

## **ERRATA SHEET**

### **Chapter 3:**

3.13 This exercise has incorrectly been placed at the end of Chapter 3. It belongs in Chapter 5. To avoid confusion in looking up solutions, we have placed the solution in the file for Chapter 3.

### **Chapter 4:**

4.10, 4.12, 4.14: These three questions use ADD, BR, and LD instead of ADD, JMP, and LDR respectively since JMP and LDR are not covered in chapter 4.

### **Chapter 8:**

8.14. The code in question should be as follows:

```
.ORIG      x3000
    LEA R3, NUM1
    LEA R4, NUM2
    LEA R5, RESULT
    LDR R1, R3, #0
    LDR R2, R4, #0
    ADD R0, R1, R2
    STR R0, R5, #0

    _____ (a)
    LDR _____ (b)
    LDR _____ (c)
    ADD R1, _____ (d)
    _____ (e)
    STR R0, _____ (f)

X    ST R4, SAVE R4
    AND R0, R0, #0
    BRn _____ (g)
    ADD R1, R1, #0
    BRn _____ (h)
    ADD _____ (i)
    BRn ADDING
    BRnzp EXIT
ADDING ADD R4, R1, R2
    BRn EXIT
LABEL  ADD R0, R0, #1
EXIT   LD R4, SAVER4
    RET

NUM1   .BLKW 2
NUM2   .BLKW 2
```

RESULT .BLKW 2  
SAVER4 .BLKW 1

8.15 Note: This problem would belong to chapter 9 rather than 8, as Exercise 9.56. Use the following specification of the question:

Assume the following program initially executes in **user mode** with a priority of 0. The table is as follows:

MAR	MDR
	x5020
	xF0F0
	x4010
x2000	x71BF
x1FFD	
	x8000
	xF025

## Chapter 9:

9.47 The code for this problem is incorrect. The correct code is stated below.

```

        .ORIG x2055
        ST R1, SaveR1
        _____ (a)
        TRAP x20
        LD R1, A
        _____ (b)
        TRAP x21
        _____ (c)
        LD R1, SaveR1
        RTI
A        .FILL _____ (d)
SaveR1   .BLKW 1
_____ .BLKW 1 (e)
```

9.48 The code starting at .ORIG x0100 is incorrect. The correct code is

```

        .ORIG x0100
        RTI
        ST R6, SP
        TRAP x02
        AND R1, R1, #0
        STR R1, R0, #3
        RTI
        AND R1, R1, #0
        STR R1, R0, #5
        TRAP x00
        RTI
SP       .BLKW 1
        .END
```

9.50 The code for this exercise is incorrect. The problem should be ignored.

9.54 Line b) is unnecessary in this code segment. Solve the problem ignoring line b)

**Chapter 10:**

10.9 The exercise is incorrectly stated and should be ignored.