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FSCQ is a certified file system written and proven in Coq

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FSCQ

FSCQ is a file system written and verified in the Coq proof assistant.

Unmaintained research prototype

Warning: the FSCQ software is not maintained. FSCQ's core is verified in Coq, but FSCQ also includes components written in Haskell for interacting with FUSE, and depends on FUSE and Haskell bindings for FUSE, none of which are verified. The unverified portions are likely to have bugs, and we do not recommend that anyone use the FSCQ research prototype in practice.

Although the overall software is not maintained, we would be interested in hearing from others that discover issues with the verified portions of FSCQ.