NumPy

CDS 230

Fall 2018

The *numpy* package provides powerful tools for the creation and manipulation of numerical arrays. This allows Python to be a powerful number cruncher. This lecture will review the basics of using the *numpy* modules and functions.

1   The Plan

We will review the following topics:

- How to create numerical arrays.

- How to access the items in the array.

- How to perform calculations with arrays.

- How the *numpy* modules can be used to perform complicated tasks with just a few steps.

2   Expected Outcomes

By the end of the lecture, you should be able to create arrays, access the data in arrays, and be able to use the arrays in calculations.