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B.1.1.1 POSIX Symbols Rationale. *(This subclause is not a part of P1003.2)*

When the application defines the _POSIX_C_SOURCE feature test macro with value 2, it must be aware that all of the name space from POSIX.1 {8} and POSIX.2 has been reserved. This does not imply that a POSIX.2 implementation must support POSIX.1 {8}, just that the application must not conflict with an implementation that does. The application can check _POSIX_VERSION and _POSIX2_C_VERSION at compile time to see which standards are supported, if that is necessary. This is primarily an issue for the headers `<stdio.h>`, `<limits.h>`, `<locale.h>`, and `<unistd.h>`, since other POSIX.1 {8} names appear in other headers not mentioned in POSIX.2.

It is expected that C bindings to future POSIX standards and revisions will define new values for _POSIX_C_SOURCE, with each new value reserving the name space for that new standard or revision, plus all earlier POSIX standards. Using a single feature test macro for all standards rather than a separate macro for each standard furthers the goal of eventually combining all of the C bindings into one standard, which will be included in an international standard that refers to a language-independent ISO/IEC 9945-1 {8}.

B.1.2 Headers and Function Prototypes

Implementations shall declare function prototypes for all functions. Each function prototype shall appear in the header included in the synopsis of the function.

B.1.3 Error Numbers

Some of the functions in this annex use the variable *errno* to report errors. Such usage is documented in Errors in each specification. The usage of *errno* and the meanings of the symbolic names shall be as defined in POSIX.1 {8} B.1.3.

B.1.4 C Language Definitions Rationale. *(This subclause is not a part of P1003.2)*

This clause clarifies the interface to the C Standard {7}. The description was taken from POSIX.1, with one important modification. Since POSIX.1 {8} and the C Standard {7} were being developed and approved at about the same time, POSIX.1 {8} allowed ''Common Usage C'' implementations to give system vendors time to develop Standard C interfaces. Since Standard C compilers are now commonly available, POSIX.2 does not explicitly describe the binding to Common Usage C. However, such a binding would be straightforward, as long as the rules for Common Usage C in POSIX.1 are followed.

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