

Solutions for Homework 6

1.

	F0	F1	ENA	ENB	INVA	INC	Register control lines
a.	1	1	0	1	0	1	4, 5
b.	0	1	1	1	0	0	2, 7
c.	0	1	0	1	0	0	1, 6, 9
d.	0	1	0	0	0	0	16

Note: for c, F0F1 could also be 11 (ADD); for d, F0F1 could also be 00 (AND) or 11 (ADD);

2.

μ-instruction	H=A	SP=5	LV=340	MDR=C
0003C0804	A	5	F	C
000350404	A	6	F	C
000540100	A	6	F	6
0000C8100	2	6	F	2

3.

- a. 0001400A4
- b. 0003504C4
- c. 000350211

4.

Addr	JAM	ALU	Next
C	0	11	C
C	1	31	C
C	1	10	10C