

# Abaqus Student Edition

## Installation Instructions

### Product Features And Limitations

- The Abaqus Student Edition consists of Abaqus/Standard, Abaqus/Explicit, and Abaqus/CAE.
- Full HTML documentation is included.
- The maximum model size is limited to 1000 nodes for structural analysis and postprocessing.
- Features requiring compilers are not available (user subroutines, Abaqus make, C++ ODB API).
- Parallel execution is not available.
- Add-on products are not available.
- Abaqus Student Edition model databases are compatible with academically licensed but not with commercially licensed Abaqus releases.

### Before You Begin:

1. Make sure you have Windows administrator privileges, as this is required for the installation.
2. Only 64-bit Windows operating systems are allowed, not 32-bit Windows. If you are unsure, open a command prompt window and type “systeminfo” in the window. If the “System type” field says “X86-based PC, you have a 32-bit OS. If it says “X64-based PC”, you have a 64-bit OS.
3. Minimum supported operating systems: Windows 10
4. The installation will require 9 GB of disk space.
5. You must have Microsoft Internet Explorer 11.0.11 (minimum) installed on your computer; it is needed by the installer.

The following are the minimal supported versions that can be used with the SIMULIA User Assistance (documentation):

Web browsers:

- Internet Explorer 11 with 11.0.11 ([KB2976627](#)) as minimum Update Versions.
- Firefox x ESR, with x>60

Java:

- Java 8 Update x, with x > 131

Although access to the documentation might work on other HTML browsers, incidents specific to other browsers are not eligible for support. However Google Chrome users should be aware that they need to use the “--allow-file-access-from-files” flag to enable local documentation. Chrome must be run this way BEFORE being used for contextual help (F1). For security reasons, do not use this flag to browse other internet sites. This is officially registered as a bug in Google Chrome (refer to <https://code.google.com/p/chromium/issues/detail?id=47416> ), and the follow-up for this problem must be done directly by Google.

The Abaqus Student Edition installation consists of 3 basic sections:

- a) Abaqus HTML Documentation Installation (3 GB disk space)
- b) Abaqus Product Installation (6 GB disk space)
- c) Abaqus Installation Verification

Detailed steps for all sections are included below.

## Step 1

Extract the downloaded media .zip file using 7-Zip into a folder/directory of your choice.

Note: This path must be less than 60 characters, for example: C:\downloads

This download location is different from the folder/directory where the products will be installed (and may optionally be deleted once installation is complete).

It is recommended that you use the free 7-Zip utility (V4.57 or higher) which handles the zip format. If you do not have 7-Zip, download the latest version at <http://www.7-zip.org> .

## Step 2

Run the following executable from the extracted media directory to verify the integrity of the extracted media:

```
C:\downloads\SIMULIA_Abaqus_Student.Windows64\1\0Data\intel_a\DSYInsMediaCheck.exe
```

## Step 3

Double-click the setup.exe executable in the extracted media to begin the installation process:

