

---

Subject: faster then where possible?

Posted by [rogass](#) on Thu, 07 May 2009 15:06:42 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi,

i'm searching for some alternative approaches to compute the following  
"much" faster:

-> matrix1 has m columns and n rows, matrix2 has 2 columns and n rows

-> the values in matrix2 are NOT in matrix1, but within the min-max-range of matrix1

```
szm1=size(matrix1,/dimensions)
```

```
szm2=size(matrix2,/dimensions)
```

```
index={ind:ptr_new()}
```

```
indices=replicate(index,szm2[1])
```

```
for j=0:szm1[1]-1 do begin
```

```
    helpindex= where(matrix1[* ,j] ge matrix2[0,j] and matrix1[* ,j] le  
matrix2[1,j],c)
```

```
    if c gt 0 then begin
```

```
        indices[j] = ptr_new(uintarr(c))
```

```
        (*indices)[j]=helpindex
```

```
    endif else continue
```

```
endfor
```

It seems to be a typical Nearest-Neighbor-Problem, but all alternative approaches I tried were always slower. Maybe someone here has a good idea?

Thank you and best regards

Christian

---