
Subject: Re: newbie question on array manipulation
Posted by [ben.bighair](#) on Tue, 05 May 2009 13:24:49 GMT
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On May 5, 7:53 am, "ben.bighair" <ben.bigh...@gmail.com> wrote:

> On May 5, 7:40 am, jpardila <blu...@gmail.com> wrote:

>

>> What is the best way to manipulate one array and remap its values

>> according to conditions?

>> Let's say I have a 2-d array, for all the elements equal to 5 I want

>> to change their values to 0. For values equal to 10 I want to convert

>> to 1 and so on. I am really confused and don't know if to use IF,

>> where, for or while. Thanks for answering this basic one.

>> JP

>

> Hi,

>

> The simplest is to use where - don't forget to use the output COUNT

> argument shown here as "na".

>

> a = WHERE(array EQ 10, na)

> if (na GT 0) then array[a] = 1

>

> If you are doing a multiple replacements (of different values) in a

> single array then you'll want to strap your sneakers on and use

> HISTOGRAM with it's REVERSE_INDICES output keyword.

See http://dfanning.com/tips/histogram_tutorial.html for more on that - it

> is the swiss knife of IDL.

>

Hi again,

Another thought after a cup of coffee... if your application uses floating point values instead of integers then you should search this news group for info on how to test for equality with floats (single or double precision).

Cheers (again),
Ben
