
Subject: Avoiding FOR loops ?

Posted by [sdj](#) on Wed, 25 Aug 2004 10:31:04 GMT

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Dear All,

Is there a way to avoid the FOR loops in the following code:

```
;no. of months & no. of lat, lon points
```

```
n_months = 256
```

```
lon = 1304
```

```
lat = 1028
```

```
;3-D array with SST observations for all
```

```
;months and all pixels - Populated
```

```
data_all = fltarr(n_months, lon, lat)
```

```
;Array of all valid observations across all months
```

```
;for all pixels - To be populated
```

```
data_obs = intarr(lon, lat)
```

```
;Array of mean values across all months
```

```
;for all pixels - To be populated
```

```
data_mean = fltarr(lon, lat)
```

```
;Array of median values across all months
```

```
;for all pixels - To be populated
```

```
data_median = fltarr(lon, lat)
```

```
;The values of LAND to be avoided
```

```
;Bad value obs is defined as 0
```

```
def_val = -9999.9
```

```
FOR ilon = 0, lon - 1 DO BEGIN
```

```
  FOR ilat = 0, lat - 1 DO BEGIN
```

```
    valid = where(data_all(*, ilon, ilat) NE def_val AND $
```

```
      data_all(*, ilon, ilat) NE 0, count = valid_obs)
```

```
    data_obs(ilon, ilat) = valid_obs
```

```
    data_mean(ilon, ilat) = mean(data_all(*, ilon, ilat))
```

```
    data_median(ilon, ilat) = median(data_all(*, ilon, ilat))
```

```
  ENDFOR
```

```
ENDFOR
```

It seems to me that I am not exactly speeding things up by using this method...

Thanks in advance for your help.

Regards,

Pepe

Pepe S. D. Juevara

- No debe cambiarse de caballo al cruzar el río $\frac{1}{2}$ o -