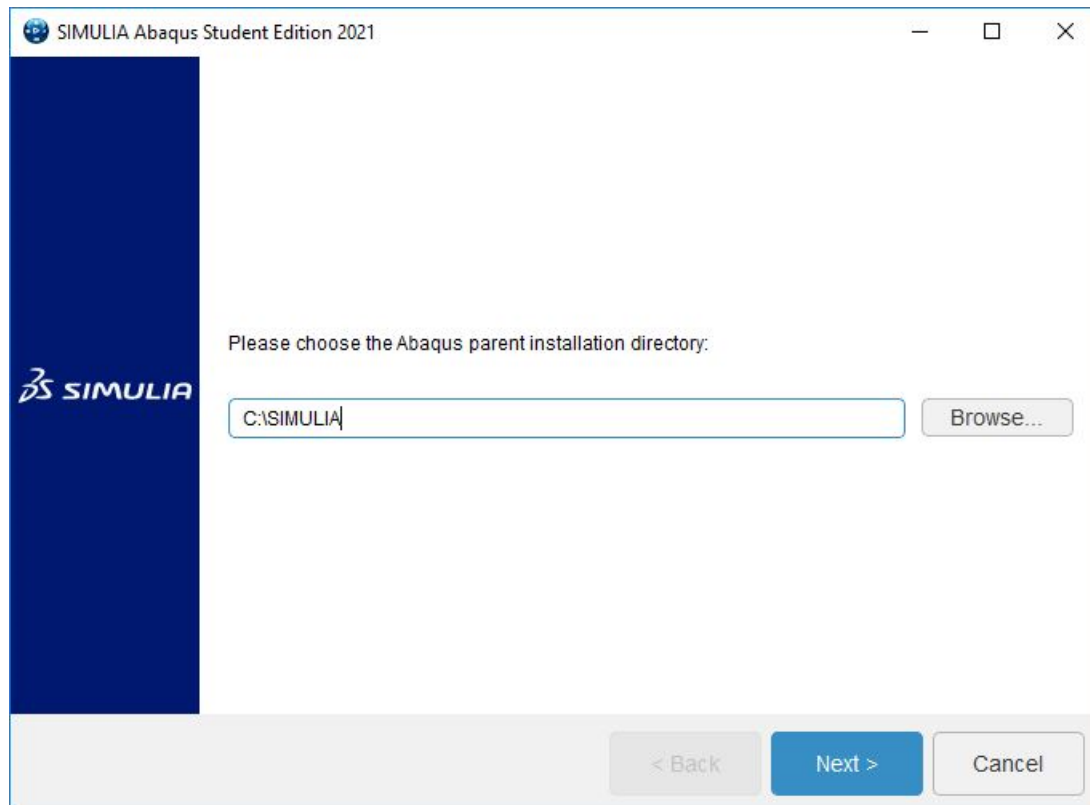
```
C:\downloads\SIMULIA_Abaqus_Student.Windows64\1\setup.exe
```

## Step 4

You are asked to provide an installation directory.

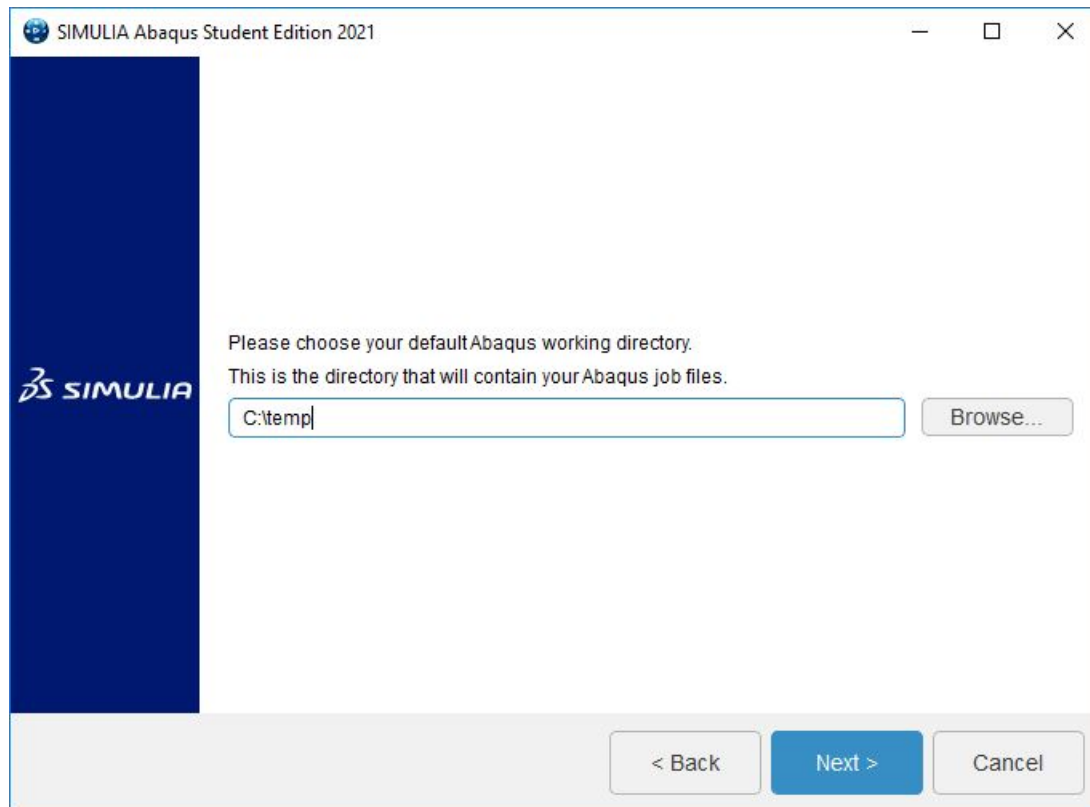
NOTE: This location is **different** from extracted media folder.

