Chapter 10: Assembler For Dummies

In which we learn that working with dummies can be the smart thing to do.

We begin this chapter by reviewing two assembler directives.

USING and DROP

The assembler converts many of the symbols we use into base/displacement addresses. Each address contains a base register and a displacement from a known address in our program. In building a program, we have control over which registers and base addresses are used at various points in the program. A USING statement is a directive to the assembler that controls which registers will be selected and the locations of the base addresses of those registers.

An ordinary USING statement is typically coded by naming a base address (most often a relocatable expression) in operand 1, followed by one or more registers. If " is used as a base address, it refers to the current value of the location counter. A base address is associated with each named register. The base address specified in operand 1 is associated with the first named register. If multiple registers are coded, the base address in increased by 4k for each subsequent register. Here are some examples.

USING	*,R12	BASE ADDRESS FOR R12 - CURRENT LOCATION BASE REGISTER - 12
USING	*,R12,R11,R10	BASE ADDRESS FOR R12 - CURRENT LOCATION BASE ADDRESS FOR R11 - CURRENT LOCATION+4096 BASE ADDRESS FOR R10 - CURRENT LOCATION+8192 BASE REGISTERS - 12,11,10
USING	HERE, R12, R11	BASE ADDRESS FOR R12 = ADDRESS OF HERE BASE ADDRESS FOR R11 = ADDRESS OF HERE+4096 BASE REGISTERs = 12,11

It's a common practice for programmers to use 12 as the first base register and work backwards in sequence if more base registers are needed. This is not a requirement, but simply a programming convention. The use of register 0 in a USING statement as a base register is a rare occurrence and beyond the scope of this discussion.

In processing a USING statement, the assembler records each register and its associated base address in a table called the *USING table*. The assembler consults the USING table whenever it converts a symbolic name to a base-displacement address. Registers are first added to the table by coding them in a USING statement. The base address associated with a register can be changed in the table by recoding the same register in a USING with a different base address. Finally, a register can be removed from the USING table altogether by coding it in a DROP statement. Here are some typical DROP statements.

DROP R12 DROP R12,R11,R10

As programs grow larger we often need to add more base registers, and as a result, available registers can become scarce. The DROP statement gives us the ability to tell the assembler to stop

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Assembly Programming Allibang Sherwyn (author),1901

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Assembly Language for X86 Processors Kip R. Irvine,2014 Assembly Language for x86 Processors 7e is intended for use in undergraduate courses in assembly language programming and introductory courses in computer systems and computer architecture This title is also suitable for embedded systems programmers and engineers communication specialists game programmers and graphics programmers Proficiency in one other programming language preferably Java C or C is recommended Written specifically for 32 and 64 bit Intel Windows platform this complete and fullyupdated study of

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Table of Contents Assembly Language For Dummies Pdf Wordpress

- 1. Understanding the eBook Assembly Language For Dummies Pdf Wordpress
 - The Rise of Digital Reading Assembly Language For Dummies Pdf Wordpress
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Assembly Language For Dummies Pdf Wordpress
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Assembly Language For Dummies Pdf Wordpress
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Assembly Language For Dummies Pdf Wordpress
 - Personalized Recommendations
 - $\circ\,$ Assembly Language For Dummies Pdf Wordpress User Reviews and Ratings
 - Assembly Language For Dummies Pdf Wordpress and Bestseller Lists
- 5. Accessing Assembly Language For Dummies Pdf Wordpress Free and Paid eBooks
 - Assembly Language For Dummies Pdf Wordpress Public Domain eBooks
 - Assembly Language For Dummies Pdf Wordpress eBook Subscription Services

- Assembly Language For Dummies Pdf Wordpress Budget-Friendly Options
- 6. Navigating Assembly Language For Dummies Pdf Wordpress eBook Formats
 - o ePub, PDF, MOBI, and More
 - Assembly Language For Dummies Pdf Wordpress Compatibility with Devices
 - Assembly Language For Dummies Pdf Wordpress Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Assembly Language For Dummies Pdf Wordpress
 - Highlighting and Note-Taking Assembly Language For Dummies Pdf Wordpress
 - Interactive Elements Assembly Language For Dummies Pdf Wordpress
- 8. Staying Engaged with Assembly Language For Dummies Pdf Wordpress
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Assembly Language For Dummies Pdf Wordpress
- 9. Balancing eBooks and Physical Books Assembly Language For Dummies Pdf Wordpress
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Assembly Language For Dummies Pdf Wordpress
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Assembly Language For Dummies Pdf Wordpress
 - Setting Reading Goals Assembly Language For Dummies Pdf Wordpress
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Assembly Language For Dummies Pdf Wordpress
 - Fact-Checking eBook Content of Assembly Language For Dummies Pdf Wordpress
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

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- Interactive and Gamified eBooks

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