## TakoStrLib

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# **Chapter 1**

# **Class Index**

## 1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

CharBuf									
	Struct which keeps dynamic char array and it's size	 	 				 		5
StrArray									
	Struct to keep all strings								6

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# Chapter 2

# File Index

## 2.1 File List

Here is a list of all files with brief descriptions:

tsl.cc														
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File Index

## **Chapter 3**

## **Class Documentation**

## 3.1 CharBuf Struct Reference

Struct which keeps dynamic char array and it's size.

```
#include <CharBuf.hh>
```

## **Public Attributes**

- char \* buf
- size\_t size

## 3.1.1 Detailed Description

Struct which keeps dynamic char array and it's size.

Definition at line 10 of file CharBuf.hh.

## 3.1.2 Member Data Documentation

#### 3.1.2.1 buf

```
char* CharBuf::buf
```

Definition at line 12 of file CharBuf.hh.

Referenced by cb\_destr(), cb\_init(), sa\_print(), tsl\_cb\_back\_cmp(), tsl\_cb\_cmp(), and tsl\_split\_lines().

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#### 3.1.2.2 size

```
size_t CharBuf::size
```

Definition at line 13 of file CharBuf.hh.

Referenced by cb\_destr(), cb\_init(), sa\_print(), tsl\_cb\_back\_cmp(), and tsl\_cb\_cmp().

The documentation for this struct was generated from the following file:

· CharBuf/CharBuf.hh

## 3.2 StrArray Struct Reference

Struct to keep all strings.

```
#include <CharBuf.hh>
```

## **Public Attributes**

- String \* lines
- size\_t size

## 3.2.1 Detailed Description

Struct to keep all strings.

Definition at line 24 of file CharBuf.hh.

#### 3.2.2 Member Data Documentation

#### 3.2.2.1 lines

```
String* StrArray::lines
```

Definition at line 26 of file CharBuf.hh.

Referenced by sa\_destr(), sa\_init(), and sa\_print().

#### 3.2.2.2 size

```
size_t StrArray::size
```

Definition at line 27 of file CharBuf.hh.

Referenced by sa\_destr(), sa\_init(), sa\_print(), and tsl\_split\_lines().

The documentation for this struct was generated from the following file:

• CharBuf/CharBuf.hh

## **Chapter 4**

## **File Documentation**

## 4.1 CharBuf/CharBuf.cc File Reference

```
#include <stdio.h>
#include "CharBuf.hh"
```

## **Functions**

```
    CharBuf * cb_init (CharBuf *cb, size_t elem_num)
    CharBuf constructor.
```

• CharBuf \* cb\_destr (CharBuf \*cb)

CharBuf destructor.

• StrArray \* sa\_init (StrArray \*sa, size\_t elnum)

StrArray constructor.

• StrArray \* sa\_destr (StrArray \*sa)

StrArray destructor.

• void sa\_print (StrArray sa, FILE \*fp)

prints string array

## 4.1.1 Function Documentation

## 4.1.1.1 cb\_init()

CharBuf constructor.

## **Parameters**

out	cb	CharBuf object
in	elem_num	number of elements in buffer

## Returns

pointer to input CharBuf object

Definition at line 5 of file CharBuf.cc.

References CharBuf::buf, and CharBuf::size.

## 4.1.1.2 cb\_destr()

CharBuf destructor.

## **Parameters**

out <i>cb</i>	CharBuf object
---------------	----------------

## Returns

pointer to input CharBuf object

Definition at line 15 of file CharBuf.cc.

References CharBuf::buf, and CharBuf::size.

## 4.1.1.3 sa\_init()

StrArray constructor.

## **Parameters**

out	sa	StrArray object
in	elnum	number of lines

#### Returns

pointer to input object

Definition at line 25 of file CharBuf.cc.

References StrArray::lines, and StrArray::size.

## 4.1.1.4 sa\_destr()

StrArray destructor.

#### **Parameters**

```
out sa StrArray object
```

#### Returns

pointer to input object

Definition at line 35 of file CharBuf.cc.

References StrArray::lines, and StrArray::size.

## 4.1.1.5 sa\_print()

prints string array

#### **Parameters**

```
in sa
```

Definition at line 45 of file CharBuf.cc.

References CharBuf::buf, StrArray::lines, CharBuf::size, and StrArray::size.

## 4.2 CharBuf/CharBuf.hh File Reference

#include <stdio.h>

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

## **Classes**

· struct CharBuf

Struct which keeps dynamic char array and it's size.

struct StrArray

Struct to keep all strings.

## **Typedefs**

· typedef CharBuf String

Alias for CharBuf struct.

