EE2361-Lecture 13 10/5/16

Programing PIC24 (16-bit) Programmors Reference Manuel GA

CAN Fremay Data sheet for the PIC24FJ6400 Z

XC16 C compiler Usors quido Exzur Format > absed book, closed notes, supplementations, calculates permitted Brief Review

Microcontrollers >> PIC24 CPU >> Memory Program Menory Baric Instructions

Baric Instructions

3 cleaner - data fransfer (mov)

anthonetic & logic (add)

Addressing modes

Literal

register direct will mainet - several types [water]

Programmers Model -> there are all the registers your have access to as a program were -> pc - program courter - 16 working registers wos..., WIS SR - statu register > N,OV, Z, C (PC) some of then registers have special under CFP,SP, FFF)

Data Structures - Stack Format of the steek used with XC16 > discuired in programmers ref McMuael Stack Frame => one for each FP (register W14) SP (register w 15) next stack about What goes on stade? local variables

Assembler . set ALLVar Ovo123 Assembly files > instructions (preunics) label: add WI, WI, W3; for fun -> directives + . bss, .text, .data, .end etc. > Important séctions . eg, v , set ex: bss Awar: word 4

Little endian Assembly process What is involved from the original acrembly code file to the "image" that goes into plack memory on the uc relocatable >> binary Join 2
object executable rox - authentily of source (Compiler) file.c file, elf file,o