gds

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Chapter 1

Data Structure Index

1.1 Data Structures

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2 Data Structure Index

Chapter 2

File Index

2.1 File List

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

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Common internal headers for data structures	13
include/private/gdt.h	
Interface to generic data element functionality	14
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File Index

Chapter 3

Data Structure Documentation

3.1 gdt_generic_datatype Struct Reference

Generic datatype structure.

```
#include <gdt.h>
```

Data Fields

```
• enum gds_datatype type
```

```
• gds_cfunc compfunc
```

```
union {
    char c
    unsigned char uc
    signed char sc
    int i
    unsigned int ui
    long l
    unsigned long ul
    long long int ll
    unsigned long long int ull
    size_t st
    double d
    char * pc
    void * p
} data
```

3.1.1 Detailed Description

Generic datatype structure.

3.1.2 Field Documentation

3.1.2.1 char gdt_generic_datatype::c

char

```
3.1.2.2 gds_cfunc gdt_generic_datatype::compfunc
Comparison function pointer
3.1.2.3 double gdt_generic_datatype::d
double
3.1.2.4 union \{ \dots \} gdt_generic_datatype::data
Data union
3.1.2.5 int gdt_generic_datatype::i
int
3.1.2.6 long gdt_generic_datatype::I
long
3.1.2.7 long long int gdt_generic_datatype::ll
long long
3.1.2.8 void* gdt_generic_datatype::p
void *
3.1.2.9 char* gdt_generic_datatype::pc
char *, string
3.1.2.10 signed char gdt_generic_datatype::sc
signed char
3.1.2.11 size_t gdt_generic_datatype::st
size_t
3.1.2.12 enum gds_datatype gdt_generic_datatype::type
Data type
3.1.2.13 unsigned char gdt_generic_datatype::uc
unsigned char
```

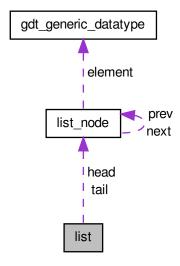
3.2 hms Struct Reference 3.1.2.14 unsigned int gdt_generic_datatype::ui unsigned int 3.1.2.15 unsigned long gdt_generic_datatype::ul unsigned long 3.1.2.16 unsigned long long int gdt_generic_datatype::ull unsigned long long The documentation for this struct was generated from the following file: • include/private/gdt.h 3.2 hms Struct Reference **Data Fields** • int hour • int minute · int second The documentation for this struct was generated from the following files:

7

· tests/test_list.c

3.3 list Struct Reference

Collaboration diagram for list:



Data Fields

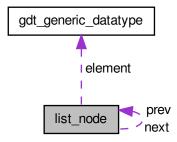
- size_t length
- enum gds_datatype type
- gds_cfunc compfunc
- struct list_node * head
- struct list_node * tail
- bool free_on_destroy
- bool exit_on_error

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

• src/list.c

3.4 list_node Struct Reference

Collaboration diagram for list_node:



Data Fields

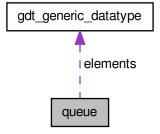
- struct gdt_generic_datatype element
- struct list_node * prev
- struct list_node * next

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

• src/list.c

3.5 queue Struct Reference

Collaboration diagram for queue:



Data Fields

• size_t front

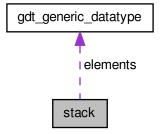
- size_t back
- size_t capacity
- size_t size
- enum gds_datatype type
- struct gdt_generic_datatype * elements
- bool resizable
- · bool free on destroy
- bool exit_on_error

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

• src/queue.c

3.6 stack Struct Reference

Collaboration diagram for stack:



Data Fields

- size_t top
- size_t capacity
- enum gds_datatype type
- struct gdt_generic_datatype * elements
- bool resizable
- bool free_on_destroy
- bool exit_on_error

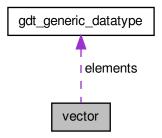
The documentation for this struct was generated from the following file:

• src/stack.c

3.7 vector Struct Reference

3.7 vector Struct Reference

Collaboration diagram for vector:



Data Fields

- size_t length
- size_t capacity
- enum gds_datatype type
- struct gdt_generic_datatype * elements
- int(* compfunc)(const void *, const void *)
- bool free_on_destroy
- bool exit_on_error

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

src/vector.c



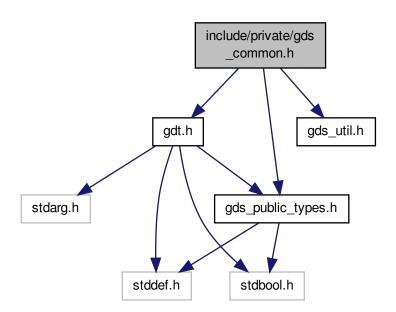
Chapter 4

File Documentation

4.1 include/private/gds_common.h File Reference

Common internal headers for data structures.

```
#include "gds_public_types.h"
#include "gdt.h"
#include "gds_util.h"
Include dependency graph for gds_common.h:
```



4.1.1 Detailed Description

Common internal headers for data structures.

