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> > rm -f server client
> EOF
root@87d8d49ebcc8:~/os161/temperature-stabilization# make clean
rm -f server client
root@87d8d49ebcc8:~/os161/temperature-stabilization# make
gcc -O2 -Wall -Wextra -pedantic -o server server.c
gcc -O2 -Wall -Wextra -pedantic -o client client.c
root@87d8d49ebcc8:~/os161/temperature-stabilization# cd /root/os161/temperature-stabilization
root@87d8d49ebcc8:~/os161/temperature-stabilization# ls -l      # you should see server, client, Makefile, *.c
total 56
-rw-r--r-- 1 root root 257 Oct 15 12:49 Makefile
-rwxr-xr-x 1 root root 17536 Oct 15 12:49 client
-rw-r--r-- 1 root root 3251 Oct 15 12:47 client.c
-rwxr-xr-x 1 root root 17616 Oct 15 12:49 server
-rw-r--r-- 1 root root 5454 Oct 15 12:47 server.c
root@87d8d49ebcc8:~/os161/temperature-stabilization# ./server 25.0
[SERVER] Listening on port 5000 initial central=25.000000
[SERVER] Client 1 connected (fd=19)
[SERVER] Received HELLO from ext #1 with temp=10.00000
[SERVER] Client 2 connected (fd=11)
[SERVER] Received HELLO from ext #2 with temp=30.00000
[SERVER] Client 3 connected (fd=12)
[SERVER] Received HELLO from ext #3 with temp=15.000000
[SERVER] Client 4 connected (fd=13)
[SERVER] Received HELLO from ext #4 with temp=45.000000
[SERVER] iter=1 central=25.000000 -> 25.000000 ext=[16.000000, 28.000000, 19.000000, 37.000000]
[SERVER] iter=2 central=25.000000 -> 25.000000 ext=[19.600000, 26.800000, 21.400000, 32.200000]
[SERVER] iter=3 central=25.000000 -> 25.000000 ext=[21.760000, 26.000000, 22.840000, 29.320000]
[SERVER] iter=4 central=25.000000 -> 25.000000 ext=[23.056000, 25.648000, 23.704000, 27.592000]
[SERVER] iter=5 central=25.000000 -> 25.000000 ext=[23.833600, 25.388000, 24.222400, 26.555200]
[SERVER] iter=6 central=25.000000 -> 25.000000 ext=[24.300160, 25.233280, 24.533440, 25.93120]
[SERVER] iter=7 central=25.000000 -> 25.000000 ext=[24.588096, 25.139768, 24.720664, 26.55972]
[SERVER] iter=8 central=25.000000 -> 25.000000 ext=[24.748858, 25.083981, 24.832038, 25.335923]
[SERVER] iter=9 central=25.000000 -> 25.000000 ext=[24.848835, 25.058381, 24.899223, 25.281554]
[SERVER] iter=10 central=25.000000 -> 25.000000 ext=[24.912000, 25.030343, 24.933000, 25.18212]
[SERVER] iter=11 central=25.000000 -> 25.000000 ext=[24.945580, 25.042440, 25.015720, 25.072550]
[SERVER] iter=12 central=25.000000 -> 25.000000 ext=[24.967348, 25.010894, 24.978332, 25.04356]
[SERVER] iter=13 central=25.000000 -> 25.000000 ext=[24.988409, 25.004530, 24.986939, 25.026121]
[SERVER] iter=14 central=25.000000 -> 25.000000 ext=[24.988245, 25.003918, 24.992164, 25.015673]
[SERVER] iter=15 central=25.000000 -> 25.000000 ext=[24.999747, 25.023561, 24.995298, 25.089404]
[SERVER] iter=16 central=25.000000 -> 25.000000 ext=[24.99578, 25.001411, 24.997179, 25.085642]
[SERVER] iter=17 central=25.000000 -> 25.000000 ext=[24.997441, 25.008464, 24.998307, 25.003385]
[SERVER] iter=18 central=25.000000 -> 25.000000 ext=[24.998471, 25.009508, 24.998984, 25.002031]
[SERVER] iter=19 central=25.000000 -> 25.000000 ext=[24.999086, 25.000305, 24.999391, 25.001219]
[SERVER] *** STABILIZED after 19 iterations ***
[SERVER] Final central=25.000000
[SERVER] Final ext[1]=24.999886
[SERVER] Final ext[2]=25.000305
[SERVER] Final ext[3]=24.999391
[SERVER] Final ext[4]=25.001219

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root@87d8d49ebcc8:~/os161/temperature-stabilization# cd /root/os161/temperature-stabilization
root@87d8d49ebcc8:~/os161/temperature-stabilization# ./client 1 18.0
[CLIENT 1] connected to 127.0.0.1:5000 with initial ext=10.000000
[CLIENT 1] iter=1 central=25.000000 -> 16.000000
[CLIENT 1] iter=2 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=3 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=4 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=5 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=6 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=7 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=8 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=9 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=10 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=11 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=12 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=13 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=14 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=15 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=16 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=17 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=18 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] iter=19 central=25.000000 ext: 16.000000 -> 16.000000
[CLIENT 1] DONE after 20 iters. central=25.000000 ext: 24.999886
root@87d8d49ebcc8:~/os161/temperature-stabilization#

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[CLIENT 2] iter=1 central=25.000000 ext: 30.000000 -> 28.000000
[CLIENT 2] iter=2 central=25.000000 ext: 28.000000 -> 26.000000
[CLIENT 2] iter=3 central=25.000000 ext: 26.800000 -> 26.000000
[CLIENT 2] iter=4 central=25.000000 ext: 26.000000 -> 25.648000
[CLIENT 2] iter=5 central=25.000000 ext: 25.648000 -> 25.388000
[CLIENT 2] iter=6 central=25.000000 ext: 25.388000 -> 25.233280
[CLIENT 2] iter=7 central=25.000000 ext: 25.233280 -> 25.139768
[CLIENT 2] iter=8 central=25.000000 ext: 25.139768 -> 25.083001
[CLIENT 2] iter=9 central=25.000000 ext: 25.083001 -> 25.052000
[CLIENT 2] iter=10 central=25.000000 ext: 25.052000 -> 25.032033
[CLIENT 2] iter=11 central=25.000000 ext: 25.032033 -> 25.018149
[CLIENT 2] iter=12 central=25.000000 ext: 25.018149 -> 25.010884
[CLIENT 2] iter=13 central=25.000000 ext: 25.010884 -> 25.006538
[CLIENT 2] iter=14 central=25.000000 ext: 25.006538 -> 25.003918
[CLIENT 2] iter=15 central=25.000000 ext: 25.003918 -> 25.002351
[CLIENT 2] iter=16 central=25.000000 ext: 25.002351 -> 25.001411
[CLIENT 2] iter=17 central=25.000000 ext: 25.001411 -> 25.000846
[CLIENT 2] iter=18 central=25.000000 ext: 25.000846 -> 25.000508
[CLIENT 2] iter=19 central=25.000000 ext: 25.000508 -> 25.000305
[CLIENT 2] DONE after 20 iters. central=25.000000 ext: 25.000305
root@87d8d49ebcc8:~/os161/temperature-stabilization#
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root@87d8d49ebcc8:~/os161/temperature-stabilization# ./client 3 15.0
[CLIENT 3] connected to 127.0.0.1:5000 with initial ext=15.000000
[CLIENT 3] iter=1 central=25.000000 ext: 15.000000 -> 19.000000
[CLIENT 3] iter=2 central=25.000000 ext: 19.000000 -> 20.400000
[CLIENT 3] iter=3 central=25.000000 ext: 20.400000 -> 22.800000
[CLIENT 3] iter=4 central=25.000000 ext: 22.800000 -> 23.704000
[CLIENT 3] iter=5 central=25.000000 ext: 23.704000 -> 24.222400
[CLIENT 3] iter=6 central=25.000000 ext: 24.222400 -> 24.532440
[CLIENT 3] iter=7 central=25.000000 ext: 24.532440 -> 24.720864
[CLIENT 3] iter=8 central=25.000000 ext: 24.720864 -> 24.832038
[CLIENT 3] iter=9 central=25.000000 ext: 24.832038 -> 24.899223
[CLIENT 3] iter=10 central=25.000000 ext: 24.899223 -> 24.939534
[CLIENT 3] iter=11 central=25.000000 ext: 24.939534 -> 24.963728
[CLIENT 3] iter=12 central=25.000000 ext: 24.963728 -> 24.978232
[CLIENT 3] iter=13 central=25.000000 ext: 24.978232 -> 24.986939
[CLIENT 3] iter=14 central=25.000000 ext: 24.986939 -> 24.992164
[CLIENT 3] iter=15 central=25.000000 ext: 24.992164 -> 24.995298
[CLIENT 3] iter=16 central=25.000000 ext: 24.995298 -> 24.997179
[CLIENT 3] iter=17 central=25.000000 ext: 24.997179 -> 24.998307
[CLIENT 3] iter=18 central=25.000000 ext: 24.998307 -> 24.998984
[CLIENT 3] iter=19 central=25.000000 ext: 24.998984 -> 24.999391
[CLIENT 3] DONE after 20 iters. central=25.000000 ext: 24.999391
root@87d8d49ebcc8:~/os161/temperature-stabilization#

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[CLIENT 4] connected to 127.0.0.1:5000 with initial ext=45.000000
[CLIENT 4] iter=1 central=25.000000 ext: 45.000000 -> 37.000000
[CLIENT 4] iter=2 central=25.000000 ext: 37.000000 -> 32.200000
[CLIENT 4] iter=3 central=25.000000 ext: 32.200000 -> 29.320000
[CLIENT 4] iter=4 central=25.000000 ext: 29.320000 -> 27.592000
[CLIENT 4] iter=5 central=25.000000 ext: 27.592000 -> 26.555200
[CLIENT 4] iter=6 central=25.000000 ext: 26.555200 -> 25.933120
[CLIENT 4] iter=7 central=25.000000 ext: 25.933120 -> 25.559872
[CLIENT 4] iter=8 central=25.000000 ext: 25.559872 -> 25.335923
[CLIENT 4] iter=9 central=25.000000 ext: 25.335923 -> 25.201554
[CLIENT 4] iter=10 central=25.000000 ext: 25.201554 -> 25.128932
[CLIENT 4] iter=11 central=25.000000 ext: 25.128932 -> 25.072559
[CLIENT 4] iter=12 central=25.000000 ext: 25.072559 -> 25.043536
[CLIENT 4] iter=13 central=25.000000 ext: 25.043536 -> 25.026121
[CLIENT 4] iter=14 central=25.000000 ext: 25.026121 -> 25.015673
[CLIENT 4] iter=15 central=25.000000 ext: 25.015673 -> 25.009404
[CLIENT 4] iter=16 central=25.000000 ext: 25.009404 -> 25.005642
[CLIENT 4] iter=17 central=25.000000 ext: 25.005642 -> 25.003385
[CLIENT 4] iter=18 central=25.000000 ext: 25.003385 -> 25.002031
[CLIENT 4] iter=19 central=25.000000 ext: 25.002031 -> 25.001219
[CLIENT 4] DONE after 20 iters. central=25.000000 ext: 25.000000
root@87d8d49ebcc8:~/os161/temperature-stabilization#

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