Implementing libc

0.1

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Module Index

1.1 Modules

Here is a list of all modules:	
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File Index

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Here is a list of all documented files with brief descriptions:	
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File Index

Module Documentation

3.1 String

Header file for string This file contains functions implementation from libs (string.h)

Functions

```
    void * str_memcpy (void *dest, const void *src, size_t n)
```

Copies bytes between buffers. From src to dest.

void * str memset (void *buf, char ch, size t count)

Sets buffers to a specified character.

• int str_cmp (const char *str1, const char *str2)

Compare strings.

• char * str_cat (char *dest, const char *src)

Appends a string.

• size_t str_len (const char *str)

Gets the length of a string.

char * str_cpy (char *dest, const char *src)

Copies a string.

char * str_cpyn (char *dest, const char *src, size_t num)

Copies the first num characters of source to destination.

size_t str_spn (const char *str, char *accept)

Returns the length of the initial portion of str1 which consists only of characters that are part of accept.

• size_t str_cspn (const char *str, char *not_accept)

Scans str1 for the first occurrence of any of the characters that are part of str2, returning the number of characters of str1 read before this first occurrence.

char * str_ch (char *str, char ch)

Returns a pointer to the first occurrence of character in the C string str.

3.1.1 Detailed Description

Header file for string This file contains functions implementation from libs (string.h)

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3.1.2 Function Documentation

3.1.2.1 str_cat()

Appends a string.

Parameters

buf	Null-terminated destination string.
ch	Null-terminated source string.

Returns

destination is returned.

3.1.2.2 str_ch()

Returns a pointer to the first occurrence of character in the C string str.

Parameters

str	pointer to the object to fill.	
ch	Character to be located. It is passed as its int promotion, but it is internally converted back to char for the	
	comparison.	

Returns

A pointer to the first occurrence of character in str.

3.1.2.3 str_cmp()

```
int str_cmp (  \mbox{const char} \ * \ str1, \\ \mbox{const char} \ * \ str2 \ )
```

Compare strings.

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Parameters

str1	Null-terminated string to compare.
str2	Null-terminated string to compare.

Returns

{The return value for each of these functions indicates the ordinal relation of str1, str2.

< 0 str1 is less than str2 0 str1 is identical to str2

0 str1 is greater than str2}

3.1.2.4 str_cpy()

Copies a string.

Parameters

	dest	Destination string.
Ī	src	Null-terminated source string.

Returns

destination is returned.

3.1.2.5 str_cpyn()

Copies the first num characters of source to destination.

Parameters

dest	Destination string.
src	Null-terminated source string.
num	Maximum number of characters to be copied from source. size_t is an unsigned integral type.

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Returns

destination is returned.

3.1.2.6 str_cspn()

Scans str1 for the first occurrence of any of the characters that are part of str2, returning the number of characters of str1 read before this first occurrence.

Parameters

str	Null-terminated source string to be scanned.
not_accept	Null-terminated source string containing the characters to match.

Returns

The length of the initial part of str not containing any of the characters that are part of not_accept.

3.1.2.7 str_len()

```
size_t str_len ( {\tt const\ char\ *\ str\ )}
```

Gets the length of a string.

Parameters

```
str Null-terminated string.
```

Returns

length of a string.

3.1.2.8 str_memcpy()

Copies bytes between buffers. From src to dest.

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Parameters

dest	Destination area.
src	Source area.
n,Bytes	count.

Returns

Pointer to dest.

3.1.2.9 str_memset()

Sets buffers to a specified character.

Parameters

buf	Pointer to the object to fill.
ch	Fill byte.
count	Number of bytes to fill.

Returns

Pointer to buf.

3.1.2.10 str_spn()

Returns the length of the initial portion of str1 which consists only of characters that are part of accept.

Parameters

str	Null-terminated string.
accept	Null-terminated string containing the characters to match.

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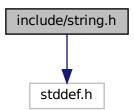
Returns

The length of the initial portion of str1 containing only characters that appear in accept. size_t is an unsigned integral type.

File Documentation

4.1 include/string.h File Reference

#include <stddef.h>
Include dependency graph for string.h:



Functions

- void * str memcpy (void *dest, const void *src, size t n)
 - Copies bytes between buffers. From src to dest.
- void * str_memset (void *buf, char ch, size_t count)
 - Sets buffers to a specified character.
- int str_cmp (const char *str1, const char *str2)
 - Compare strings.
- char * str_cat (char *dest, const char *src)
 - Appends a string.
- size_t str_len (const char *str)
 - Gets the length of a string.
- char * str_cpy (char *dest, const char *src)
 - Copies a string.
- char * str_cpyn (char *dest, const char *src, size_t num)
 - Copies the first num characters of source to destination.

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• size_t str_spn (const char *str, char *accept)

Returns the length of the initial portion of str1 which consists only of characters that are part of accept.

• size_t str_cspn (const char *str, char *not_accept)

Scans str1 for the first occurrence of any of the characters that are part of str2, returning the number of characters of str1 read before this first occurrence.

• char * str_ch (char *str, char ch)

Returns a pointer to the first occurrence of character in the C string str.

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