
Subject: Re: How to calculate $z=f(x,y)$ with loops
Posted by [thompson](#) on Wed, 09 Nov 1994 15:48:29 GMT
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buteau@bali.saclay.cea.fr (A.Buteau 62 17) writes:

- > I need to calculate the value of $z=f(x,y)$.
- > Z is a 2D array (fltarr(n,n)).
- > X and Y are the X and Y indices of this array.

- > I'd like to calculate :

- > for y=0,n-1 do begin
- > for x=0,n-1 do begin
- > z(x,y)=...a function of X and Y (the function can be
- > of any kind)
- > endfor
- > endfor

- > But I would like to do it without (or with only one) for loops
- > for performance consideration.

```
XX = X # REPLICATE(1,N_ELEMENTS(Y))  
YY = REPLICATE(1,N_ELEMENTS(X)) # X  
Z = funct(XX,YY)
```

Bill Thompson
