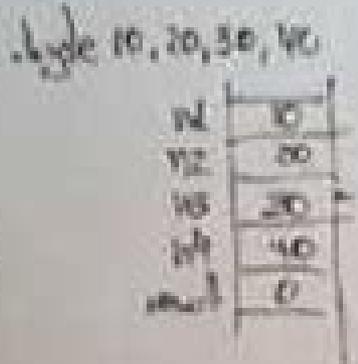


# Example of 8086 assembly program

.section .data  
 n1: .byte 10  
 n2: .byte 20  
 n3: .byte 30  
 n4: .byte 40  
 result: .space 4, 0  
 .section .text  
 .globl main



- ① Access of directly LDS R29, n1
- ② Access of indirectly LD R24, X ← X16

main:

```

    push R17
    LDS R16, n1
    LDS R17, n2
    LD R24, X ← X16
    LD R17, X4 ← R17 ← 20
    ADD R29, R16
    ADD R29, R17
    ADD R24, R16
    LD R17, X4
    ADD R24, R17
    ST 4, R24
    pop R17
    RET
    
```

X  
 R27, R28  
 X16  
 R17 ← 20

R29 ← R1 + R2  
 R17 ← n3  
 R29 ← R1 + R2 + R3  
 R24 ← R1 + R2 + R3 + R4  
 result = 10 + 20 + 30 + 40

end

# Assembler Code Examples I2c Avr Datasheet Application

**Timothy S Margush**



## **Assembler Code Examples I2c Avr Datasheet Application:**

Circuit Cellar Ink ,1998      **The Avr Microcontroller and Embedded Systems Using Assembly and C** Sepehr

Naimi,Sarmad Naimi,Muhammad Ali Mazidi,2017-11-13 The AVR microcontroller from Atmel now Microchip is one of the most widely used 8 bit microcontrollers Arduino Uno is based on AVR microcontroller It is inexpensive and widely available around the world This book combines the two In this book the authors use a step by step and systematic approach to show the programming of the AVR chip Examples in both Assembly language and C show how to program many of the AVR features such as timers serial communication ADC SPI I2C and PWM The text is organized into two parts 1 The first 6 chapters use Assembly language programming to examine the internal architecture of the AVR 2 Chapters 7 18 uses both Assembly and C to show the AVR peripherals and I O interfacing to real world devices such as LCD motor and sensor The first edition of this book published by Pearson used ATmega32 It is still available for purchase from Amazon This new edition is based on Atmega328 and the Arduino Uno board The appendices source codes tutorials and support materials for both books are available on the following websites <http://www.NicerLand.com> and <http://www.MicroDigitalEd.com> AVR AVR\_books.htm      **Explore ATtiny Microcontrollers Using C and Assembly Language** Warwick A. Smith,2021      **Some**

**Assembly Required** Timothy S Margush,2011-08-05 A family of internationally popular microcontrollers the Atmel AVR microcontroller series is a low cost hardware development platform suitable for an educational environment Until now no text focused on the assembly language programming of these microcontrollers Through detailed coverage of assembly language programming principles and techniques **Some Assembly Required** Assembly Language Programming with the AVR Microcontroller teaches the basic system capabilities of 8 bit AVR microcontrollers The text illustrates fundamental computer architecture and programming structures using AVR assembly language It employs the core AVR 8 bit RISC microcontroller architecture and a limited collection of external devices such as push buttons LEDs and serial communications to describe control structures memory use and allocation stacks and I O Each chapter contains numerous examples and exercises including programming problems By studying assembly languages computer scientists gain an understanding of the functionality of basic processors and how their capabilities support high level languages and applications Exploring this connection between hardware and software this book provides a foundation for understanding compilers linkers loaders and operating systems in addition to the processors themselves      *Embedded Systems Interfacing for Engineers using the Freescale HCS08 Microcontroller I* Douglas Summerville,2009-10-08 This textbook provides practicing scientists and engineers an advanced treatment of the Atmel AVR microcontroller This book is intended as a follow on to a previously published book titled Atmel AVR Microcontroller Primer Programming and Interfacing Some of the content from this earlier text is retained for completeness This book will emphasize advanced programming and interfacing skills We focus on system level design consisting of several interacting microcontroller subsystems The first chapter discusses the system design

process Our approach is to provide the skills to quickly get up to speed to operate the internationally popular Atmel AVR microcontroller line by developing systems level design skills We use the Atmel ATmega164 as a representative sample of the AVR line The knowledge you gain on this microcontroller can be easily translated to every other microcontroller in the AVR line In succeeding chapters we cover the main subsystems aboard the microcontroller providing a short theory section followed by a description of the related microcontroller subsystem with accompanying software for the subsystem We then provide advanced examples exercising some of the features discussed In all examples we use the C programming language The code provided can be readily adapted to the wide variety of compilers available for the Atmel AVR microcontroller line We also include a chapter describing how to interface the microcontroller to a wide variety of input and output devices The book concludes with several detailed system level design examples employing the Atmel AVR microcontroller

Table of Contents Embedded Systems Design Atmel AVR Architecture Overview Serial Communication Subsystem Analog to Digital Conversion ADC Interrupt Subsystem Timing Subsystem Atmel AVR Operating Parameters and Interfacing System Level Design

The AVR Microcontroller and Embedded Systems Muhammad Ali Mazidi,2011      **Assembler Language for Application Programming** Don H. Stabley,1982      **AVR Microcontroller and Embedded Systems: Using Assembly and C** Muhammad Ali Mazidi,Sarmad Naimi,Sepehr Naimi,2015-01-28 For courses in Embedded System Design

Microcontroller s Software and Hardware Microprocessor Interfacing Microprocessor Assembly Language Programming Peripheral Interfacing Senior Project Design Embedded System programming with C The AVR Microcontroller and Embedded Systems Using Assembly and C features a step by step approach in covering both Assembly and C language programming of the AVR family of Microcontrollers It offers a systematic approach in programming and interfacing of the AVR with LCD keyboard ADC DAC Sensors Serial Ports Timers DC and Stepper Motors Opto isolators and RTC Both Assembly and C languages are used in all the peripherals programming In the first 6 chapters Assembly language is used to cover the AVR architecture and starting with chapter 7 both Assembly and C languages are used to show the peripherals programming and interfacing The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed

*The AVR Microcontroller and Embedded Systems* Muhammad Ali Mazidi,Sarmad Naimi,Sepehr Naimi,2017

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