



CINT2000 Result

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Bull
Express5800-140Rd4 (3.16 GHz Xeon MP)

SPECint2000 = 1247
SPECint_base2000 = 1247

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	136	1028	136	1027	
175.vpr	1400	198	706	195	717	
176.gcc	1100	71.7	1534	72.1	1526	
181.mcf	1800	219	823	219	823	
186.crafty	1000	86.8	1151	87.3	1145	
197.parser	1800	163	1101	163	1103	
252.eon	1300	65.4	1988	65.4	1987	
253.perlbmk	1800	103	1752	103	1751	
254.gap	1100	73.5	1497	73.4	1499	
255.vortex	1900	91.4	2080	91.3	2082	
256.bzip2	1500	193	779	193	779	
300.twolf	3000	208	1445	209	1435	

Hardware

CPU: Intel Xeon Processor MP (3.16GHz, 1MB L2, 667MHz bus)
CPU MHz: 3160
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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.perlbmk: -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.perlbnk: -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
```

Other Configuration Notes

/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment

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

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