



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL385 (AMD Opteron (TM) 254)

SPECint_rate2000 = 22.2
SPECint_rate_base2000 = 21.1

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 | 1 | 91.1 | 17.8 | 1 | 91.1 | 17.8 |
| 175.vpr | 1 | 94.9 | 17.1 | 1 | 91.9 | 17.7 |
| 176.gcc | 1 | 53.8 | 23.7 | 1 | 53.2 | 24.0 |
| 181.mcf | 1 | 152 | 13.7 | 1 | 127 | 16.5 |
| 186.crafty | 1 | 54.8 | 21.2 | 1 | 49.9 | 23.3 |
| 197.parser | 1 | 104 | 20.1 | 1 | 104 | 20.1 |
| 252.eon | 1 | 47.0 | 32.1 | 1 | 43.1 | 35.0 |
| 253.perlbnk | 1 | 96.8 | 21.6 | 1 | 96.8 | 21.6 |
| 254.gap | 1 | 56.7 | 22.5 | 1 | 56.7 | 22.5 |
| 255.vortex | 1 | 68.0 | 32.4 | 1 | 67.4 | 32.7 |
| 256.bzip2 | 1 | 104 | 16.8 | 1 | 102 | 17.0 |
| 300.twolf | 1 | 162 | 21.5 | 1 | 133 | 26.1 |

Hardware

CPU: AMD Opteron (TM) 254
CPU MHz: 2800
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 64KBI + 64KBD on chip
Secondary Cache: 1024KB(I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 4x2048MB 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
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.