



TurbOS™ Secure HPC

Hoonify Technologies, a trusted U.S. National Security partner, boosts the performance of parallel modeling and simulation applications, and AI/ML algorithms with its Linux-based operating system, TurbOS. TurbOS simplifies cluster management and optimizes CPU and GPU resources to achieve supercomputer-level performance. TurbOS is available in secure cloud, on-premises, or hybrid setups. When used on-premises, TurbOS transforms standard computers into efficient supercomputing clusters, offering high performance at a fraction of the cost and time of traditional HPC solutions. TurbOS is proven within U.S. National Security programs and is designed to support strict cybersecurity requirements including NIST and DoD standards.

TurbOS Value & Benefits



Problem Solving Performance

Use optimized tools for pre - and post-processing of your workloads



Faster Results

Up to 150% performance gains using our proprietary optimizations



Accessible AI

Leverage modern AI apps to quickly create innovative solutions and amazing results



More Compute

Quickly add extra compute resources to scale your resource pool - including office workstations!



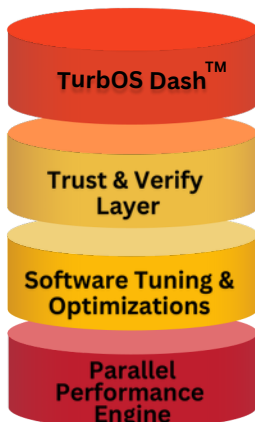
Lower Support

TurbOS streamlines usage and support for high performance clusters, saving you money

Go Faster with TurbOS

On-Premises or Remotely

With decades of experience in National Security and High Performance Computing, Hoonify's experts have developed a powerful platform for faster parallel computing and AI/ML processes. Hoonify's TurbOS offers easy-to-use, secure supercomputing at your fingertips through Hoonify's private cloud solution or on-premises using your own hardware. It provides faster high-fidelity modeling and simulation and accelerated AI/ML analysis, especially when data sensitivity is paramount. TurbOS includes a user-friendly dashboard that simplifies supercomputing administration with both private cloud and on-prem solutions.



TurbOS Features

- **TurbOS Dash** provides simplified viewing and management of resources, job status, and more. Our
- **Trust & Verify Layer** contains the software to verify and validate that your results are accurate and replicable.
- **TurbOS' Software Tuning & Optimizations** contains the utilities, compilers, and packages needed for supercomputing performance on Intel x86 and NVIDIA CUDA architectures.
- **Hoonify's Parallel Performance Engine** enables MPI-Parallel and NCCL-Parallel with available CPUs and GPUs to experience superior performance and efficient utilization with job schedulers (e.g., Slurm)

Contact Us

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Edge & Desktop HPC

Organizations dedicated to advanced computing encounter challenges such as limited access to resources, unpredictable costs, lack of skilled HPC personnel, and the need to ensure large-scale solutions are operating at their best. Hoonify solves these issues with the Cub edge/desktop HPC unit, powered by the powerful Hoonify TurbOS HPC software platform. This combination creates an HPC ecosystem that is available for use any time, any where...at the desk, in the lab, or in the field. Cub offers the ultimate flexibility to be used as a stand-alone unit, as a head node, or even in tandem to create a scalable HPC mini-cluster.

Hoonify Cub

Software

- Hoonify TurbOS HPC Software
- TurbOS Dash (dashboard)
- Ready to run parallel codes for MPI and NCCL applications
- Slurm Scheduling System
- Full application development stack
- App optimization tools
- Validation and Verification tools
- Runs on Red Hat or Rocky Linux
- Robust Security Features (FIPS 140-3, AES-256 LUKS)



Hardware

- 7 Compute Nodes
- 98 CPU Cores (x86-64)
- 672 GB RAM
- 4608 NVIDIA CUDA Cores
- 8 GB VRAM
- Up to 20TB Storage
- 2.5GbE / 10GbE Uplink
- Optional WiFi / BT Radio Module
- 600 Watts (110VAC)

Hoonify Cub: Mobile, Flexible, and Scalable HPC



Cub comes pre-configured with **TurbOS** all-in-one HPC software. It provides all the functionality you rely on from supercomputer, but in a compact design available for you whenever and wherever you need it.



Combine Cubs to make an incredibly powerful HPC mini-cluster that is efficiently managed and architected for scale. Speak with our HPC Engineers for options.



The Cub can be utilized as a super head node that deploys and manages resources as desired. **TurbOS** on the Cub even allows unused hardware to be rebooted and added to the mini-cluster