



CFP2000 Result

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Hewlett-Packard Company
ProLiant ML370 G4 (3.6GHz, Intel Xeon)

SPECfp_rate2000 = 25.8
SPECfp_rate_base2000 = 25.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	78.6	47.2	2	78.8	47.1
171.swim	2	273	26.4	2	273	26.4
172.mgrid	2	180	23.2	2	180	23.2
173.applu	2	238	20.5	2	236	20.7
177.mesa	2	89.0	36.5	2	89.3	36.4
178.galgel	2	188	35.8	2	188	35.8
179.art	2	427	14.1	2	418	14.4
183.equake	2	116	26.1	2	86.5	34.9
187.facerec	2	135	32.7	2	135	32.6
188.amp	2	247	20.6	2	247	20.6
189.lucas	2	182	25.6	2	182	25.5
191.fma3d	2	196	24.9	2	196	24.9
200.sixtrack	2	171	14.9	2	171	14.9
301.apsi	2	266	22.7	2	262	23.0

Hardware

CPU: Intel Xeon (3.6GHz, 1MB L2, 800MHz bus)
CPU MHz: 3600
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: 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 Base tuning: -QxP -fast -Qansi_alias +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 ONESTEP=yes
179.art: -fast -Oa -Qunroll4 -Zp4 ONESTEP=yes
183.equake: -QxP -fast -Oa -Qrcd +FDO ONESTEP=yes shlw32M.lib
187.facerec: -QaxN -fast -Qunroll1 -Qscalar_rep- -fpp +FDO ONESTEP=yes



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Notes/Tuning Information (Continued)

```
188. ammp:      basepeak=1
189. lucas:     -QaxN -fast
191. fma3d:     basepeak=1
200. sixtrack: -QxP  -fast
301. psi:       -QxP  -fast
                +FDO*
                -f77rtl +FDO ONESTEP=yes
BIOS Configuration Notes
HT Technology disabled
```