

C LIBRARY FUNCTION - ATOL

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

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Description

The C library function **long int atol***const char * str* converts the string argument **str** to a long integer *typelongint*.

Declaration

Following is the declaration for atol function.

```
long int atol(const char *str)
```

Parameters

- **str** -- This is the string containing the representation of an integral number.

Return Value

This function returns the converted integral number as a long int. If no valid conversion could be performed, it returns zero.

Example

The following example shows the usage of atol function.

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

int main()
{
    long val;
    char str[20];

    strcpy(str, "98993489");
    val = atol(str);
    printf("String value = %s, Long value = %ld\n", str, val);

    strcpy(str, "tutorialspoint.com");
    val = atol(str);
    printf("String value = %s, Long value = %ld\n", str, val);

    return(0);
}
```

Let us compile and run the above program, this will produce the following result:

```
String value = 98993489, Long value = 98993489
String value = tutorialspoint.com, Long value = 0
Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```