

Digital Photogrammetric System

PHOTOMOD

Version 8.1

USER MANUAL

EGM2008 Geoid installation
(Linux)

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1. Introduction

The present document is a brief instruction to **EGM2008** geoid installation.

2. EGM2008 Installation

Requirements to install **EGM2008** geoid:

- pre-installation of the *PHOTOMOD*, *PHOTOMOD Lite*, *PHOTOMOD UAS*, *PHOTOMOD Conveyor* or *PHOTOMOD AutoUAS* system;
- **EGM2008** geoid program files require 600 MB of free hard disk space for installation.

To install **EGM2008** geoid, download the `EGM2008.deb` (or `EGM2008.rpm`) file, depending on the current *Linux* distribution (see below).



The file is available on official *Racurs* company web-site www.racurs.ru.

2.1. Operating system requirements

A hallmark of *Linux* operating system is that performance features of its distributions may differ significantly from each other.

2.1.1. Geoid installation (Astra Linux 1.7 / Astra Linux 1.8)

To install **EGM2008** geoid perform the following:

1. [optional] Close all modules of the *PHOTOMOD* system, installed before (if exist);
2. Launch a **Terminal** window;
3. In **Terminal** window move to the folder containing `EGM2008.deb` installation file;

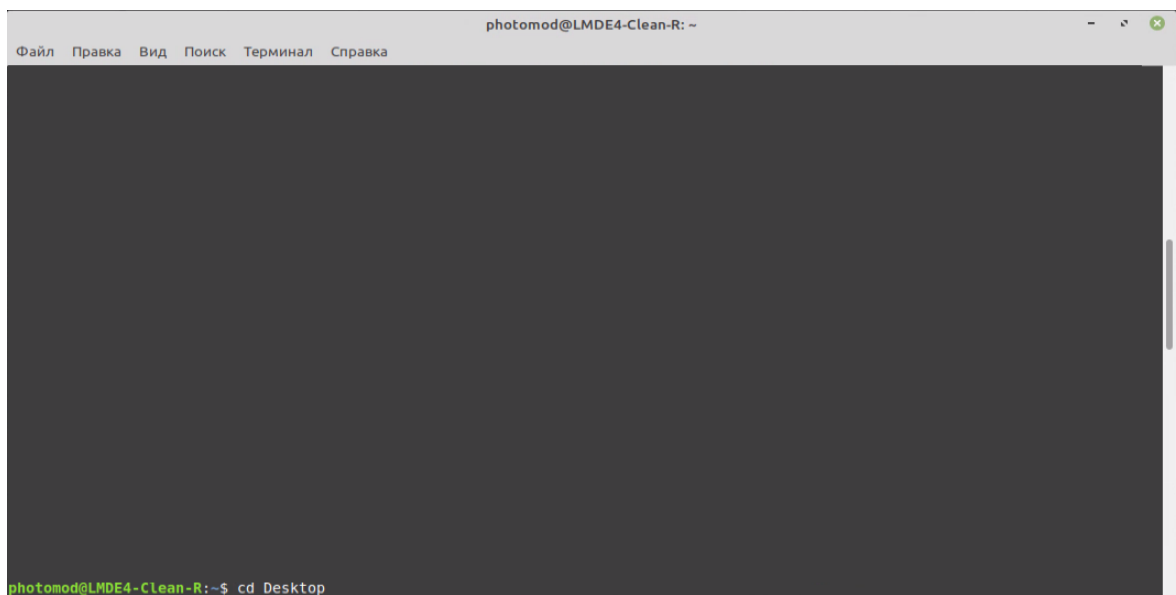


Fig. 1. The Terminal window

4. Type the following command in the **Terminal** prompt:

```
sudo apt install ./EGM2008.deb
```

Press **Enter** to execute it.

