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2.13.2 Symbolic Constants for Portability Specifications

⇒ **2.13.2 Symbolic Constants for Portability Specifications.** *Modify the contents of subclause 2.13.2 to add the following limits in the correct sorted order.*

Name	Description
{POSIX2_CHAR_TERM}	The system supports at least one terminal type capable of all operations described in this standard. See 2.14. This value need not be present on a system not supporting the User Portability Utilities Option.
{POSIX2_UPE}	The system supports the User Portability Utilities Option in Section 5.

⇒ **B.2.3 Compile-Time Symbolic Constants for Portability Specifications.** *Modify the contents of subclause B.2.3 to add the following limits in the correct sorted order.*

Name	Description
_POSIX2_CHAR_TERM	The system supports at least one terminal type capable of all operations described in this standard. See 2.14. This value need not be present on a system not supporting the User Portability Utilities Option.
_POSIX2_UPE	The system supports the User Portability Utilities Option in Section 5.

Symbolic Constants Rationale. *(This subclause is not a part of P1003.2a)*

See the rationale for {POSIX2_CHAR_TERM} in 2.14.

In an earlier draft, two limits, {POSIX2_MAX_NICE} and {POSIX2_MIN_NICE}, were included to bound the range of acceptable ''nice values.'' These limits were removed because `nice` and `renice` were reworded to gracefully accept values outside the range without returning an error.

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2.14 Terminal Characteristics

⇒ **2.14 Terminal Characteristics.** *Add a new clause 2.14:*

This clause applies only to systems supporting the User Portability Utilities Option.

The standard utilities historically have been implemented on a wide range of terminal types, but a conforming implementation need not support all features of all utilities on every conceivable terminal. This standard states which features are optional for certain classes of terminals in the individual utility description clauses. The implementation shall document which terminal types it supports and which of these features and utilities are not supported by each terminal. This implementation-defined list of terminals:

— Shall include at least one terminal type that is capable of supporting all of the standard utilities and all of their features, if the {POSIX 2_CHAR _TERM } option is provided.

— May group terminals in terms of families or equivalences to other documented terminal types.

— Need not consist of an exhaustive list of terminal models when the implementor considers that some terminal types are used too infrequently to be listed.

When a feature or utility is not supported on a specific terminal type, as allowed by this standard, and the implementation considers such a condition to be an error preventing use of the feature or utility, the implementation shall indicate such conditions through diagnostic messages or exit status values or both (as appropriate to the specific utility description) that inform the user that the terminal type lacks the appropriate capability.

This standard uses a notational convention based on historical practice that identifies some of the control characters defined in 2.4 in a manner easily remembered by users on many terminals. The correspondence between this '`control-`*char*'' notation and the actual control characters is shown in Table 2-101. When this standard refers to a character by its `control-` name, it is referring to the actual control character shown in the Value column of the table, which is not necessarily the exact control key sequence on all terminals. Some terminals have keyboards that do not allow the direct transmission of all the nonalphanumeric characters shown. In such cases, the system documentation shall describe which data sequences transmitted by the terminal shall be interpreted by the system as representing the special characters.

NOTE: The notation uses uppercase letters for arbitrary editorial reasons. There is no implication that the keystrokes represent control-shift-letter sequences.

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