

SOFE 3950U / CSCI 3020U: Operating Systems

# Design of Function Call Graphs for Simulated Unix File System.

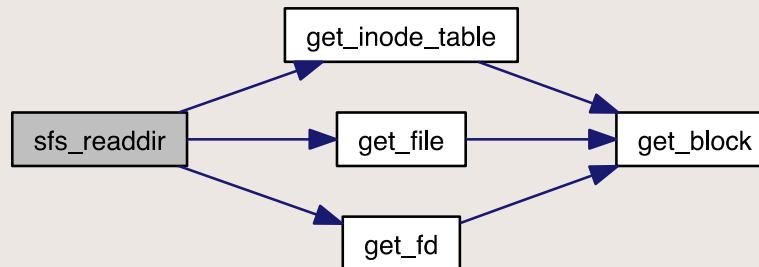
**Instructor:**  
**Dr. Kamran Sartipi**

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

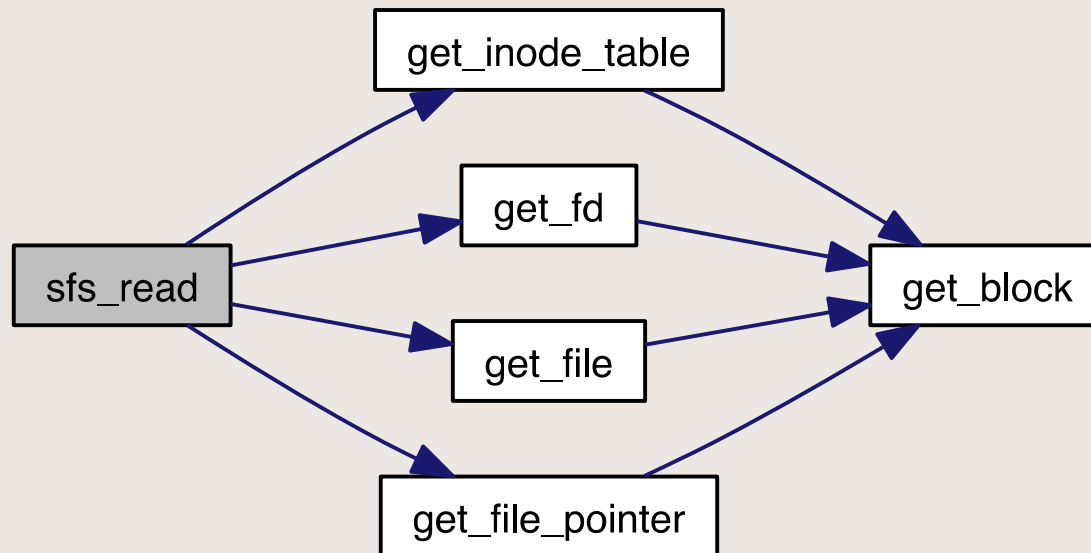
# STRUCTURE OF THE PROGRAM

- 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.

