



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL40p (2.8GHz, Intel Xeon MP)

SPECint_rate2000 = 14.5
SPECint_rate_base2000 = 14.0

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	1	128	12.6	1	128	12.7
175.vpr	1	146	11.1	1	145	11.2
176.gcc	1	76.3	16.7	1	69.8	18.3
181.mcf	1	212	9.86	1	206	10.2
186.crafty	1	92.0	12.6	1	92.0	12.6
197.parser	1	160	13.1	1	158	13.2
252.eon	1	105	14.4	1	91.2	16.5
253.perlbnk	1	140	14.9	1	133	15.8
254.gap	1	77.6	16.5	1	77.4	16.5
255.vortex	1	103	21.4	1	103	21.4
256.bzip2	1	145	12.0	1	139	12.5
300.twolf	1	217	16.0	1	206	16.9

Hardware

CPU: Intel Xeon MP (2.8GHz, 400MHz bus)
CPU MHz: 2800
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: 2048KB(I+D) on chip
Other Cache: N/A
Memory: 4x512MB PC2100
Disk Subsystem: 2x36.4GB 15K Ultra320 SCSI
Other Hardware:

Software

Operating System: Windows 2000 Advanced Server (Build 2195 SP3)
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: 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