pyg2p Installation Manual

Version	1.2.9
Author	Domenico Nappo (domenico.nappo(at)gmail.com)
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Prerequisites

In order to run **pyg2p** application, the following python version and packages must be installed.

Most packages need additional requirements such as C libraries properly installed on the computer, for the user running the application.

Software Requirement	Purpose	Dependencies
Python 2.7	Execution environment	
NumPy 1.8	fast array manipulation	ATLAS + LAPACK libs Python header files gcc and gfortran compilers
Numexpr 2.4	Numpy extension for optimal performances	Numpy>=1.8
SciPy 0.11	interpolation	ATLAS + LAPACK libs Python header files gcc and gfortran compilers
gribapi	reading grib files, interpolation	GRIB_API>=1.10.4
GDAL python	reading and writing pcraster maps	GDAL lib and its requirements.
untangle 1.1	xml parsing	
memory_profiler (optional)	Memory usage information for test suite.	psutils

Installation

1. Decompress the file *pyg2p_v.<version>.tar.gz* in the <target directory> using tar xzvf *pyg2p_v.<version>.tar.gz*.

2. cd <target directory> and issue the command **python test_reqs.py**. If some required packages are missing, install them. If core packages are missing, contact the developer.

3. Modify the first line of **pyg2p.py** to point to the desired python interpreter if you will execute the application as **./pyg2p.py.**
   Otherwise execute the program with **/path/to/python ./ pyg2p.py**

4. Configure the application (see Configuration Manual).

5. The application is shipped with some configurations of example in execution_templates folder. Just adjust paths and parameters for fire tests. Also, use the -t option for comparing results with the grib2pcraster C application. Read User Manual first.

6. Ready to start.