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The Open Group Base Specifications Issue 7, 2018 edition IEEE Std 1003.1-2017 (Revision of IEEE Std 1003.1-2008) Copyright © 2001-2018 IEEE and The Open Group

NAME

wordexp.h - word-expansion types

SYNOPSIS

#include <wordexp.h>

DESCRIPTION

The <wordexp.h> header shall define the structures and symbolic constants used by the wordexp() and wordfree() functions.

The <wordexp.h> header shall define the wordexp_t structure type, which shall include at least the following members:

```
size_t we_wordc Count of words matched by words.
char **we_wordv Pointer to list of expanded words.
size_t we_offs Slots to reserve at the beginning of we_wordv.
```

The <wordexp.h> header shall define the following symbolic constants for use as flags for the wordexp() function:

WRDE APPEND

Append words to those previously generated.

WRDE_DOOFFS

Number of null pointers to prepend to we_wordv.

WRDE_NOCMD

Fail if command substitution is requested.

WRDE_REUSE

The *pwordexp* argument was passed to a previous successful call to $\underline{wordexp()}$, and has not been passed to $\underline{wordfree()}$. The result is the same as if the application had called $\underline{wordfree()}$ and then called $\underline{wordexp()}$ without WRDE_REUSE.

WRDE_SHOWERR

Do not redirect stderr to /dev/null.

WRDE_UNDEF

Report error on an attempt to expand an undefined shell variable.

The <wordexp.h> header shall define the following symbolic constants as error return values:

WRDE_BADCHAR

One of the unquoted characters- <newline>, '|', '&', ';', '<', '>', '(', ')', '{', '}' - appears in words in an inappropriate context.

WRDE_BADVAL

Reference to undefined shell variable when WRDE_UNDEF is set in flags.

WRDE_CMDSUB

Command substitution requested when WRDE_NOCMD was set in flags.

WRDE_NOSPACE

Attempt to allocate memory failed.

WRDE_SYNTAX

Shell syntax error, such as unbalanced parentheses or unterminated string.

The <wordexp.h> header shall define the size_t type as described in <stddef.h>.

06.05.2022, 09:25 <wordexp.h>

The following shall be declared as functions and may also be defined as macros. Function prototypes shall be provided.

int wordexp(const char *restrict, wordexp_t *restrict, int);
void wordfree(wordexp_t *);

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

<stddef.h>

XSH wordexp

CHANGE HISTORY

First released in Issue 4. Derived from the ISO POSIX-2 standard.

Issue 6

The **restrict** keyword is added to the prototype for *wordexp()*.

The WRDE_NOSYS constant is marked obsolescent.

Issue 7

The obsolescent WRDE_NOSYS constant is removed.

This reference page is clarified with respect to macros and symbolic constants.

End of informative text.

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