

**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:

<b>1</b>	NOUN
<b>2</b>	VERB
<b>3</b>	ADJECTIVE
<b>4</b>	ADVERB
<b>5</b>	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()**.