
Subject: Re: Finding the Non-Matching elements in two vectors
Posted by [David Fanning](#) on Thu, 11 Apr 2002 20:25:34 GMT
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Nate Doyle (doyle@lasp.colorado.edu) writes:

> I'm pretty new to this whole IDL thing and was wondering if some of
> you could give me some help finding a solution to a little problem I'm
> having.
> The problem is this:
> I have three files that contain some data and I need to make sure that
> they all have the same amount. I have extracted a bunch of integers
> from each file and put them into vectors, one for each file. The
> numbers should match up because they are the days on which the data
> was collected and are consistant through out. The end result of my
> program is to make sure that the third file basically contains a list
> of all the matching elements of the first two. Or since I feel like
> I'm not being clear:
>
> It should be like this when I match the vectors up.
>
> File one: 2 7 9 10 15 17....
> File two: 2 7 9 10 15 17....
>
> File one: 2 7 9 10 15 17....
> File three: 2 7 9 10 15 17....
>
> Unfortunately its not because there are some elements not in the third
> file that are in the other two. So when I match the vectors together
> I get that file one and file two match 16 elements and file one and
> file three match 14 elements. With this few mis-matched elements I
> can easily print the data and read through it. This 2 element
> difference, however, is only over a loop of about 150 data points and
> I have 3800 total to calculate. As you can imagine trying to sift
> through that much data visually would be worse than tedious. So I
> appeal to you folks to give me a hand with finding a quick print out
> of all the non-matching days so that I find out where I need to patch
> up holes in my data file.

Try the SetDifference function described on this page:

http://www.dfanning.com/tips/set_operations.html

Cheers,

David

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David W. Fanning, Ph.D.

Subject: Re: Finding the Non-Matching elements in two vectors
Posted by [R.Bauer](#) on Sun, 14 Apr 2002 14:57:07 GMT
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Nate Doyle wrote:

>
> Hi there,
> I'm pretty new to this whole IDL thing and was wondering if some of
> you could give me some help finding a solution to a little problem I'm
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> The problem is this:
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> File two: 2 7 9 10 15 17....
>
> File one: 2 7 9 10 15 17....
> File three: 2 7 9 10 15 17....
>

Dear Nate,

we have several of routines for such kind of problems.
For this case you asked you can try our:

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

There are some more Routines like
[a_not_b.pro](#) [a_or_b.pro](#) [a_xor_b.pro](#)

Please have a look at
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html too.

regards

Reimar

--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-I)
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de

a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

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