



CFP2000 Result

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Hewlett-Packard Company
ProLiant ML370 G4 (3.4GHz, Intel Xeon)

SPECfp_rate2000 = 25.4
SPECfp_rate_base2000 = 24.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	80.7	46.0	2	80.5	46.1
171.swim	2	272	26.4	2	272	26.4
172.mgrid	2	181	23.1	2	181	23.1
173.applu	2	232	21.0	2	236	20.6
177.mesa	2	94.1	34.5	2	93.9	34.6
178.galgel	2	189	35.5	2	189	35.5
179.art	2	429	14.1	2	416	14.5
183.equake	2	116	26.0	2	86.8	34.7
187.facerec	2	139	31.8	2	135	32.6
188.amp	2	254	20.1	2	254	20.1
189.lucas	2	182	25.5	2	181	25.6
191.fma3d	2	200	24.3	2	200	24.3
200.sixtrack	2	181	14.1	2	181	14.1
301.apsi	2	274	22.1	2	272	22.2

Hardware

CPU: Intel Xeon (3.4GHz, 1MB L2, 800MHz bus)
CPU MHz: 3400
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (HT Technology disabled)
CPU(s) orderable: 1,2
Parallel: --
Primary Cache: 16K micro-ops I + 16KBD on chip
Secondary Cache: 1024KB(I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 8x512MB DDR2-400
Disk Subsystem: 1x18.2GB 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
+FDO*: FDO (-QxP not used in PASS1 to enable cross-compilation)

Base tuning for All Programs: -QxP -fast +FDO*

Portability flags:

178.galgel: -FI /F32000000

Peak tuning:

168.wupwise: -QxP -fast -Qansi_alias +FDO*
171.swim: -QxP -fast -f77rtl +FDO ONESTEP=yes
172.mgrid: -QxP -fast -Qansi_alias +FDO*
173.applu: -QxP -fast -Qscalar_rep- -Qauto -f77rtl +FDO* ONESTEP=yes
177.mesa: -QxP -fast +FDO* ONESTEP=yes
178.galgel: -QxP -fast +FDO*
179.art: -fast -Oa -Qunroll4 -Zp4 ONESTEP=yes
183.equake: -QxP -fast -Oa -Qrcd +FDO* shlw32M.lib
187.facerec: -QaxP -fast -Qunroll11 -Qscalar_rep- -fpp +FDO*
188.amp: basepeak=1



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Notes/Tuning Information (Continued)

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189.lucas:      -QaxP -fast
191.fma3d:      basepeak=1
200.sixtrack:   -QxP  -fast          +FDO*
301.apsi:       -QxP  -fast          -f77rtl +FDO*
BIOS Configuration Notes
HT Technology disabled
```