**GFE\_rename\_modules[¶](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/AppGfeRenameModules" \l "GFE_rename_modules" \o "Link to this section)**

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**Description**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/AppGfeRenameModules#Description)

This is a utility to export AWIPS 1 GFE SmartTool, Procedure, etc. modules to files suitable for use in AWIPS 2. The AWIPS 1 ifpServer program maintains files in /awips/GFESuite/primary/data/database with mangled names. Tool, Procedure, etc. names as seen in the GFE GUI actually represent Python modules but the GUI allows the names to contain non-alphanumeric characters. The ifpServer translates certain characters to code strings in the filename used to store the Python code on disk. For instance, an underscore in the GFE name gets translated to "\_FP" in the actual filename. These mangled filenames must be converted for use with AWIPS 2. The AWIPS 1 modules also have non-standard Python extensions such as .Procedure, .Tool, etc. GFE\_rename\_modules converts all modules to have the standard Python extension of .py.

This program is intended to be run on AWIPS 1 as a precursor GFE migration step prior to actually porting code.

**Source Code**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/AppGfeRenameModules#SourceCode)

* [Browse code](https://collaborate.nws.noaa.gov/trac/ncladt/browser/trunk/gfe/applications/GFE_rename_modules)
* Subversion:
* svn checkout https://collaborate.nws.noaa.gov/svn/ncladt/trunk/gfe/applications/GFE\_rename\_modules

**Installation**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/AppGfeRenameModules#Installation)

Copy GFE\_rename\_modules.py and GFE\_unmangler.py onto a dx server on AWIPS 1 and make sure GFE\_rename\_modules.py has execute permissions. This is more of a run once utility program than something that needs to be permanently installed.

**Usage**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/AppGfeRenameModules#Usage)

GFE\_rename\_modules.py [-e] <GFE Dir> destination

where <GFE Dir> is the top level directory where GFE is installed (i.e., /awips/GFESuite/primary) and destination is where the renamed files will be put. The destination directory must exist prior to running and be a full path not a relative path. Since this reads the GFE files from disk, this program must be run on a dx server to access GFE files in /awips/GFESuite/primary. The output files will be in a directory hierarchy similar to the AWIPS 1 GFE structure. All GFE user directories are processed.

The -e switch is optional and means all files will be renamed with a '.py' extension. The default behavior is to use extensions that represent ifpServerText classes (.Tool, .Procedure, etc.). The -e argument, if used, must be the first argument.

Not all names GFE supports in the GUI are valid filenames. For instance, a GFE name could have a "/". This is a directory token so the converted filenames cannot use this. Warning message will be output for names that have been changed and for possible illegal filenames.