



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL380 G4 (3.4GHz, Intel Xeon)

SPECfp_rate2000 = 24.3
SPECfp_rate_base2000 = 23.3

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	87.6	42.4	2	86.5	42.9
171.swim	2	321	22.4	2	306	23.5
172.mgrid	2	200	20.9	2	192	21.8
173.applu	2	267	18.2	2	256	19.0
177.mesa	2	95.7	34.0	2	94.8	34.3
178.galgel	2	201	33.4	2	196	34.3
179.art	2	402	15.0	2	377	16.0
183.equake	2	128	23.5	2	94.8	31.8
187.facerec	2	144	30.6	2	142	31.0
188.amp	2	273	18.7	2	273	18.7
189.lucas	2	201	23.0	2	192	24.1
191.fma3d	2	211	23.0	2	211	23.0
200.sixtrack	2	182	14.0	2	182	14.1
301.apsi	2	272	22.2	2	267	22.6

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: No
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: 4x512MB 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 -Qansi_alias +FDO*

Portability flags:

178.galgel: -FI /F32000000

Peak tuning:

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



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Notes/Tuning Information (Continued)

189.lucas: -QxP -fast -Qprefetch- +FDO*
191.fma3d: basepeak=1
200.sixtrack: -QxP -fast +FDO*
301.apsi: -QxP -fast +FDO*
BIOS Configuration Notes
HT Technology disabled
Adjacent Sector Prefetch disabled