

**Check with your Field Application Engineer for a specific simulation recommendation. Application resources consumption may depend on various factors including number of users utilizing licenses, running simulations parameters, etc.**

**Minimum Hardware Configuration:**

CPU: 8 cores, 3GHz+ (Intel or AMD)

Memory: 32GB Ram

Storage: 1TB Disk <sup>1</sup>

GPU: OpenGL 3.2 or higher compatible graphics card with 1024 VRAM.

**Recommended Hardware Configuration <sup>2</sup>:**

CPU: 32 cores or more, 3GHz+ (Intel or AMD) depending on the number of licenses

Memory: 64GB RAM

Storage: 4 x 2 TB Disk in RAID 5 array <sup>1</sup>

GPU: OpenGL 3.2 or higher compatible graphics card with 1024 VRAM.

For TCAD Victory 3D simulation a discrete graphics card is recommended.

These specifications should ensure optimal performance, especially if the number of licenses increases.

**Notes:**

We recommend CPU clock speed above 3.0GHz, at least 4~8 cores, and 8~16GB memory per user. For 3D simulation, single job will occupy 30GB or more memory.

AMD CPUs are also compatible with Silvaco software. Silvaco does not make any specific hardware vendor recommendations, but machines with the above specifications are readily available from most top tier hardware vendors.

<sup>1</sup> Customers should always maintain regular backups of all data even when the machine uses a redundant disk configuration.

<sup>2</sup> Check with your Field Application Engineer for specific simulation recommendations.