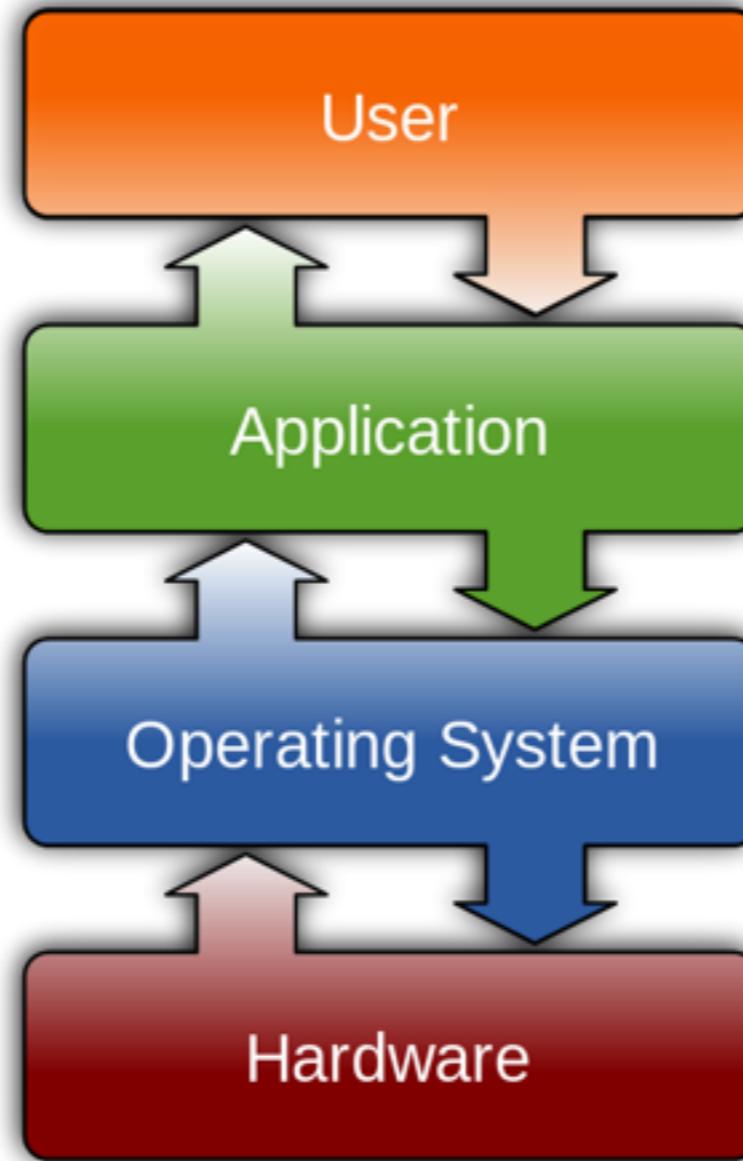


Lecture 2: The Environment

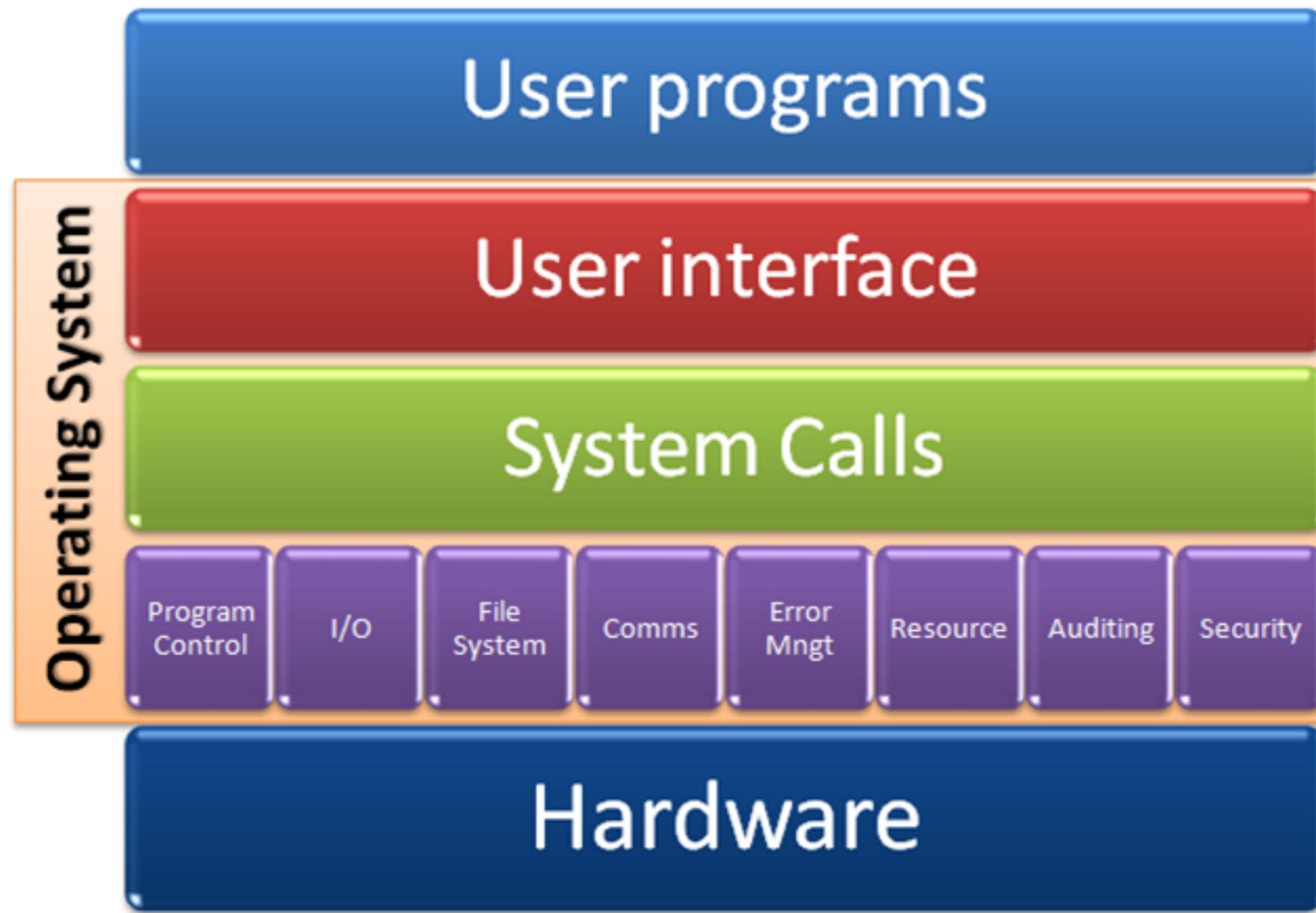
CSCI 135: Diving into the Deluge of Data



