Subject: Re: Array comparison part 2
Posted by Dick Jackson on Thu, 03 Oct 2002 16:33:24 GMT
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"Sean Raffuse" <sean@me.wustl.edu> wrote in message
news:anhkqb$ipf$1@newsreader.wustl.edu...
> Thanks for all the help on my first question. I now have a related
> question.
> What is the best (read: fastest) way to do the following:
>
> I have an array of coordinates, A = intarr(2,25)
> and I have another array of a specific location, B = [125,1043]
>
> I would like to determine if location B is one of the coordinates in
A. I
> need to know if A[*,?] = 125, 1043
> Is it possible to do this without splitting A?
Oh, sure. Using the "replicate data rather than loop" principle, we
stretch B to be the same shape as A, then compare. Try this:
nCoords=25
a=indgen(2,nCoords)
b = [4,5]
print, Total (Total (a EQ (Rebin (b, 2, nCoords)), 1) EQ 2) GT 0
(result is 1, there is a match)
b=[4.6]
print, Total (Total (a EQ (Rebin (b, 2, nCoords)), 1) EQ 2) GT 0
(result is 0, there is no match)
To find *which* one(s) it matches, look at the inner part:
Total(a EQ (Rebin(b, 2, nCoords)), 1) EQ 2
This will be 1 where 'a' matches a pair of 'b' entries, use Where to
find which one (or more) it matches.
Cheers.
-Dick
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