

# SIMLab Model Library

*How to use it with ABAQUS ?*



# General

- 1) Download winscp from (<http://winscp.net>)
- 2) Install the software
- 3) Create a connection to the server (Figure 1)
  - 1) hostname : kark.ivt.ntnu.no
  - 2) User name :
  - 3) Password :

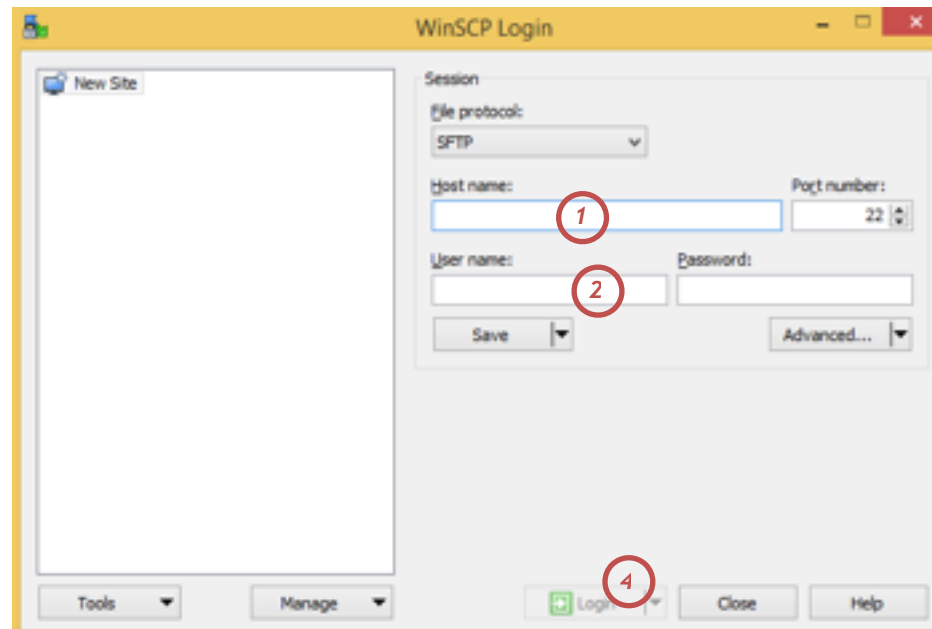


Figure 1) Create a connection to the server

N.B: NTNU ip address required for this process, either ethernet network or VPN access

# Windows

1) Download the archive from the server (Figure 2)

