

Documentation for the 2nd IVS Project

VUT FIT

Gde body

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Contents

1	Installation	2
1.1	Automated Installation (Recommended)	2
1.2	Manual Installation (From Source Code)	2
2	Uninstallation	3
2.1	Automated Uninstallation	3
2.2	Manual Uninstallation	3
3	Using the Software	4

1 Installation

1.1 Automated Installation (Recommended)

The easiest way to install the calculator and the profiling tool is using the Debian installer (.deb). This method automatically handles dependencies.

1. Open your terminal and go to the directory containing the .deb files.
2. Run the following command to install the GUI calculator:
`sudo apt install ./calculator-gde-body-1.0.0-Linux-calc.deb`
3. To install the standard deviation profiling tool, run:
`sudo apt install ./calculator-gde-body-1.0.0-Linux-stddev.deb`

1.2 Manual Installation (From Source Code)

For manual installation, do this. This method is recommended only for experienced users, with bash knowledge

1. First, install the required build tools and Qt6 dependencies:
`sudo apt install build-essential cmake qt6-base-dev qt6-tools-dev qt6-tools-dev-tools`
2. Navigate to the root directory of the project repository and compile the project:
`make`
3. Copy the compiled executables to the system binaries folder:
`sudo cp build/qt/calc /usr/bin/`
`sudo cp build/stddev /usr/bin/`
4. Register the desktop application shortcut and its icon:
`sudo cp icon.xpm /usr/share/pixmaps/`
`sudo cp calculator.desktop /usr/share/applications/`
5. Create a documentation folder and copy the manual:
`sudo mkdir -p /usr/share/doc/calculator-gde-body/`
`sudo cp manual.pdf /usr/share/doc/calculator-gde-body/`

2 Uninstallation

2.1 Automated Uninstallation

To remove the programs installed with Debian packages, open terminal and run this command:

```
sudo apt remove calculator-gde-body-calc calculator-gde-body-stddev
```

2.2 Manual Uninstallation

If you used manual installation, you must delete the files from the system directories yourself. Run these commands:

```
sudo rm /usr/bin/calc /usr/bin/stddev  
sudo rm /usr/share/applications/calculator.desktop  
sudo rm /usr/share/pixmaps/icon.xpm  
sudo rm -rf /usr/share/doc/calculator-gde-body/
```

3 Using the Software

Description of the user interface and how to perform mathematical operations.

When you open the calculator, on the top lays the info button. When clicked, it opens a submenu with two buttons

- **Help** - Opens this manual
- **About** - Shows info about the authors and the version

For input, you can use your keyboard, or press the buttons on the screen:

- **0-9** - Numbers
- **,** - Floating point
- **x^y** - X to the power of Y
- ***** - Multiply
- **/** - Divide
- **+** - Add
- **-** - Subtract
- **()** - Adds a pair of braces
- **||** - Absolute value, for keyboard input write @()
- **\sqrt{x}** - Nth root, for keyboard input write ()r()
- **!** - Factorial
- **ans** - Previous answer
- **=** - Calculates result
- **DEL** - Deletes last symbol
- **AC** - Clears the input

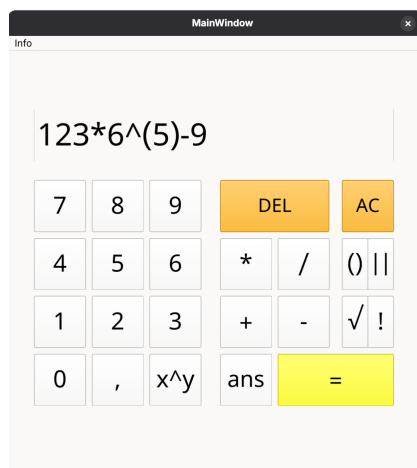


Figure 1: Photo of the calculator