



CFP2000 Result

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Hewlett-Packard Company

ProLiant BL20P G4 (3.73GHz, Intel Xeon processor 5080)

SPECfp_rate2000 = 22.5

SPECfp_rate_base2000 = 22.4

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jun-2006 Hardware Avail: Jun-2006 Software Avail: May-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	45.3	41.0	1	45.2	41.0
171.swim	1	118	30.5	1	118	30.5
172.mgrid	1	113	18.5	1	113	18.5
173.applu	1	118	20.7	1	118	20.7
177.mesa	1	86.8	18.7	1	86.4	18.8
178.galgel	1	77.1	43.6	1	77.1	43.6
179.art	1	57.6	52.3	1	57.6	52.3
183.quake	1	45.2	33.4	1	45.2	33.4
187.facerec	1	118	18.7	1	118	18.7
188.amp	1	193	13.2	1	185	13.8
189.lucas	1	116	20.0	1	115	20.1
191.fma3d	1	131	18.6	1	131	18.6
200.sixtrack	1	150	8.54	1	150	8.53
301.apsi	1	201	15.0	1	201	15.0

Hardware

CPU: Intel Xeon processor 5080 (3.73GHz, 2x2MB L2, 1066MHz bus)
CPU MHz: 3730
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 1,2 chips
Parallel: No
Primary Cache: 12K micro-ops I + 16KBD (on chip) per core
Secondary Cache: 2048KB(I+D) (on chip) per core
L3 Cache: N/A
Other Cache: N/A
Memory: 8x1024MB PC2-5300F
Disk Subsystem: 1x36GB 10K SAS
Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise SP1
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)
Intel Fortran Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)
Microsoft Visual Studio .NET 7.0.9466 (for libraries)
MicroQuill Smarheap Library 7.0
File System: NTFS
System State: Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for Fortran programs: -fast -Qansi_alias +FDO
Base tuning for C programs: -fast +FDO shlw32M.lib
Portability flags:
 178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -fast -Qansi_alias +FDO
171.swim: -fast +FDO ONESTEP=yes
172.mgrid: -fast -Qansi_alias +FDO
173.applu: basepeak=1
177.mesa: -fast +FDO ONESTEP=yes
178.galgel: basepeak=1
179.art: basepeak=1
183.quake: -fast -Oa -Qrcd +FDO ONESTEP=yes shlw32M.lib
187.facerec: -fast -Qunroll1 -Qscalar_rep- +FDO ONESTEP=yes
188.amp: -fast -Qansi_alias +FDO
189.lucas: -fast
```



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Notes/Tuning Information (Continued)

191.fma3d: basepeak=1
200.sixtrack: -fast +FDO
301.apsi: basepeak=1
BIOS Configuration Notes
Power Regulator set to Static High Performance Mode
Hyper-Threading Technology disabled