



CFP2000 Result

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

SPECfp_rate2000 = 14.0
SPECfp_rate_base2000 = 14.1

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	1	126	14.7	1	124	15.0
171.swim	1	249	14.4	1	249	14.4
172.mgrid	1	185	11.3	1	185	11.3
173.applu	1	253	9.64	1	245	9.94
177.mesa	1	108	15.0	1	108	15.0
178.galgel	1	94.1	35.7	1	96.3	34.9
179.art	1	85.7	35.2	1	91.9	32.8
183.quake	1	133	11.4	1	130	11.6
187.facerec	1	147	15.0	1	144	15.3
188.amp	1	164	15.6	1	170	15.0
189.lucas	1	176	13.2	1	176	13.2
191.fma3d	1	236	10.3	1	236	10.3
200.sixtrack	1	187	6.83	1	187	6.84
301.apsi	1	276	10.9	1	276	10.9

Hardware

CPU: Intel Xeon MP (3.0GHz, 400MHz bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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 -Qunroll1 -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