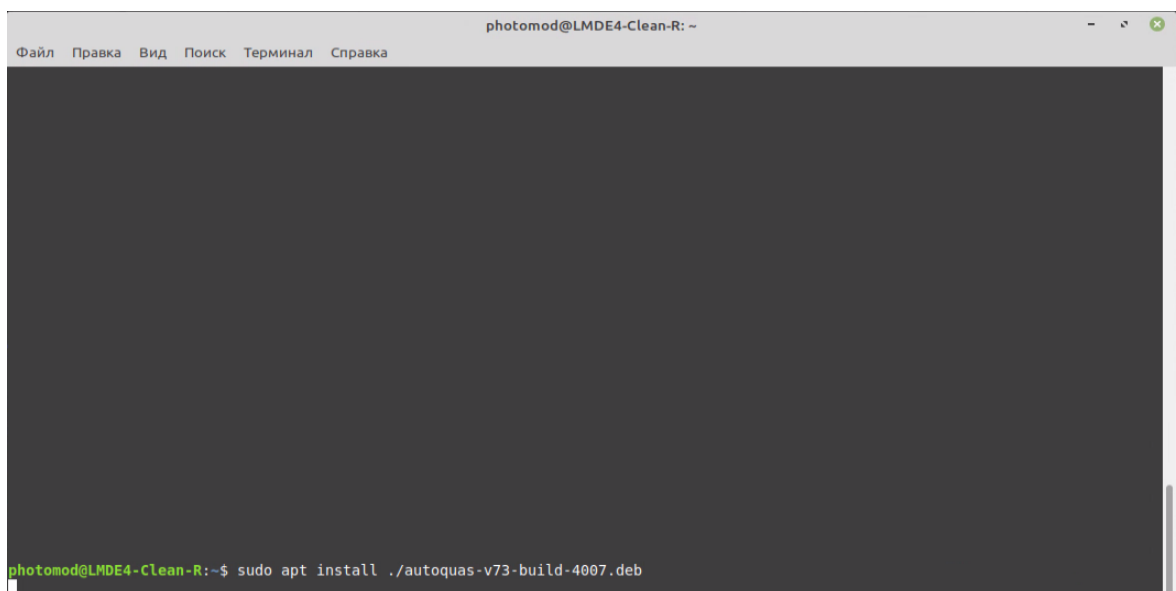


Fig. 2. The Terminal window

5. [optional] Confirm your action by entering your account password:

