



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL580 G2 (3.0GHz, Intel Xeon MP)

SPECint_rate2000 = 17.3
SPECint_rate_base2000 = 16.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	114	14.3	1	114	14.2
175.vpr	1	126	12.9	1	126	12.9
176.gcc	1	68.3	18.7	1	64.3	19.8
181.mcf	1	110	19.0	1	114	18.4
186.crafty	1	84.3	13.8	1	82.9	14.0
197.parser	1	135	15.4	1	136	15.4
252.eon	1	87.8	17.2	1	72.8	20.7
253.perlbnk	1	128	16.4	1	121	17.2
254.gap	1	74.6	17.1	1	74.7	17.1
255.vortex	1	79.0	27.9	1	80.6	27.3
256.bzip2	1	111	15.7	1	109	16.0
300.twolf	1	190	18.3	1	186	18.7

Hardware

CPU: Intel Xeon MP (3.0GHz, 400MHz bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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: 4096KB(I+D) on chip
Other Cache: N/A
Memory: 16x512MB PC1600
Disk Subsystem: 2x18.2GB 15K Ultra320 SCSI
Other Hardware:

Software

Operating System: Windows 2000 Advanced Server (Build 2195 SP3)
Compiler: Intel C++ Compiler 8.0 Build 20031211Z
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: -QxN -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: -QxN -Qipo -Oa -O3 +FDO ONESTEP=yes
175.vpr: -QxN -Qipo -O3 +FDO ONESTEP=yes
176.gcc: -QxN -Qipo -Oi- -O3 +FDO ONESTEP=yes
181.mcf: -QxN -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
186.crafty: -QxN -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
197.parser: -QxN -Qipo -O3 +FDO ONESTEP=yes
252.eon: -QxN -Qipo -O3 +FDO ONESTEP=yes
253.perlbnk: -Qipo -Oa -O3 +FDO shlw32M.lib ONESTEP=yes
254.gap: -QxN -Qipo -O3 +FDO ONESTEP=yes
255.vortex: -QxN -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
256.bzip2: -Qunroll1 -Oa -Qipo +FDO ONESTEP=yes
```



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Notes/Tuning Information (Continued)

300.twolf: -QxN -Qipo -O3 +FDO shlw32M.lib ONESTEP=yes
BIOS Configuration Notes
Hyper Threading disabled