

Sequential Compute

Implementation in C : I will commit the C file and to compile it do the following

Step 1:

`gcc -o sequential_compute sequential_compute.c` ; where sequential_compute is the folder name and sequential_compute.c is the file

Step 2:

`echo "1 2 3 4 5 6 7 8 9" > numbers.txt` ; here we are adding the N to numbers.txt from the terminal

Step 3:

`./sequential_compute numbers.txt` ; run the sequential compute function on the numbers added in numbers.txt

Answer:

Result: 45

Implementation in xv6: I will commit the sequence_compute and to run do the following:

Step 1:

Add the sequence_compute file to xv6 and add it in the Makefile

Step 2:

Run qemu and enter the below arguments:

`echo "whatever nums u want" > numbers.txt`
`sequence_compute numbers.txt`

The file content and the parsed numbers are just for debugging

```
$ ls
.          1 1 512
..         1 1 512
README    2 2 2286
cat        2 3 15580
echo       2 4 14484
forktest   2 5 9080
grep       2 6 18516
init       2 7 15080
kill       2 8 14536
ln         2 9 14436
ls         2 10 17056
mkdir      2 11 14564
rm         2 12 14544
sh         2 13 28632
stressfs   2 14 15316
usertestfs 2 15 65544
wc         2 16 15964
zombie     2 17 14124
MergeSort  2 18 18100
save       2 19 15780
printstat  2 20 20192
clonetest  2 21 15500
lseek      2 22 15636
getppid    2 23 14876
sequence_compu 2 24 16072
console    3 25 0
$ echo "1,2,3,4,-5,6,7,8,9" > numbers.txt
$ sequence_compute numbers.txt
File content: "1,2,3,4,-5,6,7,8,9"

parsed number: 0
parsed number: 1
parsed number: 2
parsed number: 3
parsed number: 4
parsed number: -5
parsed number: 6
parsed number: 7
parsed number: 8
parsed number: 9
parsed number: 0
Result: 35
```