IEEE P1003.2 Draft 11.2 – September 1991

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7.2.1 Access Environment Variables Rationale. *(This subclause is not a part of P1003.2)*

This facility is required in POSIX. 2 so that applications can obtain values of exported shell variables.

7.3 Regular Expression Matching

Any language binding to Language-Independent System Services shall include a facility to interpret regular expressions as described in 2.8.

The language-independent specification for this facility has not been developed. The C binding is the *regcomp* (), *regexec* (), and *regfree* () functions described in B.5.

7.3.1 Regular Expression Matching Rationale. *(This subclause is not a part of P1003.2)*

This service is important enough that it should be required by any language binding to POSIX. 2.

Regular expression parsing and pattern matching are listed separately, since they are different services. A language binding could provide different functions to support regular expressions and patterns, or could combine them into a single function.

7.4 Pattern Matching

Any language binding to Language-Independent System Services shall include a facility to interpret patterns as described in 3.13.1 and 3.13.2. This facility shall allow the application to specify whether a slash character in the string to be matched will be treated as a regular character, or must be explicitly matched against a slash in the pattern.

The language-independent specification for this facility has not been developed. The C binding is the *fnmatch* () function described in B.6.

7.5 Command Option Parsing

Any language binding to Language-Independent System Services shall include a facility to parse the options and operands from the command line that invoked the application.

The language-independent specification for this facility has not been developed. The C binding for this facility is the *getopt* () function described in B.7.

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7.6 Generate Pathnames Matching a Pattern

Any language binding to Language-Independent System Services shall include a facility to generate pathnames matching a pattern as described in 3.13.

The language-independent specifications for this facility has not been developed. The C binding is the *glob* () and *globfree* () functions described in B.8.

7.7 Perform Word Expansions

Any language binding to Language-Independent System Services shall include a facility to do shell word expansions as described in 3.6.

The language-independent specification for this facility has not been developed. The C binding is the *wordexp* () and *wordfree* () functions described in B.9.

7.7.1 Perform Word Expansions Rationale. *(This subclause is not a part of P1003.2)*

See the rationale for this function in B.9.

7.8 Get POSIX Configurable Variables

7.8.1 Get String-Valued Configurable Variables

Any language binding to Language-Independent System Services shall include a facility to obtain string configurable variables.

The language-independent specification for this facility has not been developed. The C binding for this facility is the *confstr* () function described in B.10.1.

7.8.2 Get Numeric-Valued Configurable Variables

Any language binding to Language-Independent System Services shall include facilities to determine the current values of system and pathname limits or options (*variables*), as specified by POSIX .1 {8}. The configurable variables listed in Table 7-1, which are defined in POSIX .1 {8}, shall be available in any POSIX. 2 language-dependent binding, with minimum values as given in POSIX .1 {8}. Other POSIX .1 {8} configurable variables may be supported, but are not required by POSIX. 2. This facility shall also make available current values for all system limits defined in 2.13.

The language-independent specifications for these facilities have not been developed. The C bindings are the *sysconf* () function described in POSIX .1 {8}4.8, and the *pathconf* () and *fpathconf* () functions defined in POSIX .1 {8}5.7.

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