Choose your installation directory and click **Next**.



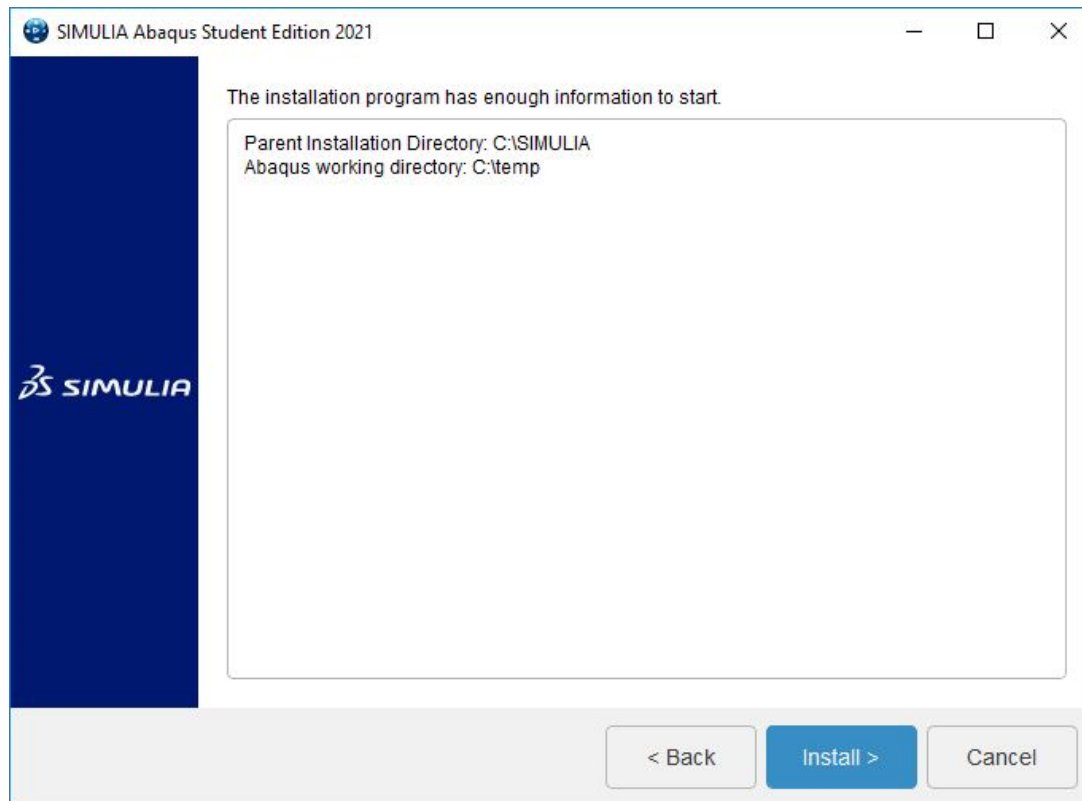
## Step 5

Choose the location for your Abaqus job files and click **Next**.



