
Subject: Re: Improving a piece of code with arrays and for-loops

Posted by [Wox](#) on Fri, 09 Feb 2007 12:55:38 GMT

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How about this:

```
; indsetmin (s never goes there)
indsetmin=where((tke lt rebin(tkvl,ni,nj,ns)) or (tke_diff lt eps))
```

```
; Set windspeeds to the minimum value (you can also take 0,
; if these speeds never go below zero, which seems logical ;-))
wspmin=min(wsp)
wsp[indsetmin]=wspmin
```

```
; Maximum wsp
fgtmp[*,*,2]=max(wsp, DIMENSION=3)
```

```
; Maximum wsp where (int_diff ge 0)
wsptmp=wsp
wsptmp[where(int_diff lt 0)]=wspmin
fgtmp[*,*,0]=max(wsptmp, DIMENSION=3)
```

```
; Maximum wsp where (int_diffver ge 0)
wsp[where(int_diffver lt 0)]=wspmin
fgtmp[*,*,2]=max(wsp, DIMENSION=3)
```

On 8 Feb 2007 05:23:53 -0800, "Halfdana" <halfdana@gmail.com> wrote:

```
>   for i=1,ni-2 do begin
>       for j=1, nj-2 do begin
>           s = ns-1
>           REPEAT BEGIN
>               if int_diff(i,j,s) GE 0. AND wsp(i,j,s) GT fgtmp(i,j,
> 0) then $
>                   fgtmp(i,j,0) = wsp(i,j,s)
>                   if wsp(i,j,s) GT fgtmp(i,j,1) then $
>                       fgtmp(i,j,1) = wsp(i,j,s)
>                   if int_diffver(i,j,s) GE 0. AND wsp(i,j,s) GT
> fgtmp(i,j,2) then $
>                       fgtmp(i,j,2) = wsp(i,j,s)
>                   s=s-1
>           ENDREP UNTIL tke(i,j,s) LT tkvl(i,j) OR
> tke_diff(i,j,s) LT eps
>       endfor
>   endfor
```
