
Subject: Re: row calculation in a 2D array
Posted by [Alex Schuster](#) on Wed, 26 Aug 1998 07:00:00 GMT
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Jonas wrote:

- > This was kind of a special example since total could do all the work. What
- > if I would like to do another calculation where total is not applicable...
- > in other words:
- > is there generally an easy way to perform the same calculation over all the
- > (sub-)rows in a in a 2D array?

Calculating the average of each row could be done by matrix multiplication:

```
a = findgen( 10, 10 )  
b = reform( fltarr( 10 ) + 1, 1, 10 )  
average = reform( b # a / 10 )  
print, average
```

```
      4.50000    14.5000    24.5000    34.5000    44.5000  
54.5000  
      64.5000    74.5000    84.5000    94.5000
```

Other things would be more difficult, though, and sometimes you just cannot avoid loops.

Alex

--

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