

Product Standard

Operating System and Languages: Commands and Utilities V4

The Open Group

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Product Standard

Operating System and Languages: Commands and Utilities V4

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Product Standard

NAME

Commands and Utilities V4

LABEL FOR LOGO

No label.

DESCRIPTION

This Product Standard provides a command interface to a range of system utilities. It includes conformance to the Shell and Utilities volume of IEEE Std 1003.1-2001 and ISO/IEC 9945-3: 2002.¹

It is an enhanced version of the Commands and Utilities V3 Product Standard.

The principal enhancements are:

- The *c99* utility has been added to support ISO/IEC 9899: 1999 (C Language)² included in the Internationalized System Calls and Libraries Extended V3 Product Standard. This utility replaces the *c89* utility which has been withdrawn.
- The *iconv* utility is added from the P1003.2b³ draft standard.
- Many utilities have additional behavior for handling of symbolic links. This feature is incorporated from the P1003.2b draft standard.
- A set of Batch utilities has been incorporated from IEEE Std 1003.2d-1994.⁴
- Deficiencies have been corrected as a result of incorporation of IEEE PASC Interpretations and The Open Group Corrigenda and Resolutions.

1. IEEE Std 1003.1-2001, IEEE Standard for Information Technology — Portable Operating System Interface (POSIX), identical to ISO/IEC 9945: 2002.

2. ISO/IEC 9899: 1999, Programming Languages — C.

3. P1003.2b, Standard for Information Technology — Portable Operating System Interface (POSIX) — Part 2: Shell and Utilities — Amendment.

4. IEEE Std 1003.2d-1994, IEEE Standard for Information Technology — Portable Operating System Interface (POSIX) — Part 2: Shell and Utilities — Amendment 1: Batch Environment.

CONFORMANCE REQUIREMENTS

Human-Computer Interface

Shell and Utilities, Issue 6⁵ and Base Definitions, Issue 6,⁶ Section 6.1, Portable Character Set, Table 6-1, Portable Character Set.

Portability Interface

Shell and Utilities, Issue 6 and Base Definitions, Issue 6.

Programming Language Environment

Command Language as defined in Shell and Utilities, Issue 6 and Base Definitions, Issue 6.

Interoperability

- Data Interchange Formats
Shell and Utilities, Issue 6, *cpio* and extended *tar* archive file formats, *pax* utility.
- Communications Interfaces and Protocols
None.

OPERATIONAL ENVIRONMENT

Not applicable.

PORTABILITY ENVIRONMENT

Internationalized System Calls and Libraries Extended V3.

OVERRIDING STANDARDS

The Base Specifications, Issue 6 are technically identical to IEEE Std 1003.1-2001 and ISO/IEC 9945:2002 (they are the same documents) and are maintained by the Austin Group, a joint working group of the IEEE, The Open Group, and ISO/IEC SC22 WG15. Deference is thus not applicable.⁷

5. Technical Standard, December 2002, Shell and Utilities, Issue 6 (ISBN: 1-931624-20-8, C956), published by The Open Group.

6. Technical Standard, December 2002, Base Definitions, Issue 6 (ISBN: 1-931624-18-6, C954), published by The Open Group.

7. The referenced Technical Standards were developed by the Austin Group, and are technically identical to IEEE Std 1003.1-2001 and ISO/IEC 9945:2002. IEEE Std 1003.1-2001 supersedes both IEEE Std 1003.1-1990 and its amendments and IEEE Std 1003.2-1992 and its amendments.

The organization of IEEE Std 1003.1-2001 and ISO/IEC 9945:2002 is as a series of volumes and parts, respectively. The correspondence of the volumes and parts to The Open Group Technical Standards is shown below:

The Open Group Technical Standard	IEEE Std 1003.1-2001	ISO/IEC 9945:2002
Base Definitions, Issue 6	Base Definitions Volume of IEEE Std 1003.1-2001	ISO/IEC 9945-1:2002
System Interfaces, Issue 6	System Interfaces Volume of IEEE Std 1003.1-2001	ISO/IEC 9945-2:2002
Shell and Utilities, Issue 6	Shell and Utilities Volume of IEEE Std 1003.1-2001	ISO/IEC 9945-3:2002
Rationale, Issue 6	Rationale Volume of IEEE Std 1003.1-2001	ISO/IEC 9945-4:2002

INDICATORS OF COMPLIANCE

A Test Report from a currently authorized release of the VSC5 Test Suite.

MIGRATION

Obsolescent features from Commands and Utilities, Issue 5⁸ are not carried forward in this Product Standard. The *c99* utility replaces the *c89* utility, which has been withdrawn. Otherwise, there are no major incompatibility issues in migrating from a system registered as conformant to the Commands and Utilities V3 Product Standard.

Detailed migration information can be found in The Authorized Guide to Version 3 of the Single UNIX Specification.⁹

8. Technical Standard, February 1997, Commands and Utilities (XCU), Issue 5 (ISBN: 1-85912-191-8, C604), published by The Open Group.

9. The Single UNIX Specification, Authorized Guide to Version 3, March 2002 (ISBN: 1-85912-277-9, G906), published by The Open Group.

