Linux File System

File Attributes:  
 -Access permission for owner, group, and others (rwx)  
 -Number of hard links (# of inode sharing)  
 -Owner name and group name  
 -Size in bytes and timestamp (last modified)

File Attributes (Cont’d)  
-Constant attributes:

-file type  
 -file inode number  
 -file system ID

-Query file attributes (stat –L)

Examples:  
  
lrwxr-xr-x 1 smith student 12 Dec 17 5:34 s1 -> test.dat

-rw-r—r-- 2 smith student 22 Dec 17 5:34 s2  
-rw-r—r-- 2 smith student 22 Dec 17 5:34 test.dat

File Attributes (Cont.):

S1: inode 68097096; dev 50331652; links 1; size 8

symlink; mode is rwxr-xr-x; uid 929 (smith); gid 45 (student)  
 st\_Fstype: xfs

change time - ……  
 access time - ………  
 modify time - ………

s2: inode 68013061; dev 50331652; links 2; size 18

regular; mode is rw-r—r--; uid 929 (smith); gid 45 (students)  
 st\_fstype: xfs