Subject: Re: Vector comparison.

Posted by R.Bauer on Thu, 20 Nov 2003 01:50:04 GMT

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### hunter wrote:

```
Hello,
These seems to be a fairly simple problem but I'm having difficulty coming
up with an elegant solution.
Let's say I have two vectors of type integer:
A=[0,1,3,3,3,6,7,9,9]
B=[3,7]
Dear Eli
```

## Here are some useful routines

```
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl _html/dbase/download/a_and_b.tgz http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl _html/dbase/download/a_or_b.tgz http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl _html/dbase/download/a_not_b.tgz http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl _html/dbase/download/a_xor_b.tgz http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl _html/dbase/download/veklogik.tgz http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_ html/dbase/download/indexlogic.tgz
```

#### veklogic

This function applies different boolean operators to two vectors. It's a wrapper for the functions a\_and\_b, a\_or\_b, a\_xor\_b, a\_not\_b

# indexlogic

This function applies different boolean operators to two index vectors. This routine is much faster then VekLogik but can only used with index vectors.

For some more routine please have a look at http://www.fz-juelich.de/icg/icg-i/idl\_icglib/idl\_lib\_intro. html

# regards

### Reimar

```
> I would like to design a function which returns the indices of all the
  elements of A which appear in B.
>
  i.e.
>
  C=get_match(A,B)
>
  should return
>
  C=[2,3,4,6]
>
  The simplest answer (I believe) is to loop through B and use the where
  command. I just wonder if there is a way to do this without useing the
  loop, as (in reality) the length of B may be very large.
>
  I suppose another possibility is to use the histogram command with
  reverse_indices set. But I think this would still require me to use a
> loop. Although it may be faster since I would only have to call histogram
  once. Any thoughts?
> Thanks,
> Eli
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http://www.fz-juelich.de/icg/icg-i/
a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html
```