

Lab 11

A Hex Dump Program In Assembly Language

Purpose

To gain experience coding assembly language.

Background Reading And Preparation

Review Chapters 4 through 6, Chapter 8, and assembly language programs written in earlier labs.

Overview

Rewrite the hex dump program from Lab 6 in assembly language.

Procedure And Details (checkmark as each is completed)

1. Rewrite the basic hex dump procedure in assembly language.
2. Verify that the assembly language version gives the same output as the C version.

Optional Extensions (checkmark as each is completed)

3. Extend the dump procedure to start and stop on a byte address (i.e., omit leading values on the first line of output and trailing values on the last line).
4. Change the program to print values in decimal instead of ASCII character form.
5. Modify the dump program so instead of printing ASCII values, the program assumes the memory corresponds to machine instructions and gives mnemonic opcodes for each instruction. For example, if the first word on the line corresponds to a *load* instruction, print *load*.

- 6. Add an argument to the dump procedure that selects from among the various forms of output (ASCII characters, decimal, or instructions)
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Notes