

C LIBRARY FUNCTION - MBTOWC

http://www.tutorialspoint.com/c_standard_library/c_function_mbtowc.htm

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Description

The C library function **int mbtowc***wchar_t * pwc, const char * str, size_t n* converts a multibyte sequence to a wide character.

Declaration

Following is the declaration for mbtowc function.

```
int mbtowc(wchar_t *pwc, const char *str, size_t n)
```

Parameters

- **pwc** -- This is the pointer to an object of type wchar_t.
- **str** -- This is the pointer to the first byte of a multi-byte character.
- **n** -- This is the maximum number of bytes to be checked for character length.

Return Value

- If str is not NULL, the mbtowc function returns the number of consumed bytes starting at str, or 0 if **s** points to a null byte, or -1 upon failure.
- If str is NULL, the mbtowc function returns non-zero if the encoding has non-trivial shift state, or zero if the encoding is stateless.

Example

The following example shows the usage of mbtowc function.

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

int main()
{
    char *str = "This is tutorialspoint.com";
    wchar_t mb[100];
    int len;

    len = mblen(NULL, MB_CUR_MAX);

    mbtowc(mb, str, len*strlen(str) );

    wprintf(L"%ls \n", mb );

    return(0);
}
```

Let us compile and run the above program that will produce the following result which will be in multi-byte, a kind of binary output.

???

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