



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL580 G2 (3.0GHz, Intel Xeon MP)

SPECfp_rate2000 = 22.1
SPECfp_rate_base2000 = 21.8

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Mar-2004 Hardware Avail: Feb-2004 Software Avail: Mar-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	146	25.3	2	144	25.8
171.swim	2	498	14.4	2	498	14.4
172.mgrid	2	297	14.1	2	296	14.1
173.applu	2	431	11.3	2	427	11.4
177.mesa	2	110	29.6	2	109	29.8
178.galgel	2	101	66.8	2	99.9	67.4
179.art	2	88.2	68.4	2	88.1	68.5
183.quake	2	186	16.2	2	153	19.7
187.facerec	2	176	25.1	2	178	24.8
188.amp	2	166	30.7	2	173	29.5
189.lucas	2	337	13.8	2	339	13.7
191.fma3d	2	312	15.6	2	312	15.6
200.sixtrack	2	188	13.6	2	187	13.7
301.apsi	2	315	19.1	2	318	19.0

Hardware

CPU: Intel Xeon MP (3.0GHz, 400MHz bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper Threading Disabled)
CPU(s) orderable: 1,2,4
Parallel: No
Primary Cache: 12K micro-ops I + 8KBD on chip
Secondary Cache: 512KB(I+D) on chip
L3 Cache: 4096KB(I+D) on chip
Other Cache: N/A
Memory: 16x512MB PC1600
Disk Subsystem: 2x18.2GB 15K Ultra320 SCSI
Other Hardware:

Software

Operating System: Windows 2000 Advanced Server (Build 2195 SP3)
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
Base tuning for all programs: -QxN -Qipo -O3 +FDO ONESTEP=yes
Portability flags:
 178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -Qipo -QxN +FDO ONESTEP=yes
171.swim: -Qipo -QxN -O3 +FDO ONESTEP=yes
172.mgrid: -Qipo -QaxN -O3 +FDO ONESTEP=yes
173.applu: -Qipo -QxN -O3 -Qscalar_rep- -Qauto +FDO ONESTEP=yes
177.mesa: -Qipo -QxN -O3 +FDO ONESTEP=yes
178.galgel: -Qipo -QxN -O3 +FDO ONESTEP=yes
179.art: -Qipo -Oa -Qunroll4 -Zp4 ONESTEP=yes
183.quake: -Qipo -QxN -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
187.facerec: -Qipo -QaxN -O3 -Qunroll11 -Qscalar_rep- +FDO ONESTEP=yes
188.amp: -QxN -Oa ONESTEP=yes
189.lucas: -Qipo -QaxN
191.fma3d: basepeak=1
```



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Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxN +FDO ONESTEP=yes
301.apsi: -Qipo -QxN -O3 +FDO ONESTEP=yes
BIOS Configuration Notes
Hyper Threading disabled