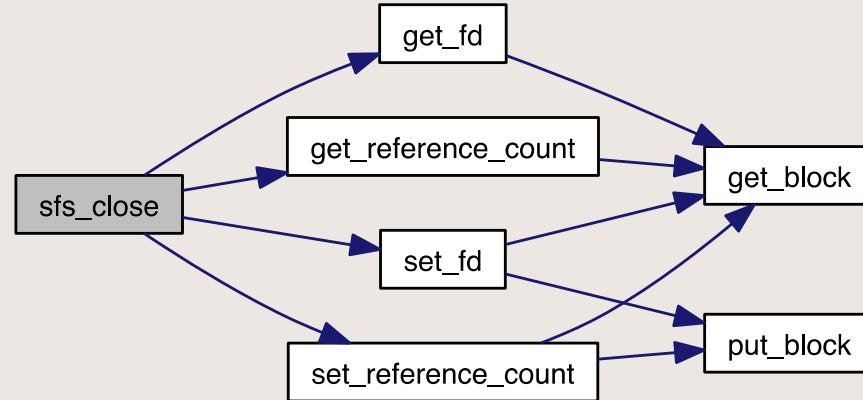
# ~~Read Directory~~



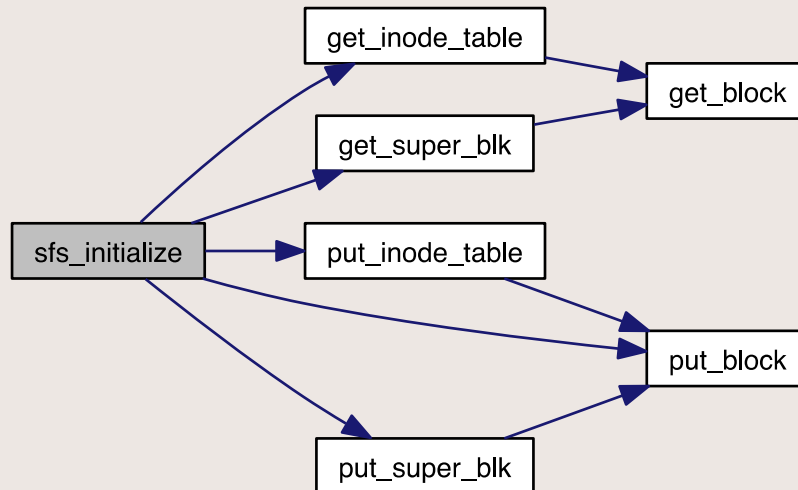
