

## ***NumUtils on HPC***

### **What is NumUtils?**

The 'num-utils' are a collection of command-line utilities for working with numerical data on Unix-like operating systems. They are designed to be used in a similar way to other popular Unix command-line utilities such as grep, awk, sort, and cut. The num-utils package provides a set of tools that can be used to perform various tasks related to numerical data, such as calculating statistics, sorting and filtering data, and converting between different data formats.

Links:

[Package Info](#)

### **Versions Available:**

The following versions are available on the cluster:

- num-utils 0.5

### **How to load NumUtils?**

To load NumUtils , use the following commands:

```
#Load the numutils module  
module load math/num-utils
```

## How to use NumUtils?

Following binary executable are available in this package,

```
* average: A program for calculating the average of numbers.
* bound: Finds the boundary numbers (min and max) of input.
* interval: Shows the numeric intervals between each number in a
sequence.
* normalize: Normalizes a set of numbers between 0 and 1 by default.
* numgrep: Like normal grep, but for sets of numbers.
* numprocess: Do mathematical operations on numbers.
* numsum: Add up all the numbers.
* random: Generate a random number from a given expression.
* range: Generate a set of numbers in a range expression.
* round: Round each number according to its value.
```

To look at the manual for any command, use the man command:

```
#See the manual | press q to exit
man average
```

To use random, just use

```
#Random num in 1 to 10 range
random /1..10/
```

## ***Where to find help?***

If you are confused or need help at any point, please contact OIT at the following address.

<https://ua-app01.ua.edu/researchComputingPortal/public/oitHelp>



