Deliverable for system calls

Wednesday, November 1, 2023   1:48 PM

Info:

```
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ ./info
-bash: ./info: No such file or directory
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ make info
gcc -Wall -Werror info.c -o info -lncurses
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ ./info
Current time in nanoseconds: 452455135
system network name: MSOE-PF3TRG1H
Operating system name: Linux
Operating system release and version: 5.15.90.1-microsoft-standard-WSL2
System hardware type: x86_64
Number of CPU's on the system: 8
Total amount of physical memory in bytes: 8185118720
Total amount of free memory in bytes: 6935007232
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$
```

pinfo:

```
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ ./pinfo 1
PID: 1
Process priority: 0
Scheduling method: SCHED_OTHER
```

```
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ ./pinfo 0
This PID does not exist: 0
```

```
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ ./pinfo 20
PID: 20
Error with priority, exiting
```

```
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ make pinfo
gcc -Wall -Werror pinfo.c -o pinfo -lncurses
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ ./pinfo
Current pid: 25538
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$
```

Pmod:

```
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ make pmod
gcc -Wall -Werror pmod.c -o pmod -lncurses
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ ./pmod
BYE!
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$
```

- The following delayed by the specified nsec specified.

Finfo:

```
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ make finfo
gcc -Wall -Werror finfo.c -o finfo -lncurses
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ ./finfo labWeek5.pdf
File type: This file is a regular file
Permissions: rw-rw-r--
file owner: 1000
File size in bytes: 222250
Last time modified: 23-10-13
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$
```

```
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ ./finfo doesntexist.pdf
File does not exist, provide existing file
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$
```

```
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$ valgrind ./finfo labWeek5.pdf
==25641== Memcheck, a memory error detector
==25641== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==25641== Using Valgrind-3.18.1 and LibVEX; rerun with -h for copyright info
==25641== Command: ./finfo labWeek5.pdf
==25641==
File type: This file is a regular file
Permissions: rw-rw-r--
file owner: 1000
File size in bytes: 222250
Last time modified: 23-10-13
==25641==
==25641== HEAP SUMMARY:
==25641==     in use at exit: 0 bytes in 0 blocks
==25641==   total heap usage: 11 allocs, 11 frees, 7,962 bytes allocated
==25641==
==25641== All heap blocks were freed -- no leaks are possible
==25641==
==25641== For lists of detected and suppressed errors, rerun with: -s
==25641== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
halek@MSOE-PF3TRG1H:~/CPE2600/Labweek5$
```