

## **Minix Source Code Hierarchy**

This manual will illustrate as to the source code hierarchy for the Minix Operating system. I have illustrated the important directories and their functions, which will help you to get an overall picture of the operating system hierarchy.

- **disks**  
This contains your copy of the root file system, **disks/root**, as well as symbolic links to the shared **/usr/bin** and **/usr/man** file systems.
- **include**  
This contains your copies of the system-wide include files for the Minix operating system, the Minix library calls, and any Minix user programs. You will typically have to modify some of these include files.
- **lib**  
Your copy of the compiled C library routines. Source code for these compiled libraries is located in **src/lib**.
- **src**  
Your src directory holds your copy of all of the Minix source code. The subdirectories of src are described below.
  - **src/commands**  
This contains the source code for all Minix commands (such as more, ls, who, etc.)
  - **src/etc**  
This contains copies of the contents of the **/etc** directory in your root file system. These files also appear in the **/etc** directory in your Minix root file system.
  - **src/fs**  
This contains the file system source code, for the FS server process.
  - **src/inet**  
This contains the network system source code, for the INET server process.
  - **src/kernel**  
This contains the source code for the Minix kernel, including the system tasks and the process management layer beneath them.
  - **src/mm**  
This contains the memory manager source code, for the MM server process.

- **src/lib**  
This contains the source code for the C library routines that are available to a Minix user program. For some projects, you will change a few of these files to add new system calls to Minix. This directory includes:
  - **src/lib/ansi** → some of the ANSI C library routines.
  - **src/lib/curses** → a screen handling package.
  - **src/lib/editline** → a line editing package.
  - **src/lib/fphook** → for printing floating-point numbers.
  - **src/lib/ip** → network access routines.
  - **src/lib/liby** → yacc library routines.
  - **src/lib/math** → mathematical library routines.
  - **src/lib/other** → other system library routines.
  - **src/lib/posix** → all system calls.
  - **src/lib/stdio** → the C standard I/O library.
  - **src/lib/sunsyscall** → all system calls (these just call the src/lib/posix versions).
  - **src/lib/syslib** → used by Minix operating system, and a few commands in src/commands.
  - **src/lib/sun4** → C run time routines.
- **src/tools**  
This contains the files needed to combine the **src/kernel/kernel**, **src/mm/mm**, **src/fs/fs**, **src/inet/inet**, and **src/tools/init** files, and the compiled libraries in **lib**, into the single **src/tools/image** file. You won't normally edit any code in this directory, but this is the only place you can recompile all of your Minix operating system (the src/tools/image file).

Please refer to the diagrammatic representation in the next page.

# Major Minix Source Code Directory Hierarchy

