

Nick Snyder

- 1a. both improved
- b. response time improved
- c. neither improved

2. High level code gets compiled, and turned into ~~an~~ assembly code which then turns into machine code

3. a. $P1: 2.6E^6$ $P2: 2E^6$

b. $P1: 2.6$ $P2: 2$

c. $P2$

4. water 1: 0.9593 water 2: 0.9093^2

b. 0.1489

0.1650

c. $1.9/cm^2$ 0.9575

$2.86/cm^2$ 0.905

5.

6. $LSL\ X10, X3, \#3$

$LSL\ X11, X4, \#3$

$ADD\ X10, X10, X6$

$ADD\ X11, X11, X6$

$LDUR\ X12, [X10, \#0]$

$LDUR\ X13, [X11, \#0]$

$ADD\ X14, X12, X13$

$STUR\ X14, [X7, \#64]$

7

8. $0x1122 = 10422$

$0x3344 = 31504$

$0x5566 = 52546$

$0x7788 = 73610$

$MOVK\ X0, 10422, LSL\ 48$

$MOVK\ X0, 31504, LSL\ 32$

$MOVK\ X0, 52546, LSL\ 16$

$MOVK\ X0, 73610, LSL\ 0$