

etnaviv: The wonderful world of performance counters

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Performance counter are somewhat special on Vivante GPUs. It is not possible to read them via cmd stream but only from the CPU/kernel. This needs some extra work in the kernel and the user space.

The final goal is to have per-draw performance counter values for detailed analysis of performance problems and a way to sample performance counters in a cyclic way for perfetto or some kind of gpu-top tool. GPU load values are also quite special and might be of interest. Overall there is quite some work to be done to get it up and running.

I would talk about the problems and the solutions I came up with.

GSoC, EVoC or Outreachy

No

Code of Conduct

Yes

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Session Classification: Main Track

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