# Read File



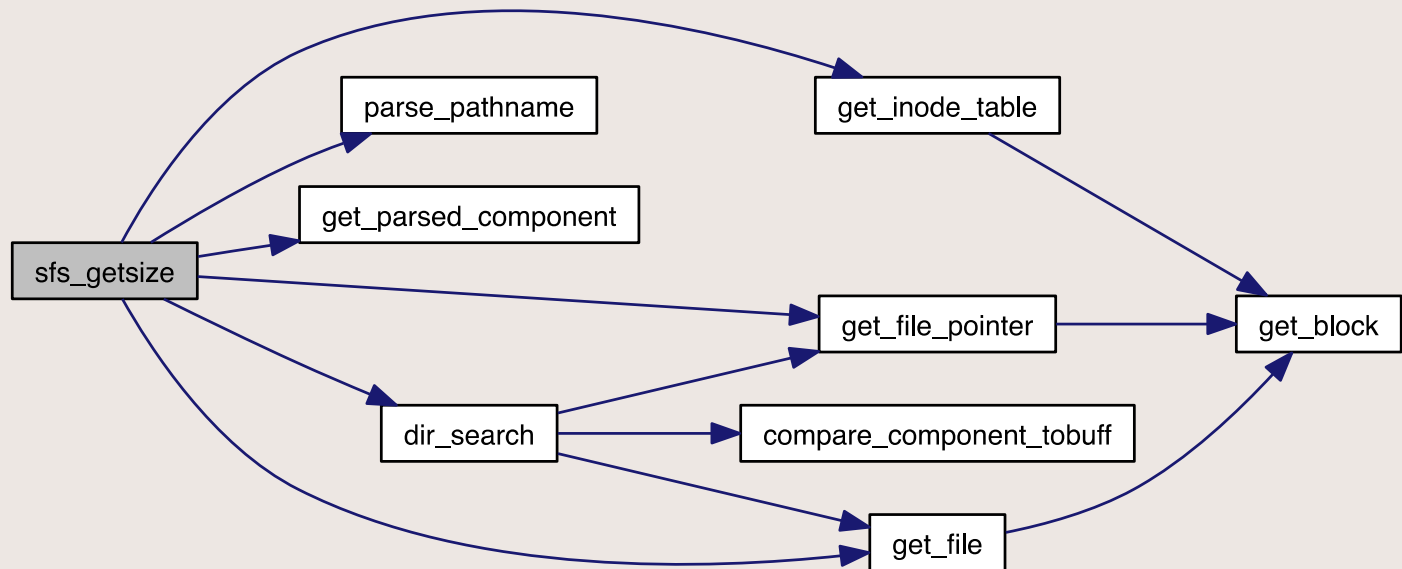
# Close File



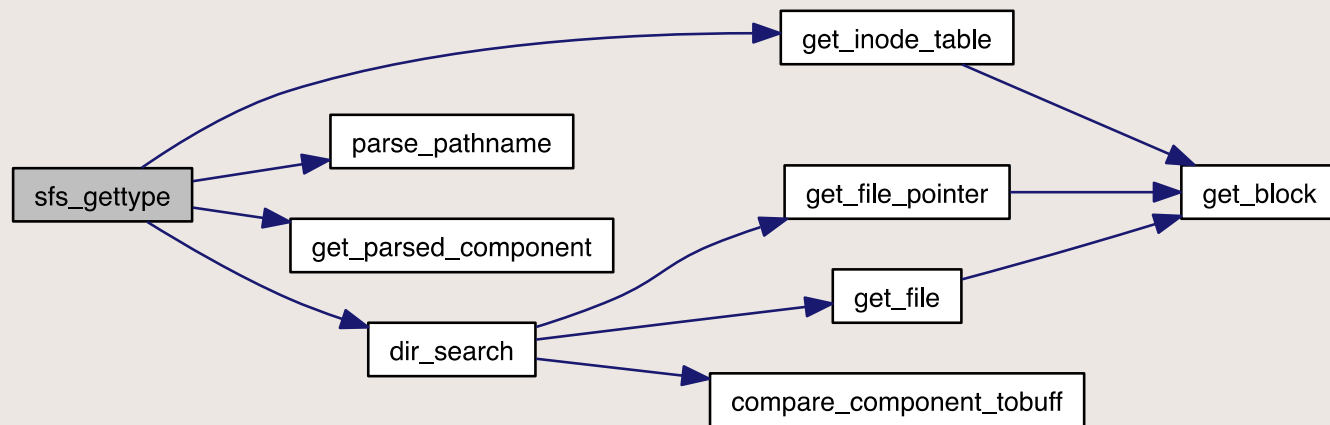
