Subject: Sorting (big) int array: Eliminate for loop
Posted by Luds on Mon, 21 Sep 2009 14:46:47 GMT
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Hi,
I'm trying to eliminate a for loop form one of my codes, but can't seem to get around it (though I must be able to, with the histogram function, or something of the sort)... I was hoping to get some advice from the (semi-)pros.

Here's what I want to do:
I have two arrays, A & B. Both are sparse and contain non-contiguous integers. Both are 1-dimensional and have the same number of elements. Array B contains all the same values as array A, but in a random order. I want to find the elements with which I can subscript array B so that it returns A (i.e. I want B(elements)=A).

Trivially I get what I want with

For K = 0L, Narray - 1L do elements[K] = where(B eq A[K])

The arrays contain 10's of millions of elements, so memory is an issue.... but clearly a For loop is WAY to slow and I'm crazy for even considering it as an option.

Does anyone have any advice on this?

Thanks 10's of millions!