



CFP2000 Result

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

SPECfp_rate2000 = 15.3
SPECfp_rate_base2000 = 15.2

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	1	107	17.4	1	105	17.6
171.swim	1	189	19.0	1	188	19.1
172.mgrid	1	158	13.2	1	158	13.3
173.applu	1	194	12.6	1	186	13.1
177.mesa	1	101	16.1	1	101	16.1
178.galgel	1	109	30.7	1	109	30.8
179.art	1	137	22.0	1	130	23.3
183.quake	1	107	14.1	1	105	14.3
187.facerec	1	132	16.7	1	130	17.0
188.amp	1	195	13.1	1	195	13.1
189.lucas	1	139	16.7	1	140	16.6
191.fma3d	1	192	12.7	1	192	12.7
200.sixtrack	1	178	7.15	1	177	7.20
301.apsi	1	244	12.3	1	244	12.4

Hardware

CPU: Intel Xeon (3.2GHz, 533MHz bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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
```