



CINT2000 Result

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Hewlett-Packard Company
ProLiant ML370 G4 (3.8GHz, Intel Xeon)

SPECint_rate2000 = 22.6
SPECint_rate_base2000 = 21.9

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2005 Hardware Avail: Sep-2005 Software Avail: May-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	189	17.2	2	176	18.5
175.vpr	2	224	14.5	2	215	15.1
176.gcc	2	90.4	28.2	2	90.4	28.2
181.mcf	2	193	21.6	2	194	21.5
186.crafty	2	142	16.3	2	136	17.0
197.parser	2	208	20.1	2	198	21.0
252.eon	2	115	26.3	2	111	27.3
253.perlbnk	2	187	22.3	2	179	23.4
254.gap	2	107	23.9	2	102	25.0
255.vortex	2	124	35.6	2	123	35.7
256.bzip2	2	184	18.9	2	176	19.8
300.twolf	2	270	25.8	2	262	26.6

Hardware

CPU: Intel Xeon (3.8GHz, 2MB L2, 800MHz bus)
CPU MHz: 3800
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology enabled)
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 12K micro-ops I + 16KBD on chip
Secondary Cache: 2048KB(I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 8x1024MB PC2-3200
Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI
Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise SP1
Compiler: Intel C++ Compiler for 32-bit applications, (Version 8.1 Build 20050524Z)
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: -fast +FDO ONESTEP=yes shlw32M.lib

Base tuning for C++ programs: -fast -Qcxx_features +FDO ONESTEP=yes

Portability flags:

176.gcc: -Dalloca=_alloca /F10000000

186.crafty: -DNT_i386

253.perlbnk: -DSPEC_CPU2000_NTOS -DPERL DLL /MT

254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO

Peak tuning:

164.gzip: -fast +FDO ONESTEP=yes

175.vpr: -fast +FDO ONESTEP=yes

176.gcc: basepeak = 1

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

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

197.parser: -fast +FDO ONESTEP=yes

252.eon: -fast +FDO

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

254.gap: -fast +FDO ONESTEP=yes

255.vortex: -fast +FDO ONESTEP=yes shlw32M.lib



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Notes/Tuning Information (Continued)

256.bzip2: -fast -Oa -Qunroll11 +FDO ONESTEP=yes shlw32M.lib
300.twolf: -fast +FDO shlw32M.lib
BIOS Configuration Notes
Hyper-Threading Technology enabled