



CFP2000 Result

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Hewlett-Packard Company
ProLiant ML370 G3 (3.2GHz/2MB L3 cache, Intel Xeon)

SPECfp_rate2000 = 24.0
SPECfp_rate_base2000 = 23.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	124	30.0	2	121	30.8
171.swim	2	360	20.0	2	358	20.1
172.mgrid	2	225	18.6	2	224	18.6
173.applu	2	306	15.9	2	302	16.1
177.mesa	2	103	31.7	2	102	31.7
178.galgel	2	126	53.4	2	126	53.4
179.art	2	207	29.2	2	172	35.0
183.quake	2	159	18.9	2	132	22.8
187.facerec	2	147	29.9	2	145	30.4
188.amp	2	211	24.2	2	211	24.2
189.lucas	2	243	19.1	2	242	19.2
191.fma3d	2	252	19.3	2	252	19.3
200.sixtrack	2	179	14.2	2	178	14.3
301.apsi	2	273	22.1	2	275	21.9

Hardware

CPU: Intel Xeon (3.2GHz, 533MHz bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (HT Technology disabled)
CPU(s) orderable: 1,2
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: 4x512MB PC2100
Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI
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
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: basepeak=1
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
HT Technology disabled
```