*Make WIPL-D suite super efficient*

GPU Solver

- Enables usage of NVIDIA CUDA-enabled GPUs to significantly decrease EM simulation time in WIPL-D
- Acceleration of up to 60 times could be achieved on a single personal computer
- Works with all CUDA enabled NVIDIA's desktop GPUs from GTX series, Tesla and Quadro (with Compute Capability 1.3 and higher)
- Provides GPU acceleration of three phases in EM analysis: matrix fill-in, matrix inversion, and near-field calculations
- Acceleration in in-core direct-solution of matrix equations of relatively small order
- Acceleration in both in-core and out-of-core solution of large sparse MoM matrix equations
- Important improvements in out-of-core (OoC) algorithm, used when analyzing electrically large EM structures
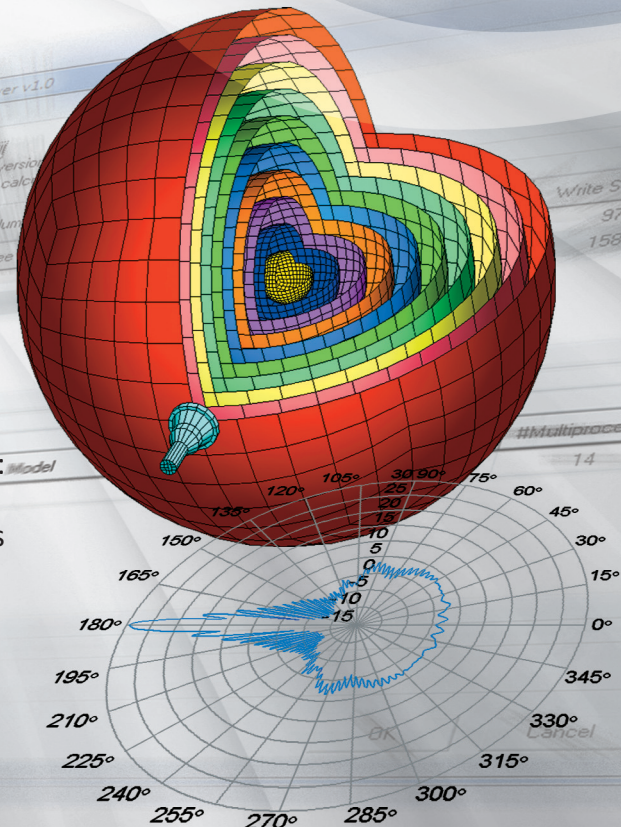
AW Modeler

- WIPL-D front-end for easy modeling of 3D objects, well suited for planar structures, such as microstrip
- 3D object can be interactively created and edited, by mouse point-and-click, on a non-uniform grid specified by symbols
- Object can be composed of wires and planar polygons with arbitrary number of vertices.
- Polygon can have thickness to model finite thickness metallization
- Automatically generates vias, radial stubs and circular patches, and feeders as separate entities.
- Fully automated Optimized quadrilateral meshing of polygonal AW model, advanced techniques for long edges elimination and user-directed meshing along grid lines
- Import and conversion of DXF files into WIPL-D projects for analysis and optimization