Go to Impact\_Mechanics folder

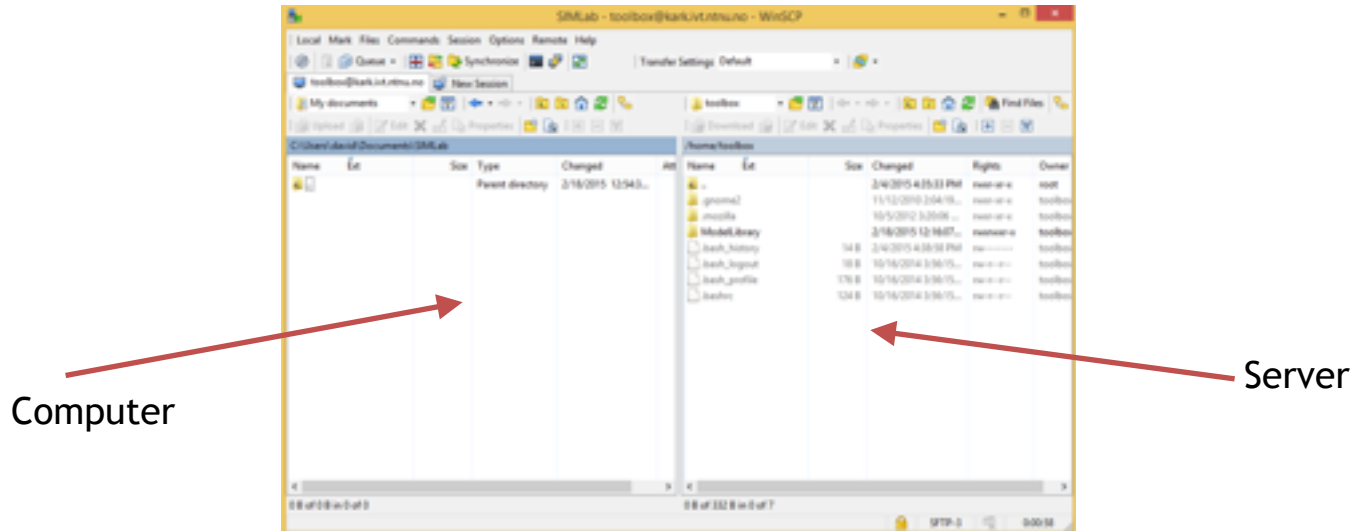


Figure 2) Access to the server through winscp

2) Select the correct archive from Figure 3

Name	Ext	Size	Changed	Rights
			2/18/2015 12:16:07...	rw-rwxr-x
ABAQUS_613_win.zip		1,924 KiB	2/18/2015 12:16:52...	rw-r--r--
ABAQUS_614_win.zip		1,926 KiB	2/18/2015 12:16:52...	rw-r--r--

Figure 3) ABAQUS archives on the server

# Windows

- 1) Copy and paste the libraries into a folder in your user account (Figure 4)
- 2) Copy and paste the ABAQUS environment file in your user account (Figure 4)

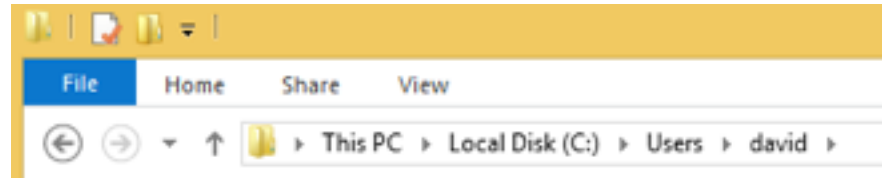


Figure 4) Location of the recommended folder

- 3) Modify the ABAQUS environment file with the path to the libraries (Figure 5)

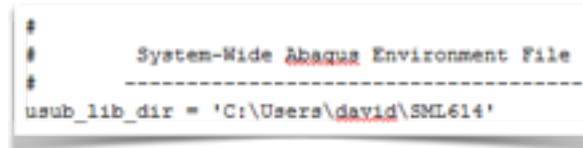


Figure 5) Modification of the environment file

ABAQUS environment file:

- abaqus\_v6.env

Compiled libraries:

- explicitU-D.dll
- explicitU.dll
- standardU.dll

# Windows

- 1) Download the examples files on the server (examples.zip)
- 2) Open a command prompt (Figure 6)

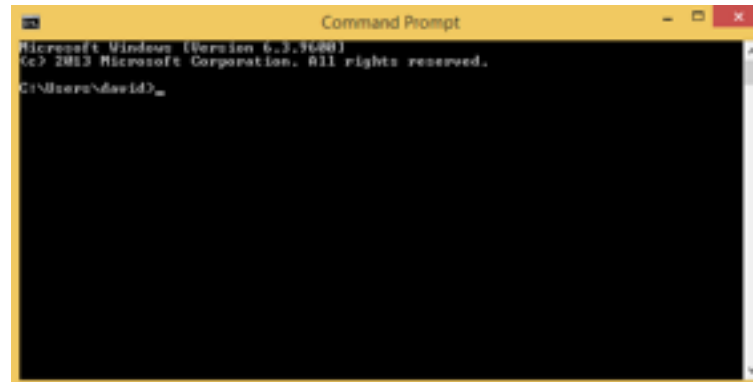


Figure 6) Windows command prompt

- 3) Run the two examples using the following command

For the explicit version:

```
abaqus double job=unit_solid_exp cpus=1 int
```

For the implicit version:

```
abaqus double job=unit_solid_imp cpus=1 int
```

*Command description:*

```
abaqus double job="job name without .inp" cpus="number of cpus" int
```

