



CFP2000 Result

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Hewlett-Packard Company
ProLiant ML310 G4 (2.66 GHz, Intel Xeon processor 3070)

SPECfp_rate2000 = 47.2
SPECfp_rate_base2000 = 47.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	50.1	74.1	2	50.1	74.1
171.swim	2	218	33.1	2	217	33.1
172.mgrid	2	140	29.9	2	140	29.9
173.applu	2	162	30.1	2	162	30.1
177.mesa	2	54.1	60.1	2	53.8	60.4
178.galgel	2	57.4	117	2	57.4	117
179.art	2	47.6	127	2	47.6	127
183.quake	2	59.7	50.5	2	59.6	50.6
187.facerec	2	80.1	55.0	2	81.0	54.4
188.amp	2	138	36.9	2	127	40.2
189.lucas	2	127	36.5	2	127	36.5
191.fma3d	2	136	35.8	2	136	35.8
200.sixtrack	2	105	24.4	2	105	24.4
301.apsi	2	153	39.4	2	153	39.4

Hardware

CPU: Intel Xeon processor 3070 (2.66GHz, 4MB L2 shared, 1066 MHz bus)
CPU MHz: 2660
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1 chip
Parallel: No
Primary Cache: 32 KB I+ 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip
L3 Cache: N/A
Other Cache: N/A
Memory: 4 GB (2x2 GB PC2-5300E)
Disk Subsystem: 1x80 GB SATA150
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 Smartheap 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
BIOS Configuration Notes
Power Regulator set to Static High Performance Mode