
Subject: changing matrix size using interpolation

Posted by [oxfordenergyservices](#) on Mon, 17 Jan 2011 14:31:08 GMT

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I think this might not be too hard but it would be great to have a pointer to the routines...

I have a x by y matrix (of elevations for a topographic map)

I want to turn it into a new matrix which is n by m where n and m could be greater or less than x or y and not necessarily an integer multiple or fraction.

I have tried this...

```
x=4.0
```

```
y=4.0
```

```
a=findgen(x,y)
```

```
m=7.0
```

```
n=7.0
```

```
b=interpolate(a,findgen(m)*(x-1)/(m-1),findgen(n)*(y-1)/(n-1 ),/  
GRID,missing=-1)
```

```
print,a
```

```
print,b
```

and it seems to work, but this must have been done many times before and just wanted to check I'm right?

Thanks
