

## Introduction

The AtteStat statistical data analysis program is designed for researchers of biomedical, sociological, technical and other problems.

The program can be used in the preparation of articles for publication in accordance with modern requirements for the quality of statistical analysis of experimental material. In addition to implementing parametric and nonparametric methods of hypothesis testing and analysis of variance, the program checks the normality of the distribution, calculates the achieved significance levels and confidence intervals.

## 1. Installing the program

To install the program, run the distribution file for execution, making sure that the Excel program is available.

## 2. Working with the program

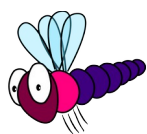
To work with the program, run spreadsheets or use the AtteStat icon.

- The interval of the source data in the AtteStat program refers to the range of cells of a spreadsheet sheet containing numerical or other data for calculation. The data format requirements are set by the appropriate calculation method. There may be several intervals of the source data, depending on the method. They can contain both individual samples and source data matrices, as well as contain or not contain missing data.
- The output interval (output interval) refers to the range of cells into which the calculation results will be output. The output is made starting from the upper left corner of the selected range. Thus, only one cell can be specified as the output interval, starting from which the calculation results will be output. AtteStat methods do not estimate the expected output volume, so you should be careful when specifying the output interval so as not to erase the necessary data contained in the cells of the sheet located below.

Select the AtteStat item added by the software from the program menu, then the section necessary for the calculation.

Further actions of the user depend on the requirements of the corresponding methods. The user is usually required to specify the source data interval and the output interval, as described above. It is also necessary to select, enter, mark or leave by default the calculation method and auxiliary parameters, the nomenclature and quantity of which depend on the method used. Some parameters may apply to all the methods presented. Other parameters apply only to some.

Standard undo operations of the type of selection from the Edit menu are not



applicable to all methods of the AtteStat software | Cancel ..., therefore, you should be careful, and before performing the calculation, it is strongly recommended to save your files by selecting from the File | menu Save.

## 3. Licenses

The developers of the AtteStat program adhere as much as possible to the licensed purity of both the software created by themselves and used in the development of ready-made software - libraries, without which the software will not function, and development tools.

The AtteStat program has a standard GPL license version 3. In accordance with the requirements of GNU and FSF, the authentic text of the license is bundled with the AtteStat program. Free for commercial use.

The AtteStat project uses ME.com - a C++ library for data analysis and processing, distributed under the GPL license version 3. The library can be freely obtained as part of the source code of the project or from the author of the library Igor Gaidyshev. Free for commercial use.

To build the AtteStat library, the Embarcadero Dev-C++ integrated development environment with the Mingw compiler from GCC (GNU Compiler Collection), distributed under a proprietary license, can be used. The toolkit can be freely obtained from the website [www.embarcadero.com](http://www.embarcadero.com) Embarcadero Technologies companies. Free for commercial use.

To create the AtteStat installer, Inno Setup software is used, distributed under the original license. The toolkit can be freely obtained from the website [jrsoftware.org](http://jrsoftware.org) from the author of the toolkit Jordan Russell. Free for commercial use.

The dragonfly image used in the AtteStat program logo is distributed under the Creative Commons CC0 license, belongs to the Public Domain category and can be freely obtained from the site [pixabay.com](http://pixabay.com) (catalog number 29611). Free for commercial use, attribution is not required.