TakoStrLib

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Chapter 1

Class Index

1.1 Class List

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

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StrArray									
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2 Class Index

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

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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().

6 Class Documentation

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:

• /home/tako/programming/HWHW/Libs/TSL/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:

/home/tako/programming/HWHW/Libs/TSL/CharBuf/CharBuf.hh

Chapter 4

File Documentation

4.1 /home/tako/programming/HWHW/Libs/TSL/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 obje

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



Definition at line 45 of file CharBuf.cc.

 $References\ Char Buf:: buf,\ Str Array:: lines,\ Char Buf:: size,\ and\ Str Array:: size.$

4.2 /home/tako/programming/HWHW/Libs/TSL/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	cb	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 <i>sa</i>	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 /home/tako/programming/HWHW/Libs/TSL/tsl.cc File Reference

Tako's string library.

```
#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().

4.3.2.3 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.

4.3.2.4 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()

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

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.

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.

 $References\ tsl_const_strchr(),\ tsl_puts(),\ tsl_strcpy(),\ tsl_strdup(),\ tsl_strlen(),\ tsl_strncat(),\ and\ tsl_cost_strncpy().$

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

Definition at line 267 of file tsl.cc.

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

4.4 /home/tako/programming/HWHW/Libs/TSL/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').

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().

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().

4.4.1.10 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 $tsl_const_strchr()$, $tsl_puts()$, $tsl_puts()$, $tsl_strcpy()$, $tsl_strdup()$, $tsl_strlen()$, $tsl_strncat()$, and $tsl_const_strncpy()$.

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	

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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