

```
vagrant@ubuntu2210:~/final_exam$ man journalctl
vagrant@ubuntu2210:~/final_exam$ |
```

```
melody@melody:~/ssn$ cd
melody@melody:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologinsystemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105:nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111:home/syslog:/usr/sbin/nologin
_apt:x:105:65534:nonexistent:/usr/sbin/nologin
uidd:x:106:112:run/uidd:/usr/sbin/nologin
tcpdump:x:107:113:nonexistent:/usr/sbin/nologin
melody:x:1000:1000:home/melody:/bin/bash
web-one:x:1001:1001:home/web-one:/bin/sh
arch-linux:x:1002:1002:home/arch-linux:/bin/sh
melody@melody:~$ |
```

## --list-boots

Show a tabular list of boot numbers (relative to the **current** boot), their IDs, and the timestamps of the first and last message pertaining to the boot.

## ENVIRONMENT

### \$SYSTEMD\_LOG\_LEVEL

The maximum log level of emitted messages (messages with a higher log level, i.e. less important ones, will be suppressed). Either one of (in order of decreasing importance) **emerg**, **alert**, **crit**, **err**, **warning**, **notice**, **info**, **debug**, or an integer in the range 0...7. See `syslog(3)` for more information.

### **json**-pretty

formats entries as **JSON** data structures, but formats them in multiple lines in order to make them more readable by humans.

#### Part 4

```
#!/bin/bash

n=0
cat user_list | while read name; do
    grep_output=$(grep "$name" /etc/passwd)
    if [ -z "$grep_output" ]; then
        echo useradd -u $((5000+n++)) -g system_user -c "Regular User" \
            "$name"
    fi
done
~
~
~
~
~
~
```

```
vagrant@ubuntu2210:~$ systemctl cat man-db.timer
# /lib/systemd/system/man-db.timer
[Unit]
Description=Daily man-db regeneration
Documentation=man:mandb(8)

[Timer]
OnCalendar=daily
RandomizedDelaySec=12h
Persistent=true

[Install]
WantedBy=timers.target
```