Author

Paul Griffiths

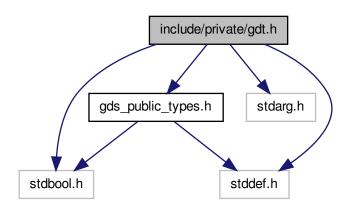
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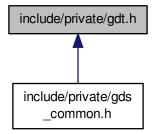
4.2 include/private/gdt.h File Reference

Interface to generic data element functionality.

```
#include <stdbool.h>
#include <stddef.h>
#include <stdarg.h>
#include "gds_public_types.h"
Include dependency graph for gdt.h:
```



This graph shows which files directly or indirectly include this file:



Data Structures

· struct gdt_generic_datatype

Generic datatype structure.

Functions

- void gdt_set_value (struct gdt_generic_datatype *data, const enum gds_datatype, gds_cfunc cfunc, va_list ap)
- void **gdt_get_value** (const struct **gdt_generic_datatype** *data, void *p)
- void **gdt_free** (struct gdt_generic_datatype *data)
- int gdt_compare (const struct gdt_generic_datatype *d1, const struct gdt_generic_datatype *d2)
- int **gdt_compare_void** (const void *p1, const void *p2)
- int gdt_reverse_compare_void (const void *p1, const void *p2)

4.2.1 Detailed Description

Interface to generic data element functionality.

Author

Paul Griffiths

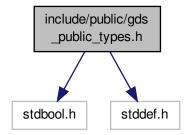
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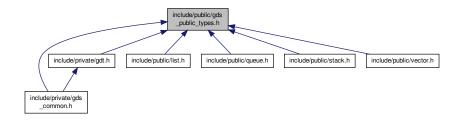
4.3 include/public/gds_public_types.h File Reference

Common public types for generic data structures library.

```
#include <stdbool.h>
#include <stddef.h>
Include dependency graph for gds_public_types.h:
```



This graph shows which files directly or indirectly include this file:



Typedefs

typedef int(* gds_cfunc)(const void *, const void *)
 Type definition for comparison function pointer.

Enumerations

enum gds_option { GDS_RESIZABLE = 1, GDS_FREE_ON_DESTROY = 2, GDS_EXIT_ON_ERROR = 4 }

Enumeration type for data structure options.

enum gds_datatype {
 DATATYPE_CHAR, DATATYPE_UNSIGNED_CHAR, DATATYPE_SIGNED_CHAR, DATATYPE_INT,
 DATATYPE_UNSIGNED_INT, DATATYPE_LONG, DATATYPE_UNSIGNED_LONG, DATATYPE_LONG_-LONG,
 DATATYPE_UNSIGNED_LONG_LONG, DATATYPE_SIZE_T, DATATYPE_DOUBLE, DATATYPE_STRING,
 DATATYPE_POINTER }

Enumeration type for data element type.

4.3.1 Detailed Description

Common public types for generic data structures library.

Author

Paul Griffiths

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4.3.2 Enumeration Type Documentation

4.3.2.1 enum gds_datatype

Enumeration type for data element type.

Enumerator:

DATATYPE_CHAR char

DATATYPE_UNSIGNED_CHAR unsigned char

DATATYPE_SIGNED_CHAR signed char

DATATYPE_INT int

DATATYPE_UNSIGNED_INT unsigned int

DATATYPE_LONG long

DATATYPE_UNSIGNED_LONG unsigned long

DATATYPE_LONG_LONG long long

DATATYPE_UNSIGNED_LONG_LONG unsigned long long

DATATYPE_SIZE_T size_t

DATATYPE_SIZE_T size_t

DATATYPE_STRING char *, string

DATATYPE_POINTER void *

4.3.2.2 enum gds_option

Enumeration type for data structure options.

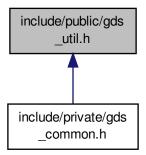
Enumerator:

GDS_RESIZABLE Dynamically resizes on demand
GDS_FREE_ON_DESTROY Automatically frees pointer members
GDS_EXIT_ON_ERROR Exits on error

4.4 include/public/gds_util.h File Reference

Interface to general utility functions.

This graph shows which files directly or indirectly include this file:



Functions

void gds_strerror_quit (const char *msg,...)
 Prints an error message with error number and exits.

void gds_error_quit (const char *msg,...)

Prints an error message exits.

void gds_assert_quit (const char *msg,...)

Prints an error message exits via assert().

