
Subject: Map projection header file question

Posted by [yzfoot](#) on Wed, 27 Jan 2010 13:58:44 GMT

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I'm doing a map projection from UTM NAD83 in meters to State Plane NAD 83 in feet. For the most part the projections itself is up and running but I'm having some problems generating a functional header file for the output. I'm thinking I read and parse info from the input header file, convert the applicable elements and generate an output header file.

Example from the input header file :

```
map info = {UTM, 1, 1, 375089.50, 3739219.37, 0.75, 0.75, 12, North,
WGS-84, units=Meters}
```

Then I convert parameters for use in :

```
map_info = ENVI_MAP_INFO_CREATE(DATUM = datum, /STATE_PLANE,
mc=mc ,ps=ps, units=units, ZONE=zoneVal) ;, PROJ=b_proj)
```

and the command `envi_setup_head ....`

To ultimately generate a line in the output header file like :

```
map info = {State Plane (NAD 83), 2.0000, 2.0000, 568588.8125,
1013834.7500, 2.4606299400e+000, 2.4606299400e+000, 202, units=Feet}
```

I'm betting that ENVI/IDL has conversion routines to help with this but being new I'm not finding them. Is there such a thing ? If so I'd appreciate a pointer to them. If not how is this handled ?

AI
