

UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY ENGR 3950U / CSCI 3020U: Operating Systems

Design of Function Call Graphs for Simulated Unix File System.

Instructor:

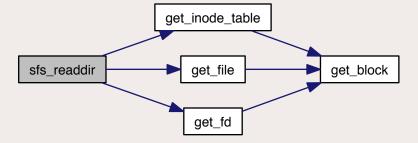
Dr. Kamran Sartipi

Faculty of Engineering and Applied Science
University of Ontario Institute of Technology
Canada

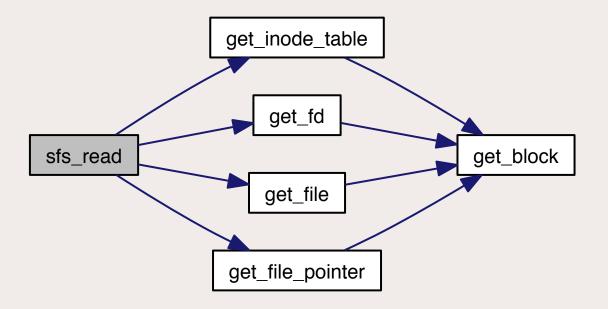
STRUCTURE OF THE PROGRAM

- The structure of this program is modular and the higher-level functions use (call) some lower level functions. Therefore, the design follows the principle of the modular software development.
- Two source files are responsible for providing the required lower level functions for the "file system interfaces":
- 1. *super_block.c*: contains the functions related to super block handling
- 2. *I_node.c*: contains the rest of the low level functions.
- Each primitive function should be commented (as the header) and its name must be self-explanatory.
- Post-condition testing should be used for each function call to provide a reliable usage of that function.
- In the following slides, first the primitive functions are shown.

