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News Release

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Independent Innovation for Future Success ICT, Intel to Jointly Research in Personal High Performance Workstation

BEIJING, April 8, 2009 – Today at the Intel Developer Forum, Intel Corporation and the Institute of Computing Technology (ICT) of the Chinese Academy of Sciences held a media briefing regarding Personal High Performance Workstation (PHPW).

ICT will utilize its innovative technologies and Intel's leading products and platforms to develop an adaptive, easy-to-use PHPW model for the widespread application of HPC.

The R&D result will mark another milestone of independent innovation in China's IT industry and will greatly drive the standardization, popularization and industrialization of HPC.

Both Sun Ninghui, director of the Department of System and Structure Research, ICT, and Larry Hong, Product Marketing director of Intel China, attended the media briefing.

HPC has been regarded as being on the forefront of technology, applying its resources from life sciences to national defense. With the constant evolution of the business environment and information technology, an increasing number of enterprises, organizations and individuals are posting their demands for higher computing capabilities. These customers are frustrated by energy consumption and demanding machine rooms. Therefore, ICT is committed to developing an affordable PHPW model that will focus on power efficiency, convenience, and noise reduction.

“Upon mention of HPC, people would immediately think of the huge power consumption, higher requirements for a machine room, special power demands and a pool of engineers,” said Ninghui. “The purpose of our collaboration is to make HPC affordable to ordinary enterprises and operable by common users who receive simple training. This will significantly promote the application of HPC, thus bringing about the growth of relevant industries. As a national scientific research organization, we shall be dedicated to the independent technology innovation to facilitate the industry development.”

Intel, with rich experiences and advanced technologies in the HPC area, has also been committed to growing with China's IT industry and supporting independent innovation of the industry.

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“ICT is undoubtedly the IT leader in China, while Intel boasts the vast experience, unique expertise and rich resources to secure the development. Therefore, we are glad and honored to come to the collaboration with ICT. Once underway, our collaboration will result in benefits for users and the whole IT industry in China. Furthermore, it will become a model of domestic independent innovation, and provide reference for more organizations, institutions and enterprises.” Hong said.

According to the agreement, ICT will integrate its self-made switch module with Intel chips, chipsets and motherboards, reference design in hardware R&D, system debugging, component R&D and software R&D. The workstation prototype adopts Intel® Xeon® Quad-core L5420 2.5GHz processor. A switch module is outfitted with up to 8 processor modules or 16 quad-core processors. There will be up to 384GB fully buffered DDR2 memory and 12TB of HDD storage with system power less than 2.5kW and a large diameter fan at low rotation speed, enabling over 1 trillion calculations performed efficiently and quietly.

About Intel

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