
Subject: equal lat long grid

Posted by [Pawan](#) on Fri, 07 Apr 2006 15:43:44 GMT

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Hi all,

I was trying to convert my unequal size lat long data into equal size lat long (grid) data.

Here is code that I am using. I was wondering if someone could give me some idea on improving this. I have almost 2 M data points and this code is taking more than 12 hour to do the job.

thanks,
pawan

```
;; Gridding data
;output arrays to store the data
```

```
mean_aot = fltarr(241,721) ; to store mean
std_aot = fltarr(241,721) ; to store stdev
      min_aot = fltarr(241,721) ; to store min
max_aot = fltarr(241,721) ; to store max
cnt = fltarr(241,721)
```

```
starttime=systime(0)
for i = 0,240 do begin
lat = i * 0.5 - 60
for j = 0,720 do begin
lon = j * 0.5 - 180
```

```
res = where((param(6,*) gt (lat-0.25) and $
      param(6,*) le (lat+0.25)) and $
      (param(5,*) gt (lon-0.25) and $
      param(5,*) le (lon+0.25)) and $
      (param(25,*) ge 0. and param(25,*) le 5.) and $
      param(10,*) gt 0. and $
      param(17,*) gt 0., count)
```

```
if(count gt 0) then begin
mean_aot(i,j) = mean(param(17,res))
      cnt(i,j) = count
std_aot(i,j) = 0.
      if (count gt 1) then begin
std_aot(i,j) = stddev(param(17,res))
      endif
```

```
;
```

```
printf,2,format='(7f10.3)',lat,lon,mswf(i,j),maot(i,j),cnt(i ,j),std_swf,std_aot  
  
endif  
  
endfor  
print,lat  
endfor  
endtime=systime(0)  
close,2  
print,'Start Time :',starttime  
print,'End Time :',endtime  
end
```
