

(15 pts) Exercise 1-1: After reading Ch. 1, do Problems 1.1-1.28 from the text. Follow example of the first one given below.

1.1 5, CPU

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(5 pts) Exercise 2-1

- What is the MIPS assembly code for the following:
 $g = g + h - i$;
 Variables g , h , & i are assigned registers $\$s1$, $\$s2$, and $\$s4$

(5 pts) Exercise 2-2

- What is the MIPS assembly code for the following:
 $g = h + A[3]$;
 Variables g , h , & i are assigned registers $\$s1$, $\$s2$, and $\$s4$
 Array A base address is assigned register $\$s3$

(5 pts) Exercise 2-3

- What is the MIPS assembly code for the following:
 $g = h + A[i]$;
 Variables g , h , & i are assigned registers $\$s1$, $\$s2$, and $\$s4$
 Array A base address is assigned register $\$s3$

(extra space)

(10 pts) Exercise 2-4: Assume variables a, b, and c are assigned registers \$s1, \$s2, and \$s3, and the address of array A is in \$s6. Write the code for the following:

$b = A[1] - A[2];$

(10 pts) Exercise 2-5: Assume variables a, b, and c are assigned registers \$s1, \$s2, and \$s3, and the address of array A is in \$s6. Write the code for the following:

$b = A[2 * c];$