Reimar

--

Reimar Bauer

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a IDL library at Forschungszentrum Juelich

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html

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Subject: Re: compare ascii files, EOF
Posted by [R.Bauer](#) on Mon, 29 Jul 2002 10:53:41 GMT
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Wolfgang Koppe wrote:

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regards

Reimar

--

Reimar Bauer

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Subject: Re: compare ascii files, EOF
Posted by [Paul Van Delst\[1\]](#) on Mon, 29 Jul 2002 14:50:12 GMT
[View Forum Message](#) <> [Reply to Message](#)

Reimar Bauer wrote:

>

> Wolfgang Koppe wrote:

>>

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> ; result=which_indices([10,2,3,20,4,12],[10,20,30])
> ; print,result
> ; 0      3
> ;
```

Make sure you check for a (difference < precision) rather than an equality though.

paulv

--

Paul van Delst
CIMSS @ NOAA/NCEP/EMC Beer is good.
Ph: (301)763-8000 x7274 My wife.
Fax:(301)763-8545

Subject: Re: compare ascii files, EOF
Posted by [Craig Markwardt](#) on Mon, 29 Jul 2002 15:22:19 GMT
[View Forum Message](#) <> [Reply to Message](#)

c7kowo@geogr.uni-jena.de (Wolfgang Koppe) writes:

```
> Hi,
>
> know which rows are equal. Both files have different lengths. The
> query starts at row 1 and stops at the end of the shorter file. But I
> would like to query till the end of the longer file.
```

As Reimar has pointed out, you can use a set-comparison function, like `setdiff`, or like my `CMSET_OP`. However this can be dangerous in the presence of floating point numbers since you will hit precision issues.

I would have said that if your files are in time order, and small enough, then using a `FOR` or `WHILE` loop may be appropriate. Unfortunately your `file2` has values out of time order.

Another possibility is to combine the two files into one array, `SORT()` them, and look for pairs of values that are close. You will also have to maintain a secondary array describing the source of the value (1 or 2). Internally this is what `CMSET_OP` does.

Good luck,
Craig

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
