

### Contents

<b>Foreword</b> .....	<b>iii</b>
<b>Introduction</b> .....	<b>vi</b>
<b>I Introductory Elements</b> .....	<b>1</b>
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
<b>II Executable and Linking Format (ELF)</b> .....	<b>14</b>
6 Introduction .....	15
7 Low Level System Information .....	16
7.1 Machine Interface .....	16
7.2 Function Calling Sequence .....	17
7.3 Operating System Interface .....	18
7.4 Process Initialization .....	18
7.5 Coding Examples .....	19
7.6 C Stack Frame .....	19
7.7 Debug Information .....	19
8 Object Format .....	20
8.1 Introduction .....	20
8.2 ELF Header .....	20
8.3 Sections .....	20
8.4 Symbol Table .....	21
8.5 Relocation .....	21
9 Program Loading and Dynamic Linking .....	22
9.1 Introduction .....	22
9.2 Program Header .....	22
9.3 Program Loading .....	22
9.4 Dynamic Linking .....	22
<b>III Base Libraries</b> .....	<b>24</b>
10 Libraries .....	25
10.1 Program Interpreter/Dynamic Linker .....	25
10.2 Interfaces for libc .....	25
10.3 Data Definitions for libc .....	45
10.4 Interface Definitions for libc .....	65
10.5 Interfaces for libm .....	66
10.6 Data Definitions for libm .....	71
10.7 Interface Definitions for libm .....	72
10.8 Interfaces for libpthread .....	73
10.9 Data Definitions for libpthread .....	79
10.10 Interfaces for libgcc_s .....	80
10.11 Data Definitions for libgcc_s .....	81
10.12 Interface Definitions for libgcc_s .....	81

10.13 Interfaces for libdl .....	82
10.14 Data Definitions for libdl.....	83
10.15 Interfaces for libcrypt .....	83
10.16 Data Definitions for libcrypt.....	84
<b>IV Utility Libraries .....</b>	<b>85</b>
11 Libraries .....	86
11.1 Interfaces for libz .....	86
11.2 Data Definitions for libz .....	86
11.3 Interfaces for libncurses .....	87
11.4 Data Definitions for libncurses .....	87
11.5 Interfaces for libncursesw .....	87
11.6 Data Definitions for libncursesw .....	88
11.7 Interfaces for libutil .....	88
<b>V Base Libraries.....</b>	<b>90</b>
12 Libraries .....	91
12.1 Interfaces for libstdcxx.....	91
12.2 Interface Definitions for libstdcxx .....	202
<b>VI Package Format and Installation .....</b>	<b>203</b>
13 Software Installation.....	204
13.1 Package Dependencies .....	204
13.2 Package Architecture Considerations .....	204
<b>Annex A Alphabetical Listing of Interfaces by Library .....</b>	<b>205</b>
A.1 libc .....	205
A.2 libcrypt .....	220
A.3 libdl .....	220
A.4 libgcc_s.....	221
A.5 libm .....	221
A.6 libpthread.....	226
A.7 librt.....	229
A.8 libutil .....	230