

# Windows installation guide for Abaqus 2016

## 1 Licence Requirements

Before installing Abaqus please read the [licence requirements](#), in particular noting:

Only appropriately authorised support staff may make physical copies of the software or documentation. Abaqus may only be installed on computers owned by the University of Manchester; it may not be installed on computers owned by staff or students. With limited exceptions use of Abaqus by students is limited to on-campus facilities. ABAQUS on-line documentation may not be made available over the open internet.

## 2 Supported compilers for Abaqus 2016

### 2.1 C++ Compiler

Visual Studio 2012 Update 4 (available from ESD)

### 2.2 Fortran Compiler

Intel® Fortran Composer XE 2011 Update 6

[Download the installer](#)

[Installation guide](#)

## 3 Installation

There are 4 installers which have to be run in the following order:

1. Documentation

Note that installing the documentation locally is optional. The alternative is to specify <http://50.16.225.63/v2016/> during the CAE installation.

2. Services (solvers)

3. CAA developer

4. CAE

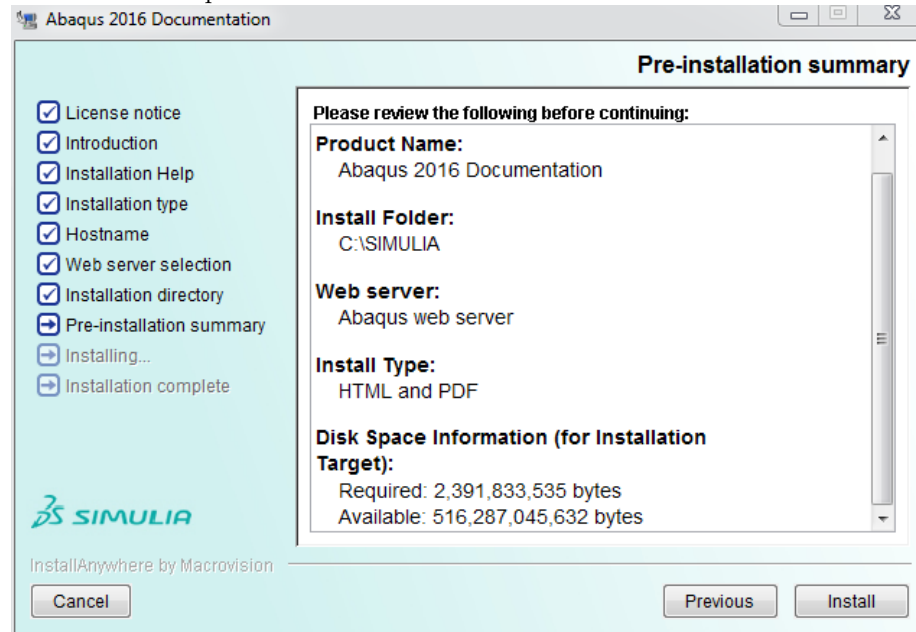
It's generally just a process of double-clicking on each setup.exe in turn and accepting the defaults, but some details are given below for key steps.

### 3.1 Documentation (optional)

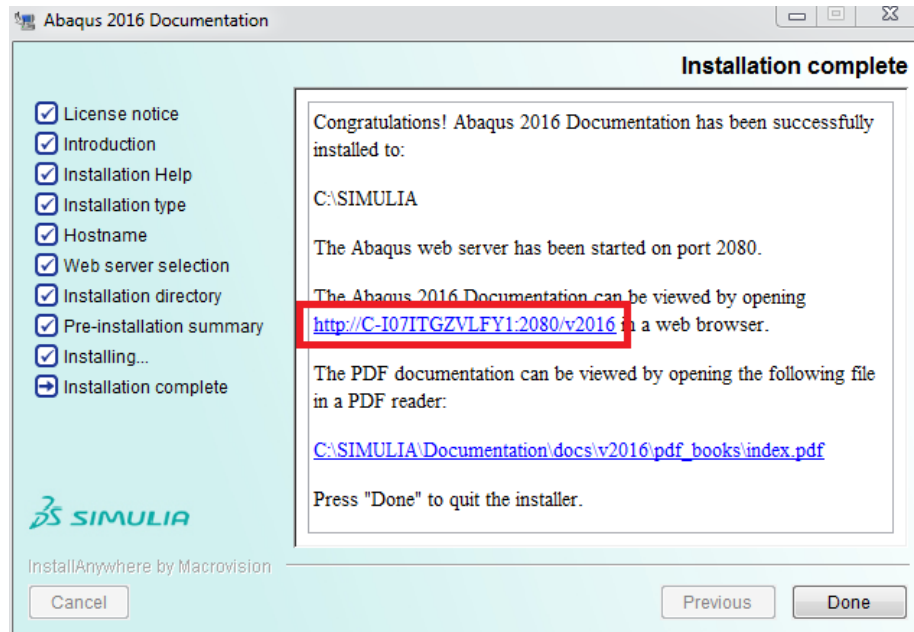
Mount the iso file containing the documentation installer `Abaqus_fesafe_2016_documentation.iso` Run this installer

