**Introduction**

Mkgmap is a java command line program. By specifying the needed options as arguments tot the program it is executed with these options. The way the application must be called partially depends on the operating system it is running on. Be aware that spaces, quotes and special characters behave differently on different platforms causing unexpected behavior.

Options for mkgmap can be used on the command line but also be grouped together in so called argument-files (.arg) which are easier to maintain. Instead of supplying all options seperately you can use a single option pointing to this arg file --c=myoptions.arg

**Command line**

The command line is of the format:

java.exe [java-options] -jar mkgmap.jar [mkgmap-options]

The command line is basically set up in multiple sections. In every section the order of the options can make a difference. It depends on wether the option should be applied to all subsequent (splitter) tiles to be processed or not.

For bigger maps you first need the splitter program to cut the bigger map in pieces and supply the splitted pieces to mkgmap. Splitter will generate a splitter.arg file for you with references to all the map-tiles which can be supplied on the command line.

As last section on the command line, optionally a typ-file can be specified which gives the map another look. The type-file used must have the same family id (FID) as the map to be generated as well does not always work on all devices if not of codepage 1252. Use a typ-file editor or mkgmap itself to create a valid typ-file, prior to execution of your map.

Sections

1. Java options
2. Mkgmap options
3. Splitter tiles
4. Typ-file

Example of full usage of the command line

Java -Xmx2048m -jar "c:\garmin\mkgmap\mkgmap.jar"

--output-dir="c:\garmin\newmap"

--c="c:\garmin\mkgmap.args"

--description="my first map"

--c="c:\garmin\newmap\splitter\template.args"

"c:\garmin\mapnik.typ"

Additionally you can add logging and sent all the output to two different logfiles

 1>>"c:\garmin\newmap\build.log"

 2>"c:\carmin\newmap\mkgmap.log"

All options should be on a single line divided by spaces or comma’s. Filepaths are best “quoted” to avoid mis-interpretation. If a gmapsupp file has to be created the -- description option should be at right position to be sure it’s used in stead of the first splitter tile.

**Create optional typ file with mkgmap**

Java -jar "c:\garmin\mkgmap\mkgmap.jar" --output-dir="c:\garmin\mymap” --family-id=8000 --code-page=1251 “c:\ garmin\mapnik.txt"

**Java options**

Details of the Java options are available at docs.oracle.com. The most likely options you may need to use are:

-Xmx<size>[g|G|m|M|k|K]

Use this option to set the maximum Java heap size in GB, MB, KB or bytes. Mkgmap allows the use of multiple CPU cores, and the amount of heap memory required increases proportionally with the number of CPU cores being used. The default value may not be sufficient to allow mkgmap to use all the available CPU cores, which will cause the run time to be longer than necessary or can cause mkgmap to crash if it runs out of memory. To allow mkgmap to run optimally, you may need to use this option to allow more memory to be allocated to the Java heap. Note there is no space or equals sign in the option.

-enableassertions

-ea

Causes an error to be thrown if an assertion written in the mkgmap code is evaluated as not true. This is useful in detecting bugs in the mkgmap code.

-Dlog.config=filename

Specifies a logging configuration file that allows you to enable and disable specific logging messages. This is useful if you want to see certain types of message that are not logged by default or choose where the messages should be written.

**Mkgmap options**

The order of the options is significant in that options only apply to subsequent input files. If you are using splitter, you probably will need to put most of your options before '-c template.args' (this file is generated by splitter).

**Information options**

These options provide information and do not require any input files.

--help[=help|options|links|copyright|logging]

Display help on the given topic. If the topic is omitted then general help information is displayed, the same as in help=help.

--version

Write program version to stderr.