

Satellit-Geofysik Øvelse 2011-11-21.

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Installation guides:

Installation guide for NETCDF (under udarbejdelse)

Installation guide for MATLAB. Findes på KU-net og kan downloades af studerende.

Optional. Installation guide for OCTAVE. (light-weight MATLAB)

Download and install from <http://www.gnu.org/software/octave/download.html>

Installation guide for GRAVSOFTE.

The GRAVSOFTE SW suite has a GUI interface made in PYTHON and therefore it is required that your PC has PYTHON installed. Under LINUX this is normally installed by default, but for MS windows users the package must be downloaded and installed.

Find appropriate PYTHON release according to the operating system of your local PC at site:

<http://www.python.org/download/>

Use ftp to obtain the GRAVSOFTE package as:

Start command prompt (write cmd at the START/RUN)

Enter ftp <ftp.gfy.ku.dk>. Login as user: anonymous, with password: your E-mail address.

Change directory (enter: cd People/cct/kvh) (Note the commands are case sensitive.)

At the prompt enter: get pyGravsoft-296.zip

Enter quit to exit the prompt.

Manual for GRAVSOFTE is at http://cct.gfy.ku.dk/publ_cct/cct1936.pdf.

The path must be changed to include the GRAVSOFTE programs:

For windows users: find a description in appendix 2 in http://cct.gfy.ku.dk/publ_cct/cct1932.pdf.

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Installation guide for GUT.

Obtain software and data from <http://earth.esa.int/gut>. On the right side of the page you can download the GUT SW. Note that you must register before downloading the sw and the data. Enter the required information and proceed.

Download the appropriate binary and both the a priori data files and the tutorial and data files. The a priori data should be extracted to c:\GUT-2.1\apriori

Below is an extract of the official installation guide of the GUT SW describing the process for LINUX/MAC and windows users: (NOTE the default directory of the GUT files are called GUT-2.1 and this must be entered instead of only GUT)

2.2 Installation using the Binary package

2.2.1 Linux or Mac OS X

The GUT binary distribution for the Linux and Mac OS X platforms include binary executables for GUT and BratDisplay. On Linux these have been compiled on a Debian Etch system and are intended for 32-bit x86 systems using LIBC version 6. You may need to install additional runtime packages, appropriate for your Linux distribution, to use these executables. Binary packages for Mac OS X exist for both PowerPC and Intel architectures, applicable for Mac OS X 10.4 and higher. The installation of all these binary packages is the same, except for the name of the binary package itself, and the description below refers to the Linux package. For Mac OS X systems simply substitute 'mac-powerpc' or 'mac-i386' in place of 'linux' in the instructions below.

If these binary distributions of GUT are not suitable for your system you will need to build GUT from source.

The GUT installation is based on a simple directory structure with a single root directory. This directory may be located anywhere on your system, and /usr/local is the recommended location.

The installation procedure is :

- Obtain the GUT Linux binary package (gut-linux-x.y.tar.gz) and the data set package (gut-apriori.zip) and place them in a temporary directory, <GUT_TMP_DIR>.
- Select a destination directory, <GUT_DEST_DIR>, where GUT will be installed. You will need superuser privileges for the recommend location (/usr/local). If you are upgrading from a previous version of GUT you may use the existing installation directory.
- If the destination directory does not exist, create it with the command. If this is an upgrade and you wish to install in the same directory as the previous installation, you may skip this step.
% mkdir -p <GUT_DEST_DIR>
- Change to the destination directory
% cd <GUT_DEST_DIR>
- Unpack the gut-linux-x.y.tar.gz package. If asked to replace existing files, it is safe to do so.
% tar zxf <GUT_TMP_DIR>/gut-linux-x.y.tar.gz
OR
% gunzip <GUT_TMP_DIR>/gut-linux-x.y.tar.gz
% tar xf <GUT_TMP_DIR>/gut-linux-x.y.tar
- It is recommended that you add the location of the GUT command-line tool to your PATH. Consult the documentation for your login shell for details. NOTE, the GUT command-line tool executable (gut) is located in the bin subdirectory of the GUT installation (<GUT_DEST_DIR>/GUT/bin)
- Install the data sets in the data package into the apriori subdirectory of the GUT installation.
% cd <GUT_DEST_DIR>/GUT/apriori
% unzip <GUT_TMP_DIR>/gut-apriori.zip

- The installation is complete and you may now delete the binary package

2.2.2 Windows

The GUT distribution for the Windows platform is a pair of ZIP files. The installation instructions are listed below.

- Obtain the GUT Windows binary package (gut-win32-x.y.zip) and the data set package (gut-apriori.zip) and place them in a temporary folder.
- Unzip the gut-win32-x.y.zip in a folder of your choice with a ZIP utility program (ie. C:\Software). **Note that the folder 'GUT' will be created when the package is unzipped.** If upgrading from another version of GUT, you may do so in the previous GUT installation directory. If asked to replace existing files, it is safe to do so.
- Unzip the gut-apriori.zip package into the apriori folder in the GUT folder (ie. C:\Software\GUT\apriori).
- Edit the PATH variable to include the bin folder of the GUT package.
 - Start the Control Panel and select System.
 - Click the Advanced tab and then click the Environment Variables button.
 - Edit the PATH variable in the System Variables list.
 - Add ;"C:\Software\GUT\bin" to the value of the PATH.
- Start the Command Prompt application, type the command gut and press the Enter key. If the PATH was set correctly the gut command-line tool will run and display a usage message. The installation is now complete.