



# CINT2000 Result

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

SPECint\_rate2000 = 86.2  
SPECint\_rate\_base2000 = 81.8

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
164.gzip	8	191	68.1	8	182	71.6
175.vpr	8	182	71.4	8	172	75.4
176.gcc	8	110	93.1	8	111	91.7
181.mcf	8	289	57.9	8	284	58.7
186.crafty	8	93.1	99.7	8	87.1	107
197.parser	8	206	81.0	8	197	85.0
252.eon	8	98.0	123	8	83.7	144
253.perlbnk	8	154	108	8	146	115
254.gap	8	363	28.1	8	363	28.1
255.vortex	8	160	110	8	135	131
256.bzip2	8	175	79.5	8	170	81.9
300.twolf	8	214	130	8	218	128

### Hardware

CPU: Intel Xeon MP (3.0GHz, 100MHz bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 8 cores, 8 chips, 1 core/chip (HT Technology disabled)  
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 PC133  
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  
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 C programs: -QxW -Qipo -Oi- shlw32M.lib ONESTEP=yes
Base tuning for C++ programs: -Qipo -GX -GR +FDO ONESTEP=yes
Portability flags:
 176.gcc: -Dalloca=_alloca /F10000000
 186.crafty: -DNT_i386
 253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
 254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
 164.gzip: -QxW -Oi- -Qipo -O3 +FDO ONESTEP=yes
 175.vpr: -QxW -Qipo -O3 +FDO ONESTEP=yes
 176.gcc: -QxW -Qipo -Oi- -O3 +FDO shlw32M.lib ONESTEP=yes
 181.mcf: -Oa -Qipo +FDO shlw32M.lib ONESTEP=yes
 186.crafty: -QxW -Qipo -O3 +FDO ONESTEP=yes
 197.parser: -QxW -Qipo -Oa -O3 +FDO ONESTEP=yes
 252.eon: -QxW -Qipo -O3 +FDO ONESTEP=yes
 253.perlbnk: -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
 254.gap: -QxW -Qipo -Oi- -O3 +FDO shlw32M.lib ONESTEP=yes
 255.vortex: -QxW -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
 256.bzip2: -Qunroll11 -Oa -Oi- -Qipo +FDO ONESTEP=yes
```



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## Notes/Tuning Information (Continued)

300.twolf: -QxW -Qipo -Oa -Oi- -O3 +FDO shlw32M.lib ONESTEP=yes  
BIOS Configuration Notes  
HT Technology disabled