### Supermicro Motherboard X7DBR-8+ (3.73GHz, Intel Dual-Core Xeon processor 5080)

**SPECfp_rate2000 = 56.9**  
**SPECfp_rate_base2000 = 57.0**

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</table>

#### Hardware

- **CPU:** Intel Dual-Core Xeon processor 5080 (3.73 GHz, 2x2MB L2, 1066MHz bus)  
- **CPU MHz:** 3733  
- **FPU:** Integrated  
- **CPU(s) enabled:** 4 cores, 2 chips, 2 cores/chip (Hyper-Threading Technology enabled)  
- **CPU(s) orderable:** 1, 2  
- **Parallel:** No  
- **Primary Cache:** 12k micro-ops I + 16KBD (on chip) per core  
- **Secondary Cache:** 2MB (I+D) (on chip) per core  
- **L3 Cache:** N/A  
- **Other Cache:** N/A  
- **Memory:** 16x1GB ECC DDR2-5300 CL5 FB-DRAM  
- **Disk Subsystem:** 1x120GB 7200RPM ATA HDD  

#### Operating System

- **Windows Server 2003 Enterprise Edition 32-bits w/ SP1**  
- **Intel C++ and Fortran Compiler 9.0 for 32-bit applications Build 20050430Z (32-bit)**  
- **Microsoft Visual Studio .Net 2003 for libraries**  
- **SmartHeap Library Version 7.4 from http://www.microquill.com/**

#### Notes/Tuning Information

- +FDO: PASS1= -Qprof_gen PASS2= -Qprof_use  
- Base tuning for Fortran programs: -fast -Qansi_alias +FDO  
- Base tuning for 177.mesa: -fast sh1W32M.lib +FDO  
- Base tuning for 179.art: -fast sh1W32M.lib +FDO  
- Base tuning for 183.equate: -fast sh1W32M.lib +FDO  
- Base tuning for 188.ammp: -fast sh1W32M.lib +FDO  
- Portability:  
  - **178.galgel:** -FI /F32000000  
  - **Peak tuning:**  
    - 168.wupwise: -fast -Qansi_alias +FDO  
    - 171.swim: -fast -Qansi_alias +FDO  
    - 172.mgrid: -fast -Qansi_alias +FDO  
    - 173.applu: -fast -Qscalar_rep -Qauto +FDO  
    - 177.mesa: basepeak=yes  
    - 178.galgel: -fast -Qansi_alias +FDO  
    - 179.art: basepeak=yes  
    - 183.equate: -QxP -Oa -Qrcd -Qipo sh1W32M.lib +FDO
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Notes/Tuning Information (Continued)

187. facerec: -fast -Qunroll1 -Qscalar_rep- +FDO
188. ammp: -fast -Oa +FDO sh1W32M.lib
189. lucas: -fast -Qprefetch- +FDO
191. fma3d: basepeak=yes
200. sixtrack: -Qipo -QxP +FDO
301. apsi: -fast +FDO

Tested systems can be used with SC815S-700V case,
To ensure system stability, a 560W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]

The system bus runs at 1066 MHz