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Subject: quick search of array

Posted by [tanqian](#) on Thu, 23 Jun 2005 16:36:32 GMT

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Hi,

I have four arraies

```
all_time = fltarr(10000)
```

```
all_location = fltarr(3, 10000)
```

```
sel_time = fltarr(4000)
```

```
sel_location = fltarr(3,4000)
```

the 'sel\_time' is a subset of 'all\_time'. Is there a quick way I could find index 'j' of all\_time for each sel\_time(i) (when  $\text{abs}(\text{all\_time}(j) - \text{sel\_time}(i)) < 1e-5$ )? So I could use that index to pick the sel\_location from all\_location for each sel\_time(i). Since I have multiple (~20000) such tests, loop through both of them will be too time consuming.

Should I sort both all\_time and sel\_time to descent/ascent order to speed it up?

Thanks,

Qian

Qian

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