

SuperTrans

Description

SuperTrans is a matlab based computer program that can convert coordinates from one coordinate system to another. The basis of this system is the EPSG Geodetic Parameter Dataset, which contains a lot of coordinate system definitions. The EPSG database is freely available at <http://www.epsg-registry.org/>.

The program is capable of the following:

- convert between geographic (lat/lon) coordinate systems;
- convert between projected coordinate systems;
- convert between projected and geographic coordinate systems;
- conversion of single coordinates (*.ldb, *.pol, *.xyz, *.grd)
- conversion of files.

The screenshot shows the SuperTrans application window. It has a menu bar with 'File', 'Convert', 'Manage', and 'Help'. The main area is divided into three sections: 'Coordinate System A', 'Coordinate System B', and 'Datum Transformation'.

Coordinate System A: Set to 'Easting / Northings'. The dropdown menu shows 'Amersfoort / RD New' with a code of 28992. Below this, it lists: Datum: Amersfoort, Ellipsoid: Bessel 1841, Operation: Oblique Stereographic. It also includes input fields for: Longitude of natural origin (5 13' 53.58" deg), Latitude of natural origin (52 5' 31.9841" deg), False easting (155000 m), False northing (463000 m), and Scale factor at natural origin (0.9999079 -).

Coordinate System B: Set to 'Latitude / Longitude'. The dropdown menu shows 'WGS 84' with a code of 4326. Below this, it lists: Datum: World Geodetic System 1984, Ellipsoid: WGS 84.

Datum Transformation: The dropdown menu shows 'Amersfoort to WGS 84 (3)' with a code of 15934. The method is 'Coordinate Frame rotation'. It includes input fields for: X-axis translation (565.2369 m), Y-axis translation (50.0087 m), Z-axis translation (465.658 m), X-axis rotation (1.9725 microrad), Y-axis rotation (-1.7004 microrad), Z-axis rotation (9.0677 microrad), and Scale difference (4.0812 ppm).

At the bottom, there are input fields for 'x' (200000.0) and 'y' (500000.0), buttons for '<-- Convert' and 'Convert -->', and input fields for 'lon' (0.0) and 'lat' (0.0).

Download

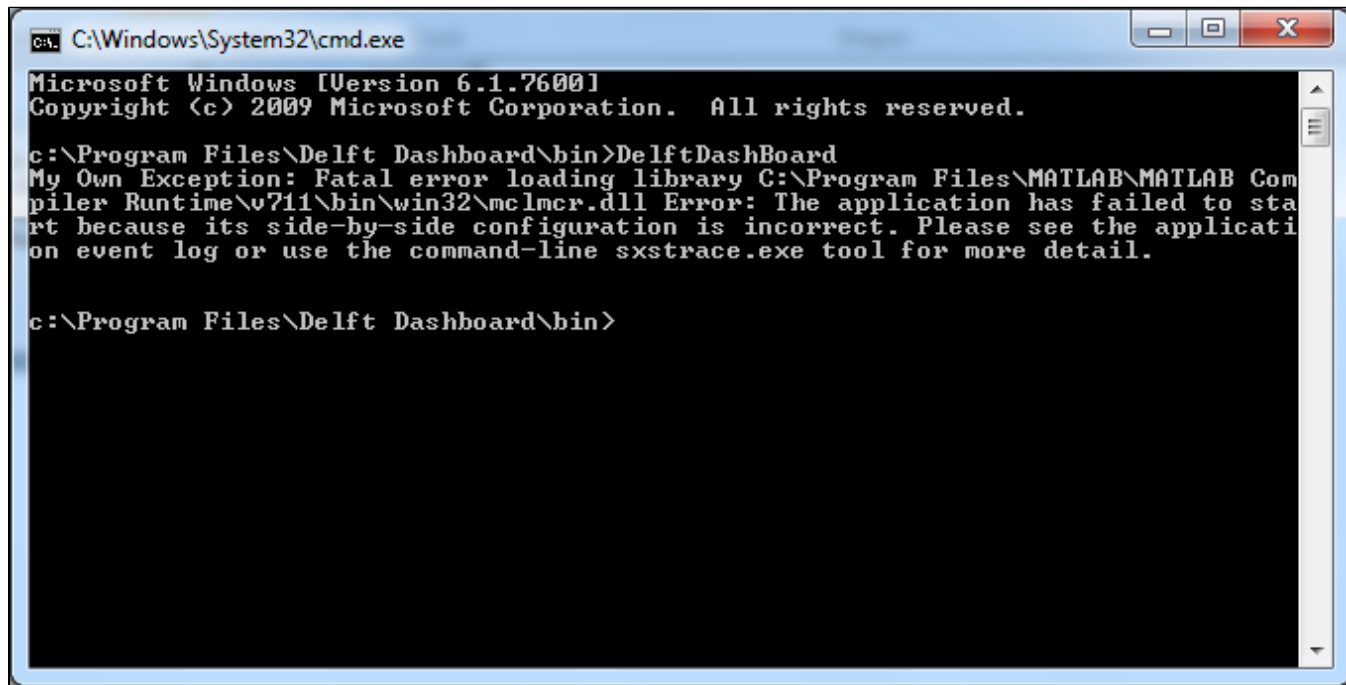
SuperTrans can be downloaded below.

Note1: This application requires the installation of the Matlab Compiler Runtime (MCR) v7.11 on your system. The MCR installer can be downloaded [here](#). Please save the executable first (for example in c:\temp), before running it. Download and run the installer before installing SuperTrans.

File	Modified
File SuperTrans-32bit.msi v1.01 - installer for windows 32-bit	18-02-2011 by Wiebe de Boer
File SuperTrans-64bit.msi v1.01 - installer for windows 64-bit	18-02-2011 by Wiebe de Boer

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Note2: Running the application on Windows 7 may give you the following error message (shown for DelftDashboard):



The screenshot shows a Windows command prompt window titled "C:\Windows\System32\cmd.exe". The text inside the window is as follows:

```
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

c:\Program Files\Delft Dashboard\bin>DelftDashBoard
My Own Exception: Fatal error loading library C:\Program Files\MATLAB\MATLAB Compiler Runtime\v711\bin\win32\mclmcr.dll Error: The application has failed to start because its side-by-side configuration is incorrect. Please see the application event log or use the command-line sxstrace.exe tool for more detail.

c:\Program Files\Delft Dashboard\bin>
```

In this case you first need to install the vc redistributables below. Please save the redistributables first (for example in c:\temp) and consequently run the 2005 and 2008 versions (in this order). You may have to restart your pc to activate changes.

File	Modified
File vcredist_x86 (2008 SP1).exe vc redistributable 2008	10-02-2011 by Wiebe de Boer
File vcredist_x86 (2005 SP1).exe vc redistributable 2005	10-02-2011 by Wiebe de Boer

[Download All](#)

Help and support

Manual

The manual of SuperTrans can be found [here](#).

Tutorial

For the use of the graphical user interface, check the video tutorial below.

Feedback

This page facilitates the feedback of the users of SuperTrans.

Bugs

Bugs can be reported via the issue-management system at <http://issues.openearth.nl>.

T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
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[No issues found](#)

Forum

At the SuperTrans forum you can post questions and remarks or start a discussion.