Subject: Re: Collection of different sized arrays
Posted by David Fanning on Sun, 17 Jan 2010 13:10:54 GMT

Robin Wilson writes:

> I have a suspicion that this question may have been asked before, but I
> can't seem to find the answer in the achives of this group. Possibly I'm
> not searching using the right keywords...
>
> Basically, I need to keep a collection of different sized arrays. I am
> writing an image segmentation routine, which will take an image and
> split it into segments. I need to keep track of which pixels in the
> image are in each segment. My thought is that I'll have an array for
> each segment which will contain the indices of the pixels within that
> segment. However, I can't work out how to store this collection of
> arrays in IDL, as each array will be a different length, and I won't
> know the number of segments or the lengths of the arrays at
> compile-time. Also, to add to the fun, the pixels in each segment are
> likely to change during the segmentation process...
>
> I have a suspicion the answer may involve pointers, or objects
> (possibly?) or something like that, but I'm not really sure.

Yes, use a pointer array. Each pointer in the array
can point to whatever you would like it to point to.
You can change whatever it points to whenever you like.

Here is a pointer tutorial, if you are unfamiliar with them:

   http://www.dfanning.com/misc_tips/pointers.html

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Collection of different sized arrays
Posted by Mort Canty on Sun, 17 Jan 2010 16:57:44 GMT

Am 17.01.2010 13:37, schrieb Robin Wilson:
> Hi,
>
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> likely to change during the segmentation process...
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> (possibly?) or something like that, but I'm not really sure.
>
> Any ideas would be much appreciated,
>
> Thanks,
>
> Robin Wilson
> University of Southampton, UK

Alternatively, you can maintain a label array (of integer) with the same
spatial dimension as your image and simply update the labels as your
segmentation algorithm proceeds.

-Mort