

10/29/15 Pre-Class Work

* Required

Harvard email address: *

Please indicate which course you are taking. *

- CS61 (College)
 CSCIE-61 (Extension)

Signals

All signals can be blocked *

- True
 False

All signals can be ignored *

- True
 False

We use the signal system call to send signals to another process. *

- True
 False

Code sample A

```
sigset_t set;  
  
sigemptyset(&set);  
sigaddset(&set, SIGHUP);  
  
sigprocmask(SIG_BLOCK, &set, NULL);  
sigdelset(&set, SIGHUP);  
sigaddset(&set, SIGCONT);  
sigprocmask(SIG_BLOCK, &set, NULL);
```

The sequence of calls in code sample A will leave the signals in what state? *

- No signals blocked
- SIGHUP blocked
- SIGCONT blocked
- Both SIGHUP and SIGCONT blocked

Code sample B

```
sigset_t set;
```

```
sigemptyset(&set);
sigaddset(&set, SIGHUP);
```

```
sigprocmask(SIG_BLOCK, &set, NULL);
sigdelset(&set, SIGHUP);
sigaddset(&set, SIGCONT);
sigprocmask(SIG_MASK, &set, NULL);
```

*Should be
SIG_SETMASK*

The sequence of calls in code sample B will leave the signals in what state? *

- No signals blocked
- SIGHUP blocked
- SIGCONT blocked
- Both SIGHUP and SIGCONT blocked

Which of the following are probably fine things to do in a signal handler. *

- Sleep
- Call malloc
- Call printf
- Examine a variable
- Unblock signals
- Write a global variable
- Install a new signal handler

*write is OK, but
not printf.*

*these
are OK -
I misspoke
in class.*

*google:
"man 7 signal"
for a list of
safe calls.*

Blocking and Polling

Polling can be a superior solution to blocking when: *

Check all that apply

- The process needing to block has other work it needs to get done.
- The condition is easy to check
- The event⁺ for which we want to wait won't happen for a long time
- Blocking will take more time than the event for which we're waiting
-

Achieving 100% utilization is always a good thing *

- True
- False

waitpid can be used in either blocking or polling modes *

- True
- False

waitpid can return EINTR *

- True
- False

→ returns -1
and can set errno
to EINTR

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