Subject: Re: array concatenation and optimization
Posted by R.G.S. on Wed, 26 Sep 2001 19:22:30 GMT
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Sean Raffuse <sean@me.wustl.edu> wrote in message
news:9ot613$3ra$1@newsreader.wustl.edu...
> Hello.
>
> I am trying to read a bunch of data from a file to a structure array. I'm
> not sure many data entries the file will have until I have read it and so
I
> am increasing the size of the structure array after reading each line. I
do
> this by concatenating.
>
> adp_struct_single is the structure as a "scalar"
> adp_struct is the array
>
> I concatenate like so:
> adp_struct =[adp_struct, adp_struct_single]
>
> This is working but it has increased the processing time of my loop by an
> order of magnitude. Is there a better way to do this? Is there a reason
> this is so slow?
>
> Thanks in advance.
>
> -Sean Raffuse

Some ideas:
1) estimate array size from file size (get that from fstat), and
create an appropriately size array.

```
len = fstat(lun).size/nbytesperelement
adp_struct =replicate(adp_struct, len)
```

2) "buffer the concatenate operation
```
 len = 500 ; blocks of 500
adp_struct_block =replicate(adp_struct, len)
while not ( !eof) do begin
  for i = 0,len-1 do begin
    if stillreading then  adp_struct_block(i) = adp_struct_single
  endfor
     adp_struct =[adp_struct, adp_struct_block]
endwhile
```

This is just fakecode, merely illustrating the ideas.

Cheers,
bob