Computing Stack



Operating System

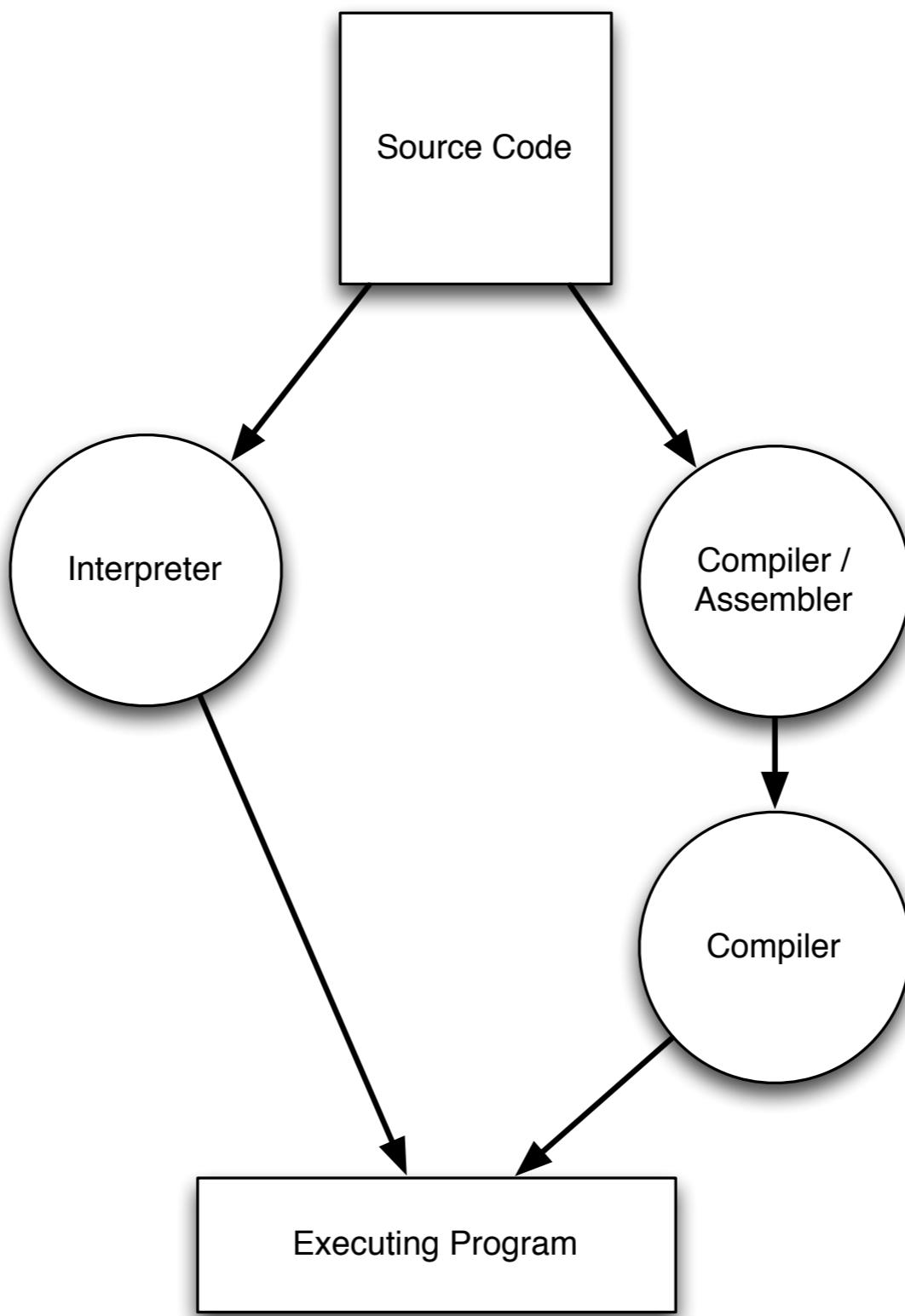


Operating System Functions

- Manage Resources
- Resource Abstraction

```
/dev/block/platform/sdhci-tegra.3/by-name/system  
    241888  197864  44024  82% /system  
/dev/block/platform/sdhci-tegra.3/by-name/userdata  
    30182852 1241724 28941128  4% /data  
/dev/block/platform/sdhci-tegra.3/by-name/cache  
    170320   4260  166060  3% /cache  
/dev/block/platform/sdhci-tegra.3/by-name/pdsb  
    1976     106   1870  5% /pds  
/dev/fuse          30182852 1241724 28941128  4% /mnt/sdcard  
/ $ ll  
drwxr-xr-x  14 root  root  0 Mar 18 14:14 .  
drwxr-xr-x  14 root  root  0 Mar 18 14:14 ..  
drwxr-xr-x  3 root  root  0 Mar 18 14:14 acct  
drwxrwx---  4 system  cache  4096 Mar 30 14:20 cache  
dr-x-----  2 root  root  0 Mar 18 14:14 config  
lrwxrwxrwx  1 root  root  17 Mar 18 14:14 d -> /sys/kernel/debug  
drwxrwx--x  18 system  system  4096 Mar 16 17:39 data  
-rw-r--r--  1 root  root  118 Dec 31 1969 default.prop  
drwxr-xr-x  11 root  root  2280 Mar 30 18:50 dev  
lrwxrwxrwx  1 root  root  11 Mar 18 14:14 etc -> /system/etc  
-rwxr-x---  1 root  root  94344 Dec 31 1969 init  
