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Section 6: Software Developm ent Utilities Option

This section describes utilities used for the development of applications, including compilation or translation of source code, the creation and maintenance of library archives, and the maintenance of groups of interdependent programs.

The utilities described in this section may be provided by the conforming system; however, any system claiming conformance to the **Software Development Utilities Option** shall provide all of the utilities described here.

6.1 `ar` — Create and maintain library archives

6.1.1 Synopsis

`ar –d [–v]` *archive file* ...

`ar –p [–v]` *archive* [*file* ...]

`ar –r [–cuv]` *archive file* ...

`ar –t [–v]` *archive* [*file* ...]

`ar –x [–v]` *archive* [*file* ...]

6.1.2 Description

The `ar` utility can be used to create and maintain groups of files combined into an archive. Once an archive has been created, new files can be added, and existing files can be extracted, deleted, or replaced. When an archive consists entirely of valid object files, the implementation shall format the archive so that it is usable as a library for link editing (see A.1 and C.2). When some of the archived files are not valid object files, the suitability of the archive for library use is undefined.

All *file* operands can be pathnames. However, files within archives shall be named by a filename, which is the last component of the pathname used when the file was entered into the archive. The comparison of *file* operands to the names of files in archives shall be performed by comparing the last component of the operand to the name of the archive file.

It is unspecified whether multiple files in the archive may be identically named. In the case of such files, however, each *file* operand shall match only the first

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