



CINT2000 Result

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ION I2X2 (1.6GHz Itanium 2 processor)

SPECint2000 = 1239
SPECint_base2000 = 1227

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	136	1027	136	1027
175.vpr	1400	143	982	143	982
176.gcc	1100	79.3	1387	79.3	1387
181.mcf	1800	160	1122	160	1122
186.crafty	1000	76.9	1301	77.6	1289
197.parser	1800	194	929	194	929
252.eon	1300	66.4	1957	66.4	1957
253.perlbmk	1800	141	1277	139	1298
254.gap	1100	125	878	125	878
255.vortex	1900	106	1799	101	1881
256.bzip2	1500	135	1108	135	1108
300.twolf	3000	214	1403	200	1500

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

Tested by ION Computer Systems

```
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.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
255.vortex: srcalt=closed_files
```