

Super Cooling for Supercomputer

University data centre in Paderborn places its trust in Rittal Power Cooling System

With its 420 Intel Xeon CPUs, 896 GB memory and the capacity for two thousand trillion operations per second, the high-performance computer at the Center for Parallel Computing of the University of Paderborn plays in a league of its own. The reliable CPU cooling for the Number 205 among the 500 fastest computers in the world was supplied by Rittal.



With PCI Express, the hpcLine supercomputer from Fujitsu Siemens offers a technology whose extremely high data transfer rates are able to exploit the possibilities of the fast InfiniBand communication network to the full.

The heat losses arising from the enormous computing power of the CPUs – in total some 60 kW – was a demanding challenge for the IT climate control specialists, but they nevertheless came up with an outstanding solution through their choice of fluid-based CPU cooling from Rittal.

The individually tailored CPU cooling for the Paderborn data centre has demonstrated once more that Rittal is a competent supplier of efficient and favourably priced cooling solutions in the field of high-performance computing, even where space is at a premium.

Components: Racks, CPU cooling, PSM, PDM

Would you like to know more about this project?

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