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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'strcoll.3p' command

\$ man strcoll.3p

STRCOLL(3P) POSIX Programmer's Manual STRCOLL(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

strcoll, strcoll_l ? string comparison using collating information

SYNOPSIS

```
#include <string.h>

int strcoll(const char *s1, const char *s2);

int strcoll_l(const char *s1, const char *s2,
              locale_t locale);
```

DESCRIPTION

For strcoll(): The functionality described on this reference page is aligned with the ISO C standard. Any conflict between the requirements described here and the ISO C standard is unintentional. This volume of POSIX.1?2017 defers to the ISO C standard.

The strcoll() and strcoll_l() functions shall compare the string pointed to by s1 to the string pointed to by s2, both interpreted as appropriate to the LC_COLLATE category of the current locale, or of the locale represented by locale, respectively.

The strcoll() and strcoll_l() functions shall not change the setting of

errno if successful.

Since no return value is reserved to indicate an error, an application wishing to check for error situations should set errno to 0, then call strcoll(), or strcoll_l() then check errno.

The behavior is undefined if the locale argument to strcoll_l() is the special locale object LC_GLOBAL_LOCALE or is not a valid locale object handle.

RETURN VALUE

Upon successful completion, strcoll() shall return an integer greater than, equal to, or less than 0, according to whether the string pointed to by s1 is greater than, equal to, or less than the string pointed to by s2 when both are interpreted as appropriate to the current locale. On error, strcoll() may set errno, but no return value is reserved to indicate an error.

Upon successful completion, strcoll_l() shall return an integer greater than, equal to, or less than 0, according to whether the string pointed to by s1 is greater than, equal to, or less than the string pointed to by s2 when both are interpreted as appropriate to the locale represented by locale. On error, strcoll_l() may set errno, but no return value is reserved to indicate an error.

ERRORS

These functions may fail if:

EINVAL The s1 or s2 arguments contain characters outside the domain of the collating sequence.

The following sections are informative.

EXAMPLES

Comparing Nodes

The following example uses an application-defined function, node_compare(), to compare two nodes based on an alphabetical ordering of the string field.

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

```
...
```

```
struct node { /* These are stored in the table. */
```

```

char *string;

int length;

};

...

int node_compare(const void *node1, const void *node2)
{
    return strcoll(((const struct node *)node1)->string,
        ((const struct node *)node2)->string);
}

...

```

APPLICATION USAGE

The `strxfrm()` and `strcmp()` functions should be used for sorting large lists.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

`alphasort()`, `strcmp()`, `strxfrm()`

The Base Definitions volume of POSIX.1-2017, `<string.h>`

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