

Contents

Foreword	iii
Introduction	vi
I Introductory Elements	1
1 Scope.....	2
2 References.....	3
2.1 Normative References	3
2.2 Informative References/Bibliography.....	5
3 Requirements	8
3.1 Relevant Libraries	8
3.2 LSB Implementation Conformance.....	8
3.3 LSB Application Conformance	9
4 Terms and Definitions.....	11
5 Documentation Conventions	13
II Executable and Linking Format (ELF)	14
6 Introduction	15
7 Low Level System Information	16
7.1 Machine Interface	16
7.2 Function Calling Sequence	20
7.3 Operating System Interface.....	21
7.4 Process Initialization	22
7.5 Coding Examples.....	24
7.6 C Stack Frame.....	25
7.7 Debug Information.....	26
8 Object Format.....	27
8.1 Introduction	27
8.2 ELF Header	27
8.3 Sections.....	28
8.4 Symbol Table	30
8.5 Relocation	30
9 Program Loading and Dynamic Linking	31
9.1 Introduction	31
9.2 Program Header.....	31
9.3 Program Loading	31
9.4 Dynamic Linking.....	31
III Base Libraries	33
10 Libraries	34
10.1 Program Interpreter/Dynamic Linker	34
10.2 Interfaces for libc	34
10.3 Data Definitions for libc	54
10.4 Interface Definitions for libc	72
10.5 Interfaces for libm	74
10.6 Data Definitions for libm	79
10.7 Interface Definitions for libm	80
10.8 Interfaces for libpthread.....	81
10.9 Data Definitions for libpthread.....	86
10.10 Interfaces for libgcc_s.....	88
10.11 Data Definitions for libgcc_s.....	88
10.12 Interface Definitions for libgcc_s.....	89
10.13 Interfaces for libdl	89
10.14 Data Definitions for libdl.....	90
10.15 Interfaces for libcrypt	90
10.16 Data Definitions for libcrypt.....	91
IV Utility Libraries	92
11 Libraries	93

11.1 Interfaces for libz	93
11.2 Data Definitions for libz	93
11.3 Interfaces for libncurses	94
11.4 Data Definitions for libncurses	94
11.5 Interfaces for libncursesw	94
11.6 Data Definitions for libncursesw	95
11.7 Interfaces for libutil	95
V Base Libraries.....	97
12 Libraries	98
12.1 Interfaces for libstdcxx.....	98
12.2 Interface Definitions for libstdcxx.....	209
VI Package Format and Installation	210
13 Software Installation.....	211
13.1 Package Dependencies	211
13.2 Package Architecture Considerations.....	211
Annex A Alphabetical Listing of Interfaces by Library	212
A.1 libc	212
A.2 libcrypt	227
A.3 libdl	227
A.4 libgcc_s.....	228
A.5 libm	228
A.6 libpthread.....	233
A.7 librt.....	236
A.8 libutil	237