etnaviv status update

whoami

Christian Gmeiner

Long term etnaviv developer

agenda

History

State

CI

Future

History

History

2012: Wladimir J. van der Laan started

2013 Okt: I contributed the first patch

2014 Feb: got basic stuff working on GC2000

History

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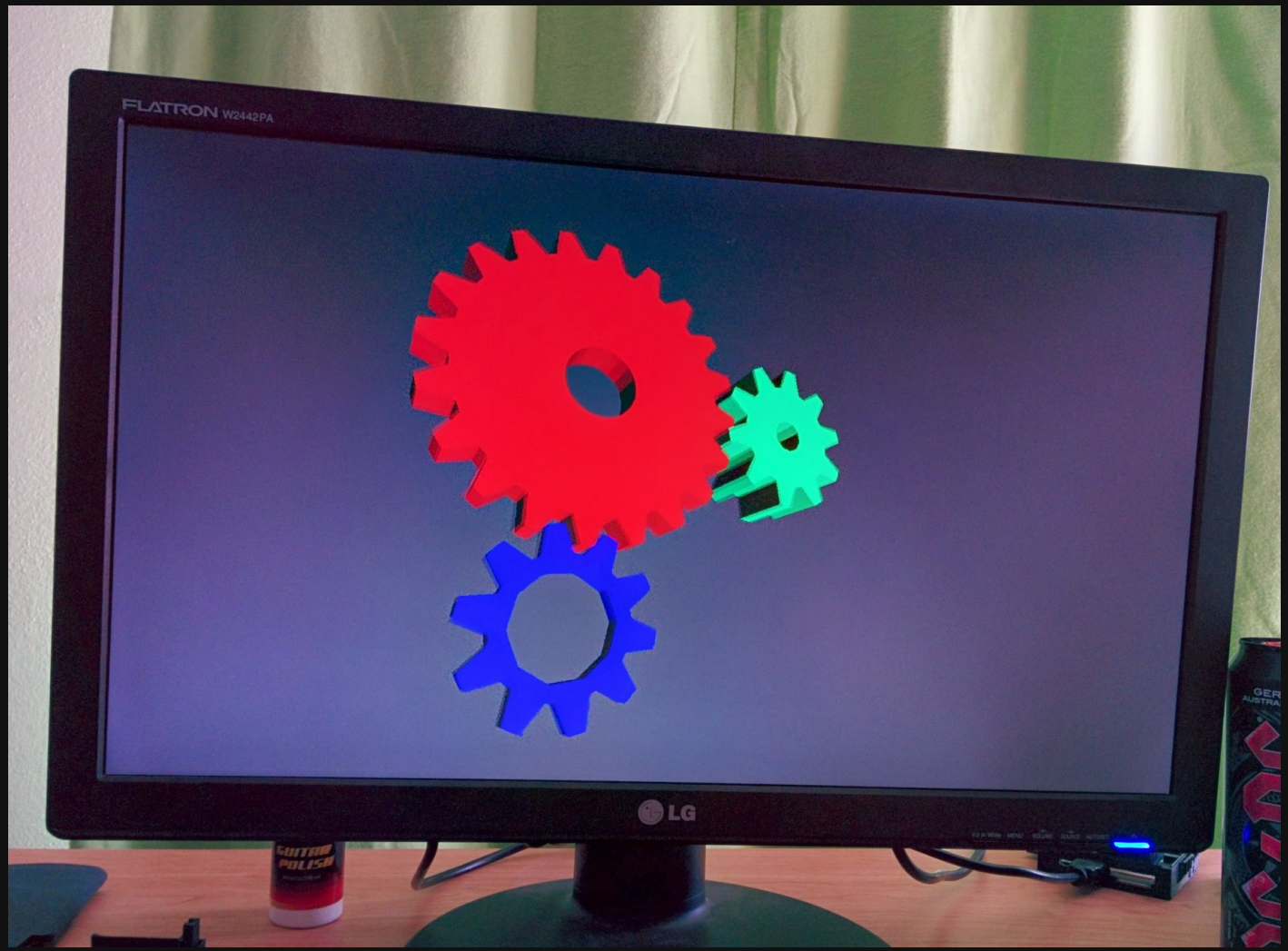

History

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2013 Okt: I contributed the first patch

2014 Feb: I got basic stuff working on GC2000

2014: devs started to look into own kernel driver

2015 Dez: etnaviv driver landed in the kernel (4.4)

2017 Feb: etnaviv driver landed in mesa 17.0

State

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Supported GPUs

- GC600 (STMicroelectronics STM32MP157C)
- GC860 (Ingenic JZ4770 MIPS: GCW Zero)
- GC880 (Freescale i.MX 6 DualLite)
- GC2000 (Freescale i.MX 6 Quad)
- GC3000 (Freescale i.MX 6 Quad Plus)
- GC7000L (Freescale i.MX 8 M)

and many more...

