signaler

Generated by Doxygen 1.8.11

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Here is a list of all files with brief descriptions:

Chapter 4

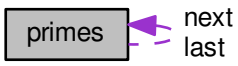
Data Structure Documentation

4.1 primes Struct Reference

Doubly linked list of prime numbers.

`#include <primes.h>`

Collaboration diagram for primes:



Data Fields

- uint32_t prime
- Primes * next
- Primes * last

4.1.1 Detailed Description

Doubly linked list of prime numbers.

4.1.2 Field Documentation

4.1.2.1 Primes* primes::last

4.1.2.2 Primes* primes::next

4.1.2.3 uint32_t primes::prime

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

- src/primes.h

4.2 sigHandler Struct Reference

Signal hander struct to call my handleMe function.

4.2.1 Detailed Description

Signal hander struct to call my handleMe function.

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

- src/signaler.c

Chapter 5

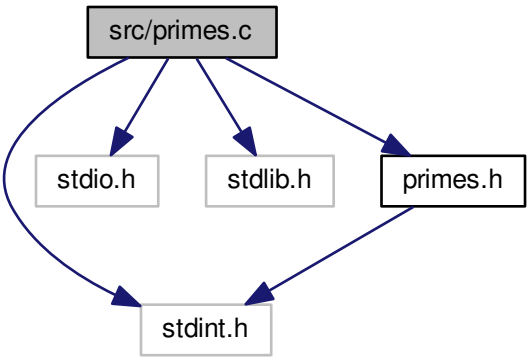
File Documentation

5.1 README.md File Reference

5.2 src/primes.c File Reference

```
#include <stdint.h>
#include <stdio.h>
#include <stdlib.h>
#include "primes.h"
```

Include dependency graph for primes.c:



Functions

- Primes * Primes_getList (uint32_t startPrime, uint32_t primesToMake)
  Generates list of next 100 primes.

5.2.1 Function Documentation

5.2.1.1 Primes* Primes_getList (uint32_t *start_prime,* uint32_t *primesToMake*)

Generates list of next 100 primes.

Parameters

start_prime	Prime Number to start from
primesToMake	Number of primes to find

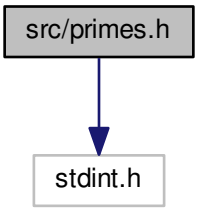
Returns

Pointer to list of new primes

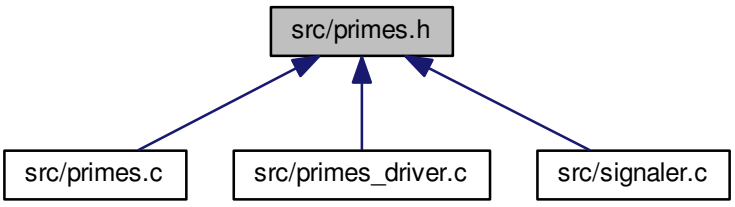
5.3 src/primes.h File Reference

Header file for my prime finding algorithm.

`#include <stdint.h>`
Include dependency graph for primes.h:



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



Data Structures

- struct primes

  Doubly linked list of prime numbers.

Typedefs

- typedef struct primes Primes

Functions

- Primes * Primes_getList (uint32_t start_prime, uint32_t primesToMake)
  Generates list of next 100 primes.

5.3.1 Detailed Description

Header file for my prime finding algorithm.

Author

Jack Spence

Date

10 Jan 2018

5.3.2 Typedef Documentation

5.3.2.1 typedef struct primes Primes

5.3.3 Function Documentation

5.3.3.1 Primes* Primes_getList (uint32_t *start_prime*, uint32_t *primesToMake*)

Generates list of next 100 primes.

Parameters

start_prime	Prime Number to start from
primesToMake	Number of primes to find

Returns

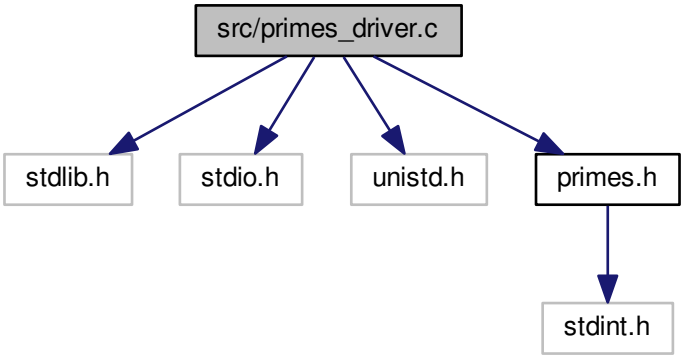
Pointer to list of new primes

5.4 src/primes_driver.c File Reference

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

```
#include <stdio.h>
#include <unistd.h>
#include "primes.h"
```

Include dependency graph for primes_driver.c:



Functions

- int main ()

5.4.1 Function Documentation

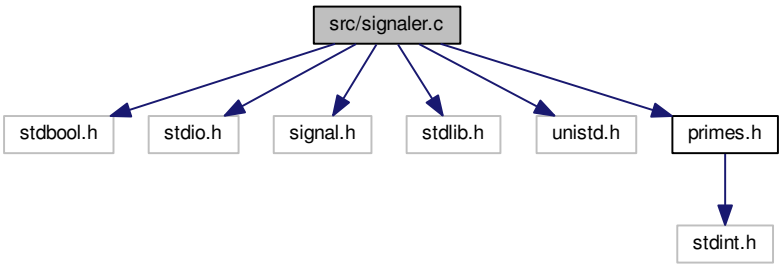
5.4.1.1 int main ( )

5.5 src/signaler.c File Reference

Driver to handle signals and get primes.

```
#include <stdbool.h>
#include <stdio.h>
#include <signal.h>
#include <stdlib.h>
#include <unistd.h>
#include "primes.h"
```

Include dependency graph for signaler.c:



Macros

- #define _XOPEN_SOURCE 700

Functions

- int main (int argc, char **argv)

Variables

- struct sigaction sigHandler

5.5.1 Detailed Description

Driver to handle signals and get primes.

Author

Jack Spence

Date

10 Jan 2018

5.5.2 Macro Definition Documentation

5.5.2.1 #define _XOPEN_SOURCE 700

5.5.3 Function Documentation

5.5.3.1 int main (int *argc,* char ** *argv*)

5.5.4 Variable Documentation

5.5.4.1 struct sigaction sigHandler

Initial value:

```
= {
    .sa_handler = &handleMe,
    .sa_flags = SA_RESTART
}
```