
Subject: fast search

Posted by m.goullant@gmail.com on Tue, 17 Oct 2006 12:09:34 GMT

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Hi there,

I have the following problem:

```
;data structure of an irregular point cloud
```

```
x = points.x
```

```
y = points.y
```

```
z = points.z
```

```
search radio
```

```
radio = 8
```

```
FOR i=0L,N_ELEMENTS(z)-1 DO BEGIN
```

```
    square = WHERE(x LE x[i] + radio AND x GE x[i] - radio AND y LE  
y[i] + radio AND y GE y[i] - radio)  
    ;(...)
```

```
ENDFOR
```

I realize that WHERE will do the job, but at very low efficiency.

WHERE

makes no assumptions about the list being ordered. It seems to me it
has

to check every element of the array, requiring N steps for an N-element
array

There is a faster way to do this?

thanks,

Marie
