Syscall traces
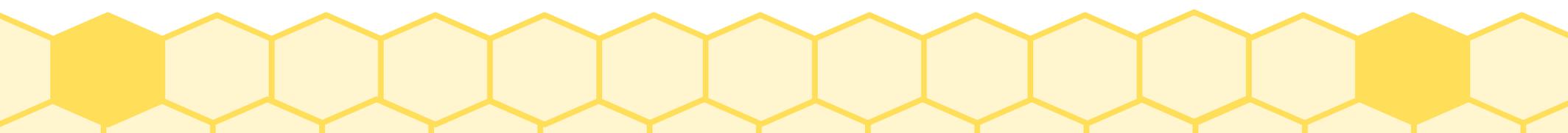
CSE 536 Spring 2026
jedimaestro@asu.edu

```
ubuntu@ubuntu:~$ echo $$
1200
ubuntu@ubuntu:~$ _
```

```
ubuntu@ubuntu:~$ sudo strace -p 1200 -f -o /tmp/st.txt
```

```
ubuntu@ubuntu:~$ echo $$
1200
ubuntu@ubuntu:~$ ps aux | sort | head -n 5
message+     660  0.0  0.2   9780  5608 ?          Ss    21:50   0:00 @dbus-daemon
--system --address=systemd: --nofork --nopidfile --systemd-activation --syslog-o
nly
polkitd      669  0.0  0.4 308164  8104 ?          Ssl   21:50   0:00 /usr/lib/polk
it-1/polkitd --no-debug
root          10  0.0  0.0      0     0 ?          I<    21:50   0:00 [kworker/0:0H
-events_highpri]
root        1013  0.0  0.0      0     0 ?          I     21:50   0:00 [kworker/0:4]
root           1  0.7  0.6  22060 13236 ?          Ss    21:50   0:01 /sbin/init
ubuntu@ubuntu:~$ _
```

```
ubuntu@ubuntu:~$ echo "hello there" > /tmp/afile.txt; cat /tmp/afile.txt
hello there
ubuntu@ubuntu:~$
```

```
werewolves (Snapshot 1) [Running] - Oracle VirtualBox
```
```
ubuntu@ubuntu:~$ mkfifo /tmp/mynamedpipe; cat /tmp/mynamedpipe & sleep 10; echo
"a message" > /tmp/mynamedpipe
[1] 1382
ubuntu@ubuntu:~$ a message
```

```
ubuntu@ubuntu:~$ mkfifo /tmp/mynamedpipe; cat /tmp/mynamedpipe & sleep 10; echo
"a message" > /tmp/mynamedpipe
[1] 1382
ubuntu@ubuntu:~$ a message

[1]+  Done                    cat /tmp/mynamedpipe
ubuntu@ubuntu:~$
ubuntu@ubuntu:~$
```

```
ubuntu@ubuntu:~$ mkfifo /tmp/mynamedpipe; cat /tmp/mynamedpipe & sleep 10; echo
"a message" > /tmp/mynamedpipe
[1] 1415
a message
[1]+  Done                    cat /tmp/mynamedpipe
ubuntu@ubuntu:~$
ubuntu@ubuntu:~$
ubuntu@ubuntu:~$
ubuntu@ubuntu:~$ _
```

```
ubuntu@ubuntu:~$ man 2 pipe
```

NAME
       pipe, pipe2 - create pipe

LIBRARY
       Standard C library (libc, -lc)

SYNOPSIS
       #include <unistd.h>

       int pipe(int pipefd[2]);

       #define _GNU_SOURCE   /* See feature_test_macros(7) */
       #include <fcntl.h>   /* Definition of O_* constants */
       #include <unistd.h>

       int pipe2(int pipefd[2], int flags);

       /* On Alpha, IA-64, MIPS, SuperH, and SPARC/SPARC64, pipe() has the
           following prototype; see VERSIONS */

       #include <unistd.h>

Manual page pipe(2) line 1 (press h for help or q to quit)