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B.2.3 Execution-Time Symbolic Constants for Portability Specifications

The macros in Table B-5 can be used by the application at execution time to determine which optional facilities are present. If a macro is defined to have the value −1 in the header <unistd.h>, the implementation shall never provide that feature when the application runs under that implementation. If a macro is defined to have a value other than −1, the implementation shall always provide that feature. If the macro is undefined, then the *sysconf* () function (see B.10.2) can be used to determine if the feature is provided for a particular invocation of the application.

Table B-5 − C Execution-Time Symbolic Constants

Macro Name	Description
_POSIX 2_C_DEV	The system supports the C Language Development Utilities Option (see Annex A)
_POSIX 2_FORT _DEV	The system supports the FORTRAN Development Utilities Option (see Annex C)
_POSIX 2_FORT _RUN	The system supports the FORTRAN Runtime Utilities Option (see Annex C)
_POSIX 2_LOCALEDEF	The system supports the creation of locales as described in 4.35.
_POSIX 2_SW_DEV	The system supports the Software Development Utilities Option (see Section 6)

B.2.4 POSIX. 1 C Numerical Limits

The macros specified in POSIX .1 {8} to provide compile-time values for the configurable variables in Table 7-1 (see 7.8.2) shall also be visible in a POSIX. 2 system. Other macros required by POSIX .1 {8} 2.9 (Numerical Limits) and 2.10 (Symbolic Constants) may also be visible in a POSIX. 2 system.

B.2.4.1 POSIX. 1 C Numerical Limits Rationale. *(This subclause is not a part of P1003.2)*

Subclause 7.8.2 requires that certain POSIX .1 {8} configurable variables be visible in POSIX. 2. Subclause B.2.4 ensures that POSIX. 2 C applications can obtain these variables using the same macros as POSIX .1 {8} C applications. It also allows an implementation to make all of the POSIX .1 {8} macros available even if _POSIX _SOURCE is not set. It also allows an implementation to make all of the POSIX .1 {8} symbols available even if it does not support all of POSIX .1 {8}.

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