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## The future of AFS family file systems in research computing

*Thursday 20 October 2016 09:55 (25 minutes)*

Since the introduction of Transarc AFS in 1991, the AFS family of file systems have played a role in research computing around the globe.

This talk will discuss the resurgence in development of the AFS family of file systems. A summary of recent development for several family members will be presented including:

- AuriStor File System suite of clients and servers
- kAFS, the Linux in-tree client and the associated AF\_RXRPC socket interface
- OpenAFS clients and servers

The talk will describe the potential uses of the /afs file namespace as a persistent storage solution for Containers.

Finally, the talk will discuss the Tennessee Open Research storage Cloud (TORC) proposal that was submitted to the U.S. National Science Foundation for funding as part of the Cyber Infrastructure initiative. If funded, TORC will provide a wide-area, high-performance and interoperable storage infrastructure designed for scalable, multi-level federation under cooperative management. TORC will combine the global, federated /afs file namespace and the multi-level security and privacy provided by the AuriStor File System with the high performance, scalability and reliability of L-Store and the Internet Backplane Protocol.

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