

sgrep

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Chapter 1

Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

sgrep_data_	5
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Chapter 2

File Index

2.1 File List

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

sgrep_data.h	??
parser/ parser.h	
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Chapter 3

Data Structure Documentation

3.1 `sgrep_data_` Struct Reference

Data Fields

- int **`dummy_var_to_to_make_gcc_shut_up`**

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

- `sgrep_data.h`

Chapter 4

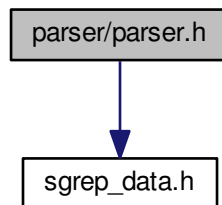
File Documentation

4.1 parser/parser.h File Reference

Functions for parsing command line options.

```
#include "sgrep_data.h"
```

Include dependency graph for parser.h:



Macros

- #define **PARSE_OK** 0
- #define **PARSE_BAD_INDATA** 1

Functions

- int [parse](#) (int argc, char **argv, [sgrep_data](#) *data)

The function parses a command line and stores the settings in the variables in the `sgrep_data` structure.

4.1.1 Detailed Description

Functions for parsing command line options.

Author

Henrik Sandklef

Date

9 dec 2015

The function is used to parse the command line options. The function stores the information gathered during parsing in the `sgrep_data` structure.

4.1.2 Function Documentation**4.1.2.1 `int parse (int argc, char ** argv, sgrep_data * data)`**

The function parses a command line and stores the settings in the variables in the `sgrep_data` structure.

Parameters

<i>argc</i>	- the number of strings to parse
<i>argv</i>	- the strings to parse
<i>data</i>	- a pointer to <code>sgrep_data</code> . Set the variables according to the arguments.

Returns

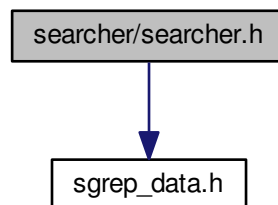
0: success, 1: bad indata

4.2 searcher/searcher.h File Reference

Functions for finding string in lines (strings)

```
#include "sgrep_data.h"
```

Include dependency graph for `searcher.h`:

**Macros**

- `#define SEARCHER_OK_MATCHES 0`
- `#define SEARCHER_OK_NO_MATCHES 1`
- `#define SEARCHER_BAD_INDATA 2`
- `#define SEARCHER_OUT_OF_MEM 2`

Functions

- `int search_string (char *indata, sgrep_data *sdg)`

Searches for a string (found in sgd) in indata.

- int [search_file](#) ([sgrep_data](#) *sgd)

The function searches for regexp in each line of the FILE in.

- void [free_data](#) ([sgrep_data](#) *sgd)

The function frees all allocated data in the sgrep_data struct supplied as an argument.

4.2.1 Detailed Description

Functions for finding string in lines (strings)

Author

Henrik Sandklef

Date

9 dec 2015

These functions are used to search for strings in string. The functions keep track of the number of matches and the search string itself by using the corresponding variables in the sgrep_data struct.

4.2.2 Function Documentation

4.2.2.1 void [free_data](#) ([sgrep_data](#) * *sgd*)

The function frees all allocated data in the sgrep_data struct supplied as an argument.

Parameters

<i>sgd</i>	- the data to free
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4.2.2.2 int [search_file](#) ([sgrep_data](#) * *sgd*)

The function searches for regexp in each line of the FILE in.

Given a valid search string (the needle), in the variable reg_exp in sgrep_data this functions checks if the string can be found in each of the lines in the variable in in sgred_data.

If any of the indata is NULL, the function returns 2.

Note

This function is allowed to print matching strings to stdout. It should be noted that it would be better to leave this to some other module.

Parameters

<i>sgd</i>	- struct containing string to search for and file where to search in
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Returns

0: at least on match, 1: no matches found, 2: bad indata

4.2.2.3 `int search_string (char * indata, sgrep_data * sdg)`

Searches for a string (found in *sdg*) in *indata*.

Given a valid search string (the needle), in the variable `reg_exp` in *sgrep_data* this functions checks if the string can be found in the *indata* (haystack).

If any of the *indata* is NULL, the function returns 2.

Parameters

<i>in</i>	- streams to find lines in, which in turn will be checked for matches
<i>sdg</i>	- struct containing string to search for

Returns

0: at least on match, 1: no matches found, 2: bad indata

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