



CINT2000 Result

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

SPECint2000 = 1654
SPECint_base2000 = 1624

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	117	1195	118	1187	[Bar chart]			
175.vpr	1400	122	1150	119	1181	[Bar chart]			
176.gcc	1100	56.4	1949	56.4	1949	[Bar chart]			
181.mcf	1800	98.5	1828	99.1	1816	[Bar chart]			
186.crafty	1000	74.9	1334	75.5	1324	[Bar chart]			
197.parser	1800	125	1439	125	1436	[Bar chart]			
252.eon	1300	74.0	1757	61.6	2110	[Bar chart]			
253.perlbmk	1800	97.0	1857	95.7	1881	[Bar chart]			
254.gap	1100	61.2	1796	59.8	1838	[Bar chart]			
255.vortex	1900	66.9	2838	67.0	2838	[Bar chart]			
256.bzip2	1500	124	1210	124	1209	[Bar chart]			
300.twolf	3000	169	1774	169	1770	[Bar chart]			

Hardware

CPU: Intel Xeon (3.6GHz, 2MB L2, 800MHz bus)
CPU MHz: 3600
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)
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: 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 8.1 Build 20040802Z
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 -GX -GR

Portability flags:

176.gcc: -Dalloca=_alloca /F10000000

186.crafty: -DNT_i386

253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /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.perlbmk: -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)

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256.bzip2:          -fast -Oa -Qunroll11 +FDO  ONESTEP=yes shlw32M.lib
300.twolf:          -fast -O3          +FDO          shlw32M.lib
BIOS Configuration Notes
Hyper-Threading Technology disabled
```