

## INSTALLING AND TROUBLESHOOTING GEOCONV

### Delivery package GeoDelivGB.zip

Program GeoConv, its documentation, parameter files and other supporting files are available on page <http://www.kolumbus.fi/eino.uikkanen/geoconvgb/index.htm> in one zip-file named GeoDelivGB.zip. This zip-file contains following files.

Group	File	Description
Programs, batch runs	GeoConv.exe	Program GeoConv
	FValue.exe	Program for setting GeoConv's parameters
	GeocoIni.bat	Batch file, which initializes the parameters of GeoConv
	Show.exe	Displays text-files. Not mandatory, but handy in batch files
	GeoCheck.bat	Batch-run for checking GeoConv's installation
	Other batch-runs (*.bat)	Sample runs described in GeoConvSamples.doc
Documents	GeoConvGB.doc	Users manual of program GeoConv
	GeoConvInstall.doc	GeoConv's installation instructions (this file)
	GeoConvSamples.doc	Sample Geoconv-batch-runs with explanations
	FValueGB.doc	Users manual of program FVALUE
	GeoParas.xls	Tables of the properties and attributes of the input- and output-formats, coordinate types, parameters and printable fields. These tables are available in HTML-format in GeoConv's home page
Parameter files	Datum.val	Datum-parameters
	Ellips.val	Ellipsoidal parameters
	XYPara.val	Grid-conversion parameters
	IntError.val	Error messages

### Installing GeoConv

There is no installation program for GeoConv. Install GeoConv following instructions below:

Phase	Description
Copying files	Copy all program files to selected directory, e.g. C:\geoconv Copy all document files, e.g. to the same directory as program files Copy all parameter files to selected directory, e.g. C:\values
Adding program-directory to environment variable PATH	Add the name of the program directory to the environment variable PATH.  You can skip this, if you call GeoConv using full pathname or if you use GeoConv in the default directory.
Providing access to the parameter files – setting the value of environment variable FVALUE	GeoConv reads the location and default naming of the parameter files from the environment variable FVALUE. Set the value of environment variable FVALUE to X:\HHHHH\FVALUE.VAL, where: <ul style="list-style-type: none"> <li>X:\HHHHH tells the directory, where parameter files reside</li> <li>FVALUE tells, that the default name of the parameter file is FVALUE</li> <li>.VAL tells, that the default name extension of the parameter file is .VAL</li> </ul> <p>If you copy the parameter files to e.g. directory D:\VALUES, the value of environment variable FVALUE must be set to D:\VALUES\FVALUE.VAL</p> <p>Even though it is not recommended, you may skip this, if you keep the parameter files in the root directory. N/B: the operating system may not allow normal user to write in the root directory, which makes FVALUE definition mandatory.</p>

## Setting the values of the environment variables

GeoConv uses values of the environment variables PATH and FVALUE. Different operating systems use different methods for setting environment variables. Below an example of setting environment variables in a batch file

```
set fvalue=c:\values\fvalue.val
set path=%path%;c:\geoconv
```

In Windows 7-operating system you can set the environment variables through the Control Panel. In other Windows versions the menu hierarchy and terminology may be a little different.

Control Panel > System > Change settings > Environment variables

## Troubleshooting / installation

If GeoConv doesn't work as expected or produce expected results, you can check some basic things of the installation with following tests.

**Test, if the operating system can find GeoConv** by typing in the command prompt:

```
C:\>GEOCONV /?
```

If the installation is OK, you can see text: "GEOCONV version DD.MM.YYYY" (=version date). If you can't see this text, check the value of environment variable PATH.

**Test, if the operating system can find FValue.exe** by typing in the command prompt:

```
C:\>FVALUE /?
```

If the installation is OK, you can see screenful of instructions. If you can't see the instructions, check the value of environment variable PATH.

**Test, if the GeoConv can access the parameter files** by typing in the command prompt:

```
C:\>FVALUE DATUM.WGS84
```

If the installation is OK, you can see the values of datum WGS84 (bolded part):

```
FVALUE datum.wgs84=1,WGS84,0,0,0,0,0,0,0
```

If you can't see any values, check the value of the environment variable FVALUE or the location of the parameter files.

This test covers the other parameter files too, if you have copied all parameter files to same place.

**Test the entire installation** by running test run GeoCheck.bat, which checks the installation and writes a report to log file \temp\GeoCheck.log. Before running GeoCheck.bat, check, that directory \temp\ exist.