

ISO/IEC 23360-3:2006-12 (E)

Linux Standard Base (LSB) core specification 3.1 - Part 3: Specification for IA64 architecture

Contents		Page
I	Introductory Elements	0
1	Scope	1
1.1	General	1
1.2	Module Specific Scope	1
2	References	2
2.1	Normative References	2
2.2	Informative References/Bibliography	4
3	Requirements	7
3.1	Relevant Libraries	7
3.2	LSB Implementation Conformance	7
3.3	LSB Application Conformance	8
4	Definitions	10
5	Terminology	11
6	Documentation Conventions	13
II	Executable and Linking Format (ELF)	14
7	Introduction	15
8	Low Level System Information	16
8.1	Machine Interface	16
8.2	Function Calling Sequence	20
8.3	Operating System Interface	21
8.4	Process Initialization	22
8.5	Coding Examples	24
8.6	C Stack Frame	25
8.7	Debug Information	25
9	Object Format	26
9.1	Introduction	26
9.2	ELF Header	26
9.3	Sections	27
9.4	Symbol Table	29
9.5	Relocation	29
10	Program Loading and Dynamic Linking	30
10.1	Introduction	30
10.2	Program Header	30
10.3	Program Loading	30
10.4	Dynamic Linking	30
III	Base Libraries	32
11	Libraries	33
11.1	Program Interpreter/Dynamic Linker	33

11.2	Interfaces for libc	33
11.3	Data Definitions for libc	47
11.4	Interfaces for libm	59
11.5	Data Definitions for libm	63
11.6	Interface Definitions for libm	64
11.7	Interfaces for libpthread	65
11.8	Data Definitions for libpthread	67
11.9	Interfaces for libgcc_s	68
11.10	Data Definitions for libgcc_s	69
11.11	Interface Definitions for libgcc_s	70
11.12	Interfaces for libdl	74
11.13	Data Definitions for libdl	75
11.14	Interfaces for libcrypt	75
Foreword		vii
Introduction		viii
IV Utility Libraries		77
12	Libraries	78
12.1	Interfaces for libz	78
12.2	Data Definitions for libz	78
12.3	Interfaces for libncurses	78
12.4	Data Definitions for libncurses	79
12.5	Interfaces for libutil	79
V	Package Format and Installation	81
13	Software Installation	82
13.1	Package Dependencies	82
13.2	Package Architecture Considerations	82
A	Alphabetical Listing of Interfaces	83
A.1	libgcc_s	83
A.2	libm	83
List of Figures 8-1 Structure Smaller Than A Word		18
8-2	No Padding	18
8-3	Internal and Tail Padding	19
8-4	Bit-Field Ranges	19