

GemBox Support Center

Portal > Knowledgebase > GemBox.Spreadsheet > How many rows does the GemBox.Spreadsheet support

How many rows does the GemBox.Spreadsheet support

Mario - GemBox - 2017-02-10 - 0 Comments - in GemBox.Spreadsheet

GemBox.Spreadsheet's Load and Save method have limitations on the maximum number of rows, columns and sheets based on the file's format.

For example, the XLS file format specifies worksheet size of 65,536 rows and 256 columns and the XLSX file format specifies worksheet size of 1,048,576 rows and 16,384 columns ([XLSX specifications and limits](#)). Additionally GemBox.Spreadsheet's model has the same limitations as XLSX file format (the file format closest to [GemBox.Spreadsheet Content Model](#)).

The entire excel file is loaded to the rich model (rows, cells, styles and other objects) so an appropriate memory will be required (for more cells you would need more memory). You can confirm the amount of spreadsheet data you handle with the GemBox.Spreadsheet by evaluating its performances on your machine.

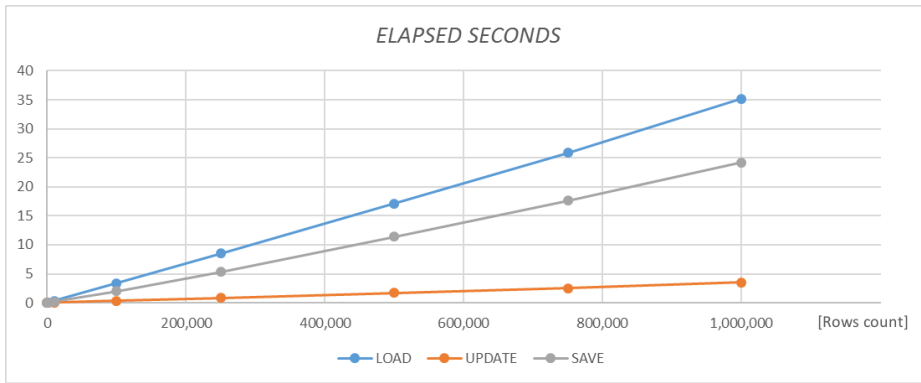
The following link contains an example of how you can [test GemBox.Spreadsheet's performances on large spreadsheet files](#).

GemBox.Spreadsheet Benchmarks Charts

The following are results of GemBox.Spreadsheet's performances on a large spreadsheet file.

The used test file contained a single sheet with 10 columns and performances were measured on the interval from a single row to 1 million rows.

ELAPSED SECONDS [s]										
ROWS COUNT	1	10	100	1,000	10,000	100,000	250,000	500,000	750,000	1,000,000
LOAD	0.001	0.001	0.004	0.035	0.323	3.396	8.528	17.131	25.838	35.150
UPDATE	0.001	0.001	0.001	0.005	0.034	0.343	0.830	1.691	2.544	3.528
SAVE	0.003	0.005	0.006	0.022	0.189	1.975	5.313	11.412	17.633	24.201



ALLOCATED MEMORY [MB]

ROWS COUNT	1	10	100	1,000	10,000	100,000	250,000	500,000	750,000	1,000,000
LOAD	0.085	0.092	0.15	0.725	6.542	64.392	160.338	320.588	482.887	641.091
UPDATE	0	0	0	0	0	0	0	0	0	0
SAVE	0	0	0	0	0	0	0	0	0	0

