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README

These programs convert between UTM and latitude-longitude map coordinates. Separate programs are used for each conversion. CNVTUTM.EXE is used to convert from UTM to latitude-longitude. CNVTL-L.EXE converts from latitude longitude to UTM. Conversions can be made in either NAD 27 or WGS 83/84 datums. The program accounts for special zone numbering in certain zones above 56 degrees north latitude.

CNVT UTM.EXE

The program first prompts the user to choose between coordinate datums. The UTM east coordinate is entered next. The units are meters and an error message will be generated if the coordinates are out of the normal range. Then the UTM north coordinate is entered and again an error message will be generated by an incorrect entry. It is important that a negative value for the UTM north coordinate be used for locations south of the equator. The UTM zone is entered next. This value must be between 1 and 60, inclusive. It is not necessary to enter the letter designation for the zone. The program will determine it.

The output will indicate the correct east-west longitude and north-south latitude. Error messages will be generated if the coordinates do not correspond to the correct zone. Latitude and longitude values are rounded to the nearest second.

CNVT L-L.EXE

The program first prompts for a choice of datums. Longitude values are entered next. These may be whole numbers or decimals. If whole numbers (such as 53, 12, etc.) are entered you will be prompted to enter the next value. If a decimal value is entered, the program will assume that no more values are to be used and will jump to the next entry. For example, if you enter a value of 123.4572 for the degrees part of longitude, the next value to be entered will be the degrees part of latitude. Likewise, if you enter 43.345 minutes, it will be assumed that no value of seconds will be entered and it will jump to the degrees part of latitude.

Negative values of longitude must be used in the eastern hemisphere. Negative values of latitude must be used south of the equator. It is important that all values of either longitude or latitude be of the same sign or zero. An error message will be generated if they are not.

The UTM coordinates calculated are rounded to the nearest meter.

To close either program double left click the MS-DOS icon in the upper left-hand corner of the screen.