
Subject: Re: a newbie question on code efficiency
Posted by [David Fanning](#) on Sat, 18 Aug 2001 13:41:06 GMT
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Dominic R. Scales (dominic.scales@aerosensing.de) writes:

```
> Hi David,
>
> this seems to be not true as b = a > cutoff sets the values smaller
> than cutoff to cutoff and keeps the others as they are.
>
> IDL> a=bindgen(10,10)
> IDL> b = a > 50
> IDL> print,a
>  0  1  2  3  4  5  6  7  8  9
> 10 11 12 13 14 15 16 17 18 19
> 20 21 22 23 24 25 26 27 28 29
> 30 31 32 33 34 35 36 37 38 39
> 40 41 42 43 44 45 46 47 48 49
> 50 51 52 53 54 55 56 57 58 59
> 60 61 62 63 64 65 66 67 68 69
> 70 71 72 73 74 75 76 77 78 79
> 80 81 82 83 84 85 86 87 88 89
> 90 91 92 93 94 95 96 97 98 99
> IDL> b= a > 50
> IDL> print,b
>   50   50   50   50   50   50   50   50   50   50
>   50   50   50   50   50   50   50   50   50   50
>   50   50   50   50   50   50   50   50   50   50
>   50   50   50   50   50   50   50   50   50   50
>   50   51   52   53   54   55   56   57   58   59
>   60   61   62   63   64   65   66   67   68   69
>   70   71   72   73   74   75   76   77   78   79
>   80   81   82   83   84   85   86   87   88   89
>   90   91   92   93   94   95   96   97   98   99
> IDL>
>
> the following does the trick:
>
> IDL> b[where(a le 50)] = 0
> IDL> b[where(a gt 50)] = 1
> IDL> print,b
>   0   0   0   0   0   0   0   0   0   0
>   0   0   0   0   0   0   0   0   0   0
>   0   0   0   0   0   0   0   0   0   0
>   0   0   0   0   0   0   0   0   0   0
>   0   0   0   0   0   0   0   0   0   0
```

```
> 0 1 1 1 1 1 1 1 1 1
> 1 1 1 1 1 1 1 1 1 1
> 1 1 1 1 1 1 1 1 1 1
> 1 1 1 1 1 1 1 1 1 1
> 1 1 1 1 1 1 1 1 1 1
```

Folks,

I'm writing "A GE 50" *not* (and I repeat, *not*) "A > 50".

```
IDL> print, a GE 50
```

```
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
```

Cheers,

David

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David W. Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438, E-mail: david@dfanning.com

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