AMD, NVIDIA and Devices

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- **Linux 5.7 Seeing Radeon FreeSync Fixes, Back-Ported Soft Recovery For Navi**

  While yesterday GFX10/Navi soft recovery support was sent in to DRM-Next for Linux 5.8, today that material was sent in as a "fix" for Linux 5.7 along with a number of other AMDGPU driver alterations.

  The GFX10/Navi soft recovery is similar to what was already wired up for GFX9/Vega and allows for killing the waves for hung shaders as opposed to the existing GPU reset functionality already in place. This soft recovery support will help improve the experience ideally should any problems be encountered with shaders as opposed to needing a full GPU reset.

- **AMDVLK 2020.Q2.3 Released With New Extension, Various Fixes**

  AMDVLK 2020.Q2.3 was released today as the newest version of this official open-source AMD Radeon Vulkan driver for Linux systems.

  This AMDVLK driver update now supports VK_EXT_pipeline_creation_cache_control, which allows for obtaining information on potentially expensive hazards during pipeline creation before-hand.

  The AMDVLK 2020.Q2.3 driver also removes a workaround and a botched optimization, provides a new optimization, and other changes.

- **NVIDIA Jetson Xavier NX Developer Kit Preview**
Originally slated for the NVIDIA GTC event but then delayed due to the coronavirus, the Jetson Xavier NX Developer Kit is launching today for "cloud native computing" on edge/AI devices.


Earlier this year, Taiwan based DFI launched GHF51 Ryzen Embedded R1000 SBC offering some similarities with Raspberry Pi 4 SBC, including a business card form factor, two Micro HDMI ports, and Gigabit Ethernet. But the comparison stopped there, as DFI GHF51 board will vastly outperform the Raspberry Pi 4 boards both in terms of CPU and graphics performance due to AMD Ryzen processor, and DFI embedded board does not target hobbyists nor students, but instead business and industrial customers.

**Raima and MontaVista Announce Strategic Partnership** [6]

Raima Inc., a premium provider of embedded database technology, and MontaVista Software, LLC, a leader in commercial Embedded Linux products and services announce a strategic partnership offering a collaborative feature-rich and optimized platform for embedded and IoT developers. As part of this partnership, Raima Database Manager (RDM) extends support to Embedded Linux platforms with MontaVista's latest Linux Carrier Grade eXpress (CGX) commercial distribution.

Market demands for Embedded Linux distributions is growing rapidly in IoT edge applications where often a vast amount of data needs to be securely stored, sorted and managed. To gain market share, companies need a robust and secure embedded platform with an integrated real-time transactional database to accelerate development and deployment of IoT edge gateways and solutions. Raima and MontaVista now offer this comprehensive IoT platform, combining both the embedded Raima Database Manager with the carrier grade quality of CGX.

**Hardware**

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