

strcoll

Defined in header <string.h>

```
int strcoll( const char *lhs, const char *rhs );
```

Compares two null-terminated byte strings according to the current locale as defined by the LC_COLLATE category.

Parameters

lhs, rhs - pointers to the null-terminated byte strings to compare

Return value

Negative value if lhs is *less than* (precedes) rhs.

0 if lhs is *equal to* rhs.

Positive value if lhs is *greater than* (follows) rhs.

Notes

Collation order is the dictionary order: the position of the letter in the national alphabet (its *equivalence class*) has higher priority than its case or variant. Within an equivalence class, lowercase characters collate before their uppercase equivalents and locale-specific order may apply to the characters with diacritics. In some locales, groups of characters compare as single *collation units*. For example, "ch" in Czech follows "h" and precedes "i", and "dzs" in Hungarian follows "dz" and precedes "g".

Example

Run this code

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

int main(void)
{
    setlocale(LC_COLLATE, "cs_CZ.iso88592");

    const char* s1 = "hrnec";
    const char* s2 = "chrt";

    printf("In the Czech locale: ");
    if(strcoll(s1, s2) < 0)
        printf("%s before %s\n", s1, s2);
    else
        printf("%s before %s\n", s2, s1);

    printf("In lexicographical comparison: ");
    if(strcmp(s1, s2) < 0)
        printf("%s before %s\n", s1, s2);
    else
        printf("%s before %s\n", s2, s1);
}
```

Output:

```
In the Czech locale: hrnec before chrt
In lexicographical comparison: chrt before hrnec
```

References

- C11 standard (ISO/IEC 9899:2011):
 - 7.24.4.3 The strcoll function (p: 366)

- C99 standard (ISO/IEC 9899:1999):
 - 7.21.4.3 The strcoll function (p: 329)
- C89/C90 standard (ISO/IEC 9899:1990):
 - 4.11.4.3 The strcoll function

See also

wcscoll <small>(C95)</small> <small>(function)</small>	compares two wide strings in accordance to the current locale
strxfrm <small>(function)</small>	transform a string so that strcmp would produce the same result as strcoll
wcsxfrm <small>(C95)</small> <small>(function)</small>	transform a wide string so that wcscmp would produce the same result as wcscoll
strcmp <small>(function)</small>	compares two strings
C++ documentation for strcoll	

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