`\1\DOC_SIMULIA_Abaqus_fe-safe\1\Abaqus_2016\setup.exe`

Choose HTML and pdf



Make a note of the link provided at the end of the installation which is required to view the documentation in a web browser (shown in the red box below). You are required to enter this later on in the installation process.



### 3.2 Services (solvers)

Mount the iso file containing the Abaqus installers Abaqus\_2016\_Win\_Lin.iso. This will show up as Abaqus2016. Run the installer

Abaqus2016\3DEXPERIENCE\_AbaqusSolver\Windows64\1\setup.exe

### 3.3 CAA developer

Run the installer Abaqus2016\CAA\_3DEXPERIENCE\_AbaqusSolver\Windows64\1\setup.exe

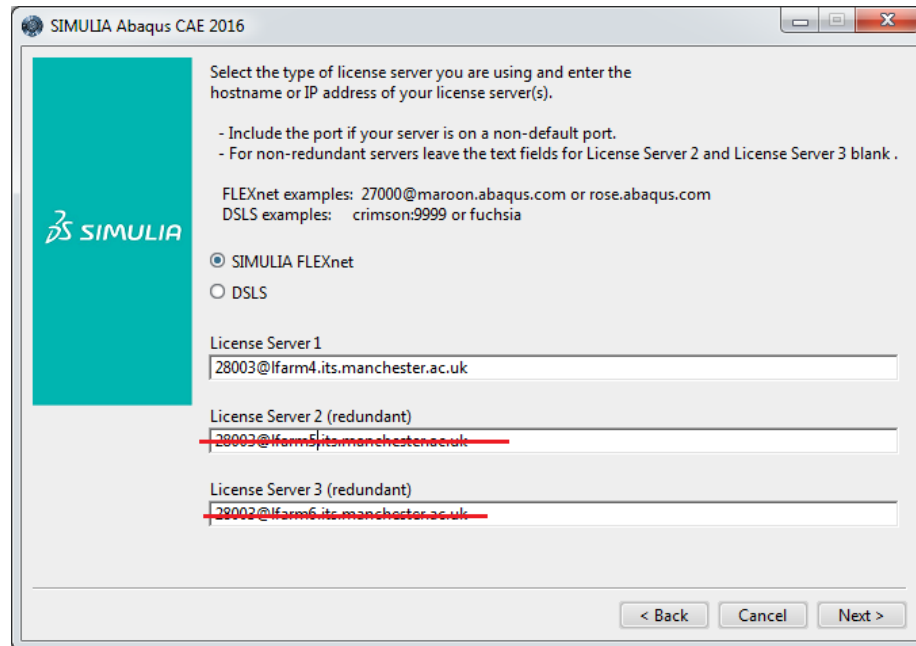
### 3.4 CAE

Run the installer Abaqus2016\SIMULIA\_Abaqus\_CAE\Windows64\1\setup.exe

Choose Flexnet as the licence type and enter the licence server:

28003@lfarm4.its.manchester.ac.uk

There is a known bug in this version of Abaqus which causes the installation to fail if you enter the two redundant licence servers (28003@lfarm5.its.manchester.ac.uk and 28003@lfarm6.its.manchester.ac.uk)- this should be fixed in following releases.



When prompted to enter a location for the documentation, either enter <http://50.16.225.63/v2016/> or the location you made a note of in section 3.1.

### 3.4.1 A warning about the working directory

You will be asked to choose a location for the Abaqus working directory. By default, this is `C:\temp` and this will be created if it doesn't already exist. If you want to use a different directory, make sure it exists. The text box suggests you can specify a path to be created (by changing the default `C:\temp`), however the installer won't create a new directory for you, and Abaqus won't install properly.

