

Homework 4

Due Tuesday, September 27

MACHINE LANGUAGE AND ASSEMBLY LANGUAGE

Read 3.3, 4.1-4.6, 4.8. Take a look at 3.1, 3.2.

Do Chapter 2 #1, 23, 24. Do Chapter 3 #4bcd.

1. The condition code register contains \$15 just before the instruction BEQ \$3000 executes. Does the branch take place?
2. Convert the following 68000 assembly language instructions to machine language. Give the answer as one or more hexadecimal words:

```
MOVE.W    D5,$8200
```

```
CMP.LA2, D5
```

```
ROL.B#1, D6
```

```
JSR    $B14
```

```
TRAP #1
```

```
BNE    $803C           (assume this instruction is stored at $8010)
```