



# CFP2000 Result

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Hewlett-Packard Company  
ProLiant BL20p G3 (3.8GHz, Intel Xeon)

SPECfp\_rate2000 = 22.4  
SPECfp\_rate\_base2000 = 22.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	117	31.7	2	117	31.6
171.swim	2	257	28.0	2	258	27.8
172.mgrid	2	203	20.6	2	203	20.6
173.applu	2	280	17.4	2	280	17.4
177.mesa	2	163	19.9	2	163	19.9
178.galgel	2	183	36.8	2	187	36.0
179.art	2	174	34.7	2	174	34.7
183.quake	2	115	26.3	2	93.3	32.3
187.facerec	2	170	26.0	2	170	25.9
188.amp	2	339	15.1	2	339	15.1
189.lucas	2	212	21.8	2	194	23.9
191.fma3d	2	274	17.8	2	274	17.8
200.sixtrack	2	241	10.6	2	241	10.6
301.apsi	2	342	17.6	2	342	17.6

### Hardware

CPU: Intel Xeon (3.8GHz, 2MB L2, 800MHz bus)  
 CPU MHz: 3800  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology enabled)  
 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: 4x2048MB PC2-3200 Dual Rank  
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
 Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise Edition SP1  
 Compiler: Intel C++ Compiler for 32-bit applications, (Version 8.1 Build 20050524Z)  
 Intel Fortran Compiler for 32-bit applications, (Version 8.1 Build 20050517Z)  
 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- -fpp

+FDO ONESTEP=yes

188.amp: basepeak=1



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## Notes/Tuning Information (Continued)

189.lucas: -fast  
191.fma3d: basepeak=1  
200.sixtrack: -fast +FDO  
301.apsi: basepeak=1  
BIOS Configuration Notes  
Hyper-Threading Technology enabled