



CFP2000 Result

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Hewlett-Packard Company
ProLiant DL740 (3.0GHz, Intel Xeon MP)

SPECfp_rate2000 = 25.4
SPECfp_rate_base2000 = 24.7

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Mar-2004 Hardware Avail: Feb-2004 Software Avail: Sep-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	344	21.6	4	336	22.1
171.swim	4	1267	11.4	4	1265	11.4
172.mgrid	4	813	10.3	4	809	10.3
173.applu	4	1011	9.64	4	1007	9.68
177.mesa	4	168	38.6	4	168	38.6
178.galgel	4	117	115	4	114	118
179.art	4	91.8	131	4	96.0	126
183.quake	4	543	11.1	4	468	12.9
187.facerec	4	283	31.1	4	279	31.6
188.amp	4	218	46.8	4	183	55.9
189.lucas	4	661	14.0	4	658	14.1
191.fma3d	4	679	14.3	4	679	14.3
200.sixtrack	4	194	26.3	4	190	26.8
301.apsi	4	468	25.8	4	468	25.8

Hardware

CPU: Intel Xeon MP (3.0GHz, 100MHz bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
CPU(s) orderable: 1,2,4,8
Parallel: No
Primary Cache: 12K micro-ops I + 8KBD on chip
Secondary Cache: 512KB(I+D) on chip
L3 Cache: 4096KB(I+D) on chip
Other Cache: N/A
Memory: 8x1024MB 133MHz SDRAM
Disk Subsystem: 1x18.2GB 15K Ultra320 SCSI
Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise (Build 3790)
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 FORTRAN 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 -Oi- ONESTEP=yes
178.galgel: -Qipo -QxW -O3 +FDO ONESTEP=yes
179.art: -QxW -Qipo -Oi- -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