Subject: Re: how to find continuous regions Posted by Michael Galloy on Mon, 11 Feb 2008 17:49:42 GMT

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On Feb 11, 10:16 am, Mark <astrobo...@gmail.com> wrote:
> Hello.
>
> Does anyone know of any code that finds continuous regions? To be more
> exact:
>
> I have a 3D dataset, say 64x64x64. Within this array, many entries
> will be 1, some will be zero. Is there an easy way to identify all the
> groups of array elements equal to 1 which lie adjacent to each other?
>
 For a 1D dataset this is what I'm looking for:
>
first
                   second
                                  third
>
> So, there are three continuous regions. (I don't care about isolated
> I'd like to have an array (arr2) returned where I'd have something
>
> arr = [0, 1, 1, 0, 0, 0, 1, 1, 1, 0, 0, 0, 1, 1, 1, 1, 1, 0, 0, 0, 0]
> arr2=[0, 1, 1, 0, 0, 0, 2, 2, 2, 0, 0, 0, 3,3, 3,3,3, 0, 0, 0, 0]
>
> As I said, I need such a thing for a 3D array....
> I expect I'm looking at recursive routines which I've always had
> trouble getting my mind around. I'd rather not re-invent the wheel if
> I can avoid it.
Check out LABEL_REGION.
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