



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL385 (AMD Opteron (TM) 280)

SPECint_rate2000 = 75.0
SPECint_rate_base2000 = 71.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	107	60.5	4	107	60.5
175.vpr	4	111	58.6	4	107	60.6
176.gcc	4	63.6	80.2	4	62.8	81.3
181.mcf	4	210	39.8	4	167	50.0
186.crafty	4	63.7	72.9	4	57.9	80.2
197.parser	4	121	69.1	4	121	69.0
252.eon	4	54.8	110	4	50.5	119
253.perlbnk	4	113	73.8	4	113	73.8
254.gap	4	68.3	74.8	4	68.3	74.8
255.vortex	4	78.3	113	4	77.9	113
256.bzip2	4	123	56.7	4	121	57.4
300.twolf	4	186	74.7	4	155	90.1

Hardware

CPU: AMD Opteron (TM) 280
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 64KBI + 64KBD (on chip) per core
 Secondary Cache: 1024KB(I+D) (on chip) per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8x2048MB PC3200 CL3.0
 Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI
 Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise SP1
 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: -fast -arch:SSE2 -Oi- +FDO ONESTEP=yes

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

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)

255.vortex: -fast -arch:SSE2 -Oi- -Qoption,c,-ip_ninl_max_stats=2000
-Qoption,c,-ip_ninl_max_total_stats=4500 +FDO shlw32M.lib ONESTEP=yes
256.bzip2: -fast -Qunroll2
300.twolf: -fast -arch:SSE2 -Qansi_alias +FDO shlw32M.lib ONESTEP=yes
BIOS Configuration Notes
Node Interleaving Disabled
Other Configuration Notes
The start /b /wait /affinity command is used to bind CPU(s) to processes.