



CFP2000 Result

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

SPECfp_rate2000 = 31.2
SPECfp_rate_base2000 = 31.0

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2005 Hardware Avail: Feb-2005 Software Avail: Feb-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	74.4	49.9	2	74.3	50.0
171.swim	2	277	26.0	2	277	26.0
172.mgrid	2	181	23.1	2	181	23.1
173.applu	2	222	21.9	2	216	22.5
177.mesa	2	90.1	36.0	2	90.0	36.1
178.galgel	2	102	66.1	2	103	65.6
179.art	2	92.5	65.2	2	107	56.4
183.quake	2	112	26.8	2	83.1	36.3
187.facerec	2	128	34.4	2	138	31.9
188.amp	2	187	27.3	2	187	27.3
189.lucas	2	172	27.0	2	173	26.9
191.fma3d	2	189	25.8	2	189	25.8
200.sixtrack	2	171	14.9	2	171	14.9
301.apsi	2	215	28.1	2	215	28.1

Hardware

CPU: Intel Xeon (3.6GHz, 2MB L2, 800MHz bus)
CPU MHz: 3600
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 12K micro-ops I + 16KBD on chip
Secondary Cache: 2048KB(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 8.1 Build 20040802Z
Intel Fortran Compiler 8.1 build 20040802Z
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 Base tuning: -fast -Qansi_alias +FDO

Portability flags:
178.galgel: -FI /F32000000

Peak tuning:

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



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Notes/Tuning Information (Continued)

```
189.lucas:      -QaxN -fast
191.fma3d:      basepeak=1
200.sixtrack:   -fast
301.apsi:       -fast
                +FDO
                -f77rtl +FDO ONESTEP=yes
```

BIOS Configuration Notes
Hyper-Threading Technology disabled