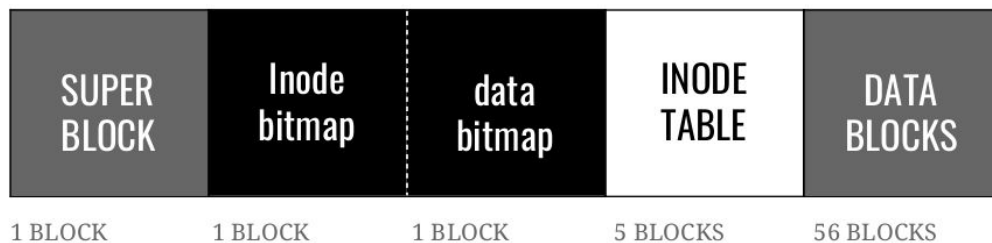


# gtfs

Gtfs is a persistent file system built using C to implement file I/O , device interactions and system calls.

## gtfs structure



## Execute

```
gcc gtfs.c
```

```
./a.out
```

To check for persistence execute the command 'closefs' and rerun ./a.out . The previously created files and directory will be available.

```
GTFS:\ROOT> mkdir Desktop
Desktop created.

GTFS:\ROOT> cd Desktop

GTFS:\ROOT\Desktop> touch Testfile1
Testfile1 created.
```

```
GTFS:\ROOT\Desktop> write Testfile1
> Hello world

GTFS:\ROOT\Desktop> cat Testfile1
Hello world
```

```
GTFS:\ROOT\Desktop> write Testfile1
> Hello world

GTFS:\ROOT\Desktop> cp Testfile1 Testfile2
Testfile2 created.
Copied.

GTFS:\ROOT\Desktop> cat Testfile2
Hello world
```

```
GTFS:\ROOT\Desktop> touch Testfile2
Testfile2 created.

GTFS:\ROOT\Desktop> ls
Testfile1 Testfile2

GTFS:\ROOT\Desktop> rm Testfile1
Testfile1 removed.

GTFS:\ROOT\Desktop> ls
Testfile2
```

```
GTFS:\ROOT\Desktop> cd ..

GTFS:\ROOT> rmdir Desktop
The directory must be empty.

GTFS:\ROOT> cd Desktop

GTFS:\ROOT\Desktop> rm Testfile2
Testfile2 removed.

GTFS:\ROOT\Desktop> cd ..

GTFS:\ROOT> rmdir Desktop
Desktop removed.
```

```
GTFS:\ROOT\Desktop> stat Testfile1
Name : Testfile1
Inode number: 4
Type : 0
Mode: 1
Offset : 0
Uid : 1000
Size : 0
Access time: Thu Nov 22 22:05:08 2018
Creation time : Thu Nov 22 19:58:35 2018
Modification time: Thu Nov 22 19:58:35 2018
Group id: 1000
Links count : 0
Blocks: 1
```

```
GTFS:\ROOT\Desktop> cat Testfile1
Hello world

GTFS:\ROOT\Desktop> append Testfile1
> Welcome

GTFS:\ROOT\Desktop> cat Testfile1
Hello worldWelcome
```