



# CFP2000 Result

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## Hewlett-Packard Company

ProLiant ML310 G3 (3.0GHz, Intel Pentium D Processor 930)

SPECfp\_rate2000 = 34.0

SPECfp\_rate\_base2000 = 33.3

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2006 Hardware Avail: Feb-2006 Software Avail: Oct-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	72.1	51.5	2	72.2	51.4
171.swim	2	220	32.8	2	220	32.7
172.mgrid	2	150	27.8	2	150	27.8
173.applu	2	180	27.1	2	177	27.6
177.mesa	2	107	30.4	2	107	30.4
178.galgel	2	98.0	68.7	2	98.3	68.5
179.art	2	81.0	74.5	2	81.0	74.5
183.quake	2	89.7	33.6	2	66.9	45.1
187.facerec	2	114	38.8	2	114	38.7
188.amp	2	204	25.0	2	204	25.0
189.lucas	2	146	31.7	2	149	31.2
191.fma3d	2	180	27.1	2	180	27.1
200.sixtrack	2	183	13.9	2	184	13.9
301.apsi	2	226	26.7	2	226	26.7

### Hardware

CPU: Intel Pentium D Processor 930 (3.0GHz, 2x2MB L2, 800MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1  
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: 4x1024MB PC2-4200  
Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.0 Build 20051020Z)  
Intel Fortran Compiler for 32-bit applications, (Version 9.0 Build 20051020Z)  
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: -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: basepeak=1

183.quake: -fast -Oa -Qrcd +FDO ONESTEP=yes shlw32M.lib

187.facerec: -fast -Qunroll1 -Qscalar\_rep- +FDO ONESTEP=yes

188.amp: basepeak=1

189.lucas: -fast



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## Notes/Tuning Information (Continued)

191.fma3d: basepeak=1  
200.sixtrack: -fast +FDO  
301.apsi: basepeak=1