Subject: Re: remove duplicates WITHOUT sorting Posted by Vince Hradil on Wed, 14 Feb 2007 15:32:45 GMT

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On Feb 13, 9:18 am, "rpert...@gmail.com" <rpert...@gmail.com> wrote:
> On Feb 12, 4:15 pm, JD Smith < jdsm...@as.arizona.edu> wrote:
>
>
>> On Mon, 12 Feb 2007 09:04:45 -0800, rpert...@gmail.com wrote:
>>> Hello All,
>>> I have an array of 2xn which is a list of coordinates (x,y positions)
>>> and I need to remove any duplicates in this array. Since they are x,y
>>> coordinates I cannot really sort the array, hence cannot use the Uniq
>>> function. Is there another way of doing this?
>
>> It's easiest to recast as 1D. HIST 2D (or HIST ND) does this for you, but
>> it's easy to do yourself:
   index=x + (max(x)+1)*y
>
>> and then using UNIQ on this list of indices should give you the row
>> positions of unique coordinates. HISTOGRAM can work as well (either
>> with HIST_ND, or by first constructing this index vector above), and
>> it will be faster, but, as usual, will consume lots of memory (and
>> potentially be very slow) if your coordinates are sparsely sprinkled over
>> a large range of values (your current example is somewhat sparse, but not
>> horrible). UNIQ, with its SORT based implementation, doesn't suffer from
>> that issue.
>
>> JD
>
> Thank You All for responding.
 I basically did sort in the end, but sorted the x coords and
> corresponding y coords stayed with
 its pair. Then did a shift to eliminate recurrences:
>
> SortIndex=Sort(AllCoords[0,*])
> for j=0,1 Do AllCoords[j,*] = AllCoords[j,sortindex]
> Print, "Sorted All Cords is", All Coords
> print,''
>
> B=AllCoords - Shift(AllCoords,2)
> print,''
> C=AllCoords[*,where(B[0,*] ge 0.5 or B[1,*] ge 0.6)]
> csize=size(C,/dimensions)
> print,'size c' ,csize[0],csize[1]
```

So did you try the cast-to-complex, recast-to-float approach?

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