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# Linux Standard Base (LSB) —

## Part 1-6: Graphics and Gtk3 specification

*Noyau de base normalisé Linux (LSB) —*

*Partie 1-6: Spécification graphique et Gtk3*

Reference number
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# Foreword

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This document was prepared by the Linux Foundation as Linux Standard Base (LSB): Graphics and gtk3 specification and drafted in accordance with its editorial rules. It was assigned to Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 22, *Programming languages, their environments and system software interfaces*, and adopted by National Bodies.

This first edition of ISO/IEC TS 23360-1-6 cancels and replaces ISO/IEC 23360-1:2006, which has been technically revised.

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# Introduction

The Trial Use Specification describes components which may or may not be present on an otherwise conforming system. The purpose is to indicate that these components are on a Standards Track, that is, they are intended to become part of the LSB Specification in a future edition.

This document should be used in conjunction with the documents it references. Information referenced in this way is as much a part of this document as is the information explicitly included here.

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# I Introductory Elements

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# 1 Scope

The Trial Use Specification defines components which are not required parts of the LSB Specification.

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# 2 Normative References

The specifications listed below are referenced in whole or in part by the Trial Use Specification. Such references may be normative or informative; a reference to specification shall only be considered normative if it is explicitly cited as such. The Trial Use Specification may make normative references to a portion of these specifications (that is, to define a specific function or group of functions); in such cases, only the explicitly referenced portion of the specification is to be considered normative.

**Table 2-1 Informative References**

| Name | Title | URL |
|---|---|---|
| Gdk 3.6.4 Reference Manual | Gdk 3.6.4 Reference Manual | http://developer.gnome.org/gdk3/3.6 |
| Gtk 3.6.4 Reference Manual | Gtk 3.6.4 Reference Manual | http://developer.gnome.org/gtk3/3.6 |
| ISO C (1999) | ISO/IEC 9899:1999 - Programming Languages -- C | |

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# 3 Requirements

## 3.1 TUM Libraries

The libraries listed in Table 3-1 shall be available on a Linux Standard Base system which implements the Trial Use TUM module, with the specified runtime names. This list may be supplemented or amended by the architecture-specific specification.

**Table 3-1 Standard Library Names**

| Library | Runtime Name |
|---|---|
| libpng15 | libpng15.so.15 |

These libraries will be in an implementation-defined directory which the dynamic linker shall search by default.

## 3.2 Gtk3 Libraries

The libraries listed in Table 3-2 shall be available on a Linux Standard Base system which implements the Trial Use Toolkit_Gtk3 module, with the specified runtime names. This list may be supplemented or amended by the architecture-specific specification.

**Table 3-2 Standard Library Names**

| Library | Runtime Name |
|---|---|
| libgdk-3 | libgdk-3.so.0 |
| libgtk-3 | libgtk-3.so.0 |

These libraries will be in an implementation-defined directory which the dynamic linker shall search by default.

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# 4 Terms and Definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 2382, ISO 80000–2, and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

**4.1**

**archLSB**

Some LSB specification documents have both a generic, architecture-neutral part and an architecture-specific part. The latter describes elements whose definitions may be unique to a particular processor architecture. The term archLSB may be used in the generic part to refer to the corresponding section of the architecture-specific part.

**4.2**

**Binary Standard, ABI**

The total set of interfaces that are available to be used in the compiled binary code of a conforming application, including the run-time details such as calling conventions, binary format, C++ name mangling, etc.

**4.3**

**Implementation-defined**

Describes a value or behavior that is not defined by this document but is selected by an implementor. The value or behavior may vary among implementations that conform to this document. An application should not rely on the existence of the value or behavior. An application that relies on such a value or behavior cannot be assured to be portable across conforming implementations. The implementor shall document such a value or behavior so that it can be used correctly by an application.

**4.4**

**Shell Script**

A file that is read by an interpreter (e.g., awk). The first line of the shell script includes a reference to its interpreter binary.

**4.5**

**Source Standard, API**

The total set of interfaces that are available to be used in the source code of a conforming application. Due to translations, the Binary Standard and the Source Standard may contain some different interfaces.

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**4.6**

**Undefined**

Describes the nature of a value or behavior not defined by this document which results from use of an invalid program construct or invalid data input. The value or behavior may vary among implementations that conform to this document. An application should not rely on the existence or validity of the value or behavior. An application that relies on any particular value or behavior cannot be assured to be portable across conforming implementations.

**4.7**

**Unspecified**

Describes the nature of a value or behavior not specified by this document which results from use of a valid program construct or valid data input. The value or behavior may vary among implementations that conform to this document. An application should not rely on the existence or validity of the value or behavior. An application that relies on any particular value or behavior cannot be assured to be portable across conforming implementations.

In addition, for the portions of this specification which build on IEEE Std 1003.1-2001, the definitions given in *IEEE Std 1003.1-2001, Base Definitions, Chapter 3* apply.

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