Technical discussion

The technical discussion is divided into several major areas:

- Concepts
- : reviewing a few crucial concepts from Computer Science
- Why blockchain?
- : offering a mental model for the value of decentralized shared global state
- Why Monad: decentralization + performance
- : summarizing some of the existing bottlenecks in maintaining shared global state in Ethereum, and how Monad addresses them
- Consensus
- : a summary of the novel aspects of Monad's mempool and consensus layers
- Execution
- : a summary of how transactions are executed in Monad, as well as how state is stored
- Transaction lifecycle
- : a walkthrough of the lifecycle of a transaction
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Monad enables pipelining and optimization in four major areas to enable exceptional Ethereum Virtual Machine performance and materially advance the decentralization/scalability tradeoff. If you'd like to focus on those areas, please see the relevant pages below:

- MonadBFT
- : pipelined HotStuff consensus with additional research improvements
- Deferred Execution
- : consensus-execution staging
- Parallel Execution
- MonadDb
- : high-performance state backend for merkle trie storage
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Previous Monad for developers Next Concepts Last updated5 months ago

On this page