
Subject: Re: create an UTM grid
Posted by [natha](#) on Mon, 28 Nov 2011 19:25:36 GMT
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Thank you David. Just to be sure, if I want a grid of 1000x1000, 1km resolution and centered on 45.42419lat -73.9372lon, is the following code right ?

```
center_lat=45.42419
center_lon=-73.9372
xdim=1000
ydim=1000
resolution=1000.
```

```
map_utm=MAP_PROJ_INIT('UTM', /GCTP, CENTER_LON=center_lon,
CENTER_LAT=center_lat, ELLIPSOID=24)
```

```
xycenter=MAP_PROJ_FORWARD(center_lon, center_lat,
MAP_STRUCTURE=map_utm)
```

```
x_grid=xycenter[0] + FINDGEN(xdim)*resolution - xdim/2.*resolution
y_grid=xycenter[1] + FINDGEN(ydim)*resolution - ydim/2.*resolution
```

```
result = MAP_PROJ_INVERSE(x_grid, y_grid, MAP_STRUCTURE=map_utm)
```

```
lon=REFORM(result[0,*])
lat=REFORM(result[1,*])
```

Thank you again ! I really appreciate your support !
natha
