

Table of Contents

About This Book	v
Chapter 1. System Processors	1-1
Description	1-5
Central Electronics Complex	1-5
Document Conventions	1-10
Systems Overview	1-11
Instruction Formats	1-12
Memory Addressing	1-19
Branch Processor	1-21
Fixed-Point Processor Registers	1-25
Floating-Point Processor Overview	1-27
Floating-Point Data Representation	1-33
Floating-Point Exceptions	1-39
Floating-Point Resource Management	1-45
Floating-Point Execution Models	1-45
Interrupts	1-48
Storage Control	1-69
Timer Facilities	1-82
Floating-Point Round to Single Model	1-87
Floating-Point Integer Convert Model	1-92
I/O Space Rules	1-94
Serializing Semantics of Various Instructions	1-95
Chapter 2. System I/O Structure	2-1
Description	2-3
Bit and Byte Numbering Conventions	2-7
I/O Bus Protocols	2-13
Programming Model	2-21
Special Facilities	2-72
System I/O and Standard I/O	2-84
Exception Reporting and Handling	2-85
Implementation Details	2-86
Chapter 3. Vital Product Data	3-1
Description	3-3
Keyword Descriptor Summary	3-5
Hardware VPD Descriptor Summary	3-13
Micro Channel Adapter Requirements	3-16
Sample Layout of the Micro Channel Adapter VPD	3-20

