Subject: Re: Strange memory consumption? Posted by Alex Schuster on Fri, 16 Oct 1998 07:00:00 GMT

View Forum Message <> Reply to Message

Kevin Ivory wrote:

```
> Alex Schuster wrote:
>> I just noticed this:
>>
>> IDL> a = bindgen( 1000, 1000, 10 )
>> IDL> help, /mem
>> heap memory used: 10183855, max: 10183883, gets:
                                                              188.
>> frees:
>> IDL> a[*] = 1b
>> IDL> help, /mem
>> heap memory used: 10183906, max: 50183966, gets:
                                                              192,
             63
>> frees:
> Hi Alex,
> I wasn't aware of that, but I would do it differently in the first place.
> If you know you want to initialize an array with a constant, there are
> much better ways of doing so. First of all, use bytarr instead of
> bindgen. Then you only have to add the constant you need:
> a = bytarr(1000, 1000, 10) + 1b
```

Oh, sorry I didn't make the clear. Of course you are right, but my code was intended as some example only in order to demonstrate the effect. But it occurs several times in my program that I have a huge array and have to re-initialize it to zero. I didn't expect that creating the array again would be faster than using arr[*]=0, and that this costs that much memory.

> There is another way of defining and inititializing an array in one step:

```
> > a = make_array(1000, 1000, 10, value=1b) >
```

- > Initializing such large arrays, you might want to check the time
- > consumption: On my system (Pentium 200 MHz, IDL 5.1.1 Linux, 64 MB RAM)
- > the first assignment takes roughly 0.8s, the second takes 1.9s.
- > (Your code takes 2 minutes! probably because of swapping to hard disk)

Here it's around 0.3s vs. 1.7s, on an UltraSparc with enough memory.

Alex

ster Wonko@weird.cologne.de alex@pet.mpin-koeln.mpg.de Alex Schuster

PGP Key available

Page 2 of 2 ---- Generated from comp.lang.idl-pvwave archive