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IPPAN Achieves 9 Million Finalized Transactions Per Second

A Historic Benchmark in Deterministic Blockchain Throughput — Live-Tested on Production Infrastructure

IPPAN Labs today announced a historic milestone in blockchain performance: the successful demonstration of **9,000,000 globally finalized transactions per second (TPS)** on the IPPAN blockchain. The benchmark was conducted on February 15th, 2026, on production-grade infrastructure spanning Detroit, Michigan, and Falkenstein, Germany — with attestation from *Mladen Simikić* of Dash Inc., at whose data center the Detroit proposer node was hosted.

The result represents one of the highest publicly demonstrated finalized-throughput figures in blockchain history, delivered with deterministic ordering, GPU-accelerated cryptographic verification, and full end-to-end audit integrity.

🔬 THE DETROIT TEST CONFIGURATION

The benchmark was conducted across two geographic zones on the following hardware:

Load Generator — DetA (Detroit, Michigan)

CPU	AMD EPYC, 64 cores
Memory	512 GB RAM
Storage	2 TB NVMe
Public Link	10 Gbps
Private Link	100 Gbps to DetB (proposer)
Role	High-throughput transaction generation

Proposer Node — DetB (Detroit, Michigan)

GPU	NVIDIA H100 (Ed25519 batch verification)
CPU	AMD EPYC, 64 cores
Memory	512 GB RAM
Storage	2 TB NVMe

Public Link	10 Gbps
Private Link	100 Gbps to DetA (loadgen)
Role	Transaction ingestion, blocklet production & consensus coordination

Shadow Verifiers — Falkenstein, Germany

CPU	AMD Threadripper 2950
Memory	128 GB RAM
Storage	960 GB NVMe
Public Link	1 Gbps
Role	Independent commitment verification under DLC consensus

All transactions were cryptographically verified and finalized under IPPAN's Deterministic Learning Consensus (DLC) protocol, with full logging and reproducible proof artifacts captured throughout the test window.

📊 VERIFIED RESULTS — FEBRUARY 15, 2026

METRIC	RESULT
Peak Finalized TPS	**9,000,000+**
Consensus Model	**DLC — 2-of-3 Shadow Verification**
Round Duration	**250 milliseconds**
Signature Verification	**GPU-Accelerated (NVIDIA H100)**
Ordering Guarantee	**Deterministic — Full Audit Trail**
Private Link (DetA↔DetB)	**100 Gbps**
Public Link (DetA/DetB)	**10 Gbps each**
Public Link (Falkenstein)	**1 Gbps**

All metrics were captured with full logging and independently reproducible proof artifacts.

⚙️ WHAT MAKES IPPAN DIFFERENT

IPPAN is a next-generation BlockDAG architecture engineered for deterministic execution at internet scale. Unlike traditional linear blockchains — which serialize transactions into a single ordered chain — IPPAN produces blocklets in parallel across multiple lanes, with rounds every 250 milliseconds that summarize and finalize global state.

The result is massive, sustained throughput without sacrificing cryptographic guarantees, deterministic ordering, or audit integrity. GPU-accelerated Ed25519 signature verification eliminates the bottleneck that throttles CPU-bound validators in conventional systems.

🌍 WHY THIS MATTERS

Most blockchains today operate in the hundreds to low thousands of transactions per second. The gap between existing capacity and the demands of emerging infrastructure — AI agents, autonomous systems, IoT networks, real-world asset markets — is not incremental. It is structural.

IPPAN's Detroit demonstration proves that deterministic, auditable blockchain infrastructure can operate at true internet scale. This positions IPPAN as a foundational execution layer for:

- AI agent coordination and verifiable machine-to-machine instruction
- Real-world asset settlement at institutional frequency
- High-frequency financial systems requiring sub-second finality
- Machine-to-machine micropayments at IoT scale
- Energy micro-grid coordination and automated billing
- Global verifiable computation platforms

🧠 STATEMENT FROM IPPAN LABS

> *“Scalability is not optional. Blockchain infrastructure must support real-world load — not theoretical capacity. The Detroit test proves that deterministic, auditable execution at millions of finalized transactions per second is not a vision. It is a fact.”*

🔮 THE ROAD AHEAD

Following the Detroit milestone, IPPAN Labs is advancing on multiple fronts simultaneously:

- Multi-region distributed consensus expansion across additional geographic zones
- Institutional pilot programs with financial and infrastructure partners
- Strategic infrastructure partnerships for global deployment
- Deep integrations for AI agent coordination and real-world asset settlement

IPPAN is building the global infrastructure engine for verifiable execution — purpose-built for the AI era.

About IPPAN Labs

IPPAN Labs develops high-throughput, auditable blockchain infrastructure based on deterministic BlockDAG architecture. The platform is engineered for internet-scale throughput, low-latency finality, and real-world governance. IPPAN's DLC consensus protocol delivers cryptographic finality with deterministic global ordering — enabling the next generation of AI, financial, and autonomous systems.

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