



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL560 (2.8GHz, Intel Xeon MP)

SPECint_rate2000 = 26.8
SPECint_rate_base2000 = 25.6

SPEC license #: 3 Test by: Hewlett-Packard Company, Houston TX Test date: Sep-2003 Hardware Avail: Jul-2003 Software Avail: Jun-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	130	25.0	2	130	24.9
175.vpr	2	160	20.2	2	158	20.5
176.gcc	2	87.3	29.2	2	72.5	35.2
181.mcf	2	330	12.7	2	319	13.1
186.crafty	2	92.8	25.0	2	92.7	25.0
197.parser	2	163	25.6	2	163	25.6
252.eon	2	108	28.0	2	90.6	33.3
253.perlbnk	2	141	29.6	2	132	31.7
254.gap	2	90.8	28.1	2	91.9	27.8
255.vortex	2	110	40.2	2	110	40.1
256.bzip2	2	157	22.2	2	152	22.9
300.twolf	2	220	31.6	2	207	33.6

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: 2x1024MB PC2100
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI
 Other Hardware:

Software

Operating System: Windows 2000 Advanced Server (Build 2195 SP3)
 Compiler: Intel C++ Compiler 7.1 Build 20030801Z
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)
 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 for C programs: -QxW -Qipo -O3 +FDO 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 -Qipo -O3 +FDO ONESTEP=yes
175.vpr: -QxW -Qipo -O3 +FDO ONESTEP=yes
176.gcc: -QxW -Qipo -O3 -Oi- +FDO ONESTEP=yes
181.mcf: -Oa -Qipo +FDO shlw32M.lib ONESTEP=yes
186.crafty: -QxW -Qipo -O3 +FDO ONESTEP=yes
197.parser: -QxW -Qipo -O3 -Oa +FDO ONESTEP=yes
252.eon: -QxW -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
253.perlbnk: -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes
254.gap: -QxW -Qipo -O3 +FDO ONESTEP=yes
255.vortex: -QxW -Qipo -O3 +FDO ONESTEP=yes
256.bzip2: -Qunroll1 -Qipo -Oa +FDO ONESTEP=yes
```



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Notes/Tuning Information (Continued)

300.twolf: -QxW -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes