Subject: a newbie question on code efficiency Posted by gogosgogos on Sat, 18 Aug 2001 02:54:19 GMT

View Forum Message <> Reply to Message

```
Dear group members,
```

```
i have a little challenge for you which i stumbled into...
i tried to write a program which takes a 3d array,
sets a cutoff at a certain level and then creates a mask
of all values above that level, the mask has to be 1 and 0.
i came up with this code, but could never get rid of the loop.
any suggestions on how to get rid of the loop?
i would prefer array operators for speed:)
  PRO MAKE MASK
a = dialog_pickfile()
b = READ_BINARY(a, DATA_TYPE=1, DATA_DIMS=[160,256,256])
b_dims = size(b)
x_dim = b_dims[1]
y_dim = b_dims[2]
z_dim = b_dims[3]
cutoff = 180
e = b
for i = 0, (x_dim-1) do begin
for j = 0, (y_dim-1) do begin
 for k = 0, (z_dim-1) do begin
 if e[i,j,k] It cutoff then e[i,j,k]=0
 if e[i,j,k] ge cutoff then e[i,j,k]=1
 endfor
endfor
endfor
; and so on to use the mask further in the program
END
```