## **Functions**

```
    CharBuf * cb_init (CharBuf *cb, size_t elem_num)
```

CharBuf constructor.

CharBuf \* cb\_destr (CharBuf \*cb)

CharBuf destructor.

StrArray \* sa\_init (StrArray \*sa, size\_t elnum)

StrArray constructor.

• StrArray \* sa\_destr (StrArray \*sa)

StrArray destructor.

void sa\_print (StrArray sa, FILE \*fp=stdout)

prints string array

## 4.2.1 Typedef Documentation

## 4.2.1.1 String

```
typedef CharBuf String
```

Alias for CharBuf struct.

Definition at line 19 of file CharBuf.hh.

## 4.2.2 Function Documentation

## 4.2.2.1 cb\_init()

CharBuf constructor.

## **Parameters**

out	cb	CharBuf object
in	elem_num	number of elements in buffer

#### Returns

pointer to input CharBuf object

Definition at line 5 of file CharBuf.cc.

References CharBuf::buf, and CharBuf::size.

## 4.2.2.2 cb\_destr()

CharBuf destructor.

#### **Parameters**

out <i>cb</i>	CharBuf object
---------------	----------------

## Returns

pointer to input CharBuf object

Definition at line 15 of file CharBuf.cc.

References CharBuf::buf, and CharBuf::size.

## 4.2.2.3 sa\_init()

StrArray constructor.

## **Parameters**

out	sa	StrArray object
in	elnum	number of lines

#### Returns

pointer to input object

Definition at line 25 of file CharBuf.cc.

References StrArray::lines, and StrArray::size.

## 4.2.2.4 sa\_destr()

StrArray destructor.

#### **Parameters**

out	sa	StrArray object
-----	----	-----------------

#### Returns

pointer to input object

Definition at line 35 of file CharBuf.cc.

References StrArray::lines, and StrArray::size.

## 4.2.2.5 sa\_print()

prints string array

#### **Parameters**



Definition at line 45 of file CharBuf.cc.

References CharBuf::buf, StrArray::lines, CharBuf::size, and StrArray::size.

## 4.3 tsl.cc File Reference

Tako's string library.

4.3 tsl.cc File Reference 13

```
#include <ctype.h>
#include <stdio.h>
#include <stdlib.h>
#include "trace.hh"
#include "tsl.hh"
```

#### **Functions**

• int tsl\_fputs (const char \*str, FILE \*stream)

writes the string str to stream, without terminating null byte ('\0').

int tsl\_puts (const char \*str)

writes the string str and a trailing newline to stdout.

char \* tsl strchr (char \*str, int ch)

returns a pointer to the first occurrence of the character c in the string str.

const char \* tsl const strchr (const char \*str, int ch)

returns a pointer to the first occurrence of the character c in the string s.

size\_t tsl\_strlen (const char \*str)

calculates the length of the string pointed to by str, excluding the terminating null byte ("\0").

char \* tsl strcpy (char \*dst, const char \*src)

copies the string pointed to by src, including the terminating null byte ("\0"), to the buffer pointed to by dest.

• char \* tsl\_strncpy (char \*dst, const char \*src, size\_t n)

similar to tsl\_strcpy, except that at most n bytes of src are copied

char \* tsl\_strcat (char \*dst, const char \*src)

appends the src string to the dest string, overwriting the terminating null byte ('\0') at the end of dest, and then adds a terminating null byte.

• char \* tsl strncat (char \*dst, const char \*src, size t n)

is similar to tsl\_strcat, except that it will use at most n bytes from src and src does not need to be null-terminated if it contains n or more bytes.

char \* tsl\_fgets (char \*str, int size, FILE \*stream)

reads in at most one less than size characters from stream and stores them into the buffer pointed to by str.

char \* tsl\_strdup (const char \*str)

returns a pointer to a new string which is a duplicate of the string str.

• int tsl\_test ()

unit test for tsl functions

StrArray tsl\_split\_lines (CharBuf raw)

split input buffer to lines, allocates memory in StrArray::lines.

int tsl\_cb\_cmp (const void \*lhs, const void \*rhs)

comparator for CharBuf strings

int tsl\_cb\_back\_cmp (const void \*lhs, const void \*rhs)

backward comparator for CharBuf strings

## 4.3.1 Detailed Description

Tako's string library.

**Author** 

Tako

## 4.3.2 Function Documentation

## 4.3.2.1 tsl\_fputs()

writes the string str to stream, without terminating null byte ('\0').

#### **Parameters**

in	str	
in	stream	

#### Returns

nonnegative number on success, or EOF on error.

