DQ0 Dynamics Installation Manual

Advanced GUI and API Development for Smart Power Networks Simulation

1 Downloading the Software

The Dynamics DQ0 executable may be found in GitHub under "dq0Dynamics". There are two versions to the software, a 32-bit (x86) and a 64-bit (x64) version as can be seen in Figure 1. Choose to install whichever suits your hardware.
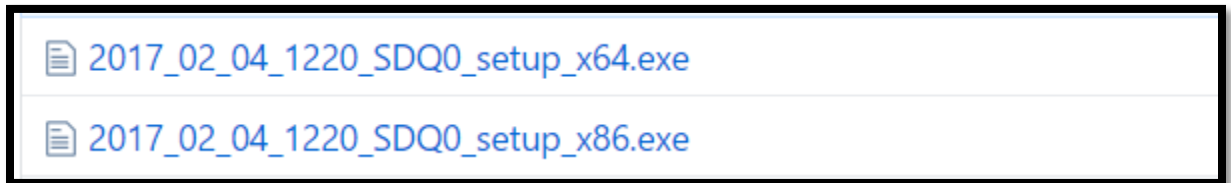

Figure 1 - Download Options

2 Installing the software

The initial setup screen can be seen in Figure 2. Click on "next" and then agree to the license agreement after reading it thoroughly.

Figure 2 - Initial Setup Window

In the following screen (seen in Figure 3), the user will be prompted to choose the components of the installation. Dynamics DQ0 interfaces with the Matlab simulation (can be freely downloaded from Matlab central) with an infrastructure built on the Python scripting language. For the user's convenience a Python 2.7 package is available and ready to use. In case the user already has Python installed on his computer, he may choose to not install the package. However, the recommended and default setting is to install it alongside Dynamics DQ0. In case a later release of Python is available on the host computer, the user may choose to refrain from overwriting by unclicking the box next to the Python component.
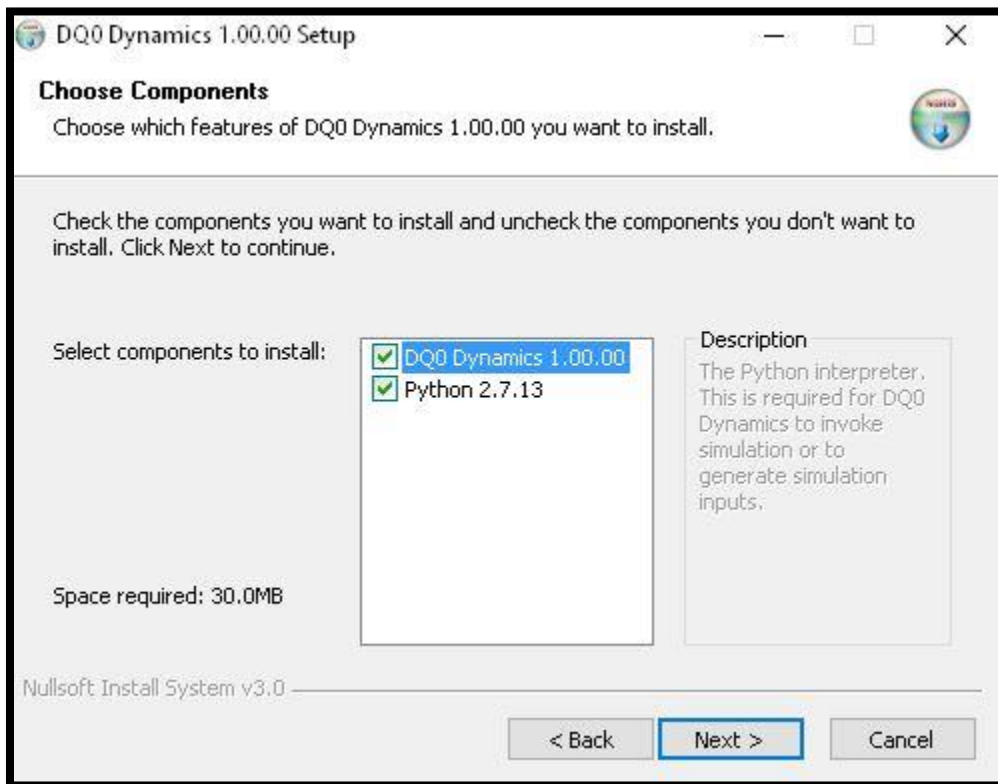

Figure 3 - Setup - Choose Components