Intel and SGI Parallel Application Center

32-way SGI Altix SMP platform featuring Intel® Itanium® 2 processors

Creating Innovations in Technology

Intel and SGI have created a new state-of-the-art Parallel Application Center to enable developers, ISVs and end users from around the world to test application scalability and attain breakthrough performance on the SGI® Altix® computer platform featuring Intel® Itanium® 2 processors. The Parallel Application Center offers a fully managed, secure development environment where developers can port, optimize, validate, and evaluate applications on a 32-way SGI Altix SMP platform featuring Intel Itanium 2 processors. ISVs can use the SGI Altix SMP platform to demonstrate their software products to customers to increase business impact.

Technical Benefits

The Parallel Application Center provides you access to the 32-way SGI Altix computer platform featuring Intel Itanium processors so you can focus on planning and delivering your software on schedule and on budget. Available tools include OpenMP*, Intel® Software Development Products, SGI® tools and MPT Library, and the Intel MPI Library. The following system features enable applications to scale beyond traditional compute limits:

- 64-bit EPIC (Explicitly Parallel Instruction Computing) architecture: Offers not only the ability to handle larger data set and computational models but also higher performance via new levels of parallelism for enterprise and technical applications.
- Global shared memory: Eliminates data transfer overhead by providing a single memory address, allowing all processors to access all the data in the system's memory directly and efficiently.
- SGI NUMAflex™ architecture: Provides balanced resources for very large systems as processors and memory are added, enabling systems to efficiently scale well beyond the traditional bus-based architecture systems.

Business Benefits

- Convenient technical and marketing access to the SGI Altix platform featuring Intel Itanium 2 processors
- Reduced operational costs of managing leading-edge systems
- Reduced need to assign resources to system upkeep for newest platforms

System Environment

Located at Intel's Swindon UK campus, the Parallel Application Center provides both a walk-in facility as well as a direct connection to the systems via remote access through the SSH Security Protocol which allows for fast, secure, worldwide access to:

1. Leading-edge SGI Altix 3000 supercomputer technology running optimized 64-bit Linux* with:
   - 32 Intel Itanium 2 processors 1.5 GHz/6M L3 cache
   - 128-GB main memory
   - 2.5-TB disk space
2. A stable environment.
3. The latest in Intel, SGI and third-party development tools, including OpenMP and MPI Libraries.

Sign Up Now for System Access

To sign up for access to the system or if you would like more information, go to http://www.intel.com/IDS/pac

You can request exclusive on-site access, exclusive Internet access, or shared Internet access. Exclusive access is available for up to 5 days.

To get access to the Parallel Application Center, you must first become a member of the SGI and Intel developer programs. If you are not already a member, you can sign up today:

- SGI Global Developer Program: http://www.sgi.com/developers/
- SGI Developer Online Consulting (DOC): http://www.sgi.com/developers/resources/doc.html
- Intel® Early Access Program: http://www.intel.com/IDS/EAP

FOR MORE INFORMATION ON

Altix 3000 system:
http://www.sgi.com/servers/altix/

Itanium 2 processor:
http://www.intel.com/design/itanium/family/

Itanium Processor Family Developer Center:
http://www.intel.com/cd/ids/developer/asmo-na/eng/microprocessors/itanium/index.htm

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