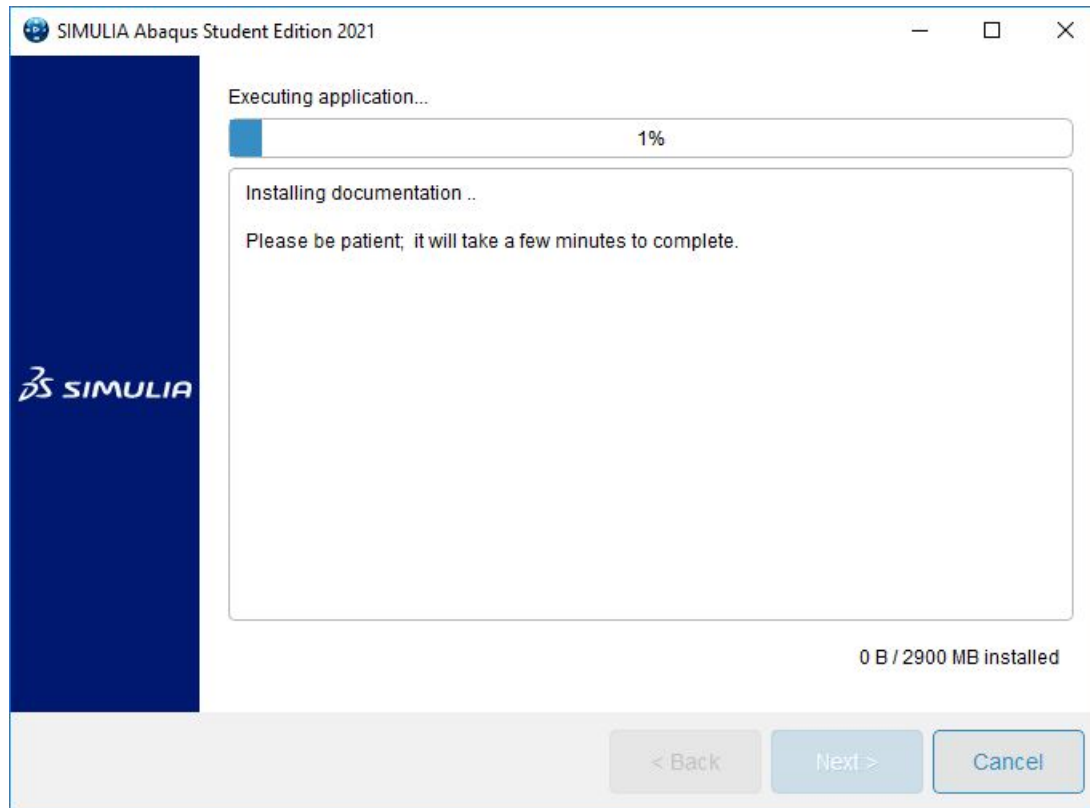
## Step 6

Review the information in the pre-installation summary. Click **Install** when you are ready to proceed.



