



# CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

**Bull**  
**NovaScale 5160 HPC 8 way**

SPECint\_rate2000 = --  
SPECint\_rate\_base2000 = 61.4

SPEC license #: 20 | Tested by: JFL | Test date: Feb-2003 | Hardware Avail: Apr-2003 | Software Avail: Apr-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	226	57.6			
175.vpr	8	219	59.4			
176.gcc	8	136	75.1			
181.mcf	8	355	47.0			
186.crafty	8	143	64.9			
197.parser	8	381	43.8			
252.eon	8	173	69.7			
253.perlbnk	8	268	62.4			
254.gap	8	216	47.3			
255.vortex	8	194	91.0			
256.bzip2	8	234	59.4			
300.twolf	8	371	75.0			

### Hardware

CPU: Itanium 2 processor 1000 MHz  
CPU MHz: 1000  
FPU: Integrated  
CPU(s) enabled: 8 cores, 8 chips, 1 core/chip  
CPU(s) orderable: 4 to 16  
Parallel: No  
Primary Cache: 16KBI + 16KBD on chip  
Secondary Cache: 256KB(I+D) on chip  
L3 Cache: 3MB (I+D) off chip  
Other Cache: N/A  
Memory: 64 GB (4\*16\*1GB DIMMs)  
Disk Subsystem: 1 SJ0812 Disk drawer with 2 15krpm 36GB SCSI disks  
Other Hardware: HW configuration: 4 modules of 2 CPUs

### Software

Operating System: 64 bit Linux64: Red Hat Advanced Server 2.1 +Bull expansion Pack  
Compiler: Intel C++ Compiler 7.0 for Linux64 Build 20021210  
File System: ext2  
System State: Single User

## Notes/Tuning Information

```
+FDO: PASS1=-prof_gen PASS2=-prof_use
Base tuning:
C programs: -ipo +FDO -O3
C++ programs: -ipo +FDO -O3
Portability flags:
164.gzip: -DSPEC_CPU2000_LP64 -DNO_UTIME -DNO_CHOWN
175.vpr: -DSPEC_CPU2000_LP64
176.gcc: -DSPEC_CPU2000_LP64 -Dalloca=_alloca -DUSG -D_LIBC
181.mcf: -DSPEC_CPU2000_LP64
186.crafty: -DLINUX_i386 -DSPEC_CPU2000_LP64 -DLONG_HAS_64BITS -UHAS_LONGLONG
197.parser: -DSPEC_CPU2000_LP64
252.eon: -DSPEC_CPU2000_LP64 -DHAS_ERRLIST
253.perlbnk: -DSPEC_CPU2000_LP64 -DSPEC_CPU2000_NEED_BOOL -DSPEC_CPU2000_LINUX_IA64
-DSPEC_CPU2000_GLIBC22
254.gap: -DSPEC_CPU2000 -DSPEC_CPU2000_LP64 -DSYS_HAS_CALLOC_PROTO -DSYS_IS_USG
-DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO
-DSYS_HAS_CALLOC_PROTO -DHOST_LINUX
255.vortex: -DSPEC_CPU2000_LP64
256.bzip2: -DSPEC_CPU2000_LP64
300.twolf: -DSPEC_CPU2000_LP64 -DHAVE_SIGNED_CHAR
```



# CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

**Bull**  
**NovaScale 5160 HPC 8 way**

SPECint\_rate2000 = --  
SPECint\_rate\_base2000 = 61.4

SPEC license #: 20 | Tested by: JFL | Test date: Feb-2003 | Hardware Avail: Apr-2003 | Software Avail: Apr-2003

## Notes/Tuning Information (Continued)

16 CPU machine with only 8 CPU enabled  
8 CPU disabled by the service processor before booting