
Subject: Re: memory allocation

Posted by [davidf](#) on Mon, 26 Jul 1999 07:00:00 GMT

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Essa Yacoub (yacoub@cmrr.umn.edu) writes:

```
> I am assigning an array using the complex function
>
> rd=
> complex(mag_regress*cos(phase_regress),mag_regress*sin(phase _regress))
>
>>> 99% of the time this turns out to be a programming error >>>
>
> the code works, because I have successfully used it on several data
> sets of
> different sizes. In this particular case, the data size is much
> larger. I am running
> this on an sgi onyx 2 system with 2 gig of ram, so that should not
> be
> a problem. In fact I can open another session in another window and
> create bigger arrays with no problem. It actually crashed before
> this above statement
> and I zeroed an array I was no longer using and it continued a while
> longer.
> (using .con) before crashing again at a different line.
```

I'm going to guess that there are more of these large arrays hanging around that you are also not cleaning up. When you are finished with an array, you want to clear the memory that is associated with it. This can be done by setting the array to the value 0. Or it can be done more elegantly with my UNDEFINE routine that you can find on my web page.

You also want to use the TEMPORARY function if you find the same large array on both sides of the equal sign. That is, instead of this:

```
array = array * 10
```

use this:

```
array = TEMPORARY(array) * 10
```

You might also try modularizing your code more. Many times this problem comes about because people write huge main-level programs instead of smaller procedures and functions.

```
> It is definitely a size problem but I don't understand
```

> why, or how I can clear up memory, or access more system memory....

To get more system memory allocated to your IDL process, it helps to sacrifice your first-born child to the system administration gods. But even if you do it when they are quite young and innocent, it seldom helps. :-(

Cheers,

David

P.S. If your first-born is a teenager, forget it. The gods turn those older sacrifices into administrators in charge of program budgets. :-(

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