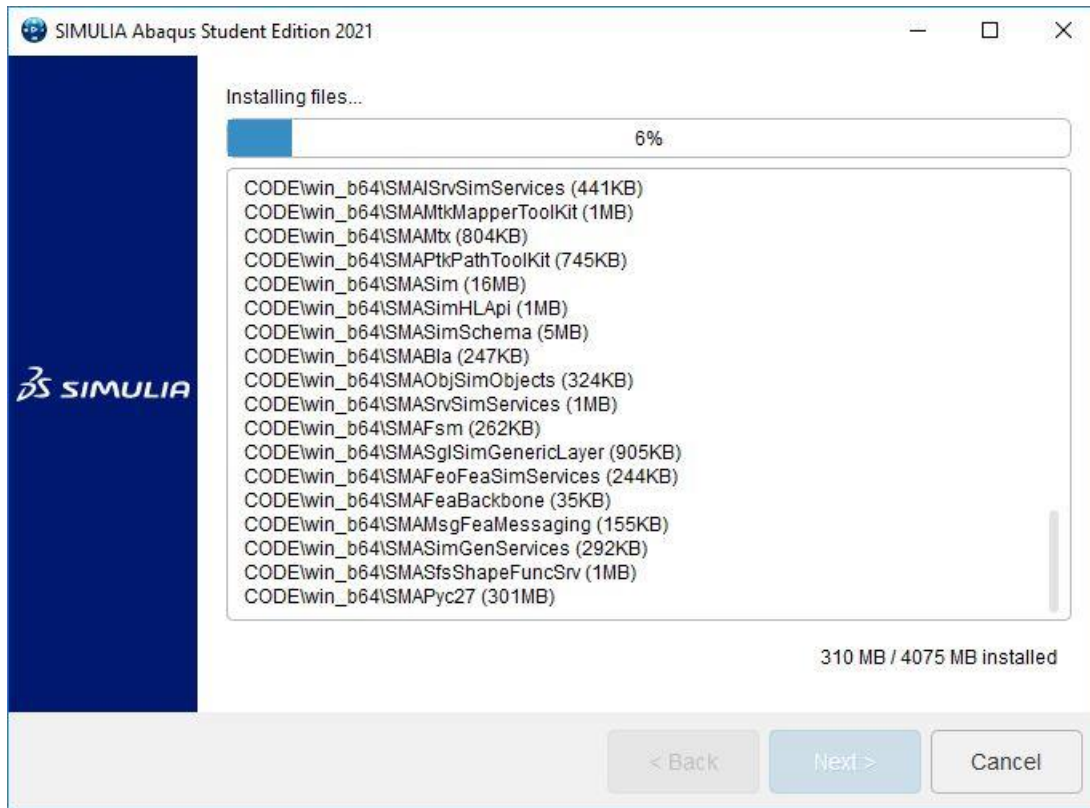
## Step 7

First, the Abaqus Student Edition HTML Documentation is installed. This process may take up to 30 minutes to complete.