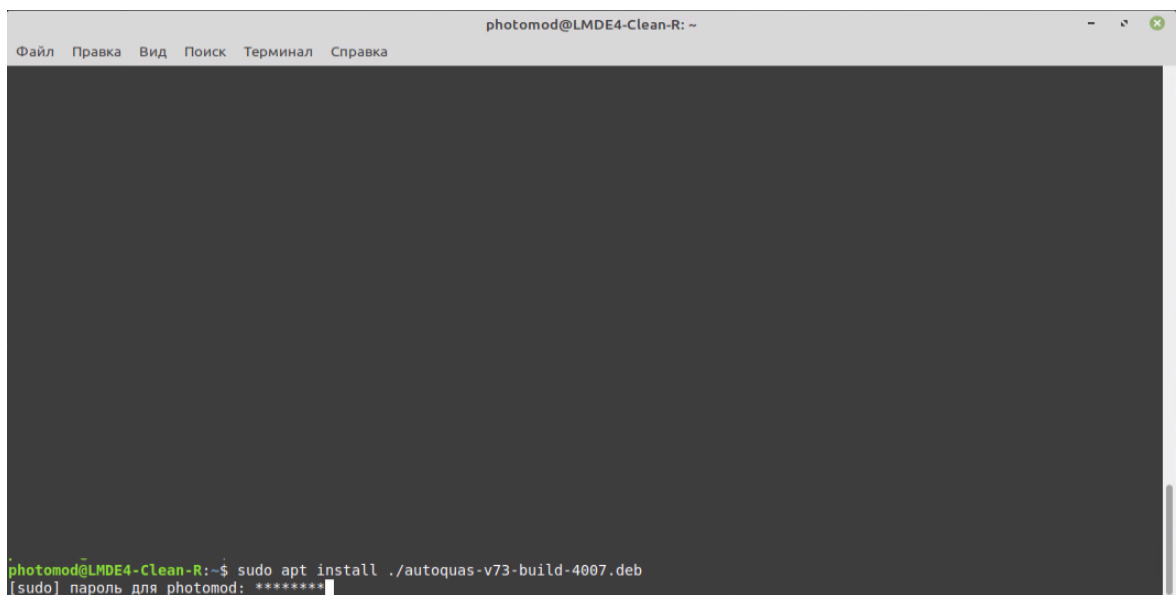


Fig. 3. The Terminal window

6. Wait until operation is completed;

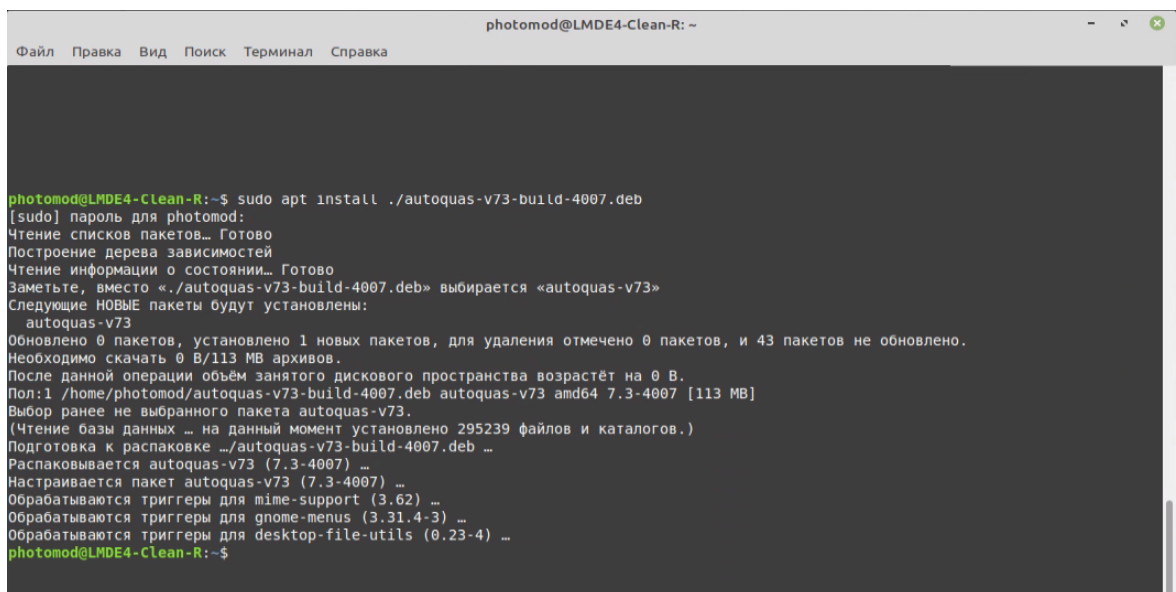


Fig. 4. The Terminal window

By default **EGM2008** geoid is installed in `/opt/racurs/geoids` folder.

2.1.2. Geoid installation (RED OS 8.0)

To install **EGM2008** geoid perform the following:

1. [optional] Close all modules of the *PHOTOMOD* system, installed before (if exist);

