# CINT2000 Result

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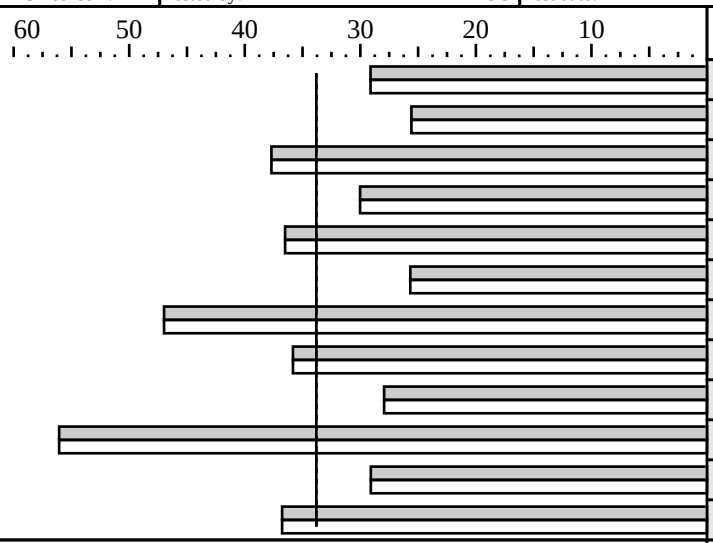
## SGI
## SGI Altix 350 (1000MHz, Itanium 2)

SPECint_rate2000 = 33.8

SPECint_rate_base2000 = 33.8

SPEC license #: 4 | Tested by: SGI | Test date: Feb-2004 | Hardware Avail: Jan-2004 | Software Avail: Jan-2004




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 4 | 223 | 29.1 | 4 | 223 | 29.1 |
| 175.vpr | 4 | 254 | 25.6 | 4 | 254 | 25.6 |
| 176.gcc | 4 | 135 | 37.7 | 4 | 135 | 37.7 |
| 181.mcf | 4 | 278 | 30.0 | 4 | 278 | 30.0 |
| 186.crafty | 4 | 127 | 36.5 | 4 | 127 | 36.5 |
| 197.parser | 4 | 325 | 25.7 | 4 | 325 | 25.7 |
| 252.eon | 4 | 128 | 47.0 | 4 | 128 | 47.0 |
| 253.perlbmk | 4 | 233 | 35.8 | 4 | 233 | 35.8 |
| 254.gap | 4 | 183 | 27.9 | 4 | 183 | 27.9 |
| 255.vortex | 4 | 157 | 56.1 | 4 | 157 | 56.1 |
| 256.bzip2 | 4 | 239 | 29.1 | 4 | 239 | 29.1 |
| 300.twolf | 4 | 379 | 36.8 | 4 | 379 | 36.8 |

### Hardware

| | |
|---|---|
| CPU: | Intel Itanium 2 |
| CPU MHz: | 1000 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 4 chips, 1 core/chip |
| CPU(s) orderable: | 2-16 |
| Parallel: | No |
| Primary Cache: | 16KBI + 16KBD (on chip) per CPU |
| Secondary Cache: | 256KB (on chip) per CPU |
| L3 Cache: | 1.5MB (on chip) per CPU |
| Other Cache: | N/A |
| Memory: | 8 GB (8*512MB PC2700 DIMMS per 2cpu module) |
| Disk Subsystem: | 1 x 36 GB SCSI (Seagate Cheetah 15k rpm) |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | SGI ProPack(TM) v2.4 |
| Compiler: | Intel(R) C++ Compiler for Linux 8.0 (Build 20040101)<br>MicroQuill SmartHeap Library 7.01 (www.microquill.com) |
| File System: | xfs |
| System State: | Single-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 Libraries:  libsmartheap64.a

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.perlbmk: -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

Processes were bound to CPUs using dplace.

Peak flags same as baseline (basepeak=true set globally).
```