CINT2000 Result

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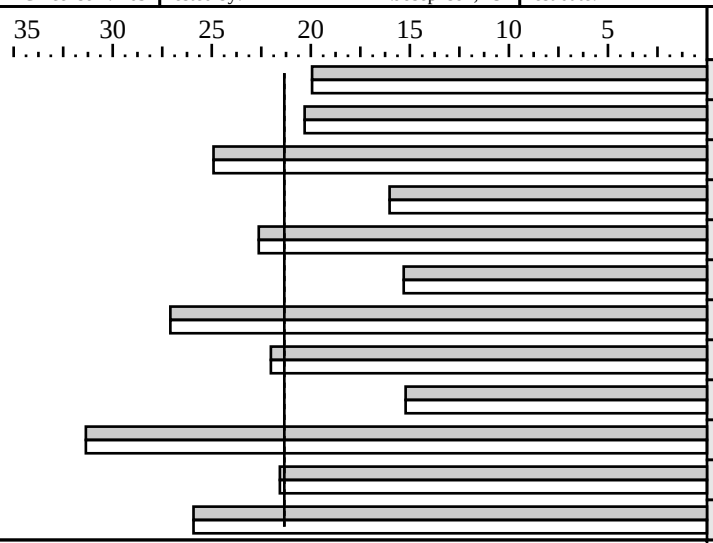
ION
I2X2 (1.4GHz Itanium 2 processor)

SPECint_rate2000 = 21.3

SPECint_rate_base2000 = 21.3

SPEC license #: 2697 | Tested by: K.Josephson, ION | Test date: Jul-2003 | Hardware Avail: Jul-2003 | Software Avail: May-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	163	19.9	2	163	19.9
175.vpr	2	160	20.3	2	160	20.3
176.gcc	2	102	24.9	2	102	24.9
181.mcf	2	261	16.0	2	261	16.0
186.crafty	2	103	22.6	2	103	22.6
197.parser	2	273	15.3	2	273	15.3
252.eon	2	111	27.1	2	111	27.1
253.perlbmk	2	190	22.0	2	190	22.0
254.gap	2	168	15.2	2	168	15.2
255.vortex	2	141	31.4	2	141	31.4
256.bzip2	2	161	21.6	2	161	21.6
300.twolf	2	269	25.9	2	269	25.9

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1400
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1-2
Parallel:	No
Primary Cache:	16KBI + 16KBD (on chip) per CPU
Secondary Cache:	256KB (on chip) per CPU
L3 Cache:	4MB (on chip) per CPU
Other Cache:	N/A
Memory:	8 GB (8x1GB DIMMS)
Disk Subsystem:	1x 36GB SCSI (Seagate Cheetah 10k rpm)
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 8
Compiler:	Intel(R) C++ Compiler for Linux 7.1 (Build 20030605)
File System:	ext2
System State:	Multi-user

Notes/Tuning Information

```
Tested by ION Computer Systems
 +FDO: PASS1=-prof_gen  PASS2=-prof_use

 Baseline optimization flags:
   C programs:       -O3 -ipo +FDO
   C++ programs:     -O2 -ipo -ansi_alias +FDO

 Portability Flags:
   176.gcc: -DSPEC_CPU2000_LP64 -Dalloca=_builtin_alloca -D_LIBC
   186.crafty: -DLINUX_i386
   252.eon: -DSPEC_CPU2000_LP64 -DHAS_ERRLIST
   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


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

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Notes/Tuning Information (Continued)