



CFP2000 Result

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SuperMicro
X6DHP-8G2 (3.6GHz, Intel Xeon)

SPECfp_rate2000 = 22.5
SPECfp_rate_base2000 = 22.4

SPEC license #01176 Tested by: SuperMicro Inc., San Jose, CA Test date: Oct-2004 Hardware Avail: Oct-2004 Software Avail: Dec-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	100	37.0	2	101	36.8
171.swim	2	272	26.5	2	273	26.3
172.mgrid	2	202	20.6	2	198	21.1
173.applu	2	248	19.6	2	242	20.1
177.mesa	2	103	31.5	2	113	28.7
178.galgel	2	197	34.2	2	209	32.2
179.art	2	490	12.3	2	488	12.4
183.quake	2	123	24.5	2	98.8	30.5
187.facerec	2	141	31.2	2	145	30.4
188.amp	2	321	15.9	2	321	15.9
189.lucas	2	191	24.3	2	201	23.1
191.fma3d	2	230	21.2	2	230	21.2
200.sixtrack	2	199	12.8	2	188	13.6
301.apsi	2	309	19.5	2	316	19.1

Hardware

CPU: Intel Xeon (3.6GHz, 1MB L2, 800MHz bus)
 CPU MHz: 3600
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (HT Technology Enabled)
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 12K micro-ops I + 16KBD on chip
 Secondary Cache: 1024KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8x1GB, PC2-3200, CL3
 Disk Subsystem: 1x36GB SCSI H.D.
 Other Hardware:

Software

Operating System: Windows Server 2003 Standard (Build 3790)
 Compiler: Intel C++ Compiler 8.0 Build 20031211Z
 Intel Fortran Compiler 8.0 build 20040125Z
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)
 MicroQuill Smartheap Library 7.0
 File System: NTFS
 System State: Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use (-QxP not used in PASS1 to enable cross-compilation)
Base tuning Base tuning: -QxP -fast -Qansi_alias +FDO
Portability flags:
 178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -QxP -fast -Qansi_alias +FDO ONESTEP=yes
171.swim: -QxP -fast -f77rtl +FDO ONESTEP=yes
172.mgrid: -QxP -fast -Qansi_alias +FDO ONESTEP=yes
173.applu: -QxP -fast -Qscalar_rep- -Qauto -f77rtl +FDO ONESTEP=yes
177.mesa: -QxP -fast +FDO ONESTEP=yes
178.galgel: -QxP -fast +FDO ONESTEP=yes
179.art: -fast -Oa -Qunroll4 -Zp4 ONESTEP=yes
183.quake: -QxP -fast -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
187.facerec: -QaxN -fast -Qunroll1 -Qscalar_rep- -fpp +FDO ONESTEP=yes
188.amp: basepeak=1
189.lucas: -QaxN-fast
191.fma3d: basepeak=1
```



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Notes/Tuning Information (Continued)

200.sixtrack: -QxP -fast +FDO
301.apsi: -QxP -fast -f77rtl +FDO ONESTEP=yes