2. Launch a **Terminal** window;
3. In **Terminal** window move to the folder containing EGM2008.rpm installation file;

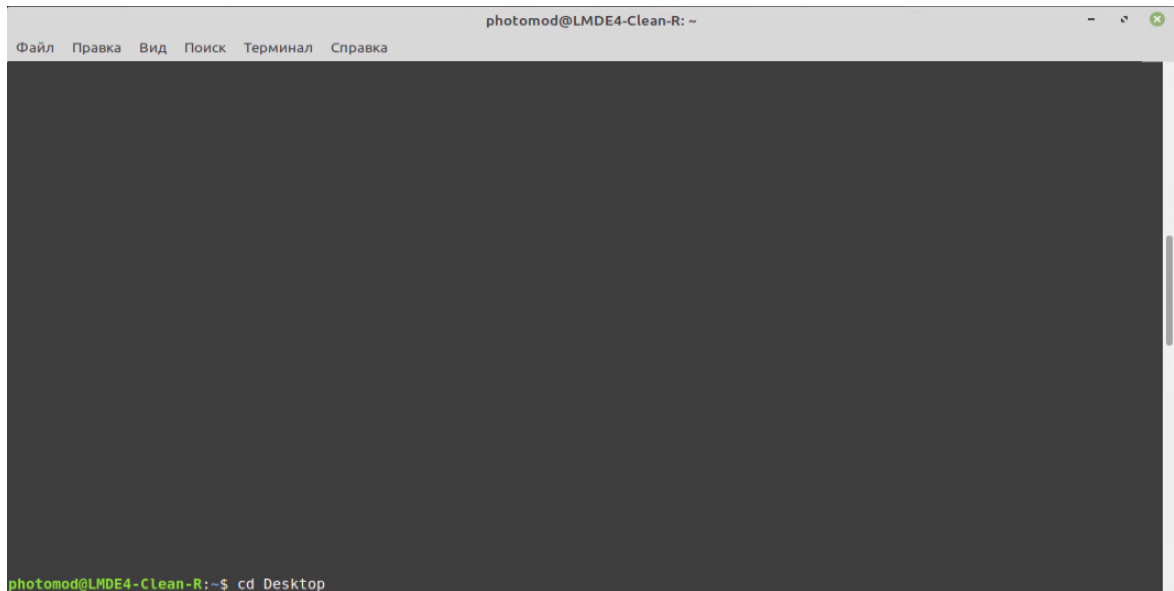


Fig. 5. The Terminal window

4. Type the following command in the **Terminal** prompt:

```
sudo dnf install ./EGM2008.rpm
```

Press **Enter** to execute it.

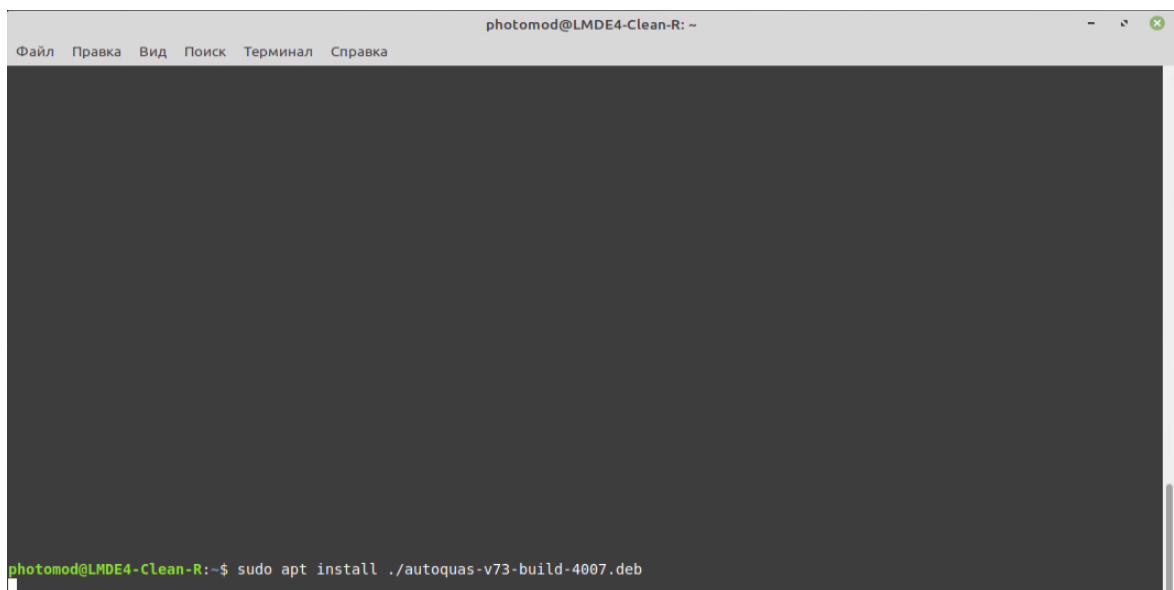


Fig. 6. The Terminal window

5. [optional] Confirm your action by entering your account password:

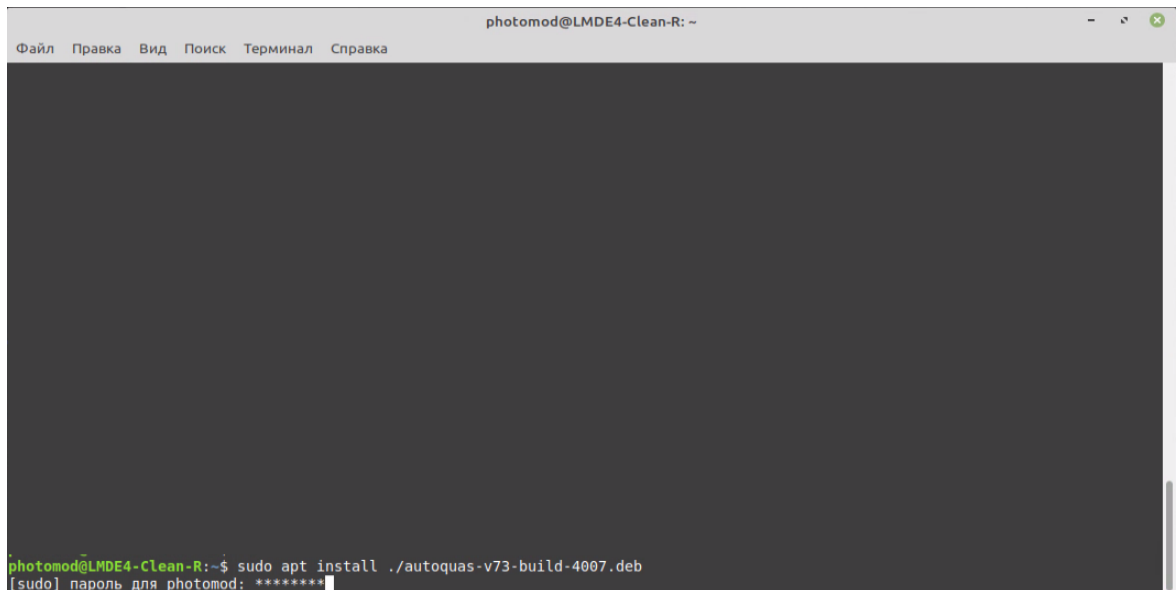


Fig. 7. The Terminal window

6. Wait until operation is completed;

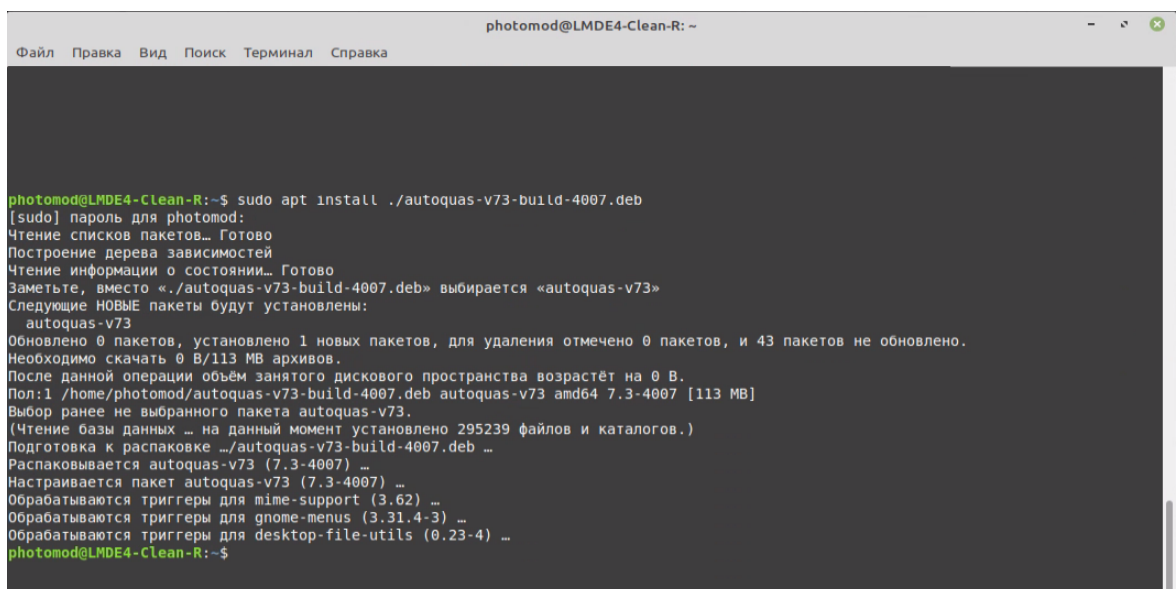


Fig. 8. The Terminal window

By default **EGM2008** geoid is installed in */opt/racurs/geoids* folder.

2.1.3. Geoid installation (ALT Linux 10.4)

To install **EGM2008** geoid perform the following:

1. [optional] Close all modules of the *PHOTOMOD* system, installed before (if exist);
2. Launch a **Terminal** window;
3. In **Terminal** window move to the folder containing EGM2008 . rpm installation file;

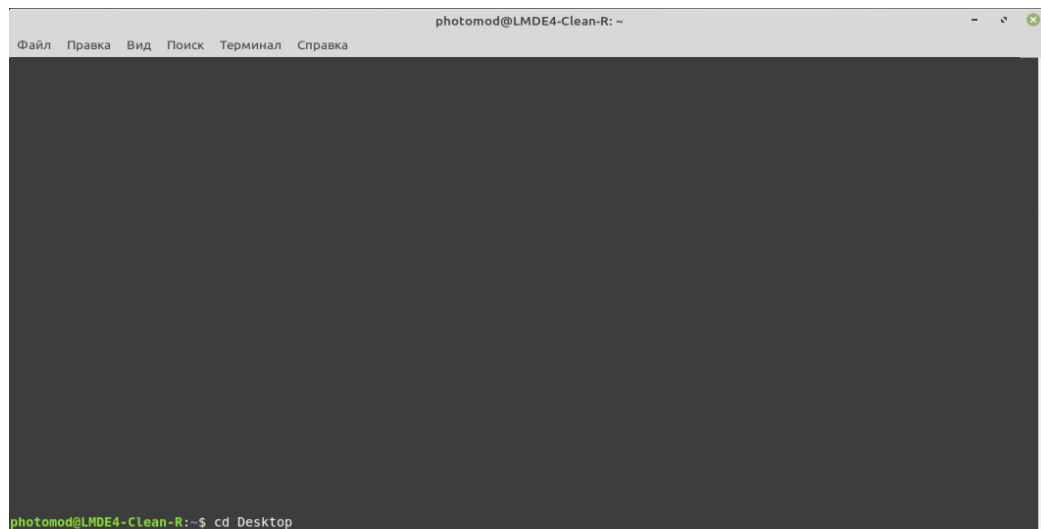


Fig. 9. The Terminal window

4. Type the following command in the **Terminal** prompt:

```
sudo apt-get install ./EGM2008.rpm
```

Press **Enter** to execute it.

