OPEN POROUS MEDIA-WINDOWS SYSTEM ALTERNATIVE INSTALLATION APPROACH

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About The–Open Porous Media

The Open Porous Media $(OPM)^1$ initiative encourages open innovation and reproducible research for modeling and simulation of porous media processes.

Follow these steps below for an alternative successful installation on a windows system.

- 1. Download and Install VMWare WorkStation 14 for Windows from this link https://
 www.vmware.com/products/workstation-pro/workstation-pro-evaluation.html.
 - After successful Installation, Restart your PC and enable Virtualisation Technology
 - You can then install a Linux version of your choice, in my case I downloaded Kubuntu (https://kubuntu.org/getkubuntu/) and Installed Kubuntu on the VMWare.
 - If the installation is complete, then open Kubuntu by initialising the VMWare(Double Click the VMWARE Application) as shown in figure 1 below



Figure 1: Initialising VMWare

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2. Click Open Virtual Machine and Select the Ubuntu 64bit as shown in Figure 2 below



Figure 2: Starting the Kubuntu through the Virtual Machine

3. It should the appear as shown in Figure 3 below



Figure 3: Starting the Kubuntu through the Virtual Machine



4. Click Play Virtual Machine and then logon as shown in Figure 4 below



- 5. Once you logon, open the console Window and then Install Open Porous Media by following the instructions by Carl Fredrik Berg in this video; https://www.youtube.com/watch?time_continue=1&v=r1hL11vwG9c
- 6. You can then run a Test Case of SPE1 by changing to that directory and then run the Flow Simulator as shown in Figure 5 below



Figure 5: Running SPE1 through the Flow Simulator

7. If the simulation is successful, there should be no errors in the simulation as shown in Figures 6



Figure 6: Running SPE1 through the Flow Simulator-Checking for Errors

8. You can then open the PRT summary file with emacs as shown in Figure 7 below



Figure 7: Running SPE1 through the Flow Simulator

9. Open ResInsight and Visualize the model as shown in Figures 8 and 9 $\,$







Figure 9: Visualising the Model Through ResInsight

End of Installation—Enjoy!! Opening and Closing

You can then repeat steps 6 to 9 whenever you would like to run a simulation case ENJOY!!