



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL580 G4 (3.4GHz, Intel Xeon processor 7140M)

SPECfp_rate2000 = 63.9
SPECfp_rate_base2000 = 63.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	162	91.5	8	162	91.5
171.swim	8	786	36.6	8	786	36.6
172.mgrid	8	465	35.9	8	465	35.9
173.applu	8	543	35.9	8	543	35.9
177.mesa	8	197	66.1	8	197	66.0
178.galgel	8	148	182	8	148	182
179.art	8	98.8	244	8	98.8	244
183.quake	8	177	68.1	8	177	68.0
187.facerec	8	230	76.6	8	228	77.2
188.amp	8	307	66.4	8	313	65.3
189.lucas	8	507	36.6	8	507	36.6
191.fma3d	8	427	45.7	8	427	45.7
200.sixtrack	8	267	38.3	8	267	38.3
301.apsi	8	355	67.9	8	355	67.9

Hardware

CPU: Intel Xeon processor 7140M (800MHz system bus)
 CPU MHz: 3400
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip (Hyper-Threading Technology enabled)
 CPU(s) orderable: 1,2,4 chips
 Parallel: No
 Primary Cache: 12 K I micro-ops + 16 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: 16 MB on chip per chip
 Other Cache: N/A
 Memory: 32 GB (16x2048MB PC2-3200 dual-rank)
 Disk Subsystem: 1x36 GB 10 K 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 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



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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