

Release note for current release version of Simmune

Please **read** this note **before** using the current release of Simmune.

This version is a stable release with some configuration changes from the last stable release. There is no functional change. Simmune manuals, tutorials and examples are removed from the Simmune packages and packed into a separated compressed documentation file. For users' convenience, Mongodb application v2.4.3, some Ubuntu legacy libraries, and the Windows Visual Studio 2015 runtime library installation file are shipped with the Simmune release.

1. Current release includes:

- a. Simmune applications:
 - Linux: Simmune-2.3.1.5174-Linux-Release_r032918.zip
 - Mac OS X: Simmune-2.3.1.5178-Mac-Release_r032918.zip
 - Windows 64bit: Simmune-2.3.1.5174-Win64-Release-r032918.zip
- b. Simmune documentations: SimmuneDocumentations_r032918.zip
- c. Simmune API documentation: SimmuneAPIDocs.zip
- d. Simmune IPython files: SimmuneIPython.tar

2. Linux:

The Simmune release for Linux was built and packaged under Ubuntu 14.04 (64bit) and tested under the following 64 bit distributions: Ubuntu 14.04, Ubuntu 16.04, Ubuntu 17.10 and Ubuntu 18.04(pre-release). If you are using any other Linux distribution and encounter an issue, please contact the Simmune team at simmune@niaid.nih.gov.

- a. Several legacy linux libraries are included this linux release, which are copied from Ubuntu 16.04 LST:

```
libpng12.so.0
(from /lib/x86_64-linux-gnu/libpng12.so.0.54.0)
```

```
libgstapp-0.10.so.0
(from /usr/lib/x86_64-linux-gnu/libgstapp-
0.10.so.0.25.0)
```

```
libgstbase-0.10.so.0
(from /usr/lib/x86_64-linux-gnu/libgstbase-
0.10.so.0.30.0)
```

```
libgstinterfaces-0.10.so.0
(from /usr/lib/x86_64-linux-gnu/libgstinterfaces-
0.10.so.0.25.0)
```

```
libgstreamer-0.10.so.0  
(from /usr/lib/x86_64-linux-gnu/libgstreamer-  
0.10.so.0.25.0)
```

```
libgstvideo-0.10.so.0  
(from /usr/lib/x86_64-linux-gnu/libgstvideo-  
0.10.so.0.25.0)
```

- b. Mongodb application configuration for SimAnalyzer.

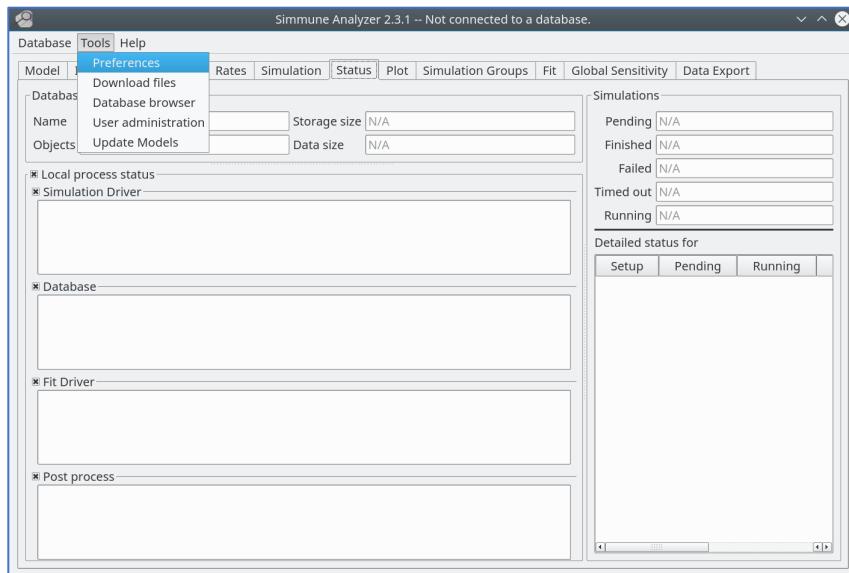
The MongoDB application can be installed using the instruction in the SimAnalyzer help documentation that provides guidelines how to download the MongoDB application online and prepare it for use with Simmune.

