

THINK BIG THINK FAST

The ESS 3400 Elastic Scaling Server™ (ES2)

The Model ESS 3400 high level Elastic Scaling Server™ (ES2) system from Scientel, represents the true state-of-the-art in HPC database computing by achieving several million transactions per minute. This performance is achieved with Scientel's GENSONIX® Enterprise NewSQL Super DB, which can scale to 3456 DB nodes on the 3400 model. GENSONIX Enterprise DB can perform the equivalent of a join of BILLIONS of rows with TRILLIONS of transactions!

SYSTEM SPECIFICATIONS -- ESS 3400

- ❖ 108 Cluster nodes -- 1728 processor cores, 166 TB of memory, 1 PB of storage
- ❖ Multi-million Transactions per minute
- ❖ Scales to 3456 compute nodes
- ❖ Gensonix NewSQL DB
- ❖ Distributed Storage Architecture(DSA)
- ❖ Expandable to multi-Petabytes of storage
- ❖ High-Performance, Ultra-Parallel Processing
- ❖ Modular rack configuration



The 3400 system is designed to reach over 1 Petabyte in storage and 166 TB of main memory for compute intense Big Data problems. It incorporates 1728 processor cores which can support 3456 DB nodes when running the Gensonix Super DB. The 3400 system is configured in a 4 full rack configuration which utilizes high-speed InfiniBand interconnect for high speed operation. InfiniBand configuration on this system supports data speeds of up to 100GB per second. GENSONIX incorporates multiple data store schemes, such as Relational tables and Document stores which helps with data storage efficiently. GENSONIX has built-in intrinsic functions and array processing capabilities along with recursive DB sequencing to allow processing of large numbers of data rows at higher speeds.