### 3.4.2 Subset verification suite

As part of the installation process, Abaqus will run the verification suite and report the results. Note this is only a sub-set of the verification suite, so the verification should be run again post-installation.

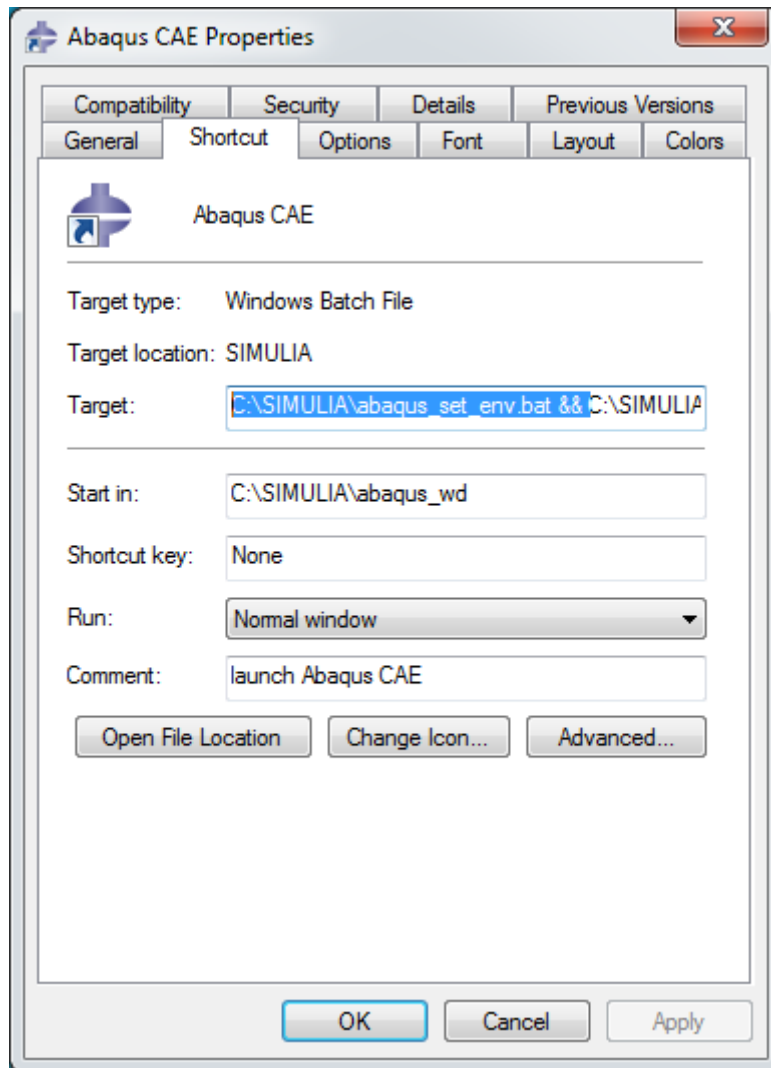
## 4 Post-installation tasks

### 4.1 Modify shortcuts to get user subroutines working

To get User Subroutines working with Intel Compiler XE 2011, copy `Abaqus2016\abacus_set_env.bat` to `C:\SIMULIA\` and then modify the Abaqus start menu shortcuts thus:

1. Go to the **Start Menu** → **All Programs** → **Dassault Systemes SIMULIA Abaqus CAE 2016**, right click on **Abaqus CAE**, then left click on **properties**

2. Copy and paste the below string (everything within, but not including the quote marks) to the very beginning of the **Target** field. Ensure there is a single space either side of the final "&&"  
`"C:\SIMULIA\abaqus_set_env.bat && "`
3. Repeat this for the Abaqus Command and Abaqus Verification shortcuts in the **Dassault Systemes SIMULIA Abaqus CAE 2016** sub-menu



## 4.2 Verification suite

Run the verification suite to test the installation was successful. Start Menu → All Programs → Dassault Systemes SIMULIA Abaqus CAE 2016 → Abaqus verification. Tests should report PASS (or skipped for unlicensed features) in the verify.log file. If Abaqus has not been configured correctly to use the Fortran and C++ compilers then tests will fail for user subroutines and make utilities.