IEEE P1003.2 Draft 11.2 – September 1991

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E.4.70 `wait` — Await process completion

E.4.71 `wc` — Word, line, and byte count

E.4.72 `xargs` — Construct argument list(s) and invoke utility

E.5 User Portability Utilities Option

Editor's Note: This section is unused in this revision of the standard.

E.6 Software Development Utilities Option

Editor's Note: The text of the Rationale for this section has been temporarily located in Section 6, adjacent to the text it is explaining. The text will return to this annex after the completion of balloting.

This is the first of the optional utility environments. The working group decided there were two basic classes of systems to be supported: general application execution and software development. The first is widely used and is the primary reason for the development of this standard. The second, however, represents only a (small?) subset of the first; the users are generally only those who are developing or installing C or FORTRAN applications.

Therefore, all the development environments are optional, giving users the option of specifying a smaller, (presumably) less expensive system. There are three separate optional environments, so that C-only or FORTRAN -only users do not have to specify unneeded components. As further languages are supported by this standard, their environments will also be optional.

An implementation must provide all three of these utilities to claim conformance to this section.

See section **E.4** for a discussion of utilities excluded from this group.

E.6.1 `ar` — Create and maintain library archives

E.6.2 `make` — Maintain, update, and regenerate groups of programs

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E.6.3 `strip` — Remove unnecessary information from executable files

E.7 Language-Independent System Services

Editor's Note: The text of the Rationale for this section has been temporarily located in Section 7, adjacent to the text it is explaining. The text will return to this annex after the completion of balloting.

E.7.1 Shell Command Interface

E.7.2 Access Environment Variables

E.7.3 Regular Expression Matching

E.7.4 Pattern Matching

E.7.5 Command Option Parsing

E.7.6 Generate Pathnames Matching a Pattern

E.7.7 Perform Word Expansions

E.7.8 Get POSIX Configurable Variables

E.7.9 Locale Control

E.8 C Language Development Utilities Option

Editor's Note: The text of the Rationale for this section has been temporarily located in Annex A, adjacent to the text it is explaining. The text will return to this annex after the completion of balloting.

This is the second of the optional utility environments.

An implementation must provide all three of these utilities to claim conformance to this section.

See section **E.4** for a discussion of utilities excluded from this group.

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