Definition at line 14 of file tsl.cc.

Referenced by tsl\_puts().

## 4.3.2.2 tsl\_puts()

```
int tsl_puts ( {\tt const\ char\ *\ str\ )}
```

writes the string str and a trailing newline to stdout.

#### **Parameters**

in	str	
----	-----	--

## Returns

a nonnegative number on success, or EOF on error.

Definition at line 26 of file tsl.cc.

References tsl\_fputs().

4.3 tsl.cc File Reference

## 4.3.2.3 tsl\_strchr()

```
\label{eq:char*tsl_strchr} \begin{array}{c} \text{char* tsl\_strchr} \text{ (} \\ \text{char * } str, \\ \text{int } ch \text{ )} \end{array}
```

returns a pointer to the first occurrence of the character c in the string str.

#### **Parameters**

in	str	
in	ch	

#### Returns

pointer to the matched character or NULL if the character is not found.

Definition at line 31 of file tsl.cc.

## 4.3.2.4 tsl\_const\_strchr()

```
const char* tsl_const_strchr (  {\rm const~char} \ * \ str,   {\rm int} \ ch \ )
```

returns a pointer to the first occurrence of the character c in the string s.

## Parameters

in	str	
in	ch	

## Returns

pointer to the matched character or NULL if the character is not found.

Definition at line 42 of file tsl.cc.

Referenced by tsl\_test().

## 4.3.2.5 tsl\_strlen()

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

calculates the length of the string pointed to by str, excluding the terminating null byte ('\0').

#### **Parameters**

in str	in	str	
--------	----	-----	--

#### Returns

the number of bytes in the string pointed to by s.

Definition at line 53 of file tsl.cc.

Referenced by tsl\_strdup(), and tsl\_test().

## 4.3.2.6 tsl\_strcpy()

copies the string pointed to by src, including the terminating null byte ('\0'), to the buffer pointed to by dest.

The strings may not overlap, and the destination string dest must be large enough to receive the copy.

#### **Parameters**

out	dst	
in	src	

#### Returns

pointer to the destination string.

Definition at line 65 of file tsl.cc.

Referenced by tsl\_strcat(), tsl\_strdup(), tsl\_strncat(), and tsl\_test().

## 4.3.2.7 tsl\_strncpy()

similar to tsl\_strcpy, except that at most n bytes of src are copied

4.3 tsl.cc File Reference

#### **Parameters**

out	dst	
in	src	
in	n	

#### Returns

pointer to the destination string.

Definition at line 79 of file tsl.cc.

Referenced by tsl\_test().

## 4.3.2.8 tsl\_strcat()

```
\label{eq:char*tsl_strcat} \begin{array}{c} \text{char} * \ dst, \\ \\ \text{const char} * \ src \ ) \end{array}
```

appends the src string to the dest string, overwriting the terminating null byte ('\0') at the end of dest, and then adds a terminating null byte.

## **Parameters**

out	dst	
in	src	

#### Returns

pointer to the resulting string.

Definition at line 95 of file tsl.cc.

References tsl\_strcpy().

## 4.3.2.9 tsl\_strncat()

is similar to tsl\_strcat, except that it will use at most n bytes from src and src does not need to be null-terminated if it contains n or more bytes.

#### **Parameters**

out	dst	
in	src	
in	n	

#### Returns

pointer to the resulting string.

Definition at line 107 of file tsl.cc.

References tsl\_strcpy().

Referenced by tsl\_test().

## 4.3.2.10 tsl\_fgets()

reads in at most one less than size characters from stream and stores them into the buffer pointed to by str.

Reading stops after an EOF or a newline. If a newline is read, it is stored into the buffer. A terminating null byte ('\0') is stored after the last character in the buffer.

#### **Parameters**

out	str	
in	size	
in	stream	

#### Returns

str on success, and nullptr on error or when end of file occurs while no characters have been read.

Definition at line 119 of file tsl.cc.

Referenced by tsl\_test().

#### 4.3.2.11 tsl strdup()

```
\label{eq:char*tsl_strdup} \mbox{ (} \\ \mbox{const char} * str \mbox{ )}
```

returns a pointer to a new string which is a duplicate of the string str.

Memory for the new string is obtained with malloc, and can be freed with free.

4.3 tsl.cc File Reference

#### **Parameters**

in	str	
----	-----	--

#### Returns

pointer to the duplicated string or nullptr in case of failure.

Definition at line 147 of file tsl.cc.

References tsl\_strcpy(), and tsl\_strlen().

Referenced by tsl\_test().

