

This document explains the steps that need to be taken in order to get CUDA 1.1 installed on your machine. The file names might differ slightly from what you download if newer versions are released.

1. Direct your browser to http://www.nvidia.com/object/cuda_get.html
2. In the pull down window under “Choose Your OS”, select Windows XP and press “Search”.
3. A box will open with download links to several versions of CUDA. Under “CUDA 1.1”, press the “Download” button next to “CUDA driver”. This opens a new window in which you must agree to the terms and conditions of a software license agreement. Do so by checking the box and then press “Download Now”. Save the file somewhere where you can find it, such as the desktop, and then close the window.
4. Repeat step 3 for the “CUDA toolkit” and “CUDA sdk”.
5. Allow the downloads to finish; this could take some time depending on your connection.
6. Locate the files you have just downloaded and install the “CUDA driver” by double clicking “169.21_forceware_winxp_32bit_english_whql”.
7. Accept the license agreement and install the driver to the default path by clicking “Next” twice. This will cause an “InstallShield” window to open. If you already have a newer driver installed, the install process should notify you. If this is the case, you do not need to install this driver. Please proceed to step 8. Otherwise, press “Next” and then “Yes” to begin driver installation. Your computer may not recognize the driver it is trying to install, so if a box opens that says that the software “has not passed Windows Logo testing” then thank Microsoft for their kind consideration and choose “Continue Anyway”. When prompted to restart your computer, do so. Although this might not be strictly necessary, it is safer to do so and you aren’t that busy anyway, right?
8. Depending on what computer you are on, you can either wait or go for lunch while it reboots.
9. Begin installing the CUDA toolkit by double clicking the file “NVIDIA_CUDA_Toolkit_1.1_x86”. Choose “Next” and then accept the license agreement. Press “Next” to accept the default install location. Press “Install”. When it finishes, uncheck “Browse CUDA files” and press “Finish”.
10. Find the CUDA sdk file, “NVIDIA_CUDA_SDK_1.1_x86”, and double click it. Choose “Next” and then accept the license agreement. Enter your Name and Organization. Enter your E-mail if you want to receive e-mails from NVIDIA (exciting!). Hit “Next” and wait a moment as the product registers (whatever that means). Hit “Next” to accept the default install location. Press “Install” to begin copying files. Decide whether you would a shortcut and then hit “Finish” without unchecking the boxes.
11. If you are on a computer with Microsoft Visual Studio 2005, you can test the CUDA install by browsing to the “projects” folder inside the “NVIDIA CUDA SDK” folder, which should be open on your computer. Open the “nbody” folder and double click “nbody” (actually a Microsoft Visual Studio Solution) to open this sample project. From the pull down menu where it says “Debug” choose “Release” and then hit F7 to build the solution. If it succeeds in building, press the small green arrow next to the pull down menu and enjoy the very pretty, very computationally intensive nbody simulation. Although I don’t recommend it, you can try building and running the EmuRelease version, which runs on the CPU, to see what a difference one (relatively) inexpensive graphics card can make in terms of computational power.