Subject: Re: For loops vs. matrix operations Posted by mperrin+news on Wed, 17 Dec 2003 23:05:08 GMT View Forum Message <> Reply to Message

Jonathan Greenberg < greenberg@ucdavis.edu> wrote:

- > I know some matrix programs perform better if you do straigh matrix math vs.
- > a for-next loop -- is idl this way? E.g. is:

> > array=intarr(10000)

- > for i=0,(10000-1) do begin
- array[i]=array[i]+1
- endfor

MUCH slower than: >

- > array=intarr(10000)
- > array=array+1

> ?

Yes, the for loop version will be *vastly* slower. This is because IDL makes a seperate trip through the parse/interpret cycle for every pass through the for loop, greatly increasing the overhead.

- > I'm trying to figure out how much time I should be using rewriting some code
- > to optimize the algorithm, which is why I'm asking (the code is more complex
- > than above, obviously, but I did notice I could "matricize" some of the code
- > in places)...

Matricize as much as you possibly can!

- Marshall