

Hack postgres Source Code: Vol I

Chapter 1 : C & Rust

1.1 Static Functions - C

C functions have global scope by default. Because of that, one can access a function from any external file other than the file where that function is defined.

We can restrict this scope only to the file where a particular function is defined.

This can be done with using keyword `static` in front of function.

```
// file name: add.c

int add(int a, int b) {

    return (a+b);
}
```

```
// file name: main.c

#include<stdio.h>

int add(int a, int b);

int
main() {

    printf("%d", add(1,2));
}
```

Modify `add.c` with `static` and C compiler throws an error.

```
// file name: add.c

static int add(int a, int b) {

    return (a+b);
}
```

Ref: <https://stackoverflow.com/questions/6618921/calling-a-function-from-another-file-in-the-same-directory-in-c>