Subject: Re: create an UTM grid
Posted by natha on Mon, 28 Nov 2011 20:02:25 GMT
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I think the following code is better :

```
x_grid=REBIN(x_grid,xdim,ydim,/SAMPLE)
y_grid=TRANSPOSE(REBIN(y_grid,ydim,xdim,/SAMPLE))

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

res_lon=REFORM(result[0,*],xdim,ydim)
res_lat=REFORM(result[1,*],xdim,ydim)
```

By the way, I am missing something here...

UTM is a cartesian coordinate system. Theoretically, the distance
between two points on the grid could be performed using the
Pythagorean theorem (because all distances should be equal). What I
realize is that the distances are different and never equal to 1km. I
checked that using the routine MAP_2POINTS. Do you know why ?