



CINT2000 Result

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Bull
Express5800-140Rd4 (3.16 GHz Xeon MP)

SPECint_rate2000 = 52.0
SPECint_rate_base2000 = 52.2

SPEC license #: 20 | Tested by: Bull | Test date: Mar-2006 | Hardware Avail: Nov-2005 | Software Avail: Mar-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	138	47.2	4	138	47.0
175.vpr	4	222	29.2	4	220	29.6
176.gcc	4	79.2	64.5	4	84.4	60.5
181.mcf	4	425	19.7	4	425	19.7
186.crafty	4	86.0	54.0	4	86.3	53.8
197.parser	4	170	49.0	4	170	49.1
252.eon	4	65.0	92.8	4	65.0	92.8
253.perlbnk	4	104	80.4	4	104	80.4
254.gap	4	87.8	58.1	4	87.9	58.0
255.vortex	4	96.6	91.3	4	96.5	91.4
256.bzip2	4	215	32.4	4	214	32.4
300.twolf	4	199	69.8	4	200	69.5

Hardware

CPU: Intel Xeon Processor MP (3.16GHz, 1MB L2, 667MHz bus)
CPU MHz: 3160
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 1 to 4
Parallel: No
Primary Cache: 12KB(I) micro-ops + 16KB(D)
Secondary Cache: 1024KB(I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 4GB (1GB DIMMx4, DDR2-400, ECC)
Disk Subsystem: 1x73GB SCSI U320 15000 rpm
Other Hardware:

Software

Operating System: Windows Server 2003 R2 Enterprise Edition (32 bits)
Compiler: Intel(R) C++ Compiler for 32-bit app., Version 9.0, - Build 20060120Z Package ID: W_CC_C_9.0.029
Microsoft Visual Studio .NET 2003 (for libraries)
MicroQuill SmartHeap Library 8.0 (shlW32M.lib)
File System: NTFS
System State: Default

Notes/Tuning Information

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
```

Feedback optimization:

```
+FDO: PASS1= -Qprof_gen PASS2= -Qprof_use
```

Baseline Tuning Flags:

```
for C programs:
-fast +FDO ONESTEP=yes shlW32M.lib
for C++ program 252.eon:
-fast -Qcxx_features +FDO ONESTEP=yes
```

Peak Tuning Flags:

```
164.gzip: -fast +FDO ONESTEP=yes
175.vpr: -fast +FDO ONESTEP=yes
176.gcc: -fast +FDO ONESTEP=yes
181.mcf: -fast +FDO ONESTEP=yes shlW32M.lib
```



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Notes/Tuning Information (Continued)

```
186.crafty: -fast +FDO ONESTEP=yes
197.parser: -fast +FDO ONESTEP=yes
252.eon: -fast -Qcxx_features +FDO
253.perlbmk: -fast -Oa +FDO ONESTEP=yes shlw32M.lib
254.gap: -fast +FDO ONESTEP=yes
255.vortex -fast +FDO ONESTEP=yes shlw32M.lib
256.bzip2: -fast -Qunroll11 -Oa +FDO ONESTEP=yes shlw32M.lib
300.twolf: -fast +FDO shlw32M.lib
```

Express5800-140He and 140Rd4 are electronically equivalent
Measured on Express5800-140Rd4

For information about Bull please see:
<http://www.bull.com>