
Subject: Array comparison

Posted by [Sean Raffuse](#) on Tue, 01 Oct 2002 22:08:24 GMT

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Hello,

I would like to compare two arrays of different size. What I want to know is if the two arrays share ANY of the same values, regardless of index.

e.g.

Array1 = [1,2,3,4,5]

Array2 = [5,6,7]

Comparing these two arrays should return true because they both have the value 5.

I know I could do this in a loop, but I need the speed and I'm sure IDL can do this in one line. I'm just not sure how.

Thanks,

Sean Raffuse

Subject: Re: Array Comparison

Posted by [Craig Markwardt](#) on Wed, 26 Jul 2006 15:42:23 GMT

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ChristopherFlorio@gmail.com writes:

> I am looking for a simple comparison tool such with an array of
> consecutive numbers (i.e. [0,1,2,3,4,5,6,7,8,9]) and array of numbers
> included in that array (i.e. [0,5,9]) I can calculate the matrix of
> "left-over" items (i.e [1,2,3,4,6,7,8]). This can be either array of
> integers or strings. Any Suggestions?

You could use my set manipulator. For example, in your A AND NOT(B) case,

```
IDL> a = [0,1,2,3,4,5,6,7,8,9]
```

```
IDL> b = [0,5,9]
```

```
IDL> print, cmset_op(a, 'AND', /NOT2, b)
```

```
1 2 3 4 6 7 8
```

or

```
IDL> print, cmset_op(a, 'XOR', b)
```

```
1 2 3 4 6 7 8
```

Hope that helps!

Craig

P.S. Please see <http://cow.physics.wisc.edu/~craigm/idl/> under "Array/Set"

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