

ASReml 4 - Linux installation guide

Operating system	Linux
Build platform version details	RockyLinux 9 Ubuntu 20.04, 22.04 and 24.04
Features	Interactive graphics with hardcopy options EPS, WMF, JPG, HPGL, HPGL2, BMP, WPM

This implementation has installation packages for Ubuntu Versions 24,22 and 20 along with a RPM package for RedHat based distributions such as RockyLinux and Fedora. It has been successfully tested on many systems including RockyLinux 9, Ubuntu. Please contact support at <https://vsni.co.uk/support/> if any problems arise.

The package installer files available for download are as follows:

ASReml-4.x.b.vvv-Ubuntu-24.04-date-month-year-time.deb
ASReml-4.x.b.vvv-Ubuntu-22.04-date-month-year-time.deb
ASReml-4.x.b.vvv-Ubuntu-20.04-date-month-year-time.deb
ASReml-4.x.b.vvv-RockyLinux-9-date-month-year-time.rpm

where the letters 'x','b' and 'v' are replaced by the sub-version, build number and build letters of the software.

Small incremental changes to the sub-version may occur during the lifetime of this software, principally to correct bugs that arise in use.

Included in this installation

Installation will place the following into the /usr/local/vsni/asrem1 path:

/usr/local/vsni/asrem1/bin	
Asrem1	Executable image file
myowngdg.f90	Example Fortran source for OWN variance structure
/usr/local/vsni/asrem1/doc	
ASRem1.htm	HTML Help files (view in normal browser)
UserGuideFunctional.pdf	Principal source of reference
UserGuideStructural.pdf	Principal source of reference
UpdateR4.pdf	Description of changes from previous versions
UpdateR42.pdf	Description of changes in version 4.2
WhatsNew43.pdf	Description of changes in version 4.3
pedigree.pdf	Description of pedigree options
/usr/local/vsni/asrem1/examples	
Functional	Data and input files for examples contained within the User Guides

/usr/local/vsni/asreml/bin	
structural	Data and input files for examples contained within the User Guides

Downloading ASReml 4.3

Site Reference: On the ASReml download page you will need to enter your **Site Reference**. This is a unique string of letters and numbers that was sent in the Order Confirmation email. If someone other than yourself organized the software purchase you will need to obtain the **Site Reference** from them.

1. Go to the ASReml knowledge base <https://asremi.kb.vsnr.co.uk/asremi-4-downloads/> then enter your **Site Reference** and other details to access the downloads page.
2. Scroll down to the **Linux Installations** section and download the appropriate file.

Installing ASReml 4.3

1. Start Linux and navigate to the directory where you downloaded ASReml.
2. Type the installation command shown below, followed by the name of the downloaded ASReml file.

For Ubuntu:

Ensure the installations database is updated with :

```
sudo apt-get update
```

```
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
```

Install the ASReml standalone package with :

`sudo apt-get install ./name of downloaded ASReml file.deb` then press **ENTER**.

```
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'asrem1' instead of '/workspace/ASRem1-4.3.0.1-Ubuntu-24.04-01-Apr-2026-1426.deb'
The following additional packages will be installed:
  fontconfig-config fonts-dejavu-core fonts-dejavu-mono libbsd0 libfontconfig1 libfreetype6 libice6
  libjpeg-turbo8 libjpeg8 libmotif-common libpng16-16t64 libsm6 libx11-6 libx11-data libxau6
  libxcb1 libxdmcp6 libxext6 libxft2 libxinerama1 libxm4 libxmu6 libxrender1 libxt6t64 x11-common
The following NEW packages will be installed:
  asrem1 fontconfig-config fonts-dejavu-core fonts-dejavu-mono libbsd0 libfontconfig1 libfreetype6
  libice6 libjpeg-turbo8 libjpeg8 libmotif-common libpng16-16t64 libsm6 libx11-6 libx11-data libxau6
  libxcb1 libxdmcp6 libxext6 libxft2 libxinerama1 libxm4 libxmu6 libxrender1 libxt6t64 x11-common
0 upgraded, 26 newly installed, 0 to remove and 10 not upgraded.
Need to get 4626 kB/31.2 MB of archives.
After this operation, 77.8 MB of additional disk space will be used.
```

For RockyLinux:

`sudo yum install ./name of downloaded ASRem1 file.rpm` then press **ENTER**.

3. You may be prompted to enter your password. If so, enter your password then press **ENTER**.
4. You may also be prompted to allow installation to continue. If this happens type **Y** to allow ASRem1 to continue.

After ASRem1 installs you will be returned to the command prompt. ASRem1 will install by default into `/usr/local/vsni/asrem1`.

