



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Bull
NovaScale 6320 (1500MHz)

SPECint_rate2000 = 387
SPECint_rate_base2000 = 387

SPEC license #: 20 | Tested by: Bull | Test date: May-2004 | Hardware Avail: Jul-2004 | Software Avail: Jun-2004

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip | 32 | 153 | 340 | 32 | 153 | 340 |
| 175.vpr | 32 | 186 | 279 | 32 | 186 | 279 |
| 176.gcc | 32 | 90.2 | 453 | 32 | 90.2 | 453 |
| 181.mcf | 32 | 221 | 302 | 32 | 221 | 302 |
| 186.crafty | 32 | 84.2 | 441 | 32 | 84.2 | 441 |
| 197.parser | 32 | 221 | 302 | 32 | 221 | 302 |
| 252.eon | 32 | 85.6 | 564 | 32 | 85.6 | 564 |
| 253.perlbnk | 32 | 162 | 411 | 32 | 162 | 411 |
| 254.gap | 32 | 153 | 267 | 32 | 153 | 267 |
| 255.vortex | 32 | 120 | 588 | 32 | 120 | 588 |
| 256.bzip2 | 32 | 146 | 382 | 32 | 146 | 382 |
| 300.twolf | 32 | 236 | 472 | 32 | 236 | 472 |

Hardware

CPU: Itanium 2 processor 1500 MHz
CPU MHz: 1500
FPU: Integrated
CPU(s) enabled: 32 cores, 32 chips, 1 core/chip
CPU(s) orderable: 4 to 32
Parallel: No
Primary Cache: 16KBI + 16KBD on chip per core
Secondary Cache: 256KB(I+D) on chip per core
L3 Cache: 6MB (I+D) on chip per core
Other Cache: N/A
Memory: 128 GB (8 * 16 * 1GB DIMMs DDR 266)
Disk Subsystem: 1 SJ0812 Disk drawer with
2 15krpm 36GB SCSI disks
+ 1 SR0812 Disk drawer with
2 15krpm 36GB SCSI disks
Other Hardware:

Software

Operating System: Bull Advanced Server 2 V3 (Linux kernel 2.6.4, glibc 2.2.4)
Compiler: Intel(R) C++ Compiler for Linux 8.0 (Build 20040416)
MicroQuill SmartHeap Library 7.01 (www.microquill.com)
File System: ext2
System State: Multi User

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)

Processes were bound to CPUs using pexec

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



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Bull
NovaScale 6320 (1500MHz)

SPECint_rate2000 = 387

SPECint_rate_base2000 = 387

SPEC license #: 20 | Tested by: Bull | Test date: May-2004 | Hardware Avail: Jul-2004 | Software Avail: Jun-2004

Notes/Tuning Information (Continued)

255.vortex: -DSPEC_CPU2000_LP64
basepeak=yes