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 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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PGP Key available