#### Chapter 1: CICS TS Command Level Programming

CICS: Purpose and Facilities	1
CICS Terms	1
Software Functions Required for On-line Processing	2
Typical On-line Systems	3
Characteristics Unique to On-line Systems	4
What is CICS	5
Batch versus On-line	
Application Programming - Batch	6
Application Programming - On-line	7
System Management Functions	8
Basic Definitions	
Task Management	
Program Control Table	
Storage Management	12
Program Management	
Processing Program Table	
Terminal Management	
TCT: Terminal Control Table	
File Management	
File Control Table	
Basic Mapping Support	
Temporary Storage Management	
Transient Data Management	
Destination Control Table	
Additional Functions	
EJB: Enterprise Java Beans	
Web Access	
Gateway	
Java and CICS	
Compilers - Enhancement	
3270 Bridge Mechanism	
CICS TCP/IP Support	
DB2 Enhancements	
DB2 Group Attach	31

# Chapter 2: Task Definition in CICS PCT and PDT Tasks and Programs

OT did IT I - Tasks and I Tograms	
Task Initiation in CICS	3
Re-entrant Code	4
CICS Management Services	

SYS-ED / COMPUTER EDUCATION TECHNIQUES, INC. (CICS CMD LVL PRG - 11.7)

TOC: Page 1

### CICS Transaction Server Command Level Prg

Table of Contents

DMO O I I	00
BMS Copybook	
Symbolic Maps - Copying into Programs	27
RECEIVE MAP Command	28-29
SEND MAP Command	30
Source of Data	31-32
SEND MAP - Simple	
IDENTIFICATION Division	34
Page Building	35
Disposition	36
Control Options	
SEND PAGE Command	38-39
PURGE MESSAGE Command	
BMS Exceptional Conditions	4 <sup>2</sup>
Standard Attribute / Printer Control Character List - DFHBMSCA	42
HANDLE AID Command	43
Alternative to HANDLE AID	44
Copy Book DFAID	
Copy Book Name:CICSATTR	

## Chapter 6: Program Control

•	
Passing Control Among Programs within a Task	
LINK and XCTL Commands	2
LINK Example	
LINK Example 2	4
XCTL - Menu Program	5-6
RETURN Command	7
Passing Data Between Programs and Between Tasks	8
COMMAREA Option	
Passing Program	
Receiving Program	10
Guidelines for External Areas	1
Recommended Techniques for Passing Data	11
Passing Data in CICS Areas	12
CWA: Čommon Work Area	
TCTUA: Terminal Control Table User Area	12
TWA: Transaction Work Area	13
ADDRESS Command	14
ASSIGN Command	15
Conversational versus Pseudo-conversational Design	16
Pseudo - Conversational Program	17-19
LOAD Command	
RELEASE Command	2′
Abnormal Task Termination	
ABEND Command	23
HANDLE ABEND Command	24

#### Chapter 3: Command Level Programming

ormat of Commands	1-2
rgument Values	3
COBOL Considerations	
Preparation of Command Level Programs for Execution	
ntegrated CICS Translators	
RECEIVE Command Line	
Referencing Areas Outside the Program	
IB: EXECUTE INTERFACE BLOCK	
rogram Structure	
Choosing Between Pseudo-conversational and Conversational Design	
Reducing Paging Effects	
Ainimizing the Size of the Working Set	
ill illinizing the Size of the Working Set.	14

#### Chapter 4: Handling Exceptional Conditions

TANDLE CONDITIONS Command
IGNORE CONDITION Command
NOHANDLE Option
Alternative to HANDLE CONDITION - Preferred Method
Structured Handling
Functions Codes
Response Codes
AREND Processing

#### Chapter 5: Basic Mapping Support

Purpose and Function	
3270 Attributes	2
SEND Command	3
SEND Command - Basic	4
RECEIVE Command	5
RECEIVE/SEND Program - Simple	6
BMS Overview	
Components of Basic Mapping Support	
Creating Maps and Mapsets	
Mapset Creation	9
TYPE=&SYSPARM	10
Physical Maps	11
Symbolic Maps	12
Basic Mapping	13
Map Definition	
Data Formats	
Field Data Format	15
Block Data Format	
Text Data Format.	
DFHMSD Macro	16-19
DFHMDI Macro	
DFHMDF Macro	
BMS Macros - Sample Map	
Sine made of Campio map	20

SYS-ED / COMPUTER EDUCATION TECHNIQUES, INC. (CICS TS Cmd Level - 11.7)

TOC: Page 2

## CICS Transaction Server Command Level Prg

Table of Contents

## Chapter 7 File Control

File Control Overview	
Record Identification	
Read Command	
UPDATE Option	(
REWRITE Command	
DELETE Command	
UNLOCK Command	
WRITE Command	
STARTBR Command	
READNEXT and READPREV Commands	
RESETBR Command	
VSAM Skip-sequential Processing	15
ENDBR Command	16
File Control Exceptional Conditions	
VSAM BROWSE Program	19

## Chapter 8: Temporary Storage

Temporary Storage Overview	1
WRITEQ TS Command	
READQ TS Command	
DELETEQ TS Command	
Temporary Storage Exceptional Conditions	
Temporary Storage Program	6

#### Chapter 9: Transient Data

Fransient Data Overview	1
Extrapartition Transient Data	2
ntrapartition Transient Data	
WRITEQ TD Command	
READQ TD Command	
DELETEQ TD Command	
Fransient Data Exceptional Conditions	

## Chapter 10: Debugging

TRACE Function
Trace Entry Formats
ENTER Command
TRACE Command
DUMP Function
DIMP Command