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CS 351 Lab 4

method	num_ops	+ ops/sec	- ops/sec	* ops/sec	/ ops/sec
Function	1 billion	53166730.06	53093334.47	51519625.44	52324935.54
Pipe	1 million	150872.98	145482.11	145310.73	139953.91
Socket	1 million	59959.72	56849.25	62197.96	62461.24
RPC	1 million				

The performance consistently decreases across the different methods. It was no surprise that the function method provided the best output because it was directly calling a function within the program. Pipe was slightly slower because the process involved communicating between the pipes rather than calling the function directly. Even though my sockets were set up in a similar way to pipes, these processes ran even slower. This is likely due to sockets being a more complicated network.

Below is a screenshot of my output from Fourier. I included this because I was receiving odd behavior at times (Connection failed for socket with add function), but then it would work when I ran it subsequent times. I just wanted to show proof that it does compile and returns output.

```
[[aedwards4@fourier lab4]$ ./test-netio.sh
* running netio with method function operation add for 1000000000 number of ops
as C...
==> 53166730.067992 ops/sec
* running netio with method function operation subtract for 1000000000 number of
 ops as C...
==> 53093334.471654 ops/sec
* running netio with method function operation multiply for 1000000000 number of
 ops as C...
==> 51519625.448201 ops/sec
* running netio with method function operation divide for 1000000000 number of o
ps as C...
==> 52324935.547453 ops/sec
* running netio with method pipe operation add for 1000000 number of ops as C...
==> 150872.981244 ops/sec
* running netio with method pipe operation subtract for 1000000 number of ops as
 C...
==> 145482.118284 ops/sec
* running netio with method pipe operation multiply for 1000000 number of ops as
 C...
==> 145310.735383 ops/sec
* running netio with method pipe operation divide for 1000000 number of ops as C
...
==> 139953.918773 ops/sec
* running netio with method socket operation add for 1000000 number of ops as S.
..
==> 59959.723854 ops/sec
* running netio with method socket operation subtract for 1000000 number of ops
as S...
==> 56849.258336 ops/sec
* running netio with method socket operation multiply for 1000000 number of ops
as S...
==> 62197.962805 ops/sec
* running netio with method socket operation divide for 1000000 number of ops as
 S...
==> 62461.246700 ops/sec
```