



CFP2000 Result

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Hewlett-Packard Company
ProLiant BL40p (2.8GHz, Intel Xeon MP)

SPECfp_rate2000 = 18.2
SPECfp_rate_base2000 = 17.7

SPEC license #: 3 | Test date: Sep-2003 | Hardware Avail: Jul-2003 | Software Avail: Jun-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	145	25.6	2	146	25.4
171.swim	2	591	12.2	2	591	12.2
172.mgrid	2	332	12.6	2	331	12.6
173.applu	2	452	10.8	2	450	10.8
177.mesa	2	125	26.0	2	127	25.7
178.galgel	2	149	45.0	2	149	45.0
179.art	2	304	19.8	2	271	22.2
183.quake	2	211	14.3	2	163	18.5
187.facerec	2	192	22.9	2	193	22.9
188.amp	2	246	20.7	2	246	20.7
189.lucas	2	369	12.6	2	369	12.6
191.fma3d	2	308	15.8	2	308	15.8
200.sixtrack	2	209	12.2	2	207	12.3
301.apsi	2	327	18.4	2	328	18.4

Hardware

CPU: Intel Xeon MP (2.8GHz, 400MHz bus)
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading disabled)
 CPU(s) orderable: 1,2,4
 Parallel: No
 Primary Cache: 12K micro-ops I + 8KBD on chip
 Secondary Cache: 512KB(I+D) on chip
 L3 Cache: 2048KB(I+D) on chip
 Other Cache: N/A
 Memory: 2x512MB PC2100
 Disk Subsystem: 2x36.4GB 15K Ultra320 SCSI
 Other Hardware:

Software

Operating System: Windows 2000 Advanced Server (Build 2195 SP3)
 Compiler: Intel C++ Compiler 7.1 Build 20030813Z
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)
 Intel Fortran Compiler 7.1 build 20030813Z
 MicroQuill Smartheap Library 7.0
 File System: NTFS
 System State: Hyperthreading disabled in BIOS

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning: -QxW -Qipo -O3 +FDO ONESTEP=yes
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -Qipo -QxW +FDO ONESTEP=yes
171.swim: -Qipo -QxW -O3 +FDO ONESTEP=yes
172.mgrid: -Qipo -QaxW -O3 +FDO ONESTEP=yes
173.applu: -Qipo -QxW -O3 -Qscalar_rep- -Qauto +FDO ONESTEP=yes
177.mesa: -Qipo -QxW -O3 +FDO ONESTEP=yes
178.galgel: -Qipo -QxW -O3 +FDO ONESTEP=yes
179.art: -Qipo -Oa -Qunroll4 -Zp4 ONESTEP=yes
183.quake: -Qipo -QxW -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
187.facerec: -Qipo -QaxW -O3 -Qunroll1 -Qscalar_rep- +FDO ONESTEP=yes
188.amp: -QxW -Oa ONESTEP=yes
189.lucas: -Qipo -QaxW
191.fma3d: basepeak=1
```



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Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxW +FDO ONESTEP=yes
301.apsi: -Qipo -QxW -O3 +FDO ONESTEP=yes