# Snurre

- 1) Create a connection to snurre (Figure 7)
  - 1) hostname : snurre.ivt.ntnu.no
  - 2) Enter your User name
  - 3) Enter your Password
  - 4) Save the session for future use

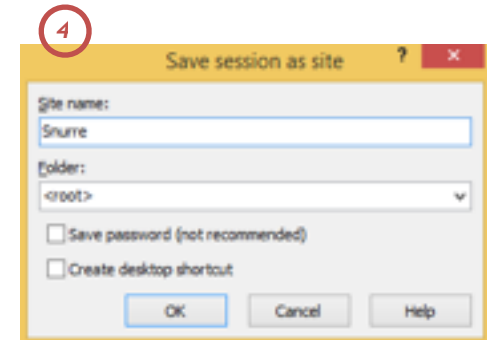
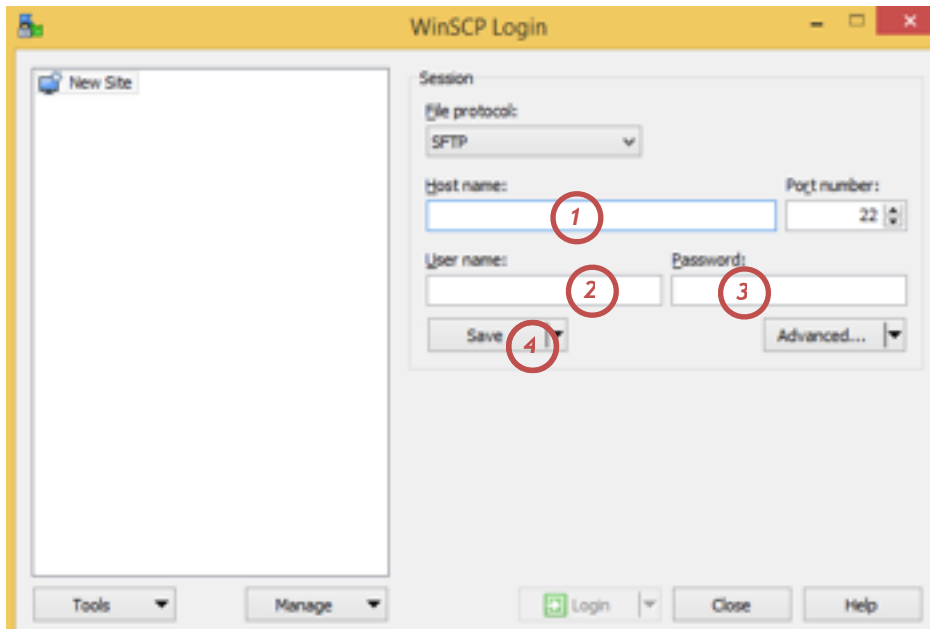


Figure 7) Create a connection to snurre

N.B: NTNU ip address required for this process, either ethernet network or VPN access

# Snurre

- 2) Create a folder on Snurre and copy the files to be run
- 3) Transfer the files from your computer to Snurre (Figure 8)

