Subject: Re: Modifying an array while conserving memory
Posted by Xiangyun Qiu on Fri, 24 May 2002 15:38:46 GMT
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Randall Skelton wrote:
Hi there,

Provided TEMPORARY() function works as we expect, I think the following steps can
use less memory:

```
a = findgen(1000)
b = randomu(seed,100)
a = shift(TEMPORARY(a), 500)
c = [TEMPORARY(b),TEMPORARY(a)]
c = Shift(TEMPORARY(c), 500)    ; here happens to be 500 too, because
500 = 1000 - 500
```

This solely rely on TEMPORARY function, live or die with it.

Xiangyun

```
>
>  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
```

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Xiangyun