Importance

Computers continue to get faster via smaller and more intricate circuitry, which generates mass amounts of heat.

Heat given off by processors must be dissipated or electrical components will run slowly or short out.

Gives rise to many irradiative, conductive, and natural and forced convection schemes for cooling.

There seem to be a few very popular designs for forced convection fan heat sink combinations for CPU’s.

Why is one style chosen over the other?

Implemented Heat Fin Geometries

3 geometries were tested:

- Pin Fin Heat Sink
- Radial Plate Fin Heat Sink
- Plate Fin Heat Sink

Results: Pin Fins, Blowing

Results: Radial Plate Fins, Blowing