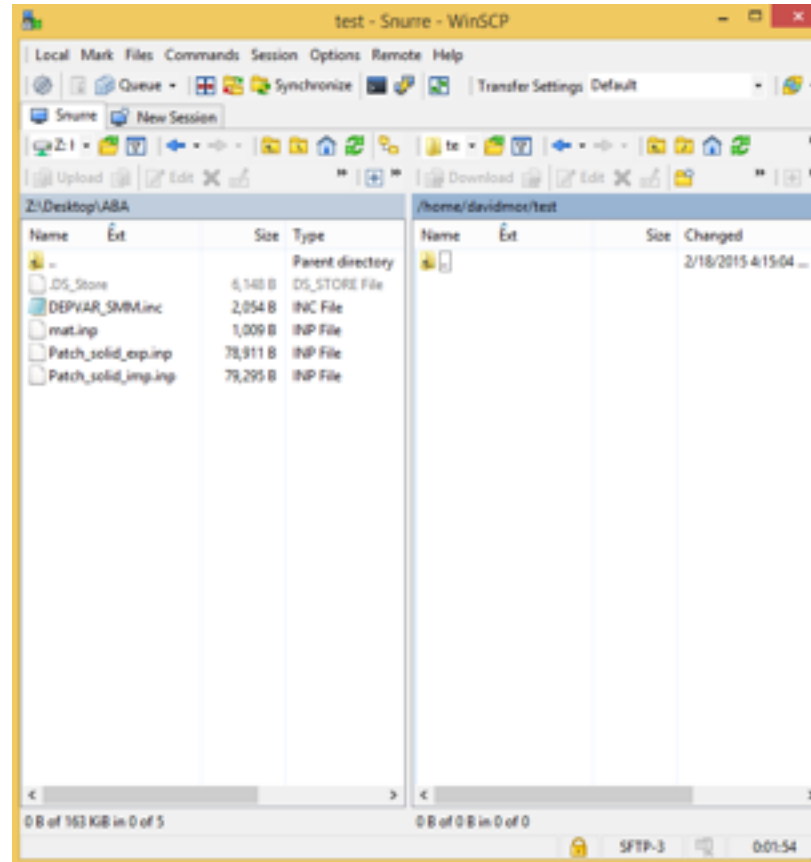


Figure 8) Transfer the files to snurre

- 1) Download PuTTY from <http://www.putty.org>
- 2) Log on Snurre using Putty (Figure 9)
  - 1) Input the Hostname : snurre.ivt.ntnu.no
  - 2) Give a name to the session : Snurre (for instance)
  - 3) Save the session for future use
  - 4) Open the connection

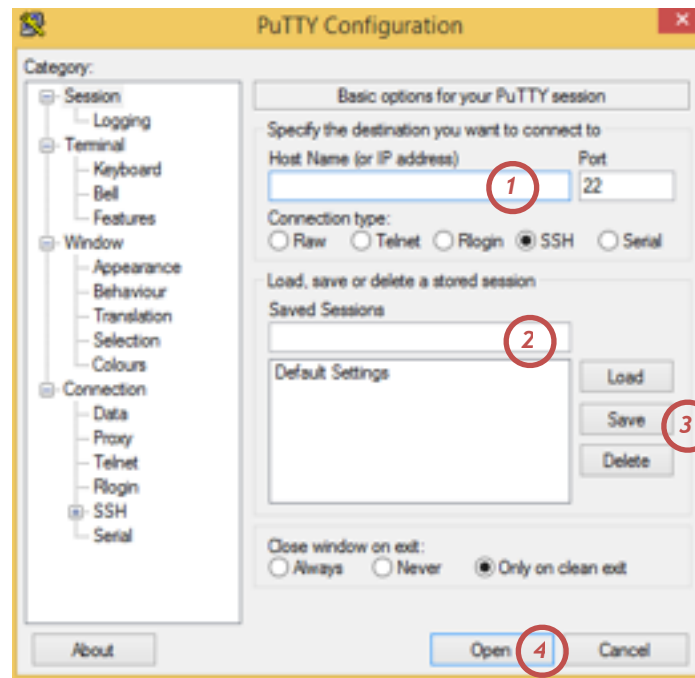


Figure 9) Log in window for Putty

# Snurre

- 1) Use the PuTTY command window (Figure 10) to navigate to the folder created previously



Figure 10) Putty command window

- 2) Run the example files using the following command for abaqus 6.14  
`abaqusmpi Patch_solid_exp.inp 2`

*Command description:*

`abaqusmpi "job name with .inp" "number of cpus"`