

digital**pdp-11****PROGRAMMING CARD**

FOR FAMILY OF PDP-11 COMPUTERS

WORD FORMAT:

Mode	Name	Symbolic	Description
0	register	R	(R) is operand [ex. R2=%2]
1	register deferred	(R)	(R) is address
2	auto-increment	(R)+	(R) is adrs; (R) + (1 or 2)
3	auto-incr deferred	@(R)+	(R) is adrs of adrs; (R) + 2
4	auto-decrement	-(R)	(R) - (1 or 2); (R) is adrs
5	auto-decr deferred	@-(R)	(R) - 2; (R) is adrs of adrs
6	index	X(R)	(R) + X is adrs
7	index deferred	@X(R)	(R) + X is adrs of adrs

PROGRAM COUNTER ADDRESSING:

Reg = 7

Mode	Name	Symbolic	Description
2	immediate	#n	operand n follows instr
3	absolute	@#A	address A follows instr
6	relative	A	instr adrs + 4 + X is adrs
7	relative deferred	@A	instr adrs + 4 + X is adrs of adrs

LEGEND:**Op Codes**

= 0 for word/1 for byte
 SS = source field (6 bits)
 DD = destination field (6 bits)
 R = gen register (3 bits), 0 to 7
 XXX = offset (8 bits), +127 to -128
 N = number (3 bits)
 NN = number (6 bits)

Boolean

^ = AND
 v = inclusive OR
 ~ = exclusive OR
 ~ = NOT

NOTE:

▲ = Applies to the 11/35, 11/40, 11/45 & 11/70 computers
 ● = Applies to the 11/45 & 11/70 computers

Operations

() = contents of
 s = contents of source
 d = contents of destination
 r = contents of register
 ← = becomes
 X = relative address
 % = register definition

Condition Codes

* = conditionally set/cleared
 - = not affected
 0 = cleared
 1 = set

digital equipment corporation

MAYNARD, MASSACHUSETTS

July 1975

Macro11 Programming And Pdp11 Organization

Y Pai



Macro11 Programming And Pdp11 Organization:

MACRO-11 Programming and PDP-11 Organization Gerald W. Cichanowski, 1982 *Subject Catalog* Library of Congress, **PDP-11 Assembler Language Programming and Machine Organization** Michael Singer, 1980 This book is devoted to the PDP 11 computer manufactured by the Digital Equipment Corporation Computer programming is a practical art that is to be bolstered by theoretical wisdom but developed as a skill by continual practice The approach of this book is that the reader will be writing complete programs albeit rather trivial ones at the earliest possible stage There are no prerequisites no prior experience with or theoretical knowledge of computers The text can be used by beginning or advanced PDP 11 users Beginning with encoding a great variety of small individual tasks which are then utilized in building larger complete programs using these individual blocks or modules *Subject Catalog*, 1982 Library of Congress, 1982

Assembly Language Programming for PDP 11 and LSI 11 Computers Edouard J. Desautels, 1982 **MACRO 11 Programming**, C. C. Zammit, 1984 **Computer Organization** Michael Andrews, 1987 This textbook explores computer organization from both hardware and software related views All aspects of organization are examined with three main objectives in mind to impart and understanding of elementary computer structures to provide an introduction to a working knowledge of assembly language and to impart an elementary comprehension of different yet cohesive abstractions of computational systems Each chapter builds upon previous chapters in its discussion of topics such as architecture circuit components program structure and more This text is suitable for students or professionals who have been introduced to computers and procedural programming but are learning computer organization for the first time **American Book Publishing Record**, 1985 **National Union Catalog**, 1982 **Assembler Language Programming for the PDP-11** Harvey L. Shapiro, 1984 **Computer Organization and Assembly Language Programming for the PDP-11 and VAX-11** Wen C. Lin, 1985 **MACRO-11 Assembly Language** C. Jinshong Hwang, Darryl E. Gibson, 1986 This text has a three fold purpose 1 to teach assembly language in general and MACRO 11 in particular 2 to teach the computer architecture of the PDP 11 the LSI 11 and the Professional 300 series of computers and 3 to demonstrate how the concepts of structured programming can be applied to assembly language The examples used to illustrate the various concepts are complete in the sense that they proceed from the verbalized problem through the logic design and coding stages to the final output The student sees the entire developmental process through which the programmer proceeds to produce the final program **Soil Mechanics Laboratory Manual** Braja M. Das, 1982 Now in its sixth edition Soil Mechanics Laboratory Manual is designed for the junior level soil mechanics geotechnical engineering laboratory course in civil engineering programs It includes eighteen laboratory procedures that cover the essential properties of soils and their behavior under stress and strain as well as explanations procedures sample calculations and completed and blank data sheets Written by Braja M Das respected author of market leading texts in geotechnical and foundation engineering this unique manual

provides a detailed discussion of standard soil classification systems used by engineers the AASHTO Classification System and the Unified Soil Classification System which both conform to recent ASTM specifications To improve ease and accessibility of use this new edition includes not only the stand alone version of the Soil Mechanics Laboratory Test software but also ready made Microsoft ExcelRG templates designed to perform the same calculations With the convenience of point and click data entry these interactive programs can be used to collect organize and evaluate data for each of the book s eighteen labs The resulting tables can be printed with their corresponding graphs creating easily generated reports that display and analyze data obtained from the manual s laboratory tests FeaturesBL Includes sample calculations and graphs relevant to each laboratory testBL Supplies blank tables that accompany each test for laboratory use and report preparationBL Contains a complete chapter on soil classification Chapter 9 BL Provides references and three useful appendices Appendix A Weight Volume RelationshipsAppendix B Data Sheets for Laboratory ExperimentsAppendix C Data Sheets for Preparation of Laboratory Reports

An Introduction to Computer Programming and Data Structures Using MACRO-11 Harry R. Lewis,1981 Mechanical Engineering License Exam File Richard K. Pefley,1986

Computer Organization and Programming Charles William Gear,1974 **The Principles of Computer Organization** G. Michael Schneider,1985 This text offers both the theoretical machine independent concepts underlying the construction of all computers and a specific introduction to the assembly language and architecture of the widely used PDP 11 It discusses the major functional components of a computer memory ALU Input Output and processor and how they are integrated into a complete computer system The book describes and builds an idealized model of a computer and shows how the theoretical concepts are put into practice in the construction of the PDP It integrates hardware concepts with software principles introducing the student to internal systems programs used to run the computer PDP-11, Structured Assembly Language Programming Robert W. Sebesta,1985 *Machine and Assembly Language Programming of the PDP-11* Arthur Gill,1983 The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services ,1984

Macro11 Programming And Pdp11 Organization Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Macro11 Programming And Pdp11 Organization**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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