FreeBSD graphics

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team
the graphics stack
challenges
future
small team
use github
multiple repositories
github.com/FreeBSDDesktop
~300 ports
ports infrastructure
drivers
core libraries
X servers
wayland
applications
legacy driver in base
complete port
comparable to Linux 3.8
planned removal in FreeBSD 13
replaced by drm-legacy-kmod
avoid conflicting drivers
new drivers in ports
uses Linux kpi (lkpi)
amd64 tier1
i386 and ppc64 secondary
multiple versions

meta port: graphics/drm-kmod

available in FreeBSD 11.2 and 12.0
libraries
mesa – OpenGL
libdrm
xorg libraries
X server
X server

out of date
ddx drivers
modesetting
focus upstream
support in default packages
up to date
sway available

evdev support needed in kernel

needs more testing
getting started
install FreeBSD

# pkg install xorg

# pkg install drm-kmod

follow the instructions

$ startx
challenges
testing
build time
developer bandwidth
future
input devices
drm-legacy
autoloading
more architectures
Network Manager
Power Management
Wi-Fi Support
summary
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