PRESS RELEASE

Green Revolution Cooling Demonstrates 40% Over-Clocking with Latest Intel Chips

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AUSTIN, TX, May 26, 2010 – With funding from a Phase I National Science Foundation (NSF) Small Business Innovation Research (SBIR) grant, Green Revolution Cooling (GRC), leader in fluid-submersion cooling for the data center, has demonstrated the powerful cooling capabilities of the CarnotJet™ system by sustainably over-clocking Intel's latest Nehalem chips by more than 40%.

Servers were submerged in a CarnotJet™ system rack at Texas Advanced Computing Center (TACC), in Austin, Texas. LINPACK was used for benchmarking. Before and after results demonstrate that Intel Nehalem E5520 and x5550 chips can produce 35-60% more output when installed in a server submerged in the CarnotJet™ system.

With four cores running 100% at 3.5 GHz (2.26 as shipped), CPU core temperatures remained comparable to non over-clocked processors in air-cooled environments. Over-clocking with other Intel chips showed similar results.

Even with increased output, data center power consumption per FLOP remained 40-50% less than today's most efficient data centers.

A full case study, "Over-Clocking Servers with Fluid-Submersion Cooling Technology," is available at www.grcooling.com/files

About Green Revolution Cooling (GRC)
Green Revolution Cooling, an Austin-based company, has developed the CarnotJet™ system, a total submersion cooling solution for servers that reduces data center cooling energy use by 90-95%. GRC was recently named a Disruptive Technology of the Year at SC'09.

About Texas Advanced Computing Center (TACC)
Home of the Stampede, Ranger, and Lonestar 4 supercomputers, Texas Advanced Computing Center at the University of Texas at Austin is on the forefront of academic supercomputing research.

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