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Famfs Update: Status, DAX Challenges & Use Cases

Famfs (the Fabric-Attached Memory File System) formats device memory into a scale-out file systems.
With large memory appliances now in early deployment, accessing multi-terabyte memory objects as files (with POSIX permissions) is proving valuable.

Famfs is progressing toward upstreaming, while navigating challenges from the recent DAX subsystem refactoring.
As the first file system fully hosted on **devdax (character dax)**, famfs is blazing a trail of sorts.

Meanwhile, famfs is already in use worldwide for data-intensive workloads needing in-memory performance.

Talk Highlights

- Upstreaming status and roadmap
- File-system-level memory interleaving status
- Current DAX issues & roadblocks (a moving target as of Sep 2025)
- Composable memory perspective
- Key use cases

As author of famfs, co-chair of the CXL Consortium Software & Systems WG, and contributor to the CXL specification (including DCD), I will share a first-hand view of the technology and its use cases.

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