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CSCE 313-504

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Machine Problem 2: Part 2

Sending a request to a separate process takes longer than handling the request in a local function, as seen by the test cases below:

Send requests to client	Locally
11.91	1.56
11.01	1.61
13.69	1.97
19.23	1.85
12.20	2.00

It seems to take about 6 times as long for the sent requests to go through as the locally-handled requests, or 12 microseconds versus 2 microseconds, respectively. The reason for this is that sending requests to a separate process takes extra time during each request since there is a whole other process that needs to be executed, rather than handling the request locally.

```
build.tamu.edu - PuTTY
Reading next request from channel (control) ...reply to request 82:76
done (control)
New request is data TestPerson83
Reading next request from channel (control) ...reply to request 83:76
done (control)
New request is data TestPerson84
Reading next request from channel (control) ...reply to request 84:88
done (control)
New request is data TestPerson85
Reading next request from channel (control) ...reply to request 85:84
done (control)
New request is data TestPerson86
Reading next request from channel (control) ...reply to request 86:13
done (control)
New request is data TestPerson87
Reading next request from channel (control) ...reply to request 87:51
done (control)
New request is data TestPerson88
Reading next request from channel (control) ...reply to request 88:54
done (control)
New request is data TestPerson89
Reading next request from channel (control) ...reply to request 89:99
done (control)
New request is data TestPerson90
Reading next request from channel (control) ...reply to request 90:32
done (control)
New request is data TestPerson91
Reading next request from channel (control) ...reply to request 91:60
done (control)
New request is data TestPerson92
Reading next request from channel (control) ...reply to request 92:76
done (control)
New request is data TestPerson93
Reading next request from channel (control) ...reply to request 93:68
done (control)
New request is data TestPerson94
Reading next request from channel (control) ...reply to request 94:39
done (control)
New request is data TestPerson95
Reading next request from channel (control) ...reply to request 95:12
done (control)
New request is data TestPerson96
Reading next request from channel (control) ...reply to request 96:26
done (control)
New request is data TestPerson97
Reading next request from channel (control) ...reply to request 97:86
done (control)
New request is data TestPerson98
Reading next request from channel (control) ...reply to request 98:94
done (control)
New request is data TestPerson99
Reading next request from channel (control) ...reply to request 99:39
done (control)
New request is quit
Reply to request 'quit' is 'bye'
avg send request time for 100 requests is 11.730000 microseconds
avg generate data request time for 100 requests is 1.800000 microseconds
close requests channel control
close IPC mechanisms on server side for channel control
close requests channel control
[leilani@112]@build ~/313/MP2_Sources (23:28:28 10/14/17)
!!
```