Subject: Re: pointer of pointer
Posted by steve on Wed, 22 Mar 2006 23:07:34 GMT
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Hey Claire,

If you absolutely must have each element of "a" be an array of a
different length the path you started down will work.

You can allocate the different lines like this:

a = PtrArr(n)
a[0] = Ptr_New(IntArr(lineSize))

After you have allocated the space, you can set an element like this:

(*a[n])[lineElement] = 0

Just keep in mind that doing this is going to be slow because pointers
are slow. More information on pointers can be found at
http://www.dfanning.com/misc_tips/pointers.html

Hope this helps,
Steve

Subject: Re: pointer of pointer
Posted by Antonio Santiago on Thu, 23 Mar 2006 08:15:58 GMT
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claire.maraldi@gmail.com wrote:
> Hello,
>
> I have to make an array which size of the lines depends of the line.
> I am sure I am not clear so here is an exemple of what I mean :
>
> a is an array of n lines
> each line contain a different number of elements
>
> I have tried to implement something like this
>
> a=PTRARR(n)
> FOR i=0,n-1 DO BEGIN
>   a(i)=Ptr_New
> ENDFOR
>
> First I am not sure it is the best way to compute this,
> second if yes I don't how to implemente the value of the "a(i,j)"

> element.
>

As you point, you can do:

```
   n = 10

   a = PTRARR(n)

   ;;Create an array of pointers that points to different byte array
   ;;sizes.
   FOR i=0, n-1 DO BEGIN
     a[i] = PTR_NEW( BINDGEN(n*i+10) )
   ENDFOR
```

Ok, now to get a(i,j) take a look at this:

```
IDL> help, a
A            POINTER   = Array[10]
IDL> help, a[4]
<Expression>   POINTER   = <PtrHeapVar25>
IDL> help, *a[4]
<PtrHeapVar25>  BYTE     = Array[50]
IDL> help, (*a[4])[10]
<Expression>   BYTE     =  10
```

The content of fourth position (*a[4]) of the pointer array is an array
 of 50 positions. In a general way:

value = (*a[i])[j]

> If somebody can help me...
> Best regards,
>
> Claire
>

I dont' know if this way is as fast as using a "normal" array, that is,
I suposse pointers penalizes on acces time.

--

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