## 4.3.2.12 tsl\_test()

```
int tsl_test ( )
```

unit test for tsl functions

Returns

0 on success

Definition at line 158 of file tsl.cc.

References  $tsl\_const\_strchr()$ ,  $tsl\_fgets()$ ,  $tsl\_puts()$ ,  $tsl\_strcpy()$ ,  $tsl\_strdup()$ ,  $tsl\_strlen()$ ,  $tsl\_strlen()$ , and  $tsl\_const\_strncpy()$ .

## 4.3.2.13 tsl\_split\_lines()

split input buffer to lines, allocates memory in StrArray::lines.

Do not forget to free

## **Parameters**

in	raw	input char buffer
----	-----	-------------------

## Returns

StrArray

Definition at line 194 of file tsl.cc.

References CharBuf::buf, and StrArray::size.

## 4.3.2.14 tsl\_cb\_cmp()

comparator for CharBuf strings

#### **Parameters**

in	lhs	
in	rhs	

#### Returns

```
== 0 if elements are equal
```

> 0 if lhs > rhs

< 0 if lhs < rhs

Definition at line 241 of file tsl.cc.

References CharBuf::buf, and CharBuf::size.

## 4.3.2.15 tsl\_cb\_back\_cmp()

backward comparator for CharBuf strings

#### **Parameters**

in	lhs	
in	rhs	

## Returns

```
== 0 if elements are equal
```

> 0 if lhs > rhs

< 0 if lhs < rhs

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Definition at line 267 of file tsl.cc.

References CharBuf::buf, and CharBuf::size.

## 4.4 tsl.hh File Reference

```
#include "CharBuf.hh"
```

#### **Functions**

int tsl\_fputs (const char \*str, FILE \*stream)

writes the string str to stream, without terminating null byte ('\0').

int tsl\_puts (const char \*str)

writes the string str and a trailing newline to stdout.

char \* tsl\_strchr (char \*str, int ch)

returns a pointer to the first occurrence of the character c in the string str.

const char \* tsl\_const\_strchr (const char \*str, int ch)

returns a pointer to the first occurrence of the character c in the string s.

• size\_t tsl\_strlen (const char \*str)

calculates the length of the string pointed to by str, excluding the terminating null byte ('\0').

char \* tsl\_strcpy (char \*dst, const char \*src)

copies the string pointed to by src, including the terminating null byte ("\0"), to the buffer pointed to by dest.

• char \* tsl strncpy (char \*dst, const char \*src, size t n)

similar to tsl\_strcpy, except that at most n bytes of src are copied

char \* tsl\_strcat (char \*dst, const char \*src)

appends the src string to the dest string, overwriting the terminating null byte ('\0') at the end of dest, and then adds a terminating null byte.

char \* tsl strncat (char \*dst, const char \*src, size t n)

is similar to tsl\_strcat, except that it will use at most n bytes from src and src does not need to be null-terminated if it contains n or more bytes.

char \* tsl\_fgets (char \*str, int size, FILE \*stream)

reads in at most one less than size characters from stream and stores them into the buffer pointed to by str.

• char \* tsl strdup (const char \*str)

returns a pointer to a new string which is a duplicate of the string str.

• int tsl\_test ()

unit test for tsl functions

· StrArray tsl split lines (CharBuf raw)

split input buffer to lines, allocates memory in StrArray::lines.

int tsl\_cb\_cmp (const void \*lhs, const void \*rhs)

comparator for CharBuf strings

• int tsl cb back cmp (const void \*lhs, const void \*rhs)

backward comparator for CharBuf strings

#### 4.4.1 Function Documentation

## 4.4.1.1 tsl\_fputs()

writes the string str to stream, without terminating null byte ('\0').

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#### **Parameters**

in	str	
in	stream	

#### Returns

nonnegative number on success, or EOF on error.

Definition at line 14 of file tsl.cc.

Referenced by tsl\_puts().

## 4.4.1.2 tsl\_puts()

```
int tsl_puts ( {\tt const\ char\ *\ str\ )}
```

writes the string str and a trailing newline to stdout.

## **Parameters**

```
in str
```

## Returns

a nonnegative number on success, or EOF on error.

Definition at line 26 of file tsl.cc.

References tsl\_fputs().

Referenced by tsl\_test().

## 4.4.1.3 tsl\_strchr()

returns a pointer to the first occurrence of the character c in the string str.

#### **Parameters**

in	str	
in	ch	

#### Returns

pointer to the matched character or NULL if the character is not found.

Definition at line 31 of file tsl.cc.