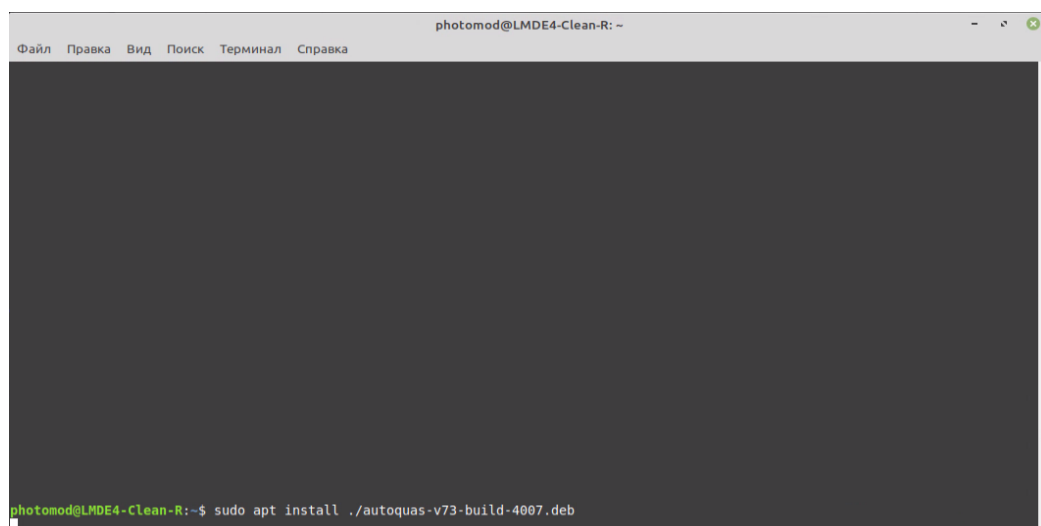


Fig. 10. The Terminal window

5. [optional] Confirm your action by entering your account password:

