Ece 375 Pre-Lab

James Stallkamp

1)The stack pointer is a register that holds the memory address of the last or “next” location on the stack. The stack pointer is initialized by loading the starting address of the stack into the register. The following is pseudo code to set up a stack pointer

Load in start address and next address of stack into register

2) The command lpm loads one byte from program memory, pointed to by the z register into the destination register. Pseudo code of using the lpm instruction.

Load Z with address of data in program memory.

Allocate destination RAM

Transfer data using lpm

3) The m128def.inc definition files contains many useful .equ and .def expressions, as well as RAMEND. These files give access to pre written expressions so that we as programmers do not have to write out as many instructions