Subject: Re: Modifying an array while conserving memory
Posted by R.Bauer on Fri, 24 May 2002 06:44:46 GMT
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Randall Skelton wrote:
>
> Hi all,
>
> I have a large array and I would like to 'insert' some data into the
> middle of it. Imagine an array of 1000 points and having 100 points to
> insert beginning at index 500 (the resulting array will have 1100 points).
> Typically, I do not know the length of data I wish to insert until after
> 'a' is defined.
>
> a = findgen(1000)
> b = randomu(seed,100)
> c = fltarr(1100) ; seems wasteful to use more memory
> c[0:499] = a[0:499]
> c[500:599] = b
> c[600:1099] = a[500:999]
>
> In reality, 'a' is of order 2e7 so I would like to avoid making
> multiple copies of it. Does anyone have any suggestions regarding the
> most memory efficient way of doing this?
>
> Many thanks,
> Randall

Why not using pointer:

```
ptr1 = PTR_NEW(FINDGEN(1000))
insert = PTR_NEW(RANDOMU(seed,100))
a = PTR_NEW([(*ptr1)[0:499], (*insert), (*ptr1)[500:*]])


HELP,*a
```

regards
Reimar

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Reimar Bauer

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a IDL library at ForschungsZentrum Juelich

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml
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