Princeton University

COS 217: Introduction to Programming Systems

Assembler Assignment: Design Overview Key: Abstract Object Assembler Abstract Data Type calk calls calls ElfGen Parser Pass1 Pass2 .o file writes produces produces patches calls uses uses uses produces Program Lexer reads contains SymTable Section Instr contains contains (mnemonic, directive, labeldef) contains LabelInfo RelRecord Operand (number, label, string,

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immed_number, immed_label,

register, memory)