

The GNOME™ Conference GUADEC

Battery Bench: Bring battery testing
back to the future

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About me

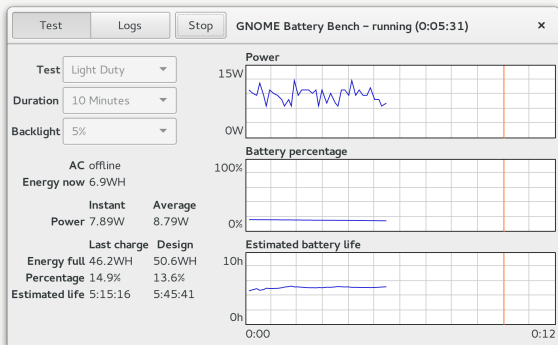
- 👣 BSc in Computer Science and Business Management
- 👣 MSc in Intelligent Systems
- 👣 MBA in International Businesses
- 👣 MBA in Financial Audit
- 👣 PhD Student in Business, Internet and ICT at ULPGC
- 👣 GSoC 2017 contributing to wxWidgets



About the project

gnome-battery-bench is a battery testing software.

You can run and develop tests in order to check how they impact on battery life.



Project main objective

Improve laptops battery performance on GNOME future versions.

Summer main milestones:

- 👉 Port project to Wayland (using libevdev instead of X11).
- 👉 Solve issues on bugtracker.

How to check out the project?

```
git clone \  
https://gitlab.gnome.org/GNOME/gnome-battery-bench.git
```

How libevdev works?

```
struct libevdev *dev = NULL;
int fd = open("/dev/input/event0", O_RDONLY|O_NONBLOCK);
int rc = libevdev_new_from_fd(fd, &dev);
# Error checking

do {
    struct input_event ev;
    rc = libevdev_next_event(dev,
        LIBEVDEV_READ_FLAG_NORMAL, &ev);
    if (rc == 0)
        printf("Event: %s %s %d\n",
            libevdev_event_type_get_name(ev.type),
            libevdev_event_code_get_name(ev.type, ev.code),
            ev.value);
} while (rc == 1 || rc == 0 || rc == -EAGAIN);
```

Questions?

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👉 My LinkedIn:

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👉 Project blog: batterybenchgsoc2020.wordpress.com