TxtSort

1.1

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Chapter 1

File Index

1.1 File List

Here is a list of all files with brief descriptions:

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Chapter 2

File Documentation

2.1 filesys.cc File Reference

```
#include "filesys.hh"
#include "trace.hh"
```

Functions

- ssize_t tfl_fsize (FILE *fp)

  caclulates file's size
- int file_to_buf (const char *fname, CharBuf *raw_data)

  filling buffer with data from file

2.1.1 Function Documentation

2.1.1.1 tfl_fsize()

```
ssize_t tfl_fsize (
            FILE * fp )
```

caclulates file's size

Parameters

in	*fp*	pointer to file

Returns

size of file in case of success, negative value otherwise.

Definition at line 4 of file filesys.cc.

Referenced by file_to_buf().

2.1.1.2 file_to_buf()

```
int file_to_buf (
            const char * fname,
            CharBuf * raw_data )
```

filling buffer with data from file

Parameters

in	*fname*	filename
out	*raw_data*	buffer to fill

Returns

0 on success

Definition at line 17 of file filesys.cc.

References tfl_fsize().

Referenced by main().

2.2 filesys.hh File Reference

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

Functions

- ssize_t tfl_fsize (FILE *fp)
  caclulates file's size
- int file_to_buf (const char *fname, CharBuf *raw_data)
  filling buffer with data from file

2.2.1 Function Documentation

2.2.1.1 tfl_fsize()

```
ssize_t tfl_fsize (
            FILE * fp )
```

caclulates file's size

Parameters

in	*fp*	pointer to file

Returns

size of file in case of success, negative value otherwise.

Definition at line 4 of file filesys.cc.

Referenced by file_to_buf().

2.2.1.2 file_to_buf()

```
int file_to_buf (
            const char * fname,
            CharBuf * raw_data )
```

filling buffer with data from file

Parameters

in	*fname*	filename
out	*raw_data*	buffer to fill

Returns

0 on success

Definition at line 17 of file filesys.cc.

References tfl_fsize().

Referenced by main().

2.3 main.cc File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include "CharBuf.hh"
#include "filesys.hh"
#include "tqsort.hh"
#include "trace.hh"
#include "tsl.hh"
```

Functions

- int main (int argc, char ∗argv[ ])

2.3.1 Function Documentation

2.3.1.1 main()

```
int main (
            int argc,
            char * argv[] )
```

Definition at line 11 of file main.cc.

References file_to_buf(), and tqsort().

2.4 tqsort.cc File Reference

```
#include <stdint.h>
#include <string.h>
#include <utility>
#include "tqsort.hh"
```

Functions

- void tqs_swap_ui8 (uint8_t ∗∗l, uint8_t ∗∗r)
- void tqs_swap (void ∗left, void ∗right, size_t size)
- void tqsort_impl (void ∗void_base, size_t size, tqs_cmp compar, int left, int right)
- void tqsort (void ∗base, size_t nmemb, size_t size, tqs_cmp compar)

2.4.1 Function Documentation

2.4.1.1 tqs_swap_ui8()

```
void tqs_swap_ui8 (
            uint8_t ** l,
            uint8_t ** r )
```

Definition at line 7 of file tqsort.cc.

Referenced by tqsort_impl().

2.4.1.2 tqs_swap()

```
void tqs_swap (
             void * left,
             void * right,
             size_t size )
```

Definition at line 14 of file tqsort.cc.

Referenced by tqsort_impl().

2.4.1.3 tqsort_impl()

```
void tqsort_impl (
             void * void_base,
             size_t size,
             tqs_cmp compar,
             int left,
             int right )
```

Definition at line 23 of file tqsort.cc.

References tqs_swap(), and tqs_swap_ui8().

Referenced by tqsort().

2.4.1.4 tqsort()

```
void tqsort (
             void * base,
             size_t nmemb,
             size_t size,
             tqs_cmp compar )
```

Definition at line 57 of file tqsort.cc.

References tqsort_impl().

Referenced by main().

2.5 tqsort.hh File Reference

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

Typedefs

- typedef int(* tqs_cmp) (const void *, const void *)

Functions

- void tqsort (void *base, size_t nmemb, size_t size, tqs_cmp compar)

2.5.1 Typedef Documentation

2.5.1.1 tqs_cmp

```
typedef int(* tqs_cmp) (const void *, const void *)
```

Definition at line 6 of file tqsort.hh.

2.5.2 Function Documentation

2.5.2.1 tqsort()

```
void tqsort (
            void * base,
            size_t nmemb,
            size_t size,
            tqs_cmp compar )
```

Definition at line 57 of file tqsort.cc.

References tqsort_impl().

Referenced by main().

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