



CFP2000 Result

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

SPECfp_rate2000 = 17.3
SPECfp_rate_base2000 = 17.1

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	1	70.2	26.4	1	70.2	26.4
171.swim	1	138	26.1	1	138	26.1
172.mgrid	1	138	15.2	1	138	15.2
173.applu	1	150	16.3	1	145	16.8
177.mesa	1	93.7	17.3	1	93.9	17.3
178.galgel	1	128	26.2	1	128	26.2
179.art	1	209	14.4	1	213	14.2
183.quake	1	76.5	19.7	1	64.9	23.2
187.facerec	1	109	20.2	1	109	20.2
188.amp	1	224	11.4	1	224	11.4
189.lucas	1	99.4	23.3	1	98.1	23.6
191.fma3d	1	150	16.2	1	150	16.2
200.sixtrack	1	180	7.07	1	180	7.07
301.apsi	1	233	13.0	1	233	13.0

Hardware

CPU: Intel Xeon (3.4GHz, 1MB L2, 800MHz bus)
CPU MHz: 3400
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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.quake: -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
```