
Subject: Re: Extract Array positions for a set of Values
Posted by [Jeremy Bailin](#) on Wed, 09 Mar 2011 14:37:33 GMT
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On Wednesday, March 9, 2011 5:48:42 AM UTC-5, Paul Magdon wrote:

> Hi,
> have a quite simple problem for which I can find a fas solution:
>
> 1.) I have an IntArray A (e.g a result from LABEL_REGION)
>
> 1 1 1 1 0 0 0
> 1 1 1 1 0 0 2
> 0 0 0 0 9 0 2
>
> 2.) I have a vector B with Integers (e.g. 1,2,9)
>
> Now I want to extract the positions of B in A and set all values in A which are included in B to
let's say 99. How can I do this without a loop?
> I tested HISTOGRAM(,REVERSE_INDICES) but as B is not consecutive (e.g 1,2,3,4) I can't
find a solution.
>
> Cheers Paul

I'd try remapping the values so that B is consecutive, and then use value_locate (come on, you
knew it was coming...) to figure out if it's in B or not.

```
b_sorted = b[sort(b)]  
locations = WHERE(b_sorted[VALUE_LOCATE(b_sorted, a)] EQ a, nlocations)  
IF nlocations GT 0 THEN a[locations]=99
```

-Jeremy.
