

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