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Interfacing of 8085 with 8255 Programmable Peripheral Interface. The 8255 is a programmable peripheral interface. It is an IC used to simplify the interfacing of microprocessors and microcontrollers with I/O devices and increase the number of I/O devices that can be interfaced. The best part is that it is programmable, which means that we don't have to change circuit connections and wiring in order to switch between different ports and modes of operation.

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~~Interfacing of 8085 with 8255 Programmable  
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## ~~8085 MICROPROCESSOR: PROGRAMMING AND INTERFACING - N. K ...~~

An output device is interfaced with 8-bit microprocessor 8085A. The interfacing circuit is shown in figure. The interfacing circuit makes use of 3 Line to 8 Line decoder having 3 enable lines  $E_1$ ,  $E_2$ ,  $E_3$ . The address of the device is. (A) 50 H.

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Undergraduate course on the 8085 microprocessor, this text provides comprehensive coverage of the programming and interfacing of the 8-bit microprocessor. Written in a simple and easy-to-understand manner, this book introduces the reader to the basics and the architecture of the 8085 microprocessor.

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Sunil Mathur. PHI ... input instruction cycle  
interfacing interrupt request INTR INX H IO/M  
keyboard latch Load logic LOOP LXI H LXI SP  
machine cycles main program mask memory

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Location memory mapped memory mapped I/O  
memory pointer Memory read cycle Memory write  
microprocessor Number of bytes Number of ...

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It supports external interrupt request. 8085 consists of 16 bit program counter (PC) and stack pointer (SP). Six 8-bit general purpose register arranged in pairs: BC, DE, HL.

~~MICROPROCESSORS AND INTERFACING DEVICES~~

So, we need to interface the keyboard and other devices with the microprocessor by

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using latches and buffers. This type of interfacing is known as I/O interfacing. Block Diagram of Memory and I/O Interfacing 8085 Interfacing Pins. Following is the list of 8085 pins used for interfacing with other devices – A 15 - A 8 (Higher Address Bus)

~~Microprocessor - I/O Interfacing Overview -  
Tutorialspoint~~

8085 program to access and exchange the content of Flag register with register B;  
8085 program to exchange content of HL register pair with DE register pair; 8085 program to move blocks of bits from source

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location to a destination location; 8085  
program to generate Fibonacci series; 8085  
program to show masking of lower and higher  
nibbles of 8 bit number

~~Microprocessor Tutorials — GeeksforGeeks~~

Identify the hardware elements of 8085  
microprocessor including architecture and pin  
functions and programming model including  
registers, instruction set and addressing  
modes. Select appropriate 8085 instructions  
based on size and functions to write a given  
assembly language program.

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Memory interfacing to 8086 (Static RAM & EPROM). Need for DMA. DMA data transfer Method and Interfacing with 8237/8257. UNIT-IV. 8255 PPI – various modes of operation and interfacing to 8086. Interfacing Keyboard and Displays, 8279 Stepper Motor and actuators. D/A and A/D converter interfacing.

Microprocessor and Interfacing Notes pdf  
Details ...

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Microprocessor Programming, Troubleshooting,  
and Interfacing: The Z80, 8080, and 8085  
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and ...~~

MICROPROCESSOR & MICROCONTROLLER LAB MANUAL  
C.SARAVANAKUMAR. M.E., LECTURER, DEPARTMENT  
OF ELECTRONICS & COMMUNICATION ENGINEERING 5  
MULTIPLICATION OF TWO 8 BIT NUMBERS AIM: To  
perform the multiplication of two 8 bit  
numbers using 8085. ALGORITHM: 1) Start the  
program by loading HL register pair with

# Read Book 8085 Microprocessor Programming And Interfacing By N K Srinath of memory location.

## ~~8085 MICROPROCESSOR PROGRAMS~~

As the name suggests, 8085 Microprocessor and its Applications attempts to explain the basic concepts of programming and interfacing techniques using INTEL 8085 microprocessor as an example, including system design applications based on 8085 Microprocessor. In view of the complex nature of topics, the author has designed the book as a self-study material for the students in his signature style.



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~~8085 Microprocessor and its Applications  
Textbook by A . . .~~

This book is designed as a first-level introduction to Microprocessor 8085, covering its architecture, programming, and interfacing aspects. Microprocessor 8085 is the basic processor from which machine language programming can be learnt. The text offers a comprehensive treatment of microprocessor's hardware and software.

DISTINGUISHING FEATURES

~~Microprocessor 8085: Architecture,  
Programming, and . . .~~

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5.3 Instruction Set of 8085 Microprocessor .  
5.4 Timing Diagram for 8085 Instructions .  
... 9.5 Interfacing and programming of 8253 .  
9.6 Programming of 8253 in Mode 0: Interrupt  
on Terminal Count ...

~~(PDF) An Introduction to Microprocessor 8085~~  
Highlights three compatible 8-bit  
microprocessor chips as models—the Intel 8080  
and 8085, and the Zilog Z-80—and takes  
readers step-by-step through the building of  
a microcomputer to help them learn the  
differences between RAM and ROM and how these  
two types of memory are interfaced to the

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Microprocessor; how the input and output port works; and how to construct a serial interface. Uses 14 detailed program examples to illustrate common programming techniques used in software, and ...

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