Alternatively, you can also directly use the MongoDB application shipped with this Simmune release in the “mongodb-linux-x86_64-2.4.3” folder, which was downloaded from:

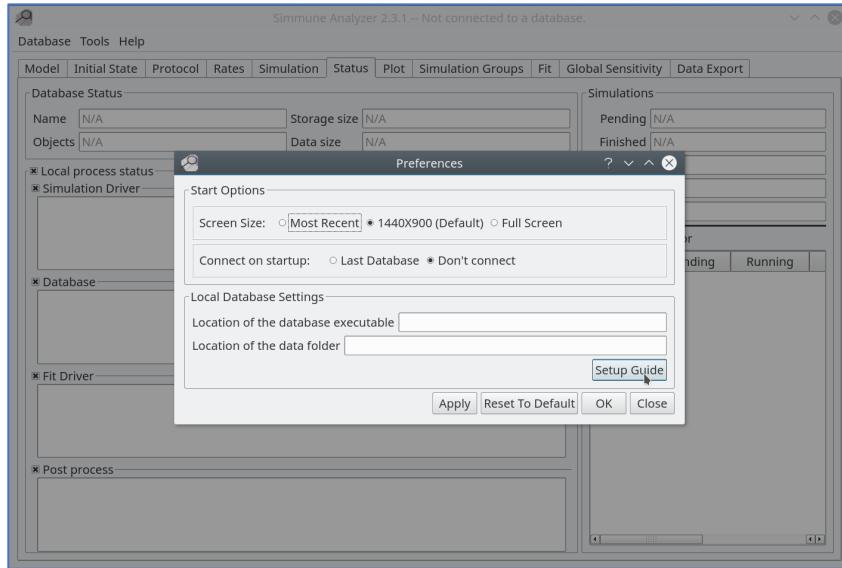
http://fastdl.mongodb.org/linux/mongodb-linux-x86_64-2.4.3.tgz

In that case, please follow these steps:

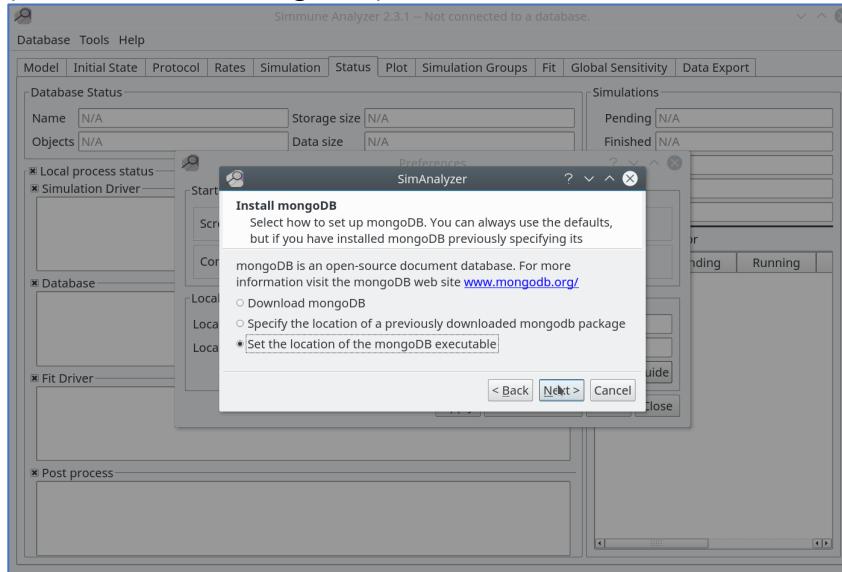
- (1) Go to “Preferences”



