



Lab 23.2: Monitoring Process States

1. Use **dd** to start a background process which reads from `/dev/urandom` and writes to `/dev/null`.
2. Check the process state. What should it be?
3. Bring the process to the foreground using the **fg** command. Then hit **Ctrl-Z**. What does this do? Look at the process state again, what is it?
4. Run the **jobs** program. What does it tell you?
5. Bring the job back to the foreground, then terminate it using **kill** from another window.

Solution 23.2

1. `$ dd if=/dev/urandom of=/dev/null &`

2. `$ ps -C dd -o pid,cmd,stat`
`25899 dd if=/dev/urandom of=/dev/ R`

Should be S or R.

3. `$ fg`
`$ ^Z`
`$ ps -C dd -o pid,cmd,stat`
`PID CMD STAT`
`25899 dd if=/dev/urandom of=/dev/ T`

State should be T.

4. Type the **jobs** command. What does it tell you?

```
$ jobs
[1]+  Stopped                  dd if=/dev/urandom of=/dev/null
```

5. Bring the job back to the foreground, then kill it using the **kill** command from another window.

```
$ fg
$ kill 25899
```