



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL580 G2(2.8GHz, Intel Xeon MP)

SPECfp_rate2000 = 19.0
SPECfp_rate_base2000 = 18.4

SPEC license #: 3 Test address: Hewlett-Packard Company, Houston TX Test date: Sep-2003 Hardware Avail: Jul-2003 Software Avail: Jun-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	148	25.1	2	149	25.0
171.swim	2	520	13.8	2	520	13.8
172.mgrid	2	303	13.8	2	302	13.8
173.applu	2	435	11.2	2	433	11.2
177.mesa	2	126	25.7	2	125	26.0
178.galgel	2	153	43.9	2	153	44.1
179.art	2	259	23.3	2	214	28.2
183.quake	2	198	15.2	2	156	19.4
187.facerec	2	198	22.3	2	196	22.5
188.amp	2	254	20.1	2	253	20.2
189.lucas	2	336	13.8	2	336	13.8
191.fma3d	2	308	15.8	2	308	15.8
200.sixtrack	2	209	12.2	2	208	12.3
301.apsi	2	312	19.3	2	311	19.4

Hardware

CPU: Intel Xeon MP (2.8GHz, 400MHz bus)
CPU MHz: 2800
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: 2048KB(I+D) on chip
Other Cache: N/A
Memory: 16x512MB PC1600
Disk Subsystem: 2x18.2GB 15K Ultra3 SCSI
Other Hardware:

Software

Operating System: Windows 2000 Advanced Server(Build 2195 SP3)
Compiler: Intel C++ Compiler 7.1 Build 20030801Z
Microsoft Visual Studio .NET 7.0.9466 (for libraries)
Intel Fortran Compiler 7.1 build 20030307Z
MicroQuill Smartheap Library 7.0
File System: NTFS
System State: Hyperthreading disabled in BIOS

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning: -QxW -Qipo -O3 +FDO ONESTEP=yes
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -Qipo -QxW +FDO ONESTEP=yes
171.swim: -Qipo -QxW -O3 +FDO ONESTEP=yes
172.mgrid: -Qipo -QaxW -O3 +FDO ONESTEP=yes
173.applu: -Qipo -QxW -O3 -Qscalar_rep- -Qauto +FDO ONESTEP=yes
177.mesa: -Qipo -QxW -O3 +FDO ONESTEP=yes
178.galgel: -Qipo -QxW -O3 +FDO ONESTEP=yes
179.art: -Qipo -Oa -Qunroll4 -Zp4 ONESTEP=yes
183.quake: -Qipo -QxW -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
187.facerec: -Qipo -QaxW -O3 -Qunroll1 -Qscalar_rep- +FDO ONESTEP=yes
188.amp: -QxW -Oa ONESTEP=yes
189.lucas: -Qipo -QaxW
191.fma3d: basepeak=1
```



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Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxW +FDO ONESTEP=yes
301.apsi: -Qipo -QxW -O3 +FDO ONESTEP=yes