

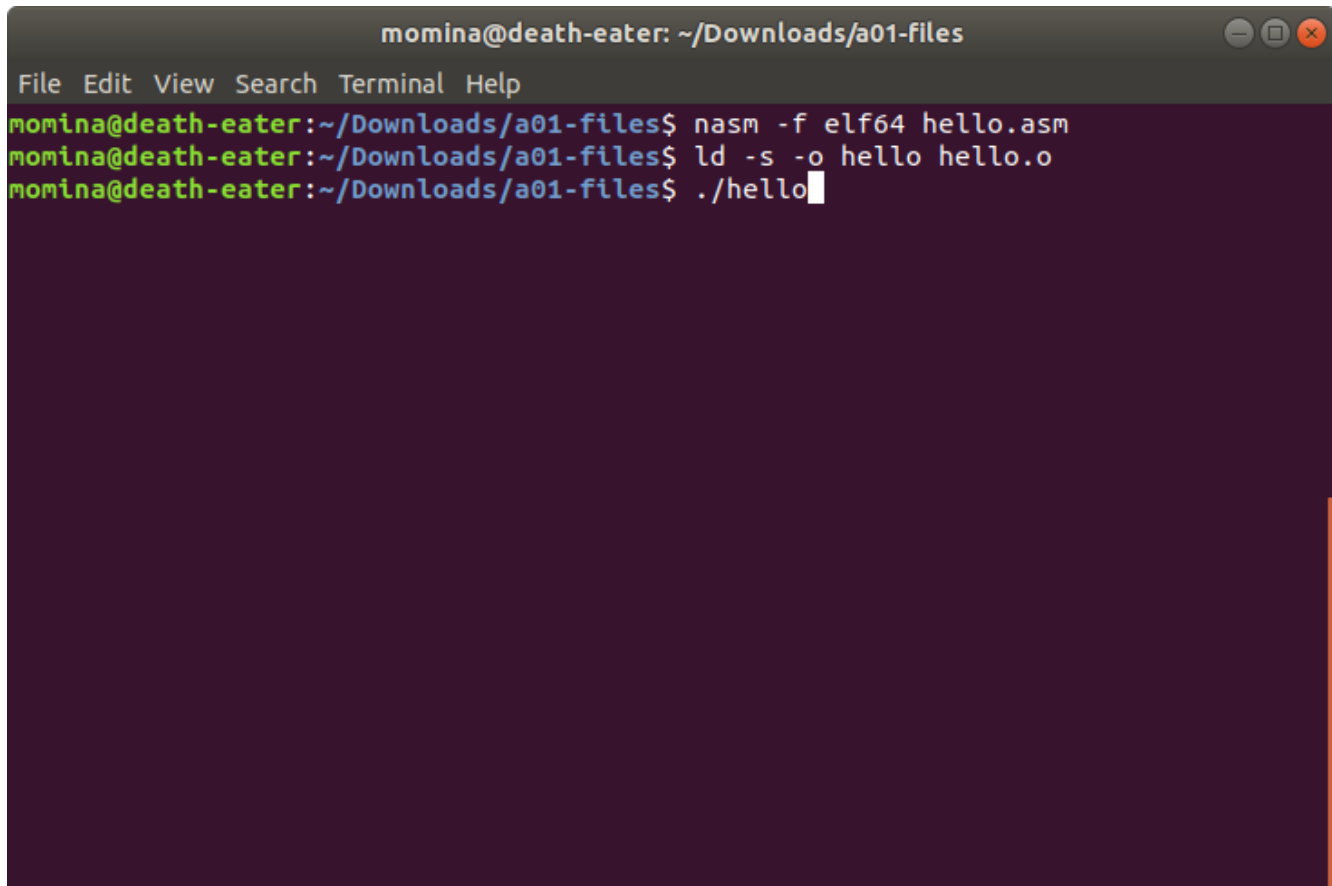
Operating Systems

Assignment 01

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P18-0030
Section: 4B

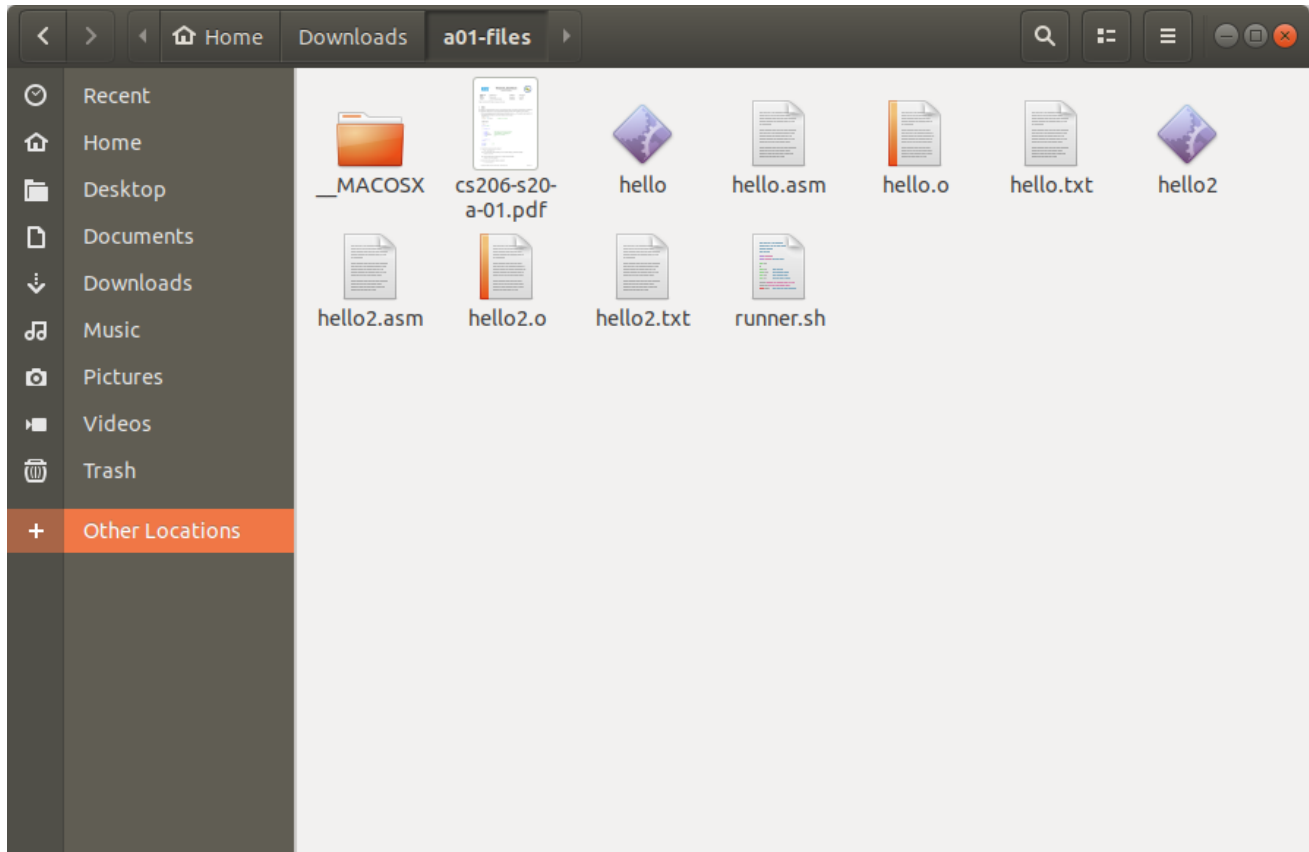
Number of experiments run:	N = 50
Average 'user time' for hello (int-based calls):	I = 117.78 s
Average 'user time' for hello2 (syscall-based calls):	S = 77.88 s
Percentage speedup: $(I - S) * 100 / I$	= 33.88 %

Commands:

A terminal window titled 'momina@death-eater: ~/Downloads/a01-files' with standard window controls. The terminal shows three commands being executed: 'nasm -f elf64 hello.asm', 'ld -s -o hello hello.o', and './hello'. The prompt is 'momina@death-eater:~/Downloads/a01-files\$' and the background is dark purple.

```
momina@death-eater: ~/Downloads/a01-files
File Edit View Search Terminal Help
momina@death-eater:~/Downloads/a01-files$ nasm -f elf64 hello.asm
momina@death-eater:~/Downloads/a01-files$ ld -s -o hello hello.o
momina@death-eater:~/Downloads/a01-files$ ./hello
```


Files created:



Average calculated:

Basic Mode ▾

☰ − □ ×

96+69+65+80+96...	=	3894
3894÷50	=	77.88
109+5	=	114
109+65+124+127...	=	5889
5889÷50	=	117.78
117.78−77.88	=	39.9
39.9×100	=	3990
3990÷117.78	=	33.8767

33.876719307|

7	8	9	÷	↶	C
4	5	6	×	()
1	2	3	−	x ²	√
0	.	%	+	=	