## 4.4.1.4 tsl\_const\_strchr()

```
const char* tsl_const_strchr (  {\rm const~char} \ * \ str, \\ {\rm int} \ ch \ )
```

returns a pointer to the first occurrence of the character c in the string s.

#### **Parameters**

in	str	
in	ch	

#### Returns

pointer to the matched character or NULL if the character is not found.

Definition at line 42 of file tsl.cc.

Referenced by tsl\_test().

## 4.4.1.5 tsl\_strlen()

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

calculates the length of the string pointed to by str, excluding the terminating null byte ('\0').

#### **Parameters**

```
in str
```

#### Returns

the number of bytes in the string pointed to by s.

Definition at line 53 of file tsl.cc.

Referenced by tsl\_strdup(), and tsl\_test().

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## 4.4.1.6 tsl\_strcpy()

copies the string pointed to by src, including the terminating null byte ('\0'), to the buffer pointed to by dest.

The strings may not overlap, and the destination string dest must be large enough to receive the copy.

## **Parameters**

out	dst	
in	src	

#### Returns

pointer to the destination string.

Definition at line 65 of file tsl.cc.

Referenced by tsl\_strcat(), tsl\_strdup(), tsl\_strncat(), and tsl\_test().

## 4.4.1.7 tsl\_strncpy()

similar to tsl\_strcpy, except that at most n bytes of src are copied

#### **Parameters**

out	dst	
in	src	
in	n	

#### Returns

pointer to the destination string.

Definition at line 79 of file tsl.cc.

## 4.4.1.8 tsl\_strcat()

appends the src string to the dest string, overwriting the terminating null byte ('\0') at the end of dest, and then adds a terminating null byte.

#### **Parameters**

out	dst	
in	src	

## Returns

pointer to the resulting string.

Definition at line 95 of file tsl.cc.

References tsl\_strcpy().

## 4.4.1.9 tsl\_strncat()

is similar to tsl\_strcat, except that it will use at most n bytes from src and src does not need to be null-terminated if it contains n or more bytes.

#### **Parameters**

out	dst	
in	src	
in	n	

#### Returns

pointer to the resulting string.

Definition at line 107 of file tsl.cc.

References tsl\_strcpy().

4.4 tsl.hh File Reference 27

## 4.4.1.10 tsl\_fgets()

reads in at most one less than size characters from stream and stores them into the buffer pointed to by str.

Reading stops after an EOF or a newline. If a newline is read, it is stored into the buffer. A terminating null byte ('\0') is stored after the last character in the buffer.

#### **Parameters**

out	str	
in	size	
in	stream	

## Returns

str on success, and nullptr on error or when end of file occurs while no characters have been read.

Definition at line 119 of file tsl.cc.

Referenced by tsl\_test().

## 4.4.1.11 tsl\_strdup()

returns a pointer to a new string which is a duplicate of the string str.

Memory for the new string is obtained with malloc, and can be freed with free.

#### **Parameters**

```
in str
```

#### Returns

pointer to the duplicated string or nullptr in case of failure.

Definition at line 147 of file tsl.cc.

References tsl\_strcpy(), and tsl\_strlen().

## 4.4.1.12 tsl\_test()

```
int tsl_test ( )
```

unit test for tsl functions

Returns

0 on success

Definition at line 158 of file tsl.cc.

References  $tsl\_const\_strchr()$ ,  $tsl\_puts()$ ,  $tsl\_puts()$ ,  $tsl\_strcpy()$ ,  $tsl\_strdup()$ ,  $tsl\_strlen()$ ,  $tsl\_strlen()$ , and  $tsl\_const\_strche()$ .

## 4.4.1.13 tsl\_split\_lines()

split input buffer to lines, allocates memory in StrArray::lines.

Do not forget to free

**Parameters** 

```
in raw input char buffer
```

Returns

StrArray

Definition at line 194 of file tsl.cc.

References CharBuf::buf, and StrArray::size.

## 4.4.1.14 tsl\_cb\_cmp()

comparator for CharBuf strings

## **Parameters**

in	lhs	
2	rha	
III	1115	

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#### Returns

```
== 0 if elements are equal
```

```
> 0 if lhs > rhs
```

```
< 0 if lhs < rhs
```

Definition at line 241 of file tsl.cc.

References CharBuf::buf, and CharBuf::size.

## 4.4.1.15 tsl\_cb\_back\_cmp()

backward comparator for CharBuf strings

## **Parameters**

in	lhs	
in	rhs	

#### Returns

== 0 if elements are equal

> 0 if lhs > rhs

< 0 if lhs < rhs

Definition at line 267 of file tsl.cc.

References CharBuf::buf, and CharBuf::size.

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