

HPC-project-Tarjan-CUDA

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<b>1 File Index</b>	<b>1</b>
1.1 File List . . . . .	1
<b>2 File Documentation</b>	<b>3</b>
2.1 common_mpi/src/mpi_logic.c File Reference . . . . .	3
2.1.1 Detailed Description . . . . .	4
2.1.2 Function Documentation . . . . .	4
2.1.2.1 master_schedule() . . . . .	4
<b>Index</b>	<b>5</b>



# Chapter 1

## File Index

### 1.1 File List

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

common_mpi/src/ <a href="#">mpi_logic.c</a> . . . . .	3
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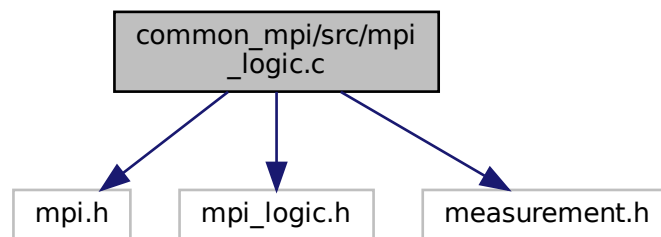


## Chapter 2

# File Documentation

### 2.1 common\_mpi/src/mpi\_logic.c File Reference

```
#include <mpi.h>
#include "mpi_logic.h"
#include "measurement.h"
Include dependency graph for mpi_logic.c:
```



### Functions

- void **callback** (array\_int \*scc)
- void **master\_schedule** (graph\_t \*graph, int N, int n\_slaves, scc\_set\_t \*SCCs)  
*The function divides the work, gives the work to the slaves and computes the SCCs.*
- void **master\_work** (int rank, int size, char \*filename, char \*outputfilename)
- void **master\_work2** (int rank, int size, graph\_t \*graph, scc\_set\_t \*SCCs, char \*outputfilename, double time\_init)
- void **slave\_work** (int rank)

### Variables

- double **time\_split\_graph** = 0.0
- double **time\_merge\_graph** = 0.0

### 2.1.1 Detailed Description

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#### Version

0.1

#### Date

2022-12-27

#### Copyright

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### 2.1.2 Function Documentation

#### 2.1.2.1 master\_schedule()

```
void master_schedule (
    graph_t * graph,
    int N,
    int n_slaves,
    scc_set_t * SCCs )
```

The function divides the work, gives the work to the slaves and computes the SCCs.

#### Parameters

<i>graph</i>	
<i>N</i>	
<i>n_slaves</i>	
<i>SCCs</i>	



# Index

`common_mpi/src/mpi_logic.c`, [3](#)

`master_schedule`  
    `mpi_logic.c`, [4](#)

`mpi_logic.c`  
    `master_schedule`, [4](#)