4.4.1 Detailed Description

Interface to general utility functions.

Author

Paul Griffiths

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4.4.2 Function Documentation

4.4.2.1 void gds_assert_quit (const char * msg, ...)

Prints an error message exits via assert().

This function will do nothing if NDEBUG is defined. Otherwise, it behaves in a manner identical to gds_error_quit() except it terminates via assert(), rather than exit().

Parameters

msg	The format string for the message to print. Format specifiers are the same as the printf()
	family of functions.
	Any arguments to the format string.

4.4.2.2 void gds_error_quit (const char * msg, ...)

Prints an error message exits.

Parameters

msg	The format string for the message to print. Format specifiers are the same as the printf()
	family of functions.
	Any arguments to the format string.

4.4.2.3 void gds_strerror_quit (const char * msg, ...)

Prints an error message with error number and exits.

This function can be called to print an error message and quit following a function which has indicated failure and has set errno.

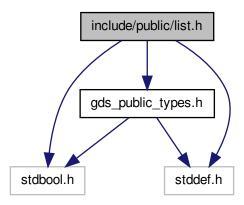
Parameters

msg	The format string for the message to print. Format specifiers are the same as the printf() family of functions.
	Any arguments to the format string.

4.5 include/public/list.h File Reference

Interface to generic list data structure.

```
#include <stdbool.h>
#include <stddef.h>
#include "gds_public_types.h"
Include dependency graph for list.h:
```



Typedefs

typedef struct list * List

Functions

- List list_create (const enum gds_datatype type, const int opts,...)
 - Creates a new list.
- void list_destroy (List list)
- bool list_append (List list,...)
- bool list_prepend (List list,...)
- bool list_insert (List list, const size_t index,...)
- bool list_delete_index (List list, const size_t index)
- bool list_delete_front (List list)
- bool list_delete_back (List list)
- bool list_element_at_index (List list, const size_t index, void *p)
- bool list_set_element_at_index (List list, const size_t index,...)
- bool list_find (List list, size_t *index,...)
- bool list_is_empty (List list)
- size_t list_length (List list)

4.5.1 Detailed Description

Interface to generic list data structure. The list is implemented as a double-ended, double-linked list.

Author

Paul Griffiths

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4.5.2 Typedef Documentation

4.5.2.1 typedef struct list* List

Opaque list type definition

4.5.3 Function Documentation

4.5.3.1 List list_create (const enum gds_datatype type, const int opts, ...) [read]

Creates a new list.

Parameters

type	The datatype for the list.
opts	The following options can be OR'd together: GDS_FREE_ON_DESTROY to automatically
	free() pointer members when they are deleted or when the list is destroyed; GDS_EXI-
	T_ON_ERROR to print a message to the standard error stream and exit(), rather than
	returning a failure status.
	If type is DATATYPE_POINTER, this argument should be a pointer to a comparison func-
	tion. In all other cases, this argument is not required, and will be ignored if it is provided.

Return values

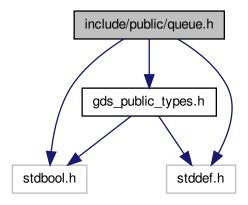
NULL	List creation failed.
non-NULL	A pointer to the new list.

4.6 include/public/queue.h File Reference

Interface to generic queue data structure.

```
#include <stdbool.h>
#include <stddef.h>
#include "gds_public_types.h"
```

Include dependency graph for queue.h:



Typedefs

• typedef struct queue * Queue

Functions

- Queue queue_create (const size_t capacity, const enum gds_datatype type, const int opts)
- void queue_destroy (Queue queue)
- bool queue_push (Queue queue,...)
- bool queue_pop (Queue queue, void *p)
- bool queue_peek (Queue queue, void *p)
- bool queue_is_full (Queue queue)
- bool queue_is_empty (Queue queue)
- size_t queue_capacity (Queue queue)
- size_t queue_free_space (Queue queue)
- size_t queue_size (Queue queue)

4.6.1 Detailed Description

Interface to generic queue data structure.

Author

Paul Griffiths

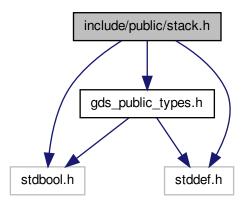
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4.7 include/public/stack.h File Reference

Interface to generic stack data structure.

```
#include <stdbool.h>
#include <stddef.h>
#include "gds_public_types.h"
Include dependency graph for stack.h:
```



Typedefs

• typedef struct stack * Stack

Functions

- Stack stack_create (const size_t capacity, const enum gds_datatype type, const int opts)
- void stack_destroy (Stack stack)
- bool stack_push (Stack stack,...)
- bool stack_pop (Stack stack, void *p)
- bool stack_peek (Stack stack, void *p)
- bool stack_is_full (Stack stack)
- bool stack_is_empty (Stack stack)
- size_t stack_capacity (Stack stack)
- size_t stack_free_space (Stack stack)
- size t stack size (Stack stack)

4.7.1 Detailed Description

Interface to generic stack data structure.

