
Subject: Avoid loop in matrix operation

Posted by [L. Testut](#) on Thu, 06 Jul 2006 10:41:47 GMT

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Hi everybody,

My question is very generic. How can I make operation on a matrix whitout using loop ?

Here is an example, where I have, for example a topographic map changing with time $H(i,j,t)$, and I want to know the mean topography. I did that and it works well:

```
FOR i=0,Nx-1 DO BEGIN
  FOR j=0,Ny-1 DO BEGIN
    H(i,j)=MEAN(H(i,j,*))
  ENDFOR
ENDFOR
```

But I like one-line code. Is it possible to do the same thing in a more efficient and compact way ?

I'm sure you have an answer for me !

thanks

Laurent