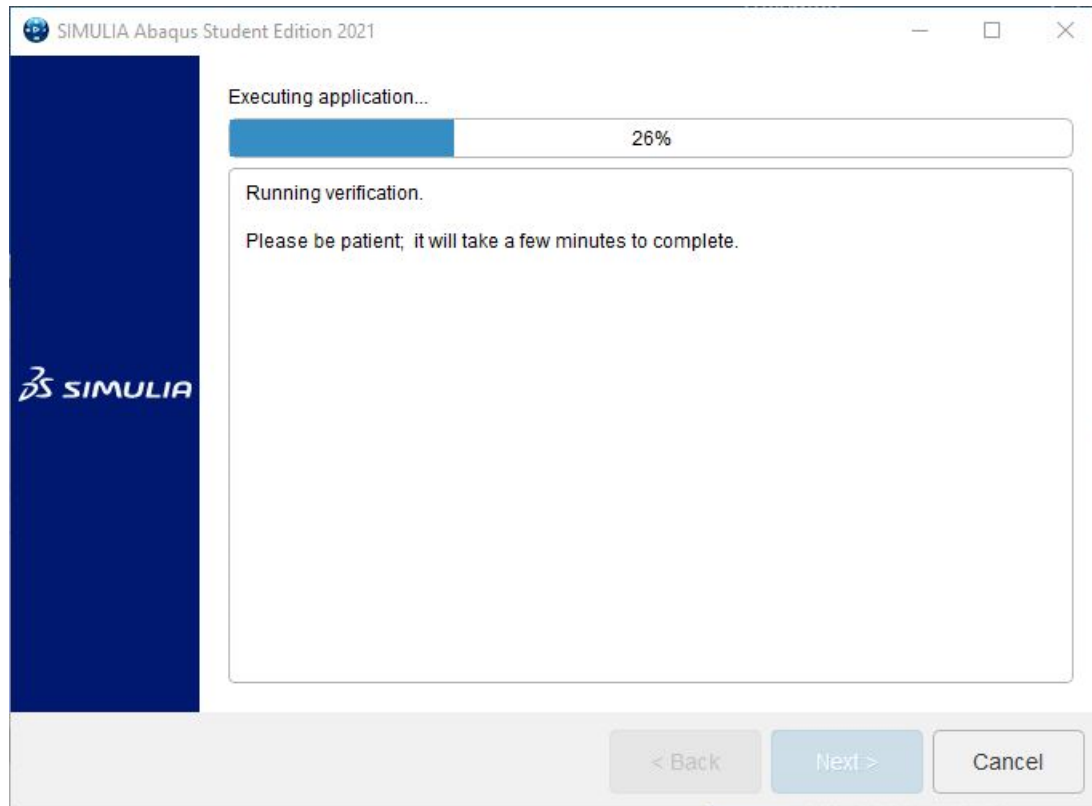
## Step 8

After the documentation installation completes the Abaqus Student Edition product installation will start.



## Step 9

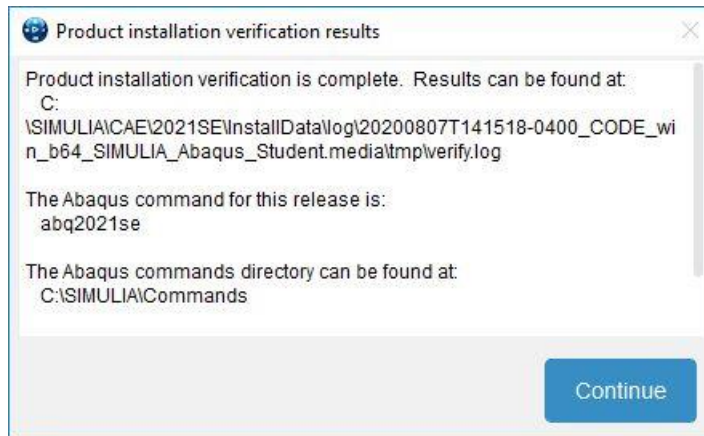
Once the Abaqus product installation has completed, the product verification begins automatically. This tests the integrity of the installation.





## Step 10

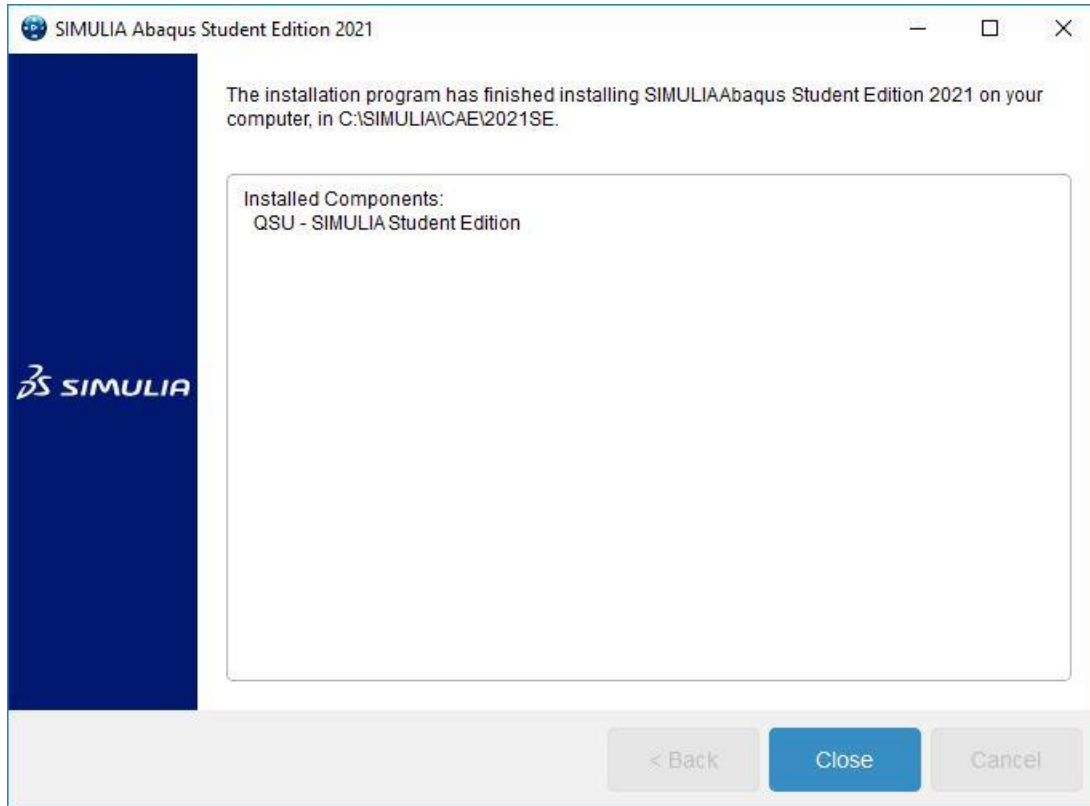
After verification completes, a panel is displayed giving you the path to where the verification results are located and information about launching the Abaqus Student Edition software.