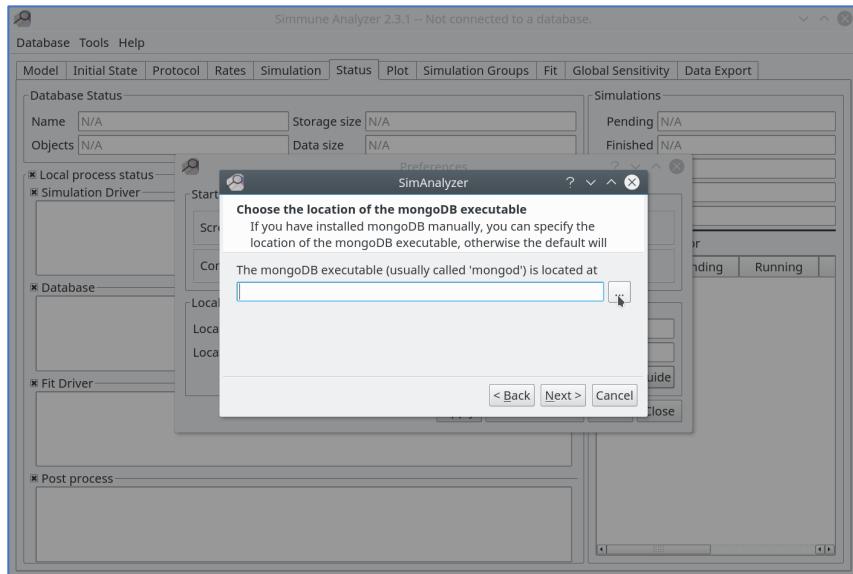
(2) Select “Setup Guide”



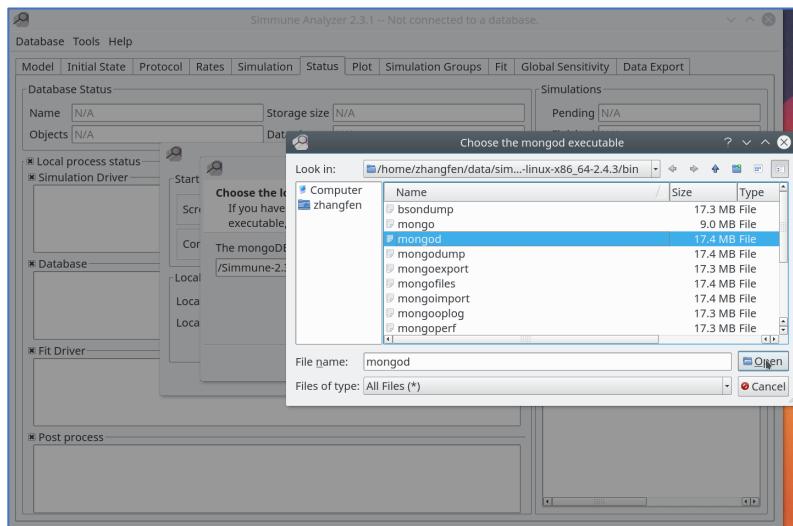
(3) Select “Set the location of the mongoDB executable”
(NOT “Download mongoDB”)



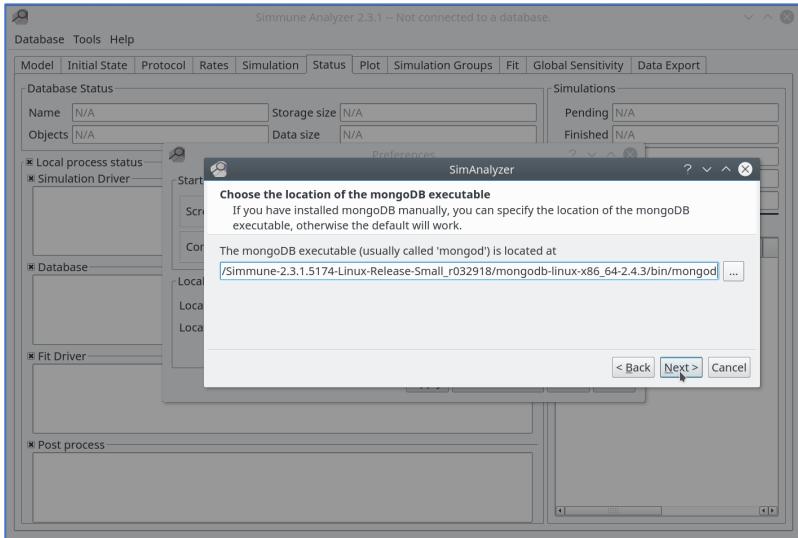
(4) Click the “...” button



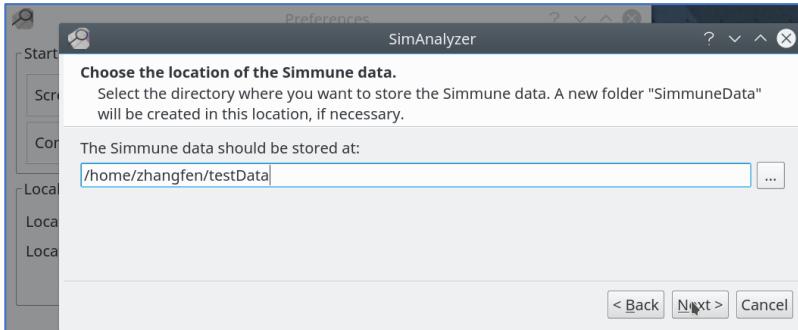
(5) Select the “mongod” file under the “mongodb-linux-x86_64-2.4.3/bin” folder.



