



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL140 (3.2GHz/1MB L3 cache, Intel Xeon)

SPECfp_rate2000 = 11.4
SPECfp_rate_base2000 = 11.1

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Nov-2003 Hardware Avail: Nov-2003 Software Avail: Nov-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	118	15.8	1	118	15.7
171.swim	1	275	13.1	1	272	13.2
172.mgrid	1	191	10.9	1	188	11.1
173.applu	1	258	9.44	1	254	9.59
177.mesa	1	109	14.9	1	109	14.9
178.galgel	1	195	17.3	1	194	17.4
179.art	1	477	6.32	1	466	6.48
183.quake	1	137	11.0	1	113	13.3
187.facerec	1	149	14.8	1	147	15.0
188.amp	1	311	8.22	1	307	8.30
189.lucas	1	185	12.5	1	183	12.7
191.fma3d	1	222	11.0	1	222	11.0
200.sixtrack	1	187	6.81	1	184	6.93
301.apsi	1	287	10.5	1	286	10.6

Hardware

CPU: Intel Xeon (3.2GHz, 533MHz bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading disabled)
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 12K micro-ops I + 8KBD on chip
Secondary Cache: 512KB(I+D) on chip
L3 Cache: 1024KB(I+D) on chip
Other Cache: N/A
Memory: 4x512MB PC2100
Disk Subsystem: 1x80GB ATA/100 7200 rpm
Other Hardware:

Software

Operating System: Windows 2000 Server(Build 2195 SP3)
Compiler: Intel C++ Compiler 7.1 Build 20030813Z
Intel Fortran Compiler 7.1 build 20030813Z
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 all programs: -QxW -Qipo -O3 +FDO ONESTEP=yes
Portability flags:
 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 -Qunroll11 -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
BIOS Configuration Notes
Hyper Threading disabled