

Feb 4, 2005

TCU CoSc20302§50 - Systems

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Due: Mon, Feb 7, 2005 - Sent to t.nute@tcu.edu by midnight.

Requirements: You are to write an MC68000 assembly language program which computes the sum of the four 16-bit, two's complement integers stored at a memory location named DAT - i.e. you are to compute $DAT + (DAT+2) + (DAT+4) + (DAT+6)$.

Your result should be left in data register D1.

Your code should make use of the following addressing modes:

- Absolute Long

- Register Indirect

- Register Indirect with Offset

- Register Indirect with Post Increment

In the course of grading your program I will substitute various sets of values for the four data integers located at DAT. You may assume only valid data will be used during my testing of your program.

Deliverables: You should send me just your source code file. That is, a file named 'L2.x68' Your code should be adequately commented in the manner discussed in class.