NAME

pp2cf – PP to CF-netCDF file converter

SYNOPSIS

pp2cf [-a opts] [-d dir] [-f format] [-o outfile] [-r opts] [-t table] [-u VN] [-v] [-V] FILE [FILE ...]

DESCRIPTION

Convert multiple PP files to a single CF-netCDF file or convert multiple PP files to multiple CF-netCDF files on a file by file basis.

PP fields contributing to the same output netCDF file are aggregated into as few multidimensional netCDF variables as possible using the aggregation rules based on the CF data model. See *http://www.met.reading.ac.uk/˜david/cf_aggregation_rules.html*

The conversion is carried out internally using the python cf package which must be installed. See *http://code.google.com/p/cf-python*

See *http://www.met.reading.ac.uk/˜david/pp2cf.html* for more details and examples.

-a options, --aggregate_options=options
> Customize the field aggregation process: The 'messages' option controls whether to (1) or not to (0, the default) print information messages on the aggregation process.
>
> For example, -a 'messages=1'

-d dir, --directory=dir
> Create an output netCDF file for each PP file and place each output file in this directory. If unset and the -o option is also unset then each netCDF file will be created in the same directory as its corresponding PP file. In any case, each netCDF file will have the same non-directory portion of the PP file's path name, except with the suffix '.nc'.

-f format --format=format
> Set the netCDF format of the output file(s). Valid choices are 'NETCDF4', 'NETCDF4_CLASSIC', 'NETCDF3_64BIT', and 'NETCDF3_CLASSIC'. If unset then defauts to 'NETCDF3_CLASSIC'.

-o outfile, --output=outfile
> Convert the contents of all PP files to this netCDF file. If unset then an output netCDF file will be created for each PP file (see the -d option for details).

-r options, --read_options=options
> Customize the reading of the input files: The 'squeeze' option controls whether to remove all size 1 dimensions from the data array (1, the default) or force the data array to span all size 1 dimensions (-1); the 'ignore_ioerror' option controls whether to (1) or not to (0) ignore unreadable files (default 0, the default); the 'aggregate' option controls whether to (1, the default) or not to (0) aggregate the input fields (default 1).
>
> For example, -r 'squeeze=-1, ignore_ioerror=1'

-t table, --table=table
> Provide a different PP STASH code to CF standard_name conversion table. The default table is the file 'etc/STASH_to_CF.txt' located

in the cf-python installation directory. The most up to date ver-
sion   of   the   table   may   be   found   at
http://puma.nerc.ac.uk/STASH_to_CF/STASH_to_CF.txt

-u VN, --umversion=VN
Use this UM version when translating PP STASH codes to CF standard
names. If unset then the UM version is taken from the environment
variable UMVERSION. In either case, if a PP field specifies a UM
version in its header then this will be used in preference.

-v, --verbose
Verbose. Display a summary of newly created netCDF files.

-V, --Version
Display the version.

EXAMPLES
man pp2cf

pp2cf file.pp

pp2cf -o output.nc file.pp

pp2cf -d directory file.pp

pp2cf *.pp

pp2cf -u 7.6 file1.pp file2.pp
export UMVERSION=7.6
pp2cf file1.pp file2.pp

pp2cf -f NETCDF4 -t user_table.txt -v directory/file*.pp

pp2cf -a messages=1 -r "squeeze=-1, ignore_ioerror=1" file*.pp

pp2cf -V

AUTHOR
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source.org/licenses/mit-license.php*

BUGS
The   author   would   welcome   reports   of   bugs   at
http://code.google.com/p/cf-python/issues/list