Open the `verification-results.html` file specified in the panel for additional information and troubleshooting.

## Step 11

After clicking **Continue** the final screen will appear. Clicking **Close** will finish the installation and exit the window.



Execute the newly installed Abaqus Student Edition:

From the icons in the **Apps** screen under section **Dassault Systemes SIMULIA Abaqus Student Edition 2021**

## To Uninstall:

Right click on the Start Menu icon, select **Programs and Features**

1. Right mouse click on the entry '**Dassault Systemes SIMULIA Abaqus Student Edition 2021**' and select 'Uninstall'
2. Right mouse click on the entry '**Dassault Systemes Documentation SIMULIA Abaqus Student Edition 2021**' and select 'Uninstall'

## Known Issues:

- On Windows 10, Microsoft Edge is not supported for the User Assistance (documentation). If Microsoft Edge is configured as your default browser, you'll need to change your default browser to either Internet Explorer or Mozilla Firefox in order for the context-sensitive help to launch properly from Abaqus/CAE.
- Some User Assistance (documentation) contains mathematical notation written in the MathML markup language. To render this notation in HTML output, the Open Source MathJax javascript package is used. The fonts that MathJax normally uses are webfonts, included with the documentation and downloadable by MathJax as it performs the rendering.

If using **Mozilla Firefox** for your browser to use the User Assistance, the math may display as a *[Math Processing Error]*. If that is the case, you will need to install the MathJax TeX Open Type fonts on the local computer. Installing the appropriate fonts is straightforward. The fonts are the Open Type MathJax TeX fonts found in:

*<Parent Installation directory>*/[Documentation/2021SE/English/MathJax/fonts/HTML-CSS/TeX/otf](#)

where *Parent Installation directory* is the directory you specified during installation in which the documentation has been installed.

With appropriate user privileges (e.g., by running as "Administrator"), the files should be copied to one of the computer's font directories and installed as required by the operating system.

For example, on Windows the font directory is [C:\Windows\Fonts](#) and to install any or all of the fonts, just right-click a selection and choose **Install**.

- If you installed MathJax fonts for a previous release and you are having math display issues, you may need to update these fonts. Even if the fonts were originally installed to solve a problem with Firefox, you may encounter math display issues in other browsers if you are not using the newer fonts.

For example, check the equation display on the MathJax homepage (<https://www.mathjax.org>) in your browser. If  $2\pi i$  bumps into the fraction bar, you will need to reinstall the fonts as described above.

