

ASCIGRID

Converting ASCII grids into binary grids

command: `ascigrd <ascii-grid> <binary-grid>`

During the conversion a statistic of all valid cell values is calculated and stored in the records 7 to 12 of the binary grid. The statistic parameters are count, minimum, maximum, sum, average, and standard deviation of all valid cells. Nodata values does not count for the statistics. **Note:** The maximum size of a grid depends on the memory of the computer as well as on the data itself. Because the statistics needs an internal sum of all squared values, an arithmetic overflow may happen if the values are very large. This should happen in extremely rare cases only, because the statistic registers are able to deal with numbers up to $\pm 1.0E+4300$ (Intel PC).

GRIDASCI

Converts binary grids into ASCII-formatted grids. The default precision is the optimum precision chosen by the system. However, its possible to specify a precision parameter as last parameter of the program. It may range between 0 and 9 with 9 indicating the optimum precision like the program would generate without precision option. **Note:** A precision of 0 may lead to large errors duo to rounding!

The output is formatted as shown in the example in chapter 3.2.1. The grid values are written row by row downwards like in a table. Separators are tab stops between grid cells and a line feed at the row end. If such files should be transferred between different systems (UNIX \leftrightarrow DOS/WINDOWS) the transfer should be done using e.g. ftp or programs which convert line feeds correctly (e.g. unix2dos, dos2unix).

Command: `gridasci <binary-grid> <ASCII-grid> [<significant digits>]`

Example for a grid in ASCII format:

```
ncols      7
nrows     12
xllcorner  680500
yllcorner  222200
cellsize   2000
nodata_value -9999
-9999 -9999 -9999 -9999 -9999 -9999 -9999
-9999 -9999 -9999 -9999 -9999 -9999 -9999
-9999 -9999  586  559  595  601  585
  584 -9999 -9999 -9999 -9999 -9999 -9999
-9999  449 -9999 -9999 -9999  454  511  551
-9999  561  529  509  498  487  499
  521  523  523  534 -9999 -9999 -9999
-9999 -9999 -9999 -9999 -9999 -9999 -9999
-9999 -9999 -9999 -9999 -9999  345  234
  567  453  456  478  789  576  482
  123 -9999 1252 1211  876  564  825
-9999 -9999  234 1246 -9999 -9999 -9999
```