



CINT2000 Result

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Hewlett-Packard Company
ProLiant BL45p G2 (AMD Opteron (TM) 8218)

SPECint_rate2000 = 163
SPECint_rate_base2000 = 149

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2006 Hardware Avail: Sep-2006 Software Avail: Apr-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	99.7	130	8	99.7	130
175.vpr	8	108	120	8	107	122
176.gcc	8	60.3	169	8	61.8	165
181.mcf	8	207	80.8	8	160	104
186.crafty	8	58.8	158	8	52.7	176
197.parser	8	117	143	8	118	142
252.eon	8	52.2	231	8	39.9	303
253.perlbnk	8	99.7	168	8	99.7	168
254.gap	8	63.3	161	8	63.3	161
255.vortex	8	76.9	229	8	66.6	265
256.bzip2	8	121	115	8	116	120
300.twolf	8	181	154	8	144	194

Hardware

CPU: AMD Opteron (TM) 8218
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip
 CPU(s) orderable: 2,4 chips
 Parallel: No
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 32 GB (16x2 GB PC2-5300P CL5.0)
 Disk Subsystem: 1x36 GB 10 K SAS
 Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise SP1
 Compiler: Intel C++ Compiler for 32-bit applications, (version 9.1 Build 20060323Z) Microsoft Visual Studio .NET 7.0.9466 (for libraries) MicroQuill Smartheap Library 8.0
 File System: NTFS
 System State: Default

Notes/Tuning Information

+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use

Base tuning for C programs: -fast -arch:SSE2 -Oi- +FDO ONESTEP=yes

Base tuning for C++ programs: -fast -Qcxx_features -arch:SSE2 +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: basepeak=yes

175.vpr: -fast -arch:SSE2 -Qoption,c,-ip_ninl_max_stats=2000
-Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes

176.gcc: -fast -arch:SSE2 -Oi- -Qunroll3 +FDO

181.mcf: -O3 -Qipo -QaxN +FDO ONESTEP=yes shlw32M.lib

186.crafty: -fast -arch:SSE2 +FDO ONESTEP=yes

197.parser: -arch:SSE2 -Oi- -Qipo +FDO ONESTEP=yes

252.eon: -fast -arch:SSE2 -Qansi_alias -Qoption,c,-ip_ninl_max_stats=2000
-Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes

253.perlbnk: basepeak=yes

254.gap: basepeak=yes



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Notes/Tuning Information (Continued)

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255.vortex: -fast -arch:SSE2 -Oi- -Qoption,c,-ip_ninl_max_stats=2000
            -Qoption,c,-ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes shlw32M.lib
256.bzip2:  -O3 -Qipo -QaxN -Qunroll2 shlw32M.lib
300.twolf:  -fast -arch:SSE2 -Qansi_alias +FDO ONESTEP=yes shlw32M.lib
```

BIOS Configuration Notes
Node Interleaving Disabled

Other Configuration Notes
The start /b /wait /affinity command is used to bind CPU(s) to processes.