CFP2000 Result

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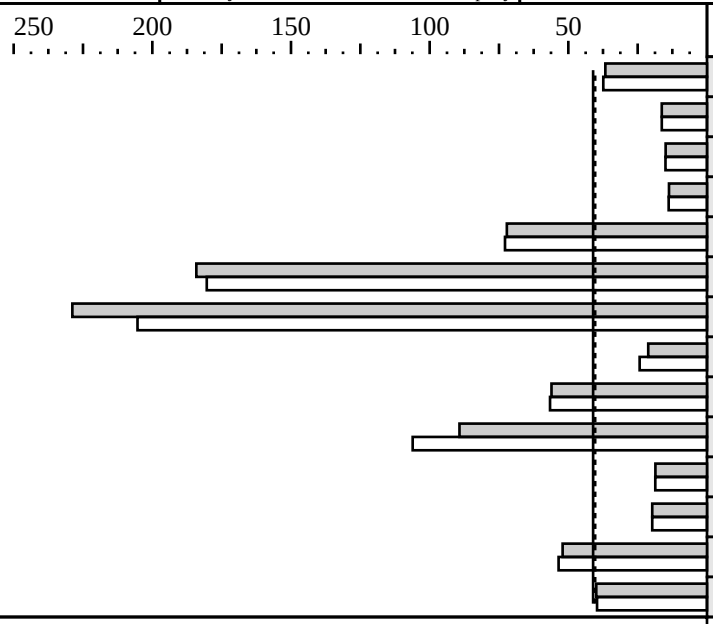
Hewlett-Packard Company
ProLiant DL740 (3.0GHz, Intel Xeon MP)

SPECfp_rate2000 = 41.1

SPECfp_rate_base2000 = 40.3

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	8	405	36.7	8	397	37.4
171.swim	8	1764	16.3	8	1764	16.3
172.mgrid	8	1120	14.9	8	1116	15.0
173.applu	8	1422	13.7	8	1410	13.8
177.mesa	8	180	72.2	8	178	72.8
178.galgel	8	146	184	8	149	180
179.art	8	105	229	8	118	205
183.equake	8	569	21.2	8	497	24.3
187.facerec	8	314	56.1	8	312	56.6
188.ammp	8	229	89.3	8	192	106
189.lucas	8	998	18.6	8	995	18.6
191.fma3d	8	987	19.7	8	987	19.7
200.sixtrack	8	196	52.1	8	191	53.5
301.apsi	8	604	39.9	8	609	39.6

Hardware

CPU:	Intel Xeon MP (3.0GHz, 100MHz bus)
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 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.equake:     -Qipo -QxW  -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
  187.facerec:    -Qipo -QaxW  -O3 -Qunroll1 -Qscalar_rep- +FDO ONESTEP=yes
  188.ammp:       -QxW  -Oa ONESTEP=yes
  189.lucas:      -Qipo -QaxW
  191.fma3d:      basepeak=1
```

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Notes/Tuning Information (Continued)

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    200.sixtrack:   -Qipo -QxW  +FDO ONESTEP=yes
    301.apsi:       -Qipo -QxW  -O3 +FDO ONESTEP=yes
  BIOS Configuration Notes
    Hyper Threading disabled
```