# CINT2000 Result

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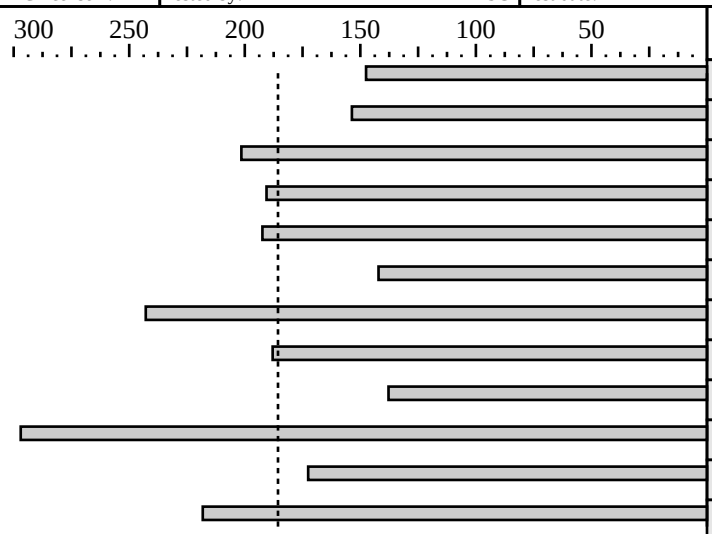
## SGI
## SGI Altix 3000 (1300MHz, Itanium 2)

SPECint_rate2000 = --

SPECint_rate_base2000 = 186

SPEC license #: 4 | Tested by: SGI | Test date: Dec-2003 | Hardware Avail: Jun-2003 | Software Avail: Dec-2003




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 16 | 176 | 148 | | | |
| 175.vpr | 16 | 169 | 154 | | | |
| 176.gcc | 16 | 101 | 201 | | | |
| 181.mcf | 16 | 175 | 191 | | | |
| 186.crafty | 16 | 96.5 | 192 | | | |
| 197.parser | 16 | 235 | 142 | | | |
| 252.eon | 16 | 99.4 | 243 | | | |
| 253.perlbmk | 16 | 178 | 188 | | | |
| 254.gap | 16 | 148 | 138 | | | |
| 255.vortex | 16 | 119 | 297 | | | |
| 256.bzip2 | 16 | 161 | 173 | | | |
| 300.twolf | 16 | 255 | 218 | | | |

### Hardware

| | |
|---|---|
| CPU: | Intel Itanium 2 |
| CPU MHz: | 1300 |
| FPU: | Integrated |
| CPU(s) enabled: | 16 cores, 16 chips, 1 core/chip |
| CPU(s) orderable: | 4-64 |
| Parallel: | No |
| Primary Cache: | 16KBI + 16KBD (on chip) per CPU |
| Secondary Cache: | 256KB (on chip) per CPU |
| L3 Cache: | 3.0MB (on chip) per CPU |
| Other Cache: | N/A |
| Memory: | 32 GB (16*512MB PC2700 DIMMS per 4cpu module) |
| Disk Subsystem: | 1 x 36 GB SCSI (Seagate Cheetah 15k rpm) |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | SGI ProPack(TM) v2.3 |
| Compiler: | Intel(R) C++ Compiler for Linux 8.0 (Build 20031017)<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.
```