Subject: Re: Improving a piece of code with arrays and for-loops
Posted by Halfdan on Thu, 01 Mar 2007 11:30:55 GMT
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I got the method to work correctly with slight modifications. It
might be a bit late but her goes.

I realized that my possible s-levels were not continous, i.e. there
could be "valid" s-levels away from the surface with "illegal" levels
in between. I therefore had to put a more stringent conditions on the
possible s-values as I only want the continous stretch of "valid"
levels near the surface.

I also choose some sensible values for wsp when the method would
otherwise give 0.

há


```
    ; What s-values are not possible?
    idx = intarr(ni,nj,ns)
    idx[where( tke LT rebin(tkelvl,ni,nj,ns) or tke_diff LT eps)] =
1
    idx = reverse ( total( reverse(idx, 3), 3, /cumulative), 3)

    ; What s-values are not possible?
    indsetmin=where( idx NE 0 )

    ; Zero value for the wind
    wsptmp=wsp
    wspmin=0.
    wsptmp[indsetmin]=wspmin

    ; Max wsp
    fgtmp[*,*,1]=max(wsptmp, DIMENSION=3) > wsp[*,*,ns-1]

    ; Max wsp where(int_diff lt 0.)
    wsptmp[where(int_diff lt 0.)]=wspmin
    fgtmp[*,*,0]=max(wsptmp, DIMENSION=3) > wsp[*,*,ns-1]

    ; max wsp where (int_diffver lt 0)
    wsptmp[where(int_diffver lt 0.)]=wspmin
    fgtmp[*,*,2]=max(wsptmp, DIMENSION=3) > wsp[*,*,ns-1]
```