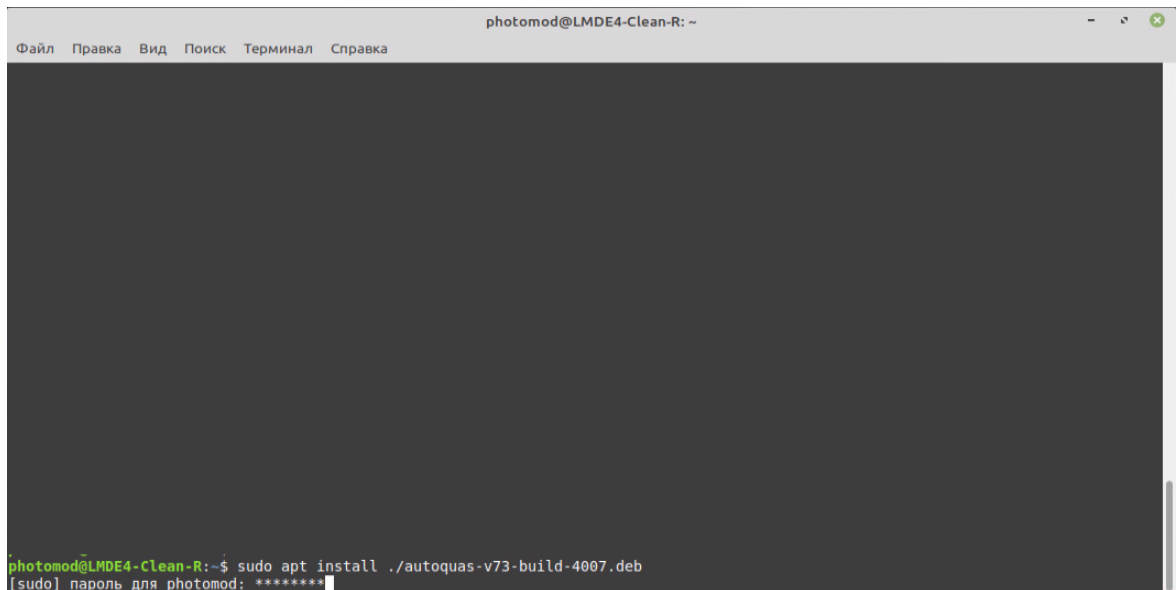


Fig. 11. The Terminal window

6. Wait until operation is completed;

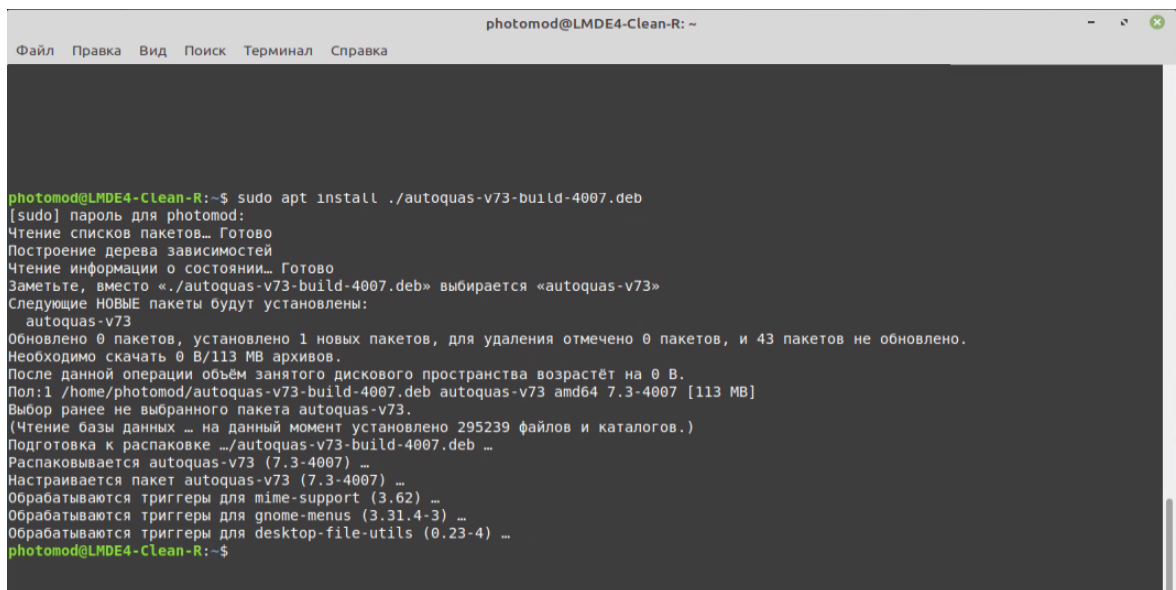

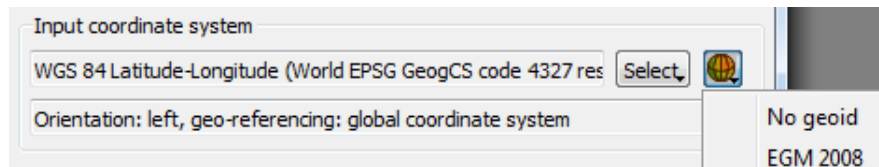


Fig. 12. The Terminal window

By default **EGM2008** geoid is installed in */opt/racurs/geoids* folder.

3. Using EGM2008 geoid in the system

To use **EGM2008** geoid in the system, click the  button that allows to choose geoids from a list or cancel the using of the geoid.



4. Using EGM2008 geoid in GeoCalculator

PHOTOMOD GeoCalculator shares the installed **EGM2008** geoid with *PHOTOMOD*. The information about the installed geoid is stored in the *PHOTOMOD* settings folder (*PHOTOMOD8.VAR*), which is shared by *PHOTOMOD* and *PHOTOMOD GeoCalculator* (this folder is used even if *GeoCalculator* is installed and used as a separate application).



If *GeoCalculator* is installed for the first time as a separate application on a workstation where *PHOTOMOD* software products haven't been installed before, the *PHOTOMOD8.VAR* folder will anyway be created automatically (and can be further used as a settings folder for *PHOTOMOD* software products, in the case if they are later installed on this workstation).



If user intend to use the **EGM2008** geoid in conjunction with *PHOTOMOD GeoCalculator* installed as a separate application, to ensure correct interaction of the program with the **EGM2008** geoid, install *GeoCalculator* first, and then the geoid itself (see "[The GeoCalculator program](#)" User Manual).

The system provides for removing the **EGM2008** geoid. It is strongly discouraged to remove the installed **EGM2008** geoid from the workstation if it is planned further to use already existing user coordinate systems created using this geoid when working with *PHOTOMOD* (and/or *PHOTOMOD GeoCalculator*).



If, when trying to use such a coordinate system, the **EGM2008** geoid is not found by the programs, then the default **EGM96** geoid will be used for recalculations.

In the case of **EGM2008** reinstallation, such coordinate systems will be able to use this geoid again (without any additional user's operations required).