

How to Use 123toG

Version 1.42

The *123toG* program is used to convert series from a Lotus .WK1 spreadsheet, in an appropriate format, into a G databank or an ASCII file of G "data" statements. When working with data from Lotus or other spreadsheets, it is often more convenient to use *123toG* than making a .PRN file from Lotus and then using the *G* command "matdat". This program can handle up to 239 series in column mode, and up to 400 per spreadsheet in row mode. The format of the spreadsheet is similar to that resulting from using the *G* "p123" or "rp123" commands. The box below shows a sample input spreadsheet that would be used to create a databank using *123toG* in column mode.

Sample 123toG Input Spreadsheet

	A	B	C	D	E	F	G
1	A	70	92				
2	Dates	qchem	qiron	qmach	qelec	qtron	qmotv
3	70	90055.0	65646.0	12958.0	35401.0	38094.0	66446.0
4	71	91482.1	61375.0	10182.0	34991.0	36015.0	83784.0
5	72	103057.3	66389.0	12165.0	39687.0	40362.0	92409.0
6	73	113518.4	78516.0	14853.0	45348.0	47499.0	107252.0
7	74	116051.3	82171.0	14186.0	43440.0	46936.0	90318.0
8	75	99262.5	62956.0	11385.0	35103.0	41564.0	79778.0
9	76	112540.0	66755.0	11751.0	39721.0	47892.0	103487.0
10	77	122012.0	65752.0	13857.0	45597.0	59063.0	119010.0
11	78	128727.0	70816.0	14706.0	48200.0	69690.0	124636.0
12	79	132894.0	72430.0	15353.0	50006.0	83443.0	113712.0
13	80	124637.0	60734.0	14925.0	46683.0	95458.0	80746.0

The row and column headers (1,2,3,... and A,B,C,...) are as displayed by 123. The input file must have a single letter in cell A1. This letter should be 'A' for annual series, 'Q' for quarterly series, and 'M' for monthly series. The next two cells, B1 and C1 are the starting and ending dates for the series. Note that these dates are in standard *G* date format, with a year followed by a decimal, followed by a 1 digit period number for quarterly data, or a three digit period number for monthly data. On row 2 of the spreadsheet, the names of the series should be put, one legal *G* name for each series. Column A is reserved for the dates, and the cell A2 can be left blank (when written by "p123" from *G*, it contains the word "Dates"). The series are then in a rectangular array starting at cell B3.

In row mode, the dates run across the 2nd row (where the series names are in column mode), and the series names are in the column A. In other words, the dates and series names are simply switched, and the positions of the data change accordingly. The frequency and interval information is specified in the same location for both modes.

To use *123toG*, use the calling format:

```
123tog <wk1file> [<gbank>] [-d] [-r] [-f<filelist>] [-o<outputfile>]
```

The <wk1file> argument is the root of the filename of the .WK1 file, without the extension. The <gbank> argument is optional. Give here the root name of the G bank (without the .bnk and .ind

extensions). If no <gbank> is provided, the G bank will be given the same root name as the .WK1 file. If the spreadsheet(s) you want to read in is/are in row mode, use the "-r" option. If you want your output to be in an ASCII file of G data cards, instead of a G bank, use the "-d" option.

123toG can be used to read a series of .WK1 files in one session. Just type the names of the files into a list file, and give this list file using the "-f" option. In this case, you may also want to specify the name of the output file, using the "-o" option. For example,

```
123tog -flist.fil -omacro -d -r
```

would read a list of spreadsheets from the file `list.fil` and write the results in the output file `macro.dat`. The "-r" option indicates that all of the spreadsheets are read in row format.

Currently, *123toG* sets the base year of the G bank as the starting year of the data in the first .WK1 file. In column mode it takes a maximum of 239 series, with up to 200 observations each. In row mode it can handle up to 375 series, with 200 observations each. With the source code of the program available, these parameters can be changed, if desired, although there are memory limits when running in plain DOS. A protected-mode version of this program is also available. In column mode, there is still a maximum of 239 series, but with up to 1000 observations each. In row mode, there can be up to 1000 series, with up to 239 observations each.

The program is written in C++, and illustrates the use of the WK1File and GBank classes developed by Inforum. The program 123TOG.EXE can be found in the directory G:\PDG. For questions about using the protected-mode version (123TOGX.EXE), ask Douglas Meade.