NAME

morphinit, re_morphinit, morphstr, morphword

SYNOPSIS

#include "wn.h"

int morphinit(void);

int re_morphinit(void);

char ∗morphstr(char ∗origstr, int pos);

char ∗morphword(char ∗word, int pos);

DESCRIPTION

The WordNet morphological processor, Morphy, is accessed through these functions:

morphinit( ) is used to open the exception list files. It returns **0** if successful, **-1** otherwise. The exception list files must be opened before **morphstr( )** or **morphword()** are called.

re_morphinit( ) is used to close the exception list files and reopen them, and is used exclusively for WordNet development. Return codes are as described above.

morphstr( ) is the basic user interface to Morphy. It tries to find the base form (lemma) of the word or collocation *origstr* in the specified *pos*. The first call (with *origstr* specified) returns a pointer to the first base form found. Subsequent calls requesting base forms of the same string must be made with the first argument of **NULL.** When no more base forms for *origstr* can be found, **NULL** is returned.

morphword( ) tries to find the base form of *word* in the specified *pos*. This function is called by **morphstr( )** for each individual word in a collocation.

NOTES

morphinit( ) is called by **wninit( )** and is not intended to be called directly by an application. Applications wishing to use WordNet and/or the morphological functions must call **wninit( )** at the start of the program. See **wnutil**(3WN) for more information.

origstr may be either a word or a collocation formed by joining individual words with underscore characters (_).

Usually only **morphstr( )** is called from applications, as it works on both words and collocations.

pos must be one of the following:

1	NOUN
2	VERB
3	ADJECTIVE
4	ADVERB
5	ADJECTIVE_SATELLITE

If **ADJECTIVE_SATELLITE** is passed, it is treated by **morphstr( )** as **ADJECTIVE.**

SEE ALSO

wnintro(3WN), **wnsearch**(3WN), **wndb**(5WN), **morphy**(7WN).

WARNINGS

Passing an invalid part of speech will result in a core dump.

The WordNet database files must be open to use **morphstr( )** or **morphword( ).**