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Subject: Vectorization question

Posted by [Liam E. Gumley](#) on Mon, 11 Sep 2000 21:51:01 GMT

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Given the following arrays

```
a = intarr(10)
x = [2, 2, 2, 3, 3, 4]
b = [1, 3, 4, 2, 1, 8]
```

How would I vectorize the following operation

```
for i = 0, n_elements(x) - 1 do a[x[i]] = a[x[i]] + b[i]
```

To achieve this result

```
print, a, format='(10i4)'
    0  0  8  3  8  0  0  0  0  0
```

In the real-world case where this occurs, I need to repeat this kind of operation several hundred times, where the size of 'a' is around 1,000,000 and the size of 'x' is around 100,000 ('a' and 'b' are float type in the real-world case).

Many thanks for any suggestions.

Cheers,

Liam.

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