Product Standard

Operating System and Languages:
Internationalized System Calls and Libraries

The Open Group
Product Standard

Operating System and Languages: Internationalized System Calls and Libraries

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**Product Standard**

**NAME**
Internationalized System Calls and Libraries

**LABEL FOR LOGO**
No label.

**DESCRIPTION**
This Product Standard defines operating system kernel and header files. It includes conformance to ISO/IEC 9945-1:1990 (POSIX-1)\(^1\) and NIST FIPS 151-2.\(^2\) This is the original Internationalized System Calls and Libraries Product Standard, which was an update of the XPG3 System Calls and Libraries Product Standard to align with ISO/IEC 9945-1:1990 (POSIX-1). It includes as mandatory the Inter-process Communication element that was optional in XPG3, and introduces widechar internationalization. The selection of options from ISO/IEC 9945-1:1990 (POSIX-1) matches the NIST FIPS 151-2.

**CONFORMANCE REQUIREMENTS**

**Human-Computer Interface**
System Interface Definitions, Issue 4, Version 2,\(^3\) Glyphs contained in Table 4-1, Portable Character Set.

**Note:** As far as this Product Standard is concerned the above specification is technically identical to System Interface Definitions, Issue 4,\(^4\) which it supersedes.

**Portability Interface**
System Interfaces and Headers, Issue 4, Version 2,\(^5\) with optional implementation of all Feature Groups.

Note that the specification calls for mandatory support for certain of its Feature Groups (for example, POSIX-2 C-language binding) when it is associated with a commands and utilities

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implementation conformant to Commands and Utilities, Issue 4 or later (refer to
_XOPEN_XCU_VERSION contained in Chapter 4, Headers, <unistd.h>).


Note: As far as this Product Standard is concerned the above documents are technically identical to System Interfaces and Headers, Issue 4 and System Interface Definitions, Issue 4.

Programming Language Environment

C Language. Dialect ISO C. ISO C source programs invoking the services of this Product Standard must be supported by the registered product.

Interoperability

• Data Interchange Formats
  None.

• Communications Interfaces and Protocols
  None.

OPERATIONAL ENVIRONMENT

Not applicable.

PORTABILITY ENVIRONMENT

Not applicable.

OVERRIDING STANDARDS

ISO/IEC 9945-1: 1990 (POSIX-1).


INDICATORS OF COMPLIANCE

A Test Report from a currently authorized release of the VSX4 Test Suite.

MIGRATION

Issues concerning migration from XPG3 are described in the X/Open XPG3-XPG4 Base Migration Guide. All system interfaces in the XPG3 Product Standard are present in this Product Standard, but there are some minor differences in behavior.