# Initialize Disk



# ~~Get Size~~

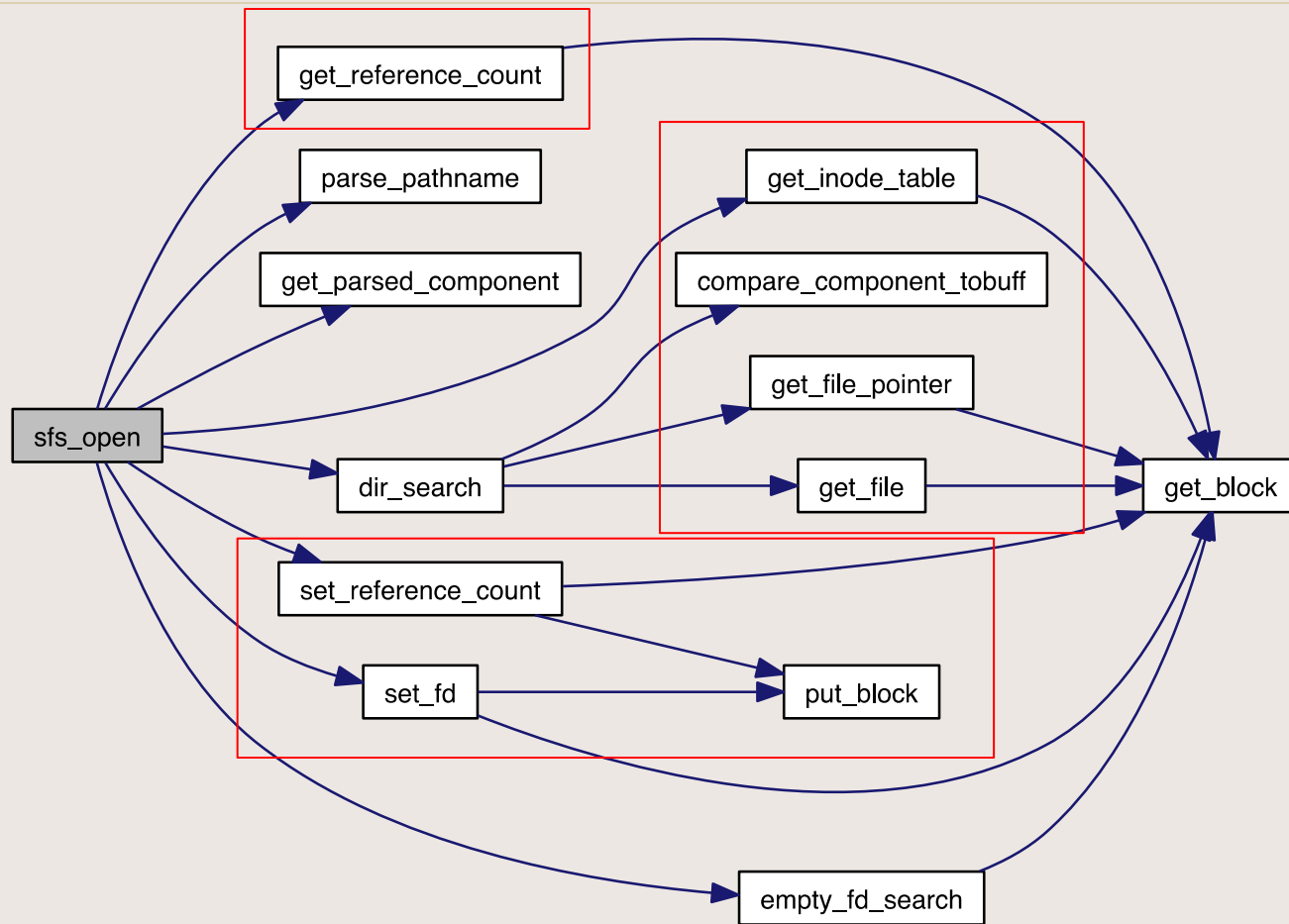


# Get Type