Author

Paul Griffiths

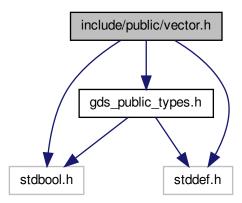
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4.8 include/public/vector.h File Reference

Interface to generic vector data structure.

```
#include <stdbool.h>
#include <stddef.h>
#include "gds_public_types.h"
Include dependency graph for vector.h:
```



Typedefs

• typedef struct vector * Vector

Functions

- Vector vector_create (const size_t capacity, const enum gds_datatype type, const int opts,...)
- void vector_destroy (Vector vector)
- bool vector_append (Vector vector,...)
- bool vector_prepend (Vector vector,...)
- bool vector_insert (Vector vector, const size_t index,...)
- bool vector_delete_index (Vector vector, const size_t index)
- bool vector_delete_front (Vector vector)
- bool vector_delete_back (Vector vector)
- bool vector_element_at_index (Vector vector, const size_t index, void *p)
- bool vector_set_element_at_index (Vector vector, const size_t index,...)
- bool vector_find (Vector vector, size_t *index,...)
- void vector_sort (Vector vector)
- void vector_reverse_sort (Vector vector)
- bool vector_is_empty (Vector vector)
- size_t vector_length (Vector vector)

- size_t vector_capacity (Vector vector)
- size_t vector_free_space (Vector vector)

4.8.1 Detailed Description

Interface to generic vector data structure.

Author

Paul Griffiths

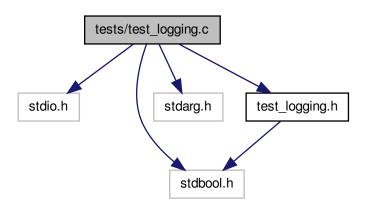
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4.9 tests/test_logging.c File Reference

Implementation of unit test logging functionality.

```
#include <stdio.h>
#include <stdbool.h>
#include <stdarg.h>
#include "test_logging.h"
Include dependency graph for test logging.c:
```



Functions

void tests_log_test (const bool success, const char *fmt,...)

Logs the result of a unit test.

• int tests_get_total_tests (void)

Returns the total number of tests run.

• int tests_get_successes (void)

Returns the total number of successful tests.

int tests_get_failures (void)

Returns the total number of failed tests.

4.9.1 Detailed Description

Implementation of unit test logging functionality.

Author

Paul Griffiths

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4.9.2 Function Documentation

4.9.2.1 int tests_get_failures (void)

Returns the total number of failed tests.

Returns

The total number of failed tests.

4.9.2.2 int tests_get_successes (void)

Returns the total number of successful tests.

Returns

The total number of successful tests.

4.9.2.3 int tests_get_total_tests (void)

Returns the total number of tests run.

Returns

The total number of tests run.

4.9.2.4 void tests_log_test (const bool success, const char * fmt, ...)

Logs the result of a unit test.

Parameters

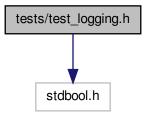
success	true if the test succeeded, false otherwise.
fmt	Format string for failure message.
	Arguements to format string.

4.10 tests/test_logging.h File Reference

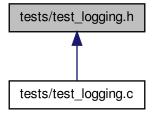
Interface to unit test logging functionality.

#include <stdbool.h>

Include dependency graph for test_logging.h:



This graph shows which files directly or indirectly include this file:



Functions

- void tests_log_test (const bool success, const char *fmt,...)
 - Logs the result of a unit test.
- int tests_get_total_tests (void)

Returns the total number of tests run.

int tests_get_successes (void)

Returns the total number of successful tests.

• int tests_get_failures (void)

Returns the total number of failed tests.

4.10.1 Detailed Description

Interface to unit test logging functionality.

Author

Paul Griffiths

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4.10.2 Function Documentation

4.10.2.1 int tests_get_failures (void)

Returns the total number of failed tests.

Returns

The total number of failed tests.

4.10.2.2 int tests_get_successes (void)

Returns the total number of successful tests.

Returns

The total number of successful tests.

4.10.2.3 int tests_get_total_tests (void)

Returns the total number of tests run.

Returns

The total number of tests run.

4.10.2.4 void tests_log_test (const bool success, const char * fmt, ...)

Logs the result of a unit test.

Parameters

success	true if the test succeeded, false otherwise.
fmt	Format string for failure message.
	Arguements to format string.

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