Introduction

Monad is a high-performance Ethereum-compatible L1. Monad materially advances the efficient frontier in the tradeoff between decentralization and scalability.

Monad introduces optimizations in four major areas, resulting in a blockchain with throughput of 10,000 transactions per second (tps):

- MonadBFT
- Deferred Execution
- Parallel Execution
- MonadDb
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Monad's improvements address existing bottlenecks while preserving seamless compatibility for application developers (full EVM bytecode compatibility) and users (Ethereum RPC API compatibility). As a result, the rich landscape of Ethereum tooling and applied cryptography research can plug seamlessly into Monad while benefiting from improved throughput and scale:

- applications (any dapp built for Ethereum)
- developer tooling (e.g. Hardhat, Apeworx, Foundry)
- wallets (e.g. MetaMask)
- analytics/indexing (e.g. Etherscan, Dune)
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The Monad client is built with a focus on performance and is written from scratch in C++ and Rust. The subsequent pages survey the major changes in Monad as well as the interface for users.

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