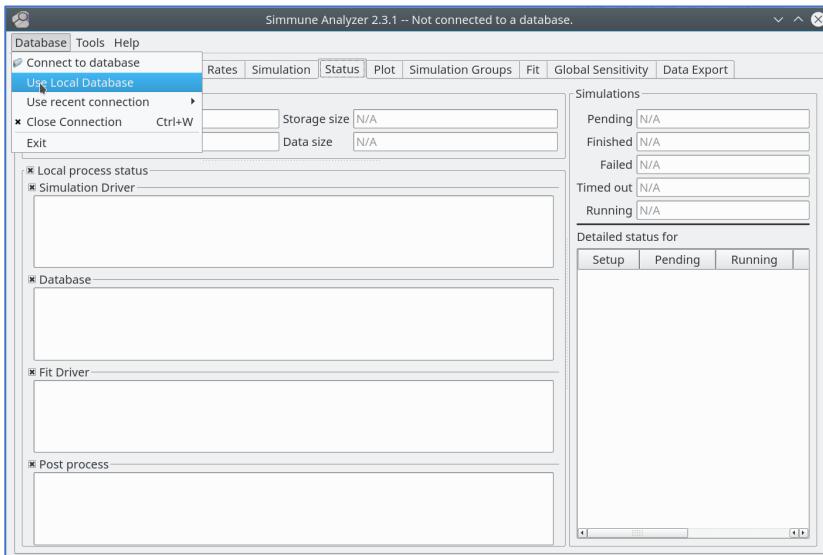
(6) Back to previous window and click “Next”



(7) Select a directory of your choice to store simmune simulation data.



(8) Connect to the local Database.



3. Windows 64

This Simmune Win64 release was built and packaged under Windows 7 (64bit) and also tested under Windows 10 (64bit).

- a. The Simmune package was built and packaged with Visio Studio 2015 and its runtime libraries from Microsoft may be required. The library installation file can be downloaded from

<https://www.microsoft.com/en-us/download/details.aspx?id=48145>

For users' convenience, this file ("vc_redist.x64.exe") is included in this release of Simmune. Note that administration privileges may be required for the installation.

- b. Mongodb application configuration for SimAnalyzer:

Similar to the Linux version, the user can use the MongoDB application following the instruction in the SimAnalyzer help documentation to download and install the MongoDB application.

The user can also directly use the MongoDB application shipped with this Simmune release in the "mongodb-win32-x86_64-2.4.14" folder that was downloaded from:

http://downloads.mongodb.org/win32/mongodb-win32-x86_64-2.4.14.zip

The steps for using a locally installed MongoDB application are the same as those provided in the Linux section above.

In this release, we recommend to use MongoDB 2.4.14 shipped with the Simmune Win64 package, instead of MongoDB 2.4.3 downloaded online with the Simmune built-in method, especially for the Windows 10 users.

4. Mac OS X

This Simmune Mac OS X release was built and packaged under Mac OS X 10.11 and also tested under Mac OS X 10.12. If you are using any other version of Mac OS X and encounter an issue, please contact the Simmune team at simmune@niaid.nih.gov.

Note about Mongodb application configuration for SimAnalyzer:

The user can use the MongoDB application following the instructions in the SimAnalyzer help documentation to download and install the MongoDB application.

The user can also directly use the MongoDB application shipped with this version of the Simmune package in the "mongodb-linux-x86_64-2.4.3" folder that was downloaded from:

http://fastdl.mongodb.org/linux/mongodb-linux-x86_64-2.4.3.tgz

The steps for using a locally installed MongoDB application are the same as those in the Linux section above.

5. Note about MongoDB

Upon request, we will provide information on how to obtain the sources for MongoDB (as required in the MongoDB license).