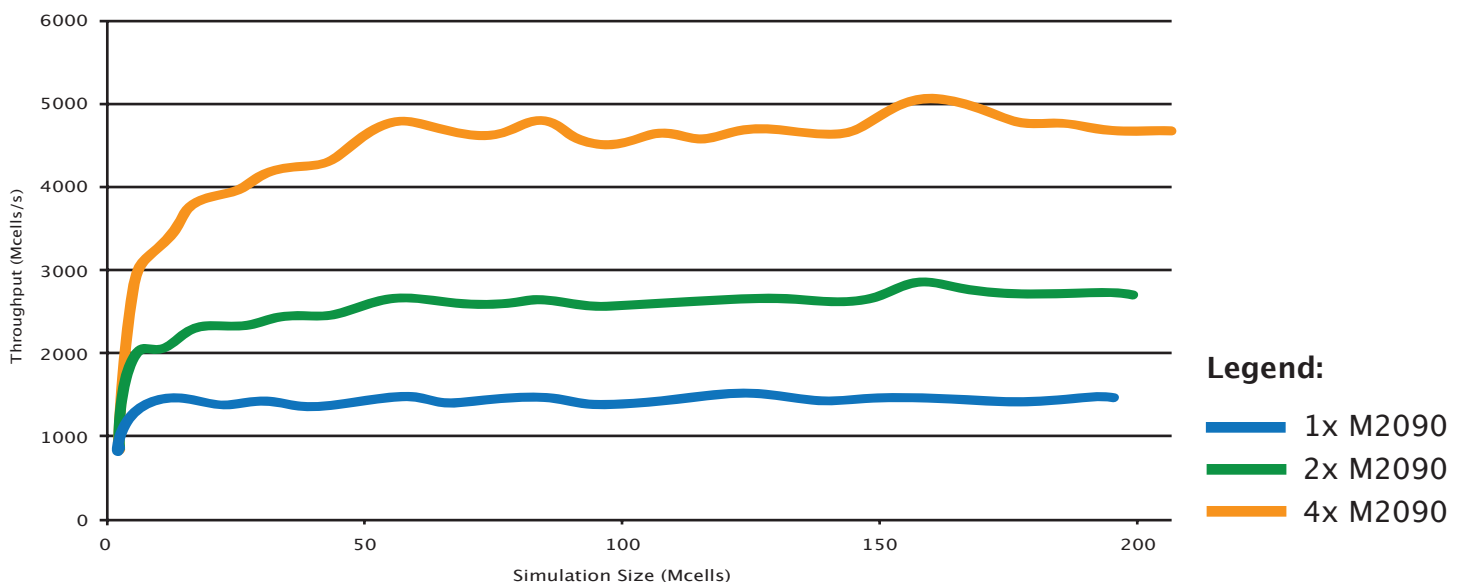


# Acceleware FDTD Solvers

Acceleware's FDTD libraries provide an accelerated computational engine for computer aided engineering. Acceleware software integrated with GPU hardware can enable simulations to be completed over 35 times faster. Accelerated simulations run from 1500 to 5000 Mcells/s compared to non-accelerated standard multi-core workstation speeds ranging from 20 to 200 Mcells/s.

**Using Acceleware acceleration libraries will help to maximize the value of your simulation tools and engineering time.**



NVIDIA GPU	Number of GPU's	Maximum Speed Achieved in Mcells/s	Optimum Simulation Size in Mcells
Tesla M2090	1	1500	up to 150
2x Tesla M2090	2	2800	up to 280
4x Tesla M2090	4	5000	up to 560
4x GPUs per node	n * 4	> 7500	> 1000

## Accelerated FDTD Features

- **Materials:** Dielectrics, Lumped Elements, Dispersive Materials
- **Boundaries:** PEC, CPML, Higdon, Mur, Sine/Cosine (Periodic)
- **Excitation:** Hard, Resistive, Gaussian Beam, Planewave/Periodic
- **Lossy Metals (SIBC)**
- **Also includes** a multi-core CPU-only solver

[www.acceleware.com/fdtd-solvers](http://www.acceleware.com/fdtd-solvers)