



CINT2000 Result

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Bull
NovaScale 4040 (1500MHz)

SPECint2000 = **1232**
SPECint_base2000 = **1217**

SPEC license #: 20 Tested by: Allaoua Test date: Nov-2003 Hardware Avail: Sep-2003 Software Avail: Jan-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	153	915	153	915	
175.vpr	1400	139	1010	139	1010	
176.gcc	1100	84.1	1308	80.1	1374	
181.mcf	1800	100	1798	94.3	1908	
186.crafty	1000	83.4	1200	82.5	1212	
197.parser	1800	193	930	193	933	
252.eon	1300	86.3	1506	86.3	1506	
253.perlbnk	1800	152	1186	152	1186	
254.gap	1100	138	796	138	796	
255.vortex	1900	98.9	1921	96.4	1970	
256.bz2	1500	128	1168	128	1168	
300.twolf	3000	220	1365	220	1365	

Hardware

CPU: Itanium 2 processor 1500 MHz
 CPU MHz: 1500
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 to 4
 Parallel: No
 Primary Cache: 16KBI + 16KBD on chip
 Secondary Cache: 256KB(I+D) on chip
 L3 Cache: 6MB (I+D) on chip
 Other Cache: N/A
 Memory: 4 GB (16 * 256 MB DIMMs)
 Disk Subsystem: 1 SCSI Maxtor 10krpm 36GB
 Other Hardware:

Software

Operating System: Bull Advanced Server 3 (Linux 64 bits)
 Compiler: Intel(R) C++ Compiler for Linux 8 (Build 20030916)
 File System: MicroQuill SmartHeap Library 7.01 (www.microquill.com)
 System State: ext2
 Multiuser

Notes/Tuning Information

+FDO: PASS1=-prof_gen PASS2=-prof_use

Baseline optimization flags:

C programs: -fast -auto_ilp32 +FDO

C++ programs: -fast -ansi_alias +FDO

Extra Library: libsmartheap64.a (smh)

Portability Flags:

176.gcc: -DSPEC_CPU2000_LP64 -Dalloca=_builtin_alloca -D_LIBC

186.crafty: -DLINUX_i386

252.eon: -DSPEC_CPU2000_LP64 -DHAS_ERRLIST -DFMAX_IS_DOUBLE

253.perlbnk: -DSPEC_CPU2000_LP64 -DSPEC_CPU2000_NEED_BOOL

-DSPEC_CPU2000_LINUX_IA64 -DSPEC_CPU2000_GLIBC22

254.gap: -DSPEC_CPU2000_LP64 -DSYS_HAS_CALLOC_PROTO -DSYS_IS_USG

-DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO

255.vortex: -DSPEC_CPU2000_LP64

Peak optimization flags: (default)

C programs: -fast -auto_ilp32 +FDO

C++ programs: -fast -ansi_alias +FDO

No Extra Library

Standard Performance Evaluation Corporation

info@spec.org

http://www.spec.org



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Notes/Tuning Information (Continued)

```
164.gzip: basepeak=yes
175.vpr: basepeak=yes
176.gcc: +FDO -ipo -O2 -static -auto_ilp32
186.crafty: +FDO -ipo -O2 -static -auto_ilp32 + smh
197.parser: +FDO -fast -auto_ilp32
252.eon: basepeak=yes
253.perlbnk: basepeak=yes
254.gap: basepeak=yes
255.vortex: +FDO -ipo -O2 -static -auto_ilp32 + smh
256.bzip2: basepeak=yes
300.twolf: basepeak=yes
```

4 CPU machine with only 1 CPU enabled thanks to boot Linux
with option maxcpus=0 (ie=UP kernel) in elilo.conf