

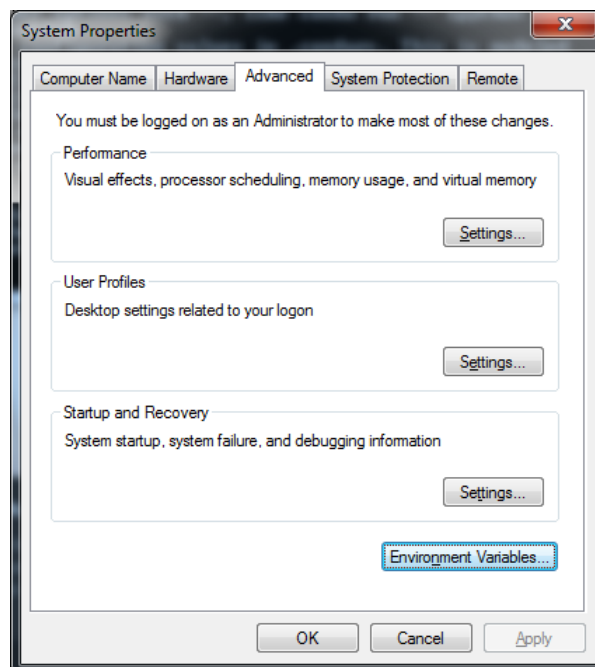
Installing MPI and mpi4py on a Windows computer

MPI

NOTE: This guide assumes that you are working with Python 2.7 and that you have Anaconda for Python 2.7 installed or that you are executing the console commands in a Python 2.7 environment.

First, you need something corresponding to `mpich` or `openmpi`. Microsoft has its own version which works fine on computers using Windows. It is found at [Microsoft's homepage](#).

After downloading and installing, you will need to add the path in which you installed the MPI to your PATH variable. It is easiest done by searching for `environment variables` in the control panel, which will bring up the System Properties window.



Clicking the Environment Variables button will bring up a list of variables. Edit the one named PATH and append the directory in which you installed mpiexec. It will most likely be

```
C:\Program Files\Microsoft MPI\Bin
```

however that may vary, so make sure that you append the right directory to your PATH.

To check if it worked properly, open a Command Prompt and type PATH. If it worked correctly the directory will be shown at the end of the PATH variable. Also, you may enter `mpiexec` in the command prompt to get information on the program.

mpi4py

Now, while you are in the Command Prompt, it is time to install a `mpi4py` package for python. It is done by entering

```
conda install --channel https://conda.anaconda.org/dhirschfeld mpi4py
```

in the console. Information on this package can be found [here](#). The package will now be installed and you are most likely good to go. Test the MPI by entering

```
mpiexec -n 4 python C:\Users\YourName\Documents\Python\YourMPITest.py
```

in the command prompt, where the directory is (obviously) edited to where you have your Python programs. Examples of programs you can use to test are found [at the page included att the FMNN25 homepage](#).