



CFP2000 Result

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Hewlett-Packard Company
ProLiant ML310 G4 (2.4 GHz, Intel Xeon processor 3060)

SPECfp_rate2000 = 44.9
SPECfp_rate_base2000 = 44.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	52.0	71.3	2	51.6	72.0
171.swim	2	213	33.7	2	212	34.0
172.mgrid	2	138	30.2	2	138	30.3
173.applu	2	167	29.2	2	167	29.2
177.mesa	2	59.8	54.4	2	59.3	54.8
178.galgel	2	64.3	105	2	64.3	105
179.art	2	50.0	121	2	50.0	121
183.quake	2	60.7	49.7	2	61.0	49.5
187.facerec	2	86.8	50.8	2	86.8	50.8
188.amp	2	155	32.9	2	138	37.0
189.lucas	2	129	35.9	2	130	35.7
191.fma3d	2	143	34.0	2	143	34.0
200.sixtrack	2	116	22.0	2	116	22.0
301.apsi	2	164	36.8	2	164	36.8

Hardware

CPU: Intel Xeon processor 3060 (2.4GHz, 4MB L2 shared, 1066 MHz bus)
CPU MHz: 2400
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