Solution to Homework #1— High Performance Scientific Computing

September 12, 2019

Problem 1 (*100 points*) Learning to use Git.

Solution: Write your solution here. If there were, math it could look like

$$\sin A \cos B = \frac{1}{2}\left[\sin(A-B) + \sin(A+B)\right]$$
$$\sin A \sin B = \frac{1}{2}\left[\sin(A-B) - \cos(A+B)\right]$$
$$\cos A \cos B = \frac{1}{2}\left[\cos(A-B) + \cos(A+B)\right]$$

If you need to include a block of code:

```
// Some interesting code here
int a = 0;
int b = 1;
```

Program 1: The caption should briefly describe whats so important about this code block.

If the code had output, we could include it like so:

```
[ 0.0156615   0.00483956  0.00490249  0.00701772  0.0049713   0.00542965
  0.00486095  0.00420872  0.02011727]
```

The supercomputer Blue Waters (Fig. 1) has hundreds of thousands of CPUs:

Figure 1: This is how to include a figure.