
Subject: Re: how to sort data based on other sorted data

Posted by [JMB](#) on Thu, 10 Jan 2008 18:47:45 GMT

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> The idea is to merge your array of coordinates in a single vector that
> can be sorted. The merging has to be done in a way that x,y,z info
> doesn't mix.

You can test the following method that seems to work for integers or
unsigned integers.

[-32768,+32768] or [0,+65535]

It doesn't work with floating points!:

```
.*****  
,
```

```
; a xyz matrix is generated for testing:
```

```
Rows=50000
```

```
xyz=dblarr(3,Rows)
```

```
xyz[0,*]=fix((randomu(S,Rows)-0.5)*2.^16)
```

```
xyz[1,*]=fix((randomu(S,Rows)-0.5)*2.^16)
```

```
xyz[2,*]=fix((randomu(S,Rows)-0.5)*2.^16)
```

```
; the method! quite short ;-)
```

```
c=xyz[2,*]*2.^32+xyz[1,*]*2.^16+xyz[0,*]
```

```
indices=sort(c)
```

```
end
```

```
.*****  
,
```

You can benchmark with multisort!

Cheers,

Jerome
