



CINT2000 Result

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SGI

SGI Altix 350 (1400MHz/3MB, Itanium 2)

SPECint_rate2000 = --

SPECint_rate_base2000 = 49.2

SPEC license #: 4 | Tested by: SGI | Test date: Apr-2004 | Hardware Avail: May-2004 | Software Avail: Jun-2004

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip | 4 | 162 | 40.2 | | | |
| 175.vpr | 4 | 161 | 40.5 | | | |
| 176.gcc | 4 | 93.0 | 54.9 | | | |
| 181.mcf | 4 | 174 | 48.0 | | | |
| 186.crafty | 4 | 91.5 | 50.7 | | | |
| 197.parser | 4 | 224 | 37.3 | | | |
| 252.eon | 4 | 92.1 | 65.5 | | | |
| 253.perlbnk | 4 | 174 | 48.1 | | | |
| 254.gap | 4 | 141 | 36.1 | | | |
| 255.vortex | 4 | 111 | 79.7 | | | |
| 256.bzip2 | 4 | 148 | 46.9 | | | |
| 300.twolf | 4 | 237 | 58.7 | | | |

Hardware

CPU: Intel Itanium 2
CPU MHz: 1400
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 core
Secondary Cache: 256KB (on chip) per core
L3 Cache: 3.0MB (on chip) per core
Other Cache: N/A
Memory: 16 GB (16*512MB PC2100 DIMMS per 2core module)
Disk Subsystem: 1 x 36 GB SCSI (Seagate Cheetah 15k rpm)
Other Hardware: None

Software

Operating System: SGI ProPack(TM) v3.0
Compiler: Intel(R) C++ Compiler for Linux 8.0 (Build 20040318)
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
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 srcalt=closed_files

Processes were bound to CPUs using dplace.