-rwxr-x---  1 root  root  2210 Dec 31 1969 init.goldfish.rc  
-rwxr-x---  1 root  root  9299 Dec 31 1969 init.olympus.rc  
-rwxr-x---  1 root  root  15379 Dec 31 1969 init.rc  
-rwxr-x---  1 root  root  9299 Dec 31 1969 init.stingray.rc  
drwxrwxr-x  6 root  system  0 Mar 18 14:14 mnt  
drwxr-xr-x  9 root  root  2048 Feb 14 12:55 pds  
dr-xr-xr-x  152 root  root  0 Dec 31 1969 proc  
drwx-----  2 root  root  0 Feb  7 15:23 root  
drwxr-x---  2 root  root  0 Dec 31 1969 sbin  
lrwxrwxrwx  1 root  root  11 Mar 18 14:14 sdcard -> /mnt/sdcard  
drwxr-xr-x  12 root  root  0 Mar 18 14:14 sys  
drwxr-xr-x  13 root  root  4096 Mar 12 13:16 system  
-rw-r--r--  1 root  root  221 Dec 31 1969 ueventd.goldfish.rc  
-rw-r--r--  1 root  root  629 Dec 31 1969 ueventd.olympus.rc  
-rw-r--r--  1 root  root  3707 Dec 31 1969 ueventd.rc  
-rw-r--r--  1 root  root  629 Dec 31 1969 ueventd.stingray.rc  
lrwxrwxrwx  1 root  root  14 Mar 18 14:14 vendor -> /system/vendor  
/ $ █  
  
[Navigation icons] [Status icons] 6:55 [Battery icon]  
  
[Navigation icons] [Status icons] E:22 [Battery icon]
```

The Terminal and the Shell



Compiled vs. Interpreted