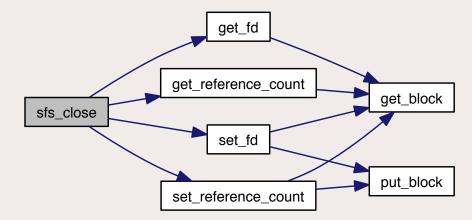
Read Directory



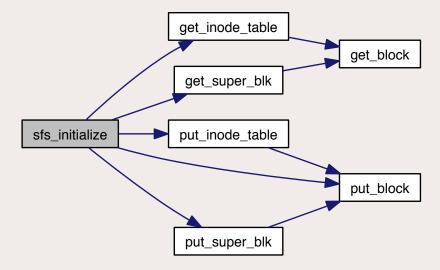
Read File



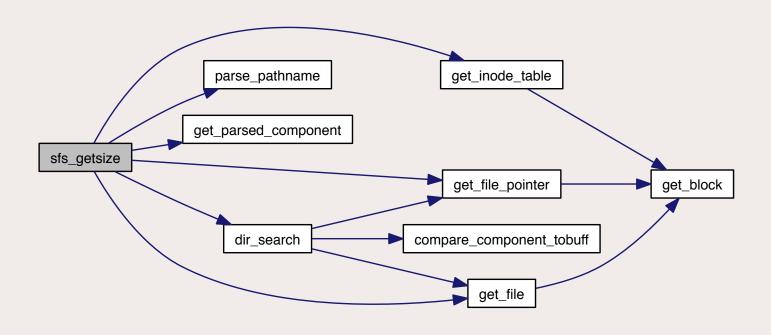
Close File



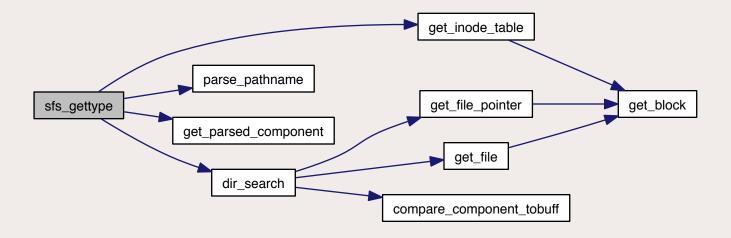
Initialize Disk



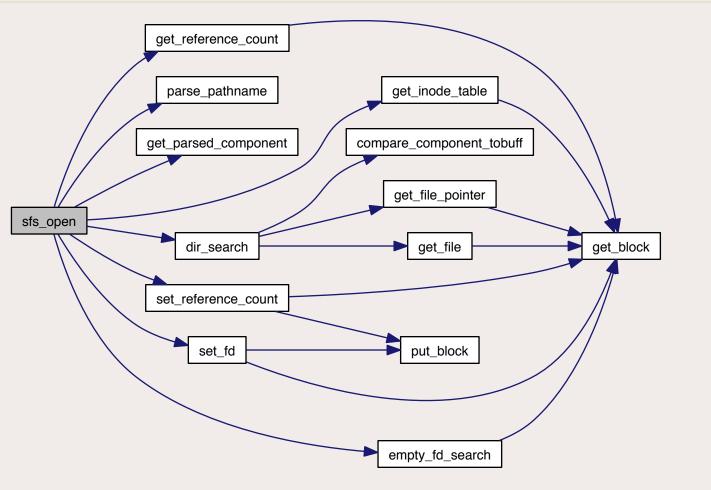
Get Size



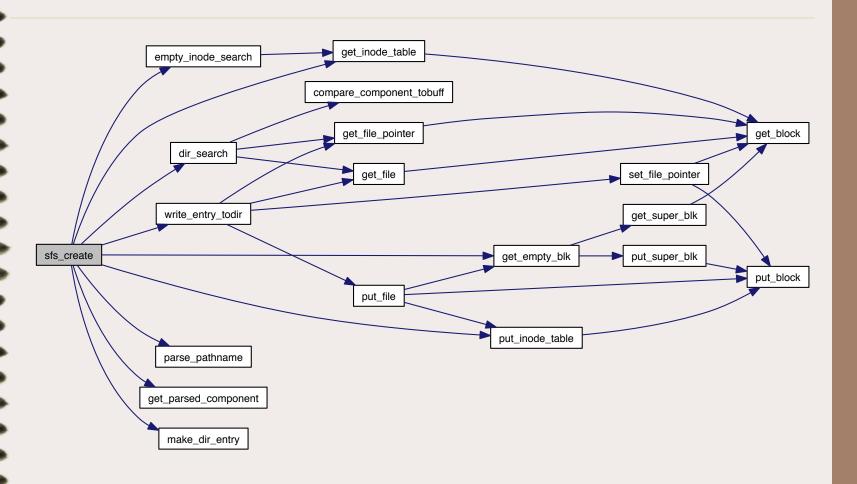
Get Type



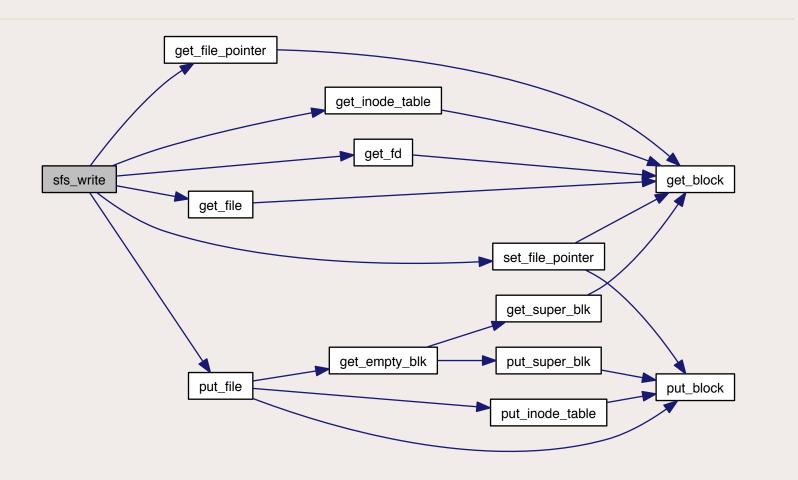
Open File



Create File



Write File



Delete File

