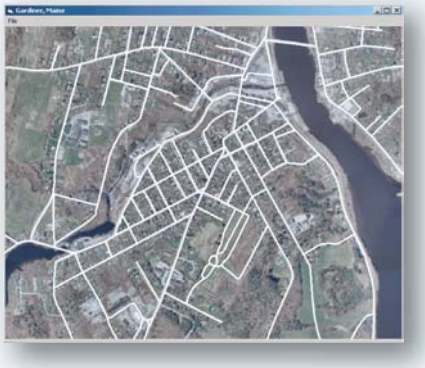
GeoCore®

The All In One Geospatial Data Management Development Kit

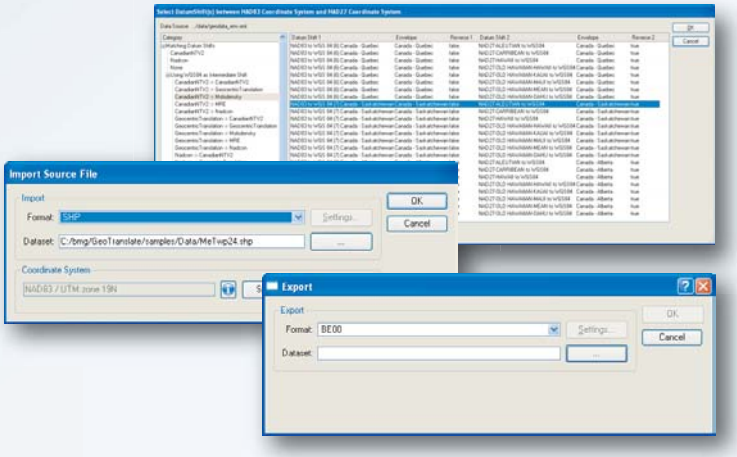
GeoCore Supports Coordinate, Geometry, Vector, CAD, Raster, LIDAR, DEMs, DTEDs and Spatial Databases

GeoCore gives software developers the coordinate transformation and definition powers GIS experts have come to rely on with the GeoCalc library, plus the ability to handle all of your raster and vector file format and geometry needs with GeoTranslate and GeoTransform. One simple package, and one easy to use interface! Now you can use whatever pieces you need, when you need them, in a plug and play development environment.



Perform on-the-fly coordinate transformations as well as geodetic calculations

When used within any GPS, surveying, engineering, or mapping system, GeoCalc provides highly accurate and dependable geographic coordinate transformations and geodetic calculations. GeoCalc employs a high-level parametric database model to efficiently store and retrieve coordinate system, map projection, ellipsoid, geodetic datum transformation, and unit parameters.



Stock Dialogs are included to get your application up and running quickly.

Now you can use whatever pieces you need, when you need them

With GeoTranslate and GeoTransform, you can read and write many of today's most popular vector and raster file formats. You are also granted direct access to a wide variety of geometry objects, which can be created and manipulated effortlessly. GeoTranslate and GeoTransform applications can share a single instance data source object by utilizing interoperability methods for Coordinate systems, Coordinate Transforms and the GeoCalc data source.

Additionally this architecture makes it easy for you to write your own file format support out of the box.

Raster capabilities include components for embedding read, write, compression, and manipulation of many of today's standard GIS raster image file formats.

This toolkit also adds powerful mosaicking and tiling capabilities to the single image transformation interface. New clipping interfaces allow you to manage, manipulate, and process large datasets like never before.

Geospatial Conversion, Translation, Transformation and Manipulation

Coordinate Conversion

- The world's most comprehensive coordinate conversion parameter database
- Tools for improving data quality management from a development level including a data source audit trail
- Define custom coordinate conversion parameters
- Forward and inverse geodetic calculations
- New vertical height offset method, and support for eight new height models

Raster Transformation

- Pixel by pixel raster transformation, referencing, reprojection, image tiling, mosaicking and compression in your application
- Projection recovery technology.
- Supports read and write of dozens of industry standard raster formats including digital elevation model support
- Support for larger LAS transformation and rendering
- Includes several image resampling methods

Vector Translation

- Read and Write many of today's most popular GIS vector file formats
- Support for Esri ArcSDE, File and Personal Geodatabases, Oracle Spatial and PostGIS Spatial databases
- Direct access to a wide variety of geometry objects, which can be created and manipulated on-the-fly
- CAD to CAD converter supports block and cell preservation

Blue Marble Geographics

Mind the Gap Between World and Map

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44° 17' 15.40" N, 69° 47' 24.55" W, WGS84

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