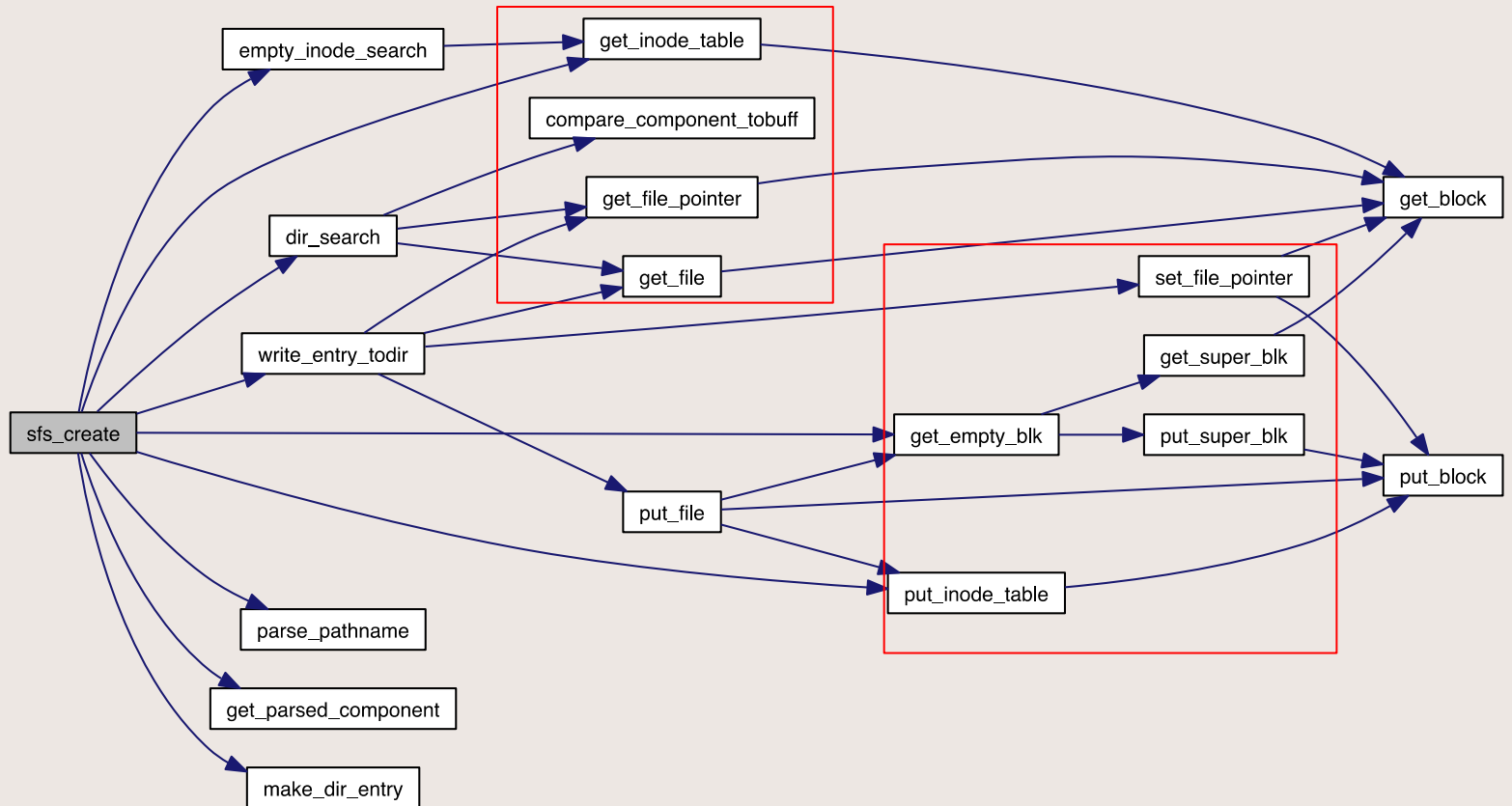




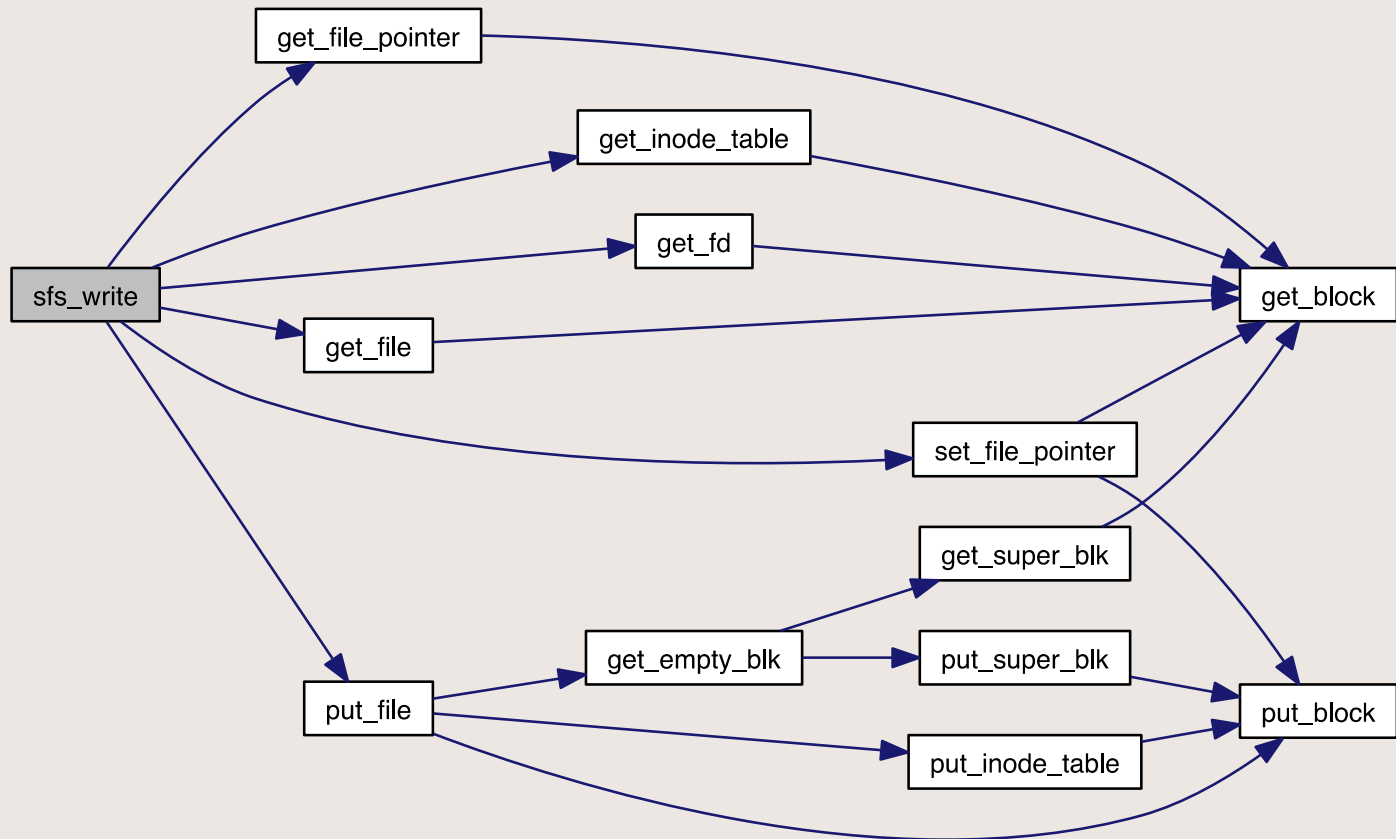
# Open File