- Due to a CORS feature introduced on Firefox 68 (see <https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS/Errors/CORSRequestNotHttp>), in order to view the table of contents of the User Assistance (documentation), you must set the *privacy.file\_unique\_origin* preference to **false**:  
 (1) In a new tab, type or paste **about:config** in the address bar, and then press **Enter** or **Return**. Click the button promising to be careful or accepting the risk.  
 (2) In the search box above the list, type or paste **uniq** and pause while the list is filtered.  
 (3) Double-click the **privacy.file\_unique\_origin** preference to switch the value from "true" to "false".

## Post Installation Troubleshooting

If you see an error dialog during installation like:

Unable to properly install interoperability files.

To complete this step manually after installation completes, please see the section 'Post Installation Troubleshooting' of the InstallationGuide.pdf located at the top level of your extracted media.

If so, click the **Continue** button.

After the installation completes, follow the steps below to correct the issue:

Run the following in a command prompt window with administrative privileges:

```
<installation directory>\CAE\2021SE\win_b64\code\bin\SMAExternal\unzip.exe -q -o
<installation directory>\CAE\2021SE\win_b64\code\bin\SMAExternal\Interop\InteropPkg.zip -
d <installation directory>\CAE\2021SE\win_b64\code\bin\SMAExternal\Interop
```

For example if you install in the default location (C:\SIMULIA) then run:

```
C:\SIMULIA\CAE\2021SE\win_b64\code\bin\SMAExternal\unzip.exe -q -o
C:\SIMULIA\CAE\2021SE\win_b64\code\bin\SMAExternal\Interop\InteropPkg.zip -d
C:\SIMULIA\CAE\2021SE\win_b64\code\bin\SMAExternal\Interop
```

**NOTE:** Before running the product uninstallation, remove the following folders from the installation:

```
<INSTALLATION DIRECTORY>\CAE\2021SE\win_b64\code\bin\SMAExternal\Interop\code
<INSTALLATION DIRECTORY>\CAE\2021SE\win_b64\code\bin\SMAExternal\Interop\reffiles
<INSTALLATION DIRECTORY>\CAE\2021SE\win_b64\code\bin\SMAExternal\Interop\resources
<INSTALLATION DIRECTORY>\CAE\2021SE\win_b64\code\bin\SMAExternal\Interop\startup
```

If you see an error dialog during installation like:

Unable to update documentation configuration.

To perform the manual configuration after installation, please see the section 'Post Installation Troubleshooting' of the InstallationGuide.pdf located at the top level of your extracted media.

If so, click the **Continue** button.

After the installation completes, follow the steps below to correct the issue:

1. Open the following file in notepad (If it doesn't exist, create it):

`<parent installation directory>/CAE/2021SE/win_b64/SMA/site/custom_v6.env`

2. Add the following line to the file

`doc_root="file:///<parent installation directory>/Documentation/2021SE/English"`

NOTE: Replace value "<parent installation directory>" with the path you specified where you installed Student Edition.

e.g. C:\SIMULIA

The custom\_v6.env would contain one line

`doc_root="file:///C:/SIMULIA/Documentation/2021SE/English"`

3. Save the custom\_v6.env and exit notepad

If you see an error dialog during installation like:

Unable to add Abaqus command directory C:\SIMULIA\Commands to PATH variable.

To perform the manual configuration after installation, please see the section 'Post Installation Troubleshooting' of the InstallationGuide.pdf located at the top level of your extracted media.

If so, click the **Continue** button.

After the installation completes, please follow these instructions below:

1. Open an Administrator Command Prompt window.

2. Enter the command:

`setx /m PATH "C:\SIMULIA\Commands;%PATH%"`

Where 'C:\SIMULIA' is the Parent installation directory that you specified when you did the Student Edition installation.

3. Close the Administrator Command Prompt window and open a new Command Prompt window.

4. Run the Abaqus commands using just the launcher name:

`abq2021se cae`