



Solana vs Sui vs Base: The Speed War Heating Up in 2026

Summary

Solana, Sui, and Base are leading fast blockchains competing on **transactions per second (TPS)**, **low fees**, and **quick finality**. Solana focuses on high-throughput Layer-1 performance, Sui uses parallel execution for independent transactions, and Base scales Ethereum through Layer-2 rollups. The competition directly improves user experience in DeFi, gaming, NFTs, and payments.

What It Means

Solana currently leads in real-world activity, processing thousands of TPS with fees often below \$0.01. Its Proof of History (PoH) design enables efficient parallel execution, and upgrades like **Firedancer** aim to improve stability and validator performance in 2026.

Sui is optimized for speed through object-based architecture and parallel processing using the Move

language. It can theoretically exceed 100,000 TPS, with simple transfers finalizing in under one second. Adoption is growing fast, especially in gaming and digital assets.

Base, built on Ethereum via Optimism, focuses on low-cost scaling rather than raw Layer-1 speed. It delivers hundreds of TPS in practice while inheriting Ethereum security and benefiting from Coinbase-led onboarding and liquidity.





Solana vs Sui vs Base – Speed Comparison

| Feature | Solana | Sui | Base |
|-------------------|-----------|-------------------------|------------------|
| Network Type | Layer 1 | Layer 1 | Ethereum Layer 2 |
| TPS (Theoretical) | 65,000+ | 100,000+ | Rollup-scaled |
| Real-World TPS | Thousands | Hundreds–Thousands | Hundreds |
| Finality | ~1–2 sec | <1 sec (simple tx) | Few seconds |
| Avg Fees | <\$0.01 | Very low | Very low |
| Execution | Parallel | Parallel (object-based) | Batch rollups |
| Ecosystem | Mature | Growing fast | Ethereum-linked |

Key Takeaways

- **Solana** leads in ecosystem size and proven high TPS.
- **Sui** offers extreme theoretical scalability and fast finality.
- **Base** delivers cheap Ethereum scaling for mass adoption.
- All three maintain fees at cents or less.
- Speed is critical for DeFi, NFTs, gaming, and payments.
- Parallel execution improves performance on Solana and Sui.
- No single winner—choice depends on speed, security, or compatibility.
- 2026 upgrades will push performance limits further.

Our Take (Outlook 2026) * Speculative

Solana is likely to retain leadership in daily activity and DeFi volume. Sui continues gaining ground in gaming and high-throughput applications. Base may grow fastest among mainstream users through Ethereum integration. Overall, better scalability across all chains supports wider crypto adoption.

References

Chainspect (TPS data, 2025)
 Messari & CoinDesk (ecosystem reports, 2025)
 Official docs: solana.com, sui.io, base.org

CryptxAI publishes simplified AI and crypto briefings.