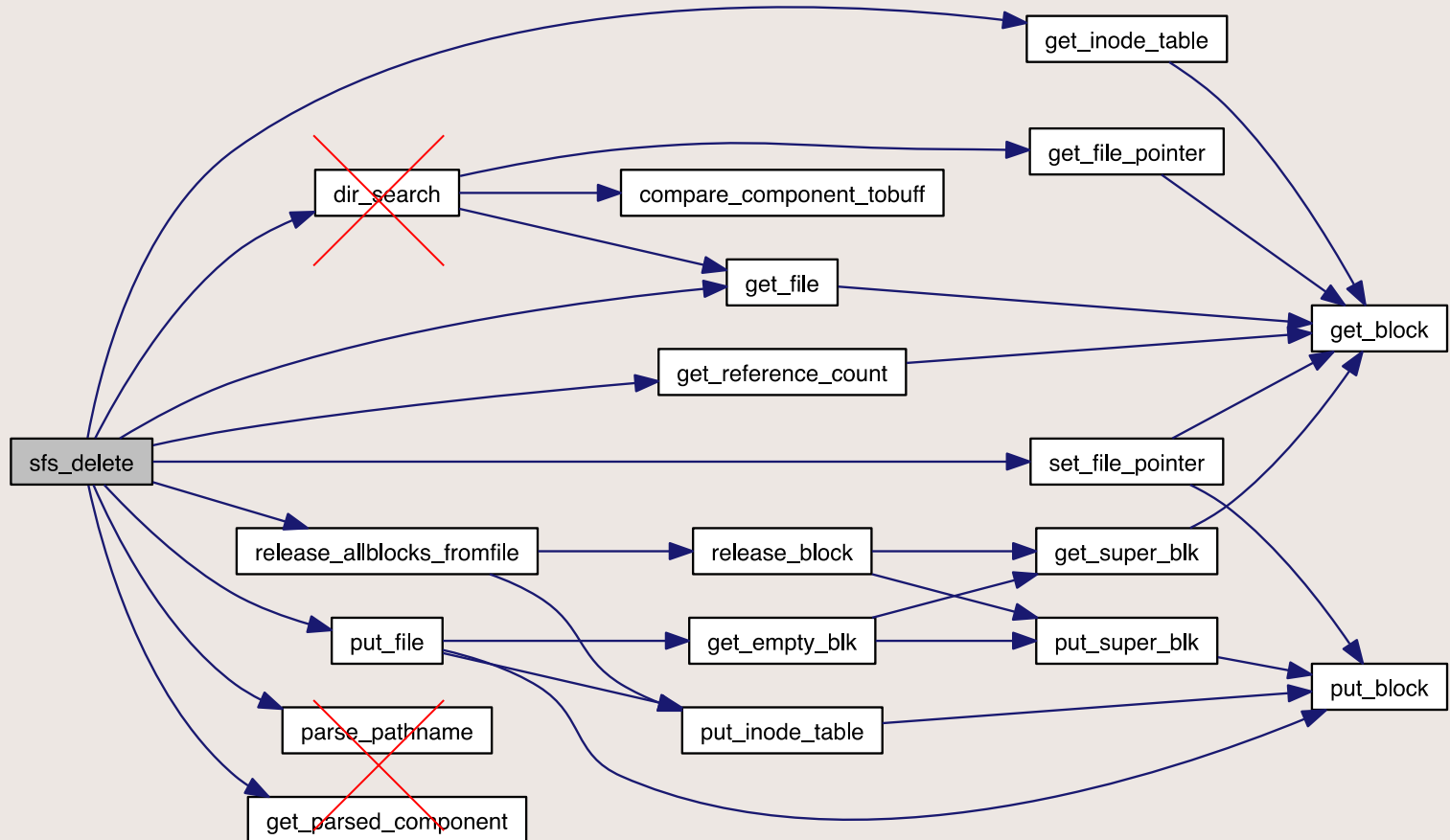
# Create File



# Write File



# Delete File



# Simulated File System Tester