5. Verify installation by running the status query command with :
`asrem1 -status` then press **ENTER**.

This will show your license status.

```
ubuntu@qatest-1-u24:~$ asrem1 -status
- Licensed to : QA test : 07-04-2026 14:42:22
- Type: Enterprise, usage: There are 16 sessions available, with 1 currently in use
- Expiry: 31-dec-2026, 269 days
For help, mail VSNi support at support@vsniportal.zohodesk.eu
```

- If your status shows that you already have a license (because you are upgrading, rather than installing for the first time), you can skip to section **Running ASRem1 4.3** to test the installation.
- If your status shows as 'No license for product', continue with **Activating ASRem1 4.3**

Activating ASReml 4.3

1. To activate your ASReml license, type the 16 digit Activation Code that was emailed to you by customer support then press **ENTER**.
(If someone other than yourself organized the software purchase you will need to obtain the Activation Code from them.)

```
asreml --activate XXXX-XXXX-XXXX-XXXX. (Replace XXXX with the 16 digit code)
```

```
File Edit View Search Terminal Help
amanda@amanda:~$ asreml -z BFFE-ABEE-90FF-88XX
```

You'll see the message 'license successfully activated'.

```
File Edit View Search Terminal Help
amanda@amanda:~$ asreml -z BFFE-ABEE-90FF-88XX
License successfully activated
amanda@amanda:~$
```

2. You can view your license details by typing `asreml --status` at the command prompt.

```
File Edit View Search Terminal Help
amanda@amanda:~$ asreml

ASReml 4.2 [01 Jan 2016] mv [19 Dec 2019] 24 Mar 2020 13:49:52
Licensed to: VSNi - VS17CAT1:[VOF13231]
Expiry: 31-dec-2020, 283 days
```

Running ASReml 4.3

You can now test the installation by installing some script examples into the users workspace.

1. Run the command line `asreml --examples`

```
ubuntu@qatest-1-u24:~$ asreml --examples
Functional and Structural examples may be found in your /home/ubuntu/asreml-examples folder
```

2. Inside the installed `functional` directory you'll find many example files including three whose names begin with `barley`:

```
barley.apj
barley.as
barley.asd
```

3. Now change to the functional examples folder and run the `barley` example by typing the following:

```
cd ~/asreml-examples/functional; asreml barley
```

This will produce the following output.

```
ubuntu@qatest-1-u24:~/asreml-examples/functional$ asreml barley
ASReml 4.3 [Build 1] 07 Apr 2026 15:10:43
ASReml 4.3ni [01 Apr 2026] Slate Hall example
>> Linux (x64) 07 Apr 2026 15:10:43.135 2.0 Gbyte barley1

Univariate analysis of yield
Summary of 150 records retained of 150 read
Forming 26 equations: 26 dense.
Predict Design >> >> ASReml Process Clock SumClock
Done
>> >> Iteration complete: sec 0.02 0.02
 1 LogL= -739.681 S2= 36034. 125 df : 1 components restrained
>> >> Iteration complete: sec 0.00 0.02
 2 LogL= -718.221 S2= 28664. 125 df : 1 components restrained
 3 LogL= -704.627 S2= 29007. 125 df
 4 LogL= -700.695 S2= 34317. 125 df
 5 LogL= -700.326 S2= 38352. 125 df
 6 LogL= -700.323 S2= 38718. 125 df
 7 LogL= -700.322 S2= 38752. 125 df
>> >> Iterations done: sec 0.00 0.02
.....
--- Results from analysis of yield ---

idv(Rep)      IDV_V  6 0.528714  4262.39  0.62 0 P
idv(RowBlk)   IDV_V 30 1.93444  15595.1  3.06 0 P
idv(ColBlk)   IDV_V 30 1.83725  14811.5  3.04 0 P
 8 mu          1 5.0 1216.29  <.001
 6 variety     24 79.3 8.84  <.001
>> >> Wald F written: sec 0.00 0.01
>> >> Finished: sec 0.00 0.01
Finished: >> 07 Apr 2026 15:10:43.489 LogL Converged
Finished:          barley3
ubuntu@qatest-1-u24:~/asreml-examples/functional$
```

Using your license offline

You can use ASReml without an Internet connection for up to 30 days by taking your ASReml license offline.

1. Ensure you have an Internet connection so that you can connect to the RLM license server.
2. Start ASReml then type `asreml -z` followed by the number of days you want to take your license offline.

Examples

`asreml -z 30` then press **ENTER**. (This will take your license offline for 30 days).
`asreml -z 12` then press **ENTER**. (This will take your license offline for 12 days).

```
File Edit View Search Terminal Help
amanda@amanda:~$ asreml -z 12
License successfully set to be offline
amanda@amanda:~$
```

Your license will automatically return to online mode once the offline days have expired. You can also go back online before the offline expiry date by following the instructions below.

Note: this feature is only available for enterprise licenses on physical linux systems. Offline mode is not available for other license types. If the installation falls into this category, the response would be as shown here:

```
ubuntu@qatest-1-u24:~$ asreml -z 12
Offline operation is not supported on this type of system.
```

Going back online

To return to online mode at any time, do the following:

1. Ensure you have an Internet connection so that you can connect to the RLM license server.
2. Start ASReml then type `asreml -z 0` then press **ENTER**.

```
File Edit View Search Terminal Help
amanda@amanda:~$ asreml -z 0
License successfully set to be online
amanda@amanda:~$
```

Viewing license status

You can see how many days remain on your license before expiry by checking the license status.

1. Type `asreml --status` then press **ENTER**.

```
ubuntu@qatest-1-u24:~$ asreml --status
- Licensed to : QA test : 07-04-2026 14:42:22
- Type: Enterprise, usage: There are 16 sessions available, with 1 currently in use
- Expiry: 31-dec-2026, 269 days
For help, mail VSNi support at support@vsniportal.zohodesk.eu
```