



CINT2000 Result

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Hewlett-Packard Company
ProLiant ML370 G4 (3.6GHz, Intel Xeon)

SPECint_rate2000 = 18.1
SPECint_rate_base2000 = 17.6

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jul-2004 Hardware Avail: Nov-2004 Software Avail: Aug-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	118	13.8	1	119	13.7
175.vpr	1	142	11.4	1	137	11.8
176.gcc	1	58.9	21.7	1	58.9	21.7
181.mcf	1	150	13.9	1	150	13.9
186.crafty	1	74.9	15.5	1	74.9	15.5
197.parser	1	133	15.7	1	133	15.8
252.eon	1	73.6	20.5	1	61.6	24.5
253.perlbnk	1	97.1	21.5	1	94.4	22.1
254.gap	1	59.6	21.4	1	58.7	21.7
255.vortex	1	69.9	31.5	1	69.8	31.6
256.bzip2	1	135	12.9	1	132	13.2
300.twolf	1	170	20.5	1	170	20.4

Hardware

CPU: Intel Xeon (3.6GHz, 1MB L2, 800MHz bus)
 CPU MHz: 3600
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT Technology disabled)
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 16K micro-ops I + 16KBD on chip
 Secondary Cache: 1024KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8x512MB DDR2-400
 Disk Subsystem: 1x18.2GB 15K Ultra320 SCSI
 Other Hardware:

Software

Operating System: Windows Server 2003 Standard (Build 3790)
 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
 +FDO*: FDO (-QxP not used in PASS1 to enable cross-compilation)

Base tuning for C programs: -QxP -fast +FDO* shlw32M.lib

Base tuning for C++ programs: -QxP -fast -GX -GR

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: -QxP -fast -Oa +FDO ONESTEP=yes

175.vpr: -QxP -fast +FDO ONESTEP=yes

176.gcc: basepeak = 1

181.mcf: -QxP -fast +FDO ONESTEP=yes shlw32M.lib

186.crafty: -QxP -fast -Oa +FDO ONESTEP=yes shlw32M.lib

197.parser: -QxP -fast +FDO ONESTEP=yes

252.eon: -QxP -O2 -Qipo +FDO*

253.perlbnk: -fast -Oa +FDO ONESTEP=yes shlw32M.lib

254.gap: -QxP -fast +FDO ONESTEP=yes



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Notes/Tuning Information (Continued)

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255.vortex:      -QxP -fast          +FDO  ONESTEP=yes  shlw32M.lib
256.bzip2:       -fast -Oa -Qunroll1 +FDO  ONESTEP=yes  shlw32M.lib
300.twolf:       -QxP -fast -O3      +FDO*                shlw32M.lib
BIOS Configuration Notes
HT Technology disabled
```