State

GLES 2 driver

Desktop GL 1.3 or 2.0 with NIR

TGSI preferred over NIR

Shipped with distros

not that many developers - sadly

it works mostly

State

glmark2 results

imx6q:
  binary: 239.1 etnaviv: 226.5 95%

imx6qp:
  binary: 373.8 etnaviv: 384.8 103%

imx8m:
  binary: 570.0 etnaviv: 625.6 110%

CI

more testing for patches is needed

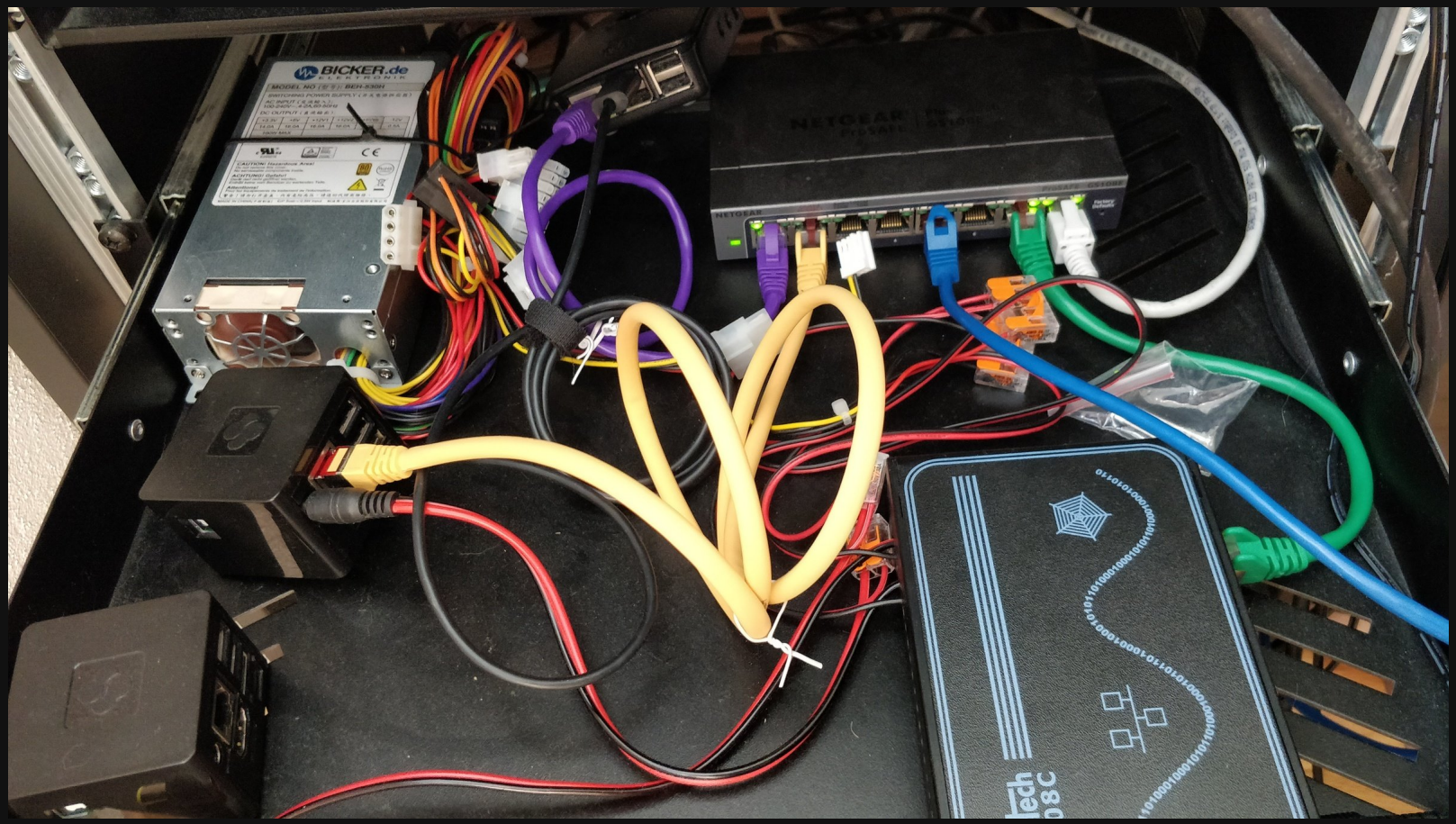
baremetal based

unraid based NAS for gitlab-runner

ser2net for console logging (rpi)

eth based power control

CI



CI

what is missing to go live?

disk shader cache

vlan setup

getting it a little bit more stable

hook up some more devices

Future

Future

NIR

GLES3 support

fixing broken stuff on different GPUs

and much more

Thank you!