Cellular technologies influence OHV telematics

Abhishek Budholiya, Future Market Insights

Wireless data communications can be effectively integrated with the interdisciplinary mechanism within current automobile telematics systems. The influence of wireless or radio-based communication technologies is seeing further use in off-highway vehicle (OHV) telematics, compared to on-road vehicles. The efficiency of OHV telematics is contingent upon the specific technologies used, which can span multiple domains, such as telecomm, transportation, electrical engineering, and computer science. OHV telematics also covers vehicular technologies, sensors, instrumentation design, and multimedia. Nevertheless, technologies that facilitate wireless data communication play a key… **Continued...**

Rugged Reliable Flash Storage for Embedded OEM Systems
Cactus Technology offers a wide range of Industrial to Commercial Grade flash storage to meet any OEM's requirements.

The Embedded Experts Podcast: Where have all the OS vendors gone?

Rich Nass, Embedded Computing Brand Director *and* Brandon Lewis, Technology Editor

On this week's podcast with the Embedded Experts, Rich Nass and Brandon Lewis, we look at the semi-shakeup in the world of operating systems. There's been some acquisition and there's been some realignment. Security is in vogue and "real time" is, well, not necessarily real time. And then there's open source. Let us know if you agree with our opinions.

Zinn: What's better, high volume or high margin?

Rich Nass, Embedded Computing Brand Director

Generally, semiconductor makers fall into one of two camps: high-volume, low-margin products, or low-volume, high-margin products. The proponents of each style would likely argue that their mentality is the right way to go. Ray Zinn, who has scores of experience on both sides of this equation, weighs in with which way he thinks is best. **Continued...**

Patching up Linux for real-time applications: Origins and impacts on IoT

Brandon Lewis, Technology Editor

A pioneer of embedded operating systems (OSs), Jim Ready is not only credited with the creation of one of the first commercially available real-time operating systems (RTOSs), the Virtual Real-Time Executive, under his guidance MontaVista helped pave the way for the use of Linux in embedded devices in the early 2000s. Now an independent consultant, Ready reflects on how early work in embedded Linux that prompted modern mobile OSs like Android also branched into more deeply embedded applications through the advent of capabilities such as the Realtime Preemption (RT-Preempt) patch, and how that evolution could ultimately impact the software hierarchy in the Internet of Things (IoT).

You'll likely find the HSA software and toolchains quite useful and timeless

Paul Blinzer, Fellow, AMD, Chairperson, System Architecture Workgroup of the HSA Foundation

Many people talk about hardware architecture as if it's the most important part of a new platform. It's true that hardware architecture is important for performance, which was discussed at length in a previous blog post . As a refresher, the pillars of the Heterogeneous System Architecture (HSA) are unified and shared virtual memory user-mode dispatch, platform atomics, architected signals, strict memory model, quality of service, and cache coherency. However, including these features into the platform architecture is not for their own sake; it… **Continued...**

Bluetooth and market trends in mesh networking

Brandon Lewis, Technology Editor

Of all the design decisions associated with an Internet of Things (IoT) deployment, the most fundamental is the choice of network architecture. Particularly when dealing with wireless machine-to-machine (M2M) communications, the selection of an appropriate network topology has significant ramifications on the cost, power consumption, and bandwidth requirements of the devices and infrastructure that comprise these networks, and thus contributes considerably to the success or failure of connected products.

Asset monitoring improves product quality and energy efficiency in the cold chain

Jamie Leland, Content Assistant

The cold chain is the temperature controlled supply chain that brings us precious commodities like fresh food and medical supplies that require refrigeration during production, transit, and storage. Failure in this machine-rich infrastructure means service interruption and product loss, which is not only expensive, but lamentable, considering the importance of the product itself. For example, a third of the world's food goes to waste, and much of that can be attributed to improper refrigeration in transit. Fortunately, that risk can be mitigated and efficiency… **Continued...**

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