Breaking the World

Debugging EFL/Enlightenment Wayland

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Agenda

- Compiling EFL for Wayland
- Running EFL applications in Weston
- Debugging EFL applications in Weston
- Compiling Enlightenment Wayland
- Running Enlightenment Wayland
- Debugging Enlightenment Wayland
- Submitting bug reports
Compiling EFL for Wayland
Compiling EFL for Wayland

- Various compile time options to consider
  - --enable-wayland (required)
  - --enable-egl, --with-opengl=es
  - --enable-drm, --enable-gl-drm
  - --enable-systemd (required)
  - --enable-libinput (required)
  - --enable-elput (soon to be required)
Compiling EFL for Wayland (cont)

- 30 minute coffee break while compiling

ONE DOES NOT SIMPLY

HAVE A COFFEE BREAK WITHOUT SOME BULLSHIT STORY
Running EFL applications in Weston
Running EFL applications

• Environment Variables
  - ELM_DISPLAY=wl
  - ELM_ACCEL=none, opengl

• Starting Weston
  - Do I really need to explain this ??

• Starting EFL Application
  - terminology, elementary_test, etc
Running EFL applications (cont)
Debugging EFL applications in Weston
Debugging EFL applications

• Starting Weston Terminal
  – weston-terminal

• Running EFL applications in GDB
  – gdb terminology

• Debugging EFL applications
  – gdb bt
Compiling Enlightenment
Wayland
Compiling Enlightenment Wayland

• Various compile time options to consider
  - --enable-wayland, --enable-wayland-egl
  - --enable-wl-x11, --enable-wl-drm
  - --enable-wl-desktop-shell
  - --enable-wl-text-input (not explicitly required to enable)
  - --enable-wl-weekkeyboard
  - --enable-xwayland
Running Enlightenment
Wayland
Running Enlightenment Wayland

- Environment Variables
  - E_COMP_ENGINE=sw, gl
- Executing Enlightenment Wayland
  - dbus-launch enlightenment_start
- Watch the world break
Debugging Enlightenment
Wayland
Debugging Enlightenment Wayland

- coredumpctl gdb <pid>
- ssh from another box
- Detaching enlightenment_start
  - kill -SIGUSR1 enlightenment_start
- Gdb
  - gdb attach <pid>
  - gdb bt
- Running with valgrind
  - enlightenment_start -valgrind=1 -valgrind-log-file=<my_log_file>
Submitting bug reports
Bug Reports

Bugs ? What Bugs ??

“IF YOU HAVE 4 PENCILS AND 7 APPLES,
HOW MANY PANCAKES WILL FIT ON THE ROOF?
PURPLE. BECAUSE ALIENS DON’T WEAR HATS.”
Submitting bug reports

• Anatomy for a good report
  – Descriptive summaries
    • Be as detailed as possible and include steps to reproduce, what the expected outcome was, that the actual outcome was
  – Version of the software
    • What version of efl/enlightenment
    • Kernel version, etc
  – Relevant system information
    • Cpu vendor, gpu vendor, driver versions
  – Single bug report per issue
    • Don’t combine two problems into one
Submitting bug reports (cont)

- Filing a good report
  - [https://phab.enlightenment.org/](https://phab.enlightenment.org/)
  - Title: Brief description of the bug
  - Priority: High, Normal, Trivial, Wishlist
  - Description: No such thing as too much information
  - Tags: What project does this bug affect
  - Attachments: Screenshots, backtraces, etc
Demos ?
Thank You!