CINT2000 Result

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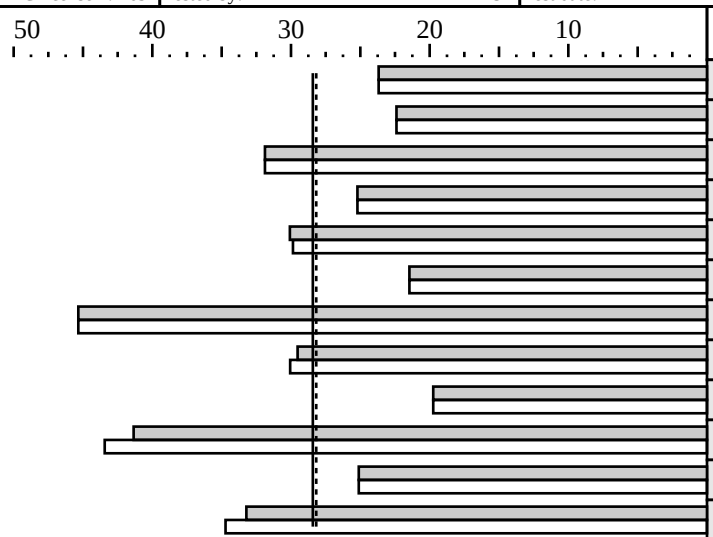
ION
I2X2 (1.6GHz Itanium 2 processor)

SPECint_rate2000 = 28.4

SPECint_rate_base2000 = 28.2

SPEC license #: 2697 | Tested by: ION | Test date: Jan-2005 | Hardware Avail: May-2004 | Software Avail: Dec-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	137	23.7	2	137	23.7
175.vpr	2	145	22.4	2	145	22.4
176.gcc	2	80.1	31.9	2	80.1	31.9
181.mcf	2	166	25.2	2	166	25.2
186.crafty	2	77.1	30.1	2	77.7	29.9
197.parser	2	195	21.5	2	195	21.5
252.eon	2	66.5	45.3	2	66.5	45.3
253.perlbmk	2	141	29.5	2	139	30.1
254.gap	2	129	19.7	2	129	19.7
255.vortex	2	107	41.3	2	101	43.4
256.bzip2	2	139	25.1	2	139	25.1
300.twolf	2	210	33.2	2	200	34.7

Hardware

CPU:	Intel Itanium 2 processor
CPU MHz:	1596
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 (I+D) (on chip) per CPU
L3 Cache:	3072KB (I+D) (on chip) per CPU
Other Cache:	N/A
Memory:	8 GB (8x1GB DDR266, 2.5-3-3 DIMMS)
Disk Subsystem:	1x36GB SCSI (Seagate Cheetah 15k rpm)
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux AS 3 Update 4, 2.4.21-27.EL, IPF
Compiler:	Intel(R) C Compiler for Linux 8.1, IPF (Build 20041123) Intel(R) C++ Compiler for Linux 8.1, IPF (Build 20041123) MicroQuill SmartHeap library 7.01, IPF
File System:	ext3
System State:	Multi-user, run level 3

Notes/Tuning Information

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Tested by ION Computer Systems
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INT Baseline optimization flags:
  C Programs: -fast -auto_ilp32 +FDO
    C++ programs: -fast +FDO
INT Peak optimization flags:
      164.gzip: basepeak=yes
       175.vpr: basepeak=yes
       176.gcc: basepeak=yes
       181.mcf: basepeak=yes
   186.crafty: -fast -auto_ilp32 -ansi_alias /opt/SmartHeap_7.01/lib/libsmartheap64.a +FDO
    197.parser: basepeak=yes
252.eon: basepeak=yes
   253.perlbmk: -fast -auto_ilp32 -ansi_alias /opt/SmartHeap_7.01/lib/libsmartheap64.a +FDO
       254.gap: basepeak=yes
```

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Notes/Tuning Information (Continued)

```
      255.vortex: -fast -auto_ilp32 /opt/SmartHeap_7.01/lib/libsmartheap64.a +FDO
       256.bzip2: basepeak=yes
      300.twolf: -fast -auto_ilp32 -ansi_alias /opt/SmartHeap_7.01/lib/libsmartheap64.a +FDO

  Portability Flags:
    176.gcc: -DSPEC_CPU2000_LP64 -Dalloca=_builtin_alloca
    176.gcc: srcalt=64bitgcc35
    186.crafty: -DLINUX_i386
    252.eon: -DSPEC_CPU2000_LP64 -DHAS_ERRLIST
    252.eon: srcalt=stdcpp
    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
    255.vortex: srcalt=closed_files
```