# AMD/Intel Linux Graphics and Performance

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- **[Another Navi 14 Workstation GPU Patch Turns Up For "Pro-XLM"](#)** [2]

  Yesterday we reported on two Navi 14 device IDs being added for "workstation SKUs" while today a third has appeared.

  Yesterday were 0x7341 and 0x7347 being added for the AMDGPU driver as Navi 14 parts and the patch message acknowledging they are for workstation parts. To date AMD has not announced any Navi-based workstation products. The Navi 14 GPU is widely believed to be a low-end GPU akin to a Polaris successor and competing with NVIDIA's GeForce GTX 1600 Turing series. This is while AMD continues to evolve Vega for workstation/compute purposes too.

- **[Intel's Gallium3D Driver Gains Optimization For Helping With Java OpenGL Performance](#)** [3]

  In our recent Mesa 19.2 benchmarks of Intel's old and new (Gallium3D) OpenGL Linux drivers one of the rare areas where the new "Iris" driver performed behind the classic driver was with "j2dbench" that stresses the Java OpenGL pipeline. At the time it was unknown why the new driver was performing subpar for this Java graphics test, but now at least there's one optimization so far in addressing that shortcoming.

- **[AMD Linux Improvements Pending Around FreeSync Low Frame Rate Compensation](#)** [4]

  Sadly too late for the upcoming Linux 5.4 merge window, but for Linux 5.5 it looks like there will be a FreeSync improvement around low-frame-rate compensation.

Sent out this morning were 25 new AMDGPU DC patches. Of these "display core" patches, there are various fixes and continued work on the Adaptive Backlight Management (ABM) but exciting us the most is the FreeSync work.

- **The Intel SVT-VP9 Performance Boost Across 10 Intel/AMD Systems**[5]

  As a follow-up from this weekend's article about Intel's SVT-VP9 video encoder running much faster on AVX2 CPUs from both Intel and AMD, here are the results now before/after for ten different systems with this open-source CPU-based VP9 video encoder.

Graphics/Benchmarks

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