Subject: Re: Optimization Question: Sum at each element of array Posted by James[2] on Tue, 15 Feb 2011 20:15:30 GMT

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On Feb 14, 9:58 pm, Charles Steinhardt <charles.steinha...@ipmu.jp>
wrote:
> Hello.
>
      I'm trying to optimize the following:
>
           for i=0, 100 do begin
>
                   y = y + myfunc(x, x + sigma * (i-50)/10.0, P[2]*myfunc2(x + sigma * 
>
        * (i-50)/10.0), sigma)
            endfor
>
> Here, x, y, and sigma are arrays of the same cardinality. I know the
> for loop is slow in IDL compared to array operations, but I'm having
> problems finding a faster way to do this. Is it really faster to make
> an array of findgen(101) and then do some sort of summation over
> that?
> I'm hoping somebody has run into this before - I'd appreciate any
      advice you have!
       Thank you,
> -Charles
One simple optimization step is to replace:
   y = y + (blahblahblah...)
with
   y += (blahblahblah...)
This avoids making IDL acquire memory each iteration to store the
result of y + (blahblahblah...).
```