# CFP2000 Result

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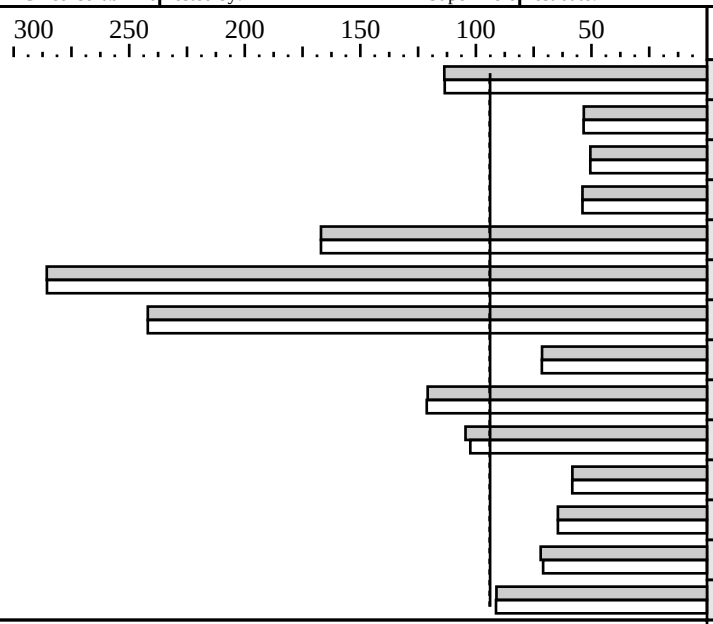
## Supermicro

Motherboard X7DB8( 2.00GHz, Intel Xeon E5335 processor)

SPECfp_rate2000 = 93.8

SPECfp_rate_base2000 = 94.0

SPEC license #01176 | Tested by: Supermicro | Test date: Nov-2006 | Hardware Avail: Nov-2006 | Software Avail: Mar-2006




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 8 | 131 | 114 | 8 | 131 | 113 |
| 171.swim | 8 | 540 | 53.3 | 8 | 539 | 53.4 |
| 172.mgrid | 8 | 331 | 50.5 | 8 | 331 | 50.5 |
| 173.applu | 8 | 362 | 53.9 | 8 | 362 | 53.9 |
| 177.mesa | 8 | 77.8 | 167 | 8 | 77.8 | 167 |
| 178.galgel | 8 | 94.2 | 286 | 8 | 94.2 | 286 |
| 179.art | 8 | 99.7 | 242 | 8 | 99.7 | 242 |
| 183.equake | 8 | 169 | 71.4 | 8 | 169 | 71.5 |
| 187.facerec | 8 | 146 | 121 | 8 | 145 | 121 |
| 188.ammp | 8 | 195 | 104 | 8 | 199 | 102 |
| 189.lucas | 8 | 319 | 58.3 | 8 | 318 | 58.3 |
| 191.fma3d | 8 | 302 | 64.5 | 8 | 302 | 64.5 |
| 200.sixtrack | 8 | 142 | 72.0 | 8 | 144 | 70.9 |
| 301.apsi | 8 | 265 | 91.1 | 8 | 264 | 91.3 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon E5335 processor ( 2.00 GHz,1333MHz bus) |
| CPU MHz: | 2000 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 2 chips, 4 cores/chip |
| CPU(s) orderable: | 1, 2 chips |
| Parallel: | N/A |
| Primary Cache: | 32KBI + 32KBD on chip per core |
| Secondary Cache: | 8MB(I+D) on chip, per chip (4MB shared per 2 cores) |
| L3 Cache: | N/A |
| Other Cache: | N/A |
| Memory: | 8 X 2GB DDR2 ECC CL5 667MHz FBDIMM |
| Disk Subsystem: | 1 X Seagate Barracuda 120GB 7200 RPM |
| Other Hardware: | N/A |

### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Enterprise Edition 32-bits w/ SP1 |
| Compiler: | Intel C++ and Fortran Compiler 9.1 for 32-bit applications<br>Build 20060323Z Package ID: W_FC_P_9.1.020<br>Microsoft Visual Studio 2005(for libraries)<br>SmartHeap Library Version 8.0 from http://www.microquill.com/ |
| File System: | NTFS |
| System State: | Default |

## 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    +FDO shlW32M.lib
Base tuning for 179.art:  -fast     +FDO shlW32M.lib
Base tuning for 183.equake:  -fast  +FDO shlW32M.lib
Base tuning for 188.ammp:  -fast    +FDO shlW32M.lib
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:  basepeak=yes
177.mesa:   basepeak=yes
178.galgel:   -fast -Qansi_alias +FDO
179.art:      basepeak=yes
183.equake:   -QxP -Oa -Qrcd -Qipo  +FDO  shlW32M.lib
```

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## Notes/Tuning Information (Continued)

```
187.facerec:  -fast -Qunroll1 -Qscalar_rep- +FDO
188.ammp:     -fast -Oa +FDO  shlW32M.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 SC816S-R700 case,
   To ensure system stability, a 500W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]
   Product description located as of http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DB8.cfm
     The system bus runs at 1333 MHz
     shlw32m-80.lib is the V8.0 SmartHeap library renamed to co-exist with older versions
```