CINT2000 Result

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IBM Corporation

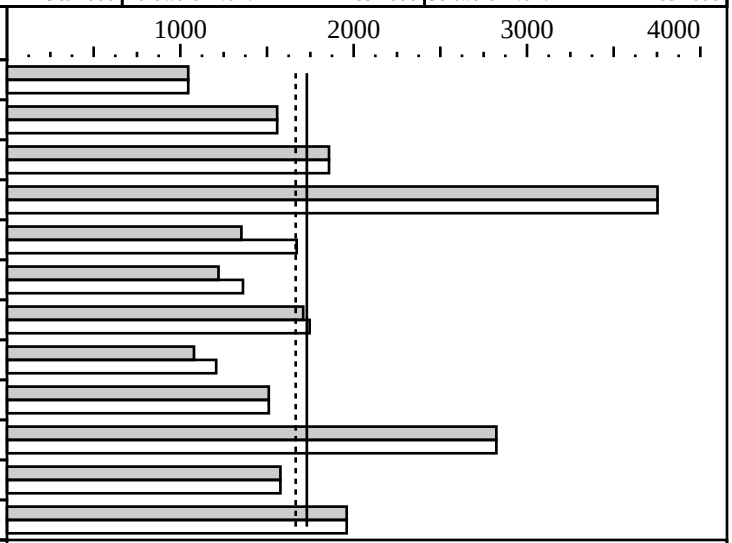
IBM System p5 575 (2200 Mhz, 1 CPU, SLES)

SPECint2000 = 1730

SPECint_base2000 = 1666

SPEC license #: 11 | Tested by: IBM Austin | Test date: Oct-2006 | Hardware Avail: Feb-2006 | Software Avail: Dec-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	134	1046	134	1046
175.vpr	1400	89.8	1559	89.8	1559
176.gcc	1100	59.2	1858	59.2	1858
181.mcf	1800	48.0	3753	48.0	3753
186.crafty	1000	73.9	1352	59.8	1671
197.parser	1800	148	1220	132	1361
252.eon	1300	76.1	1709	74.5	1746
253.perlbmk	1800	167	1079	149	1207
254.gap	1100	72.8	1510	72.8	1510
255.vortex	1900	67.3	2823	67.3	2823
256.bzip2	1500	95.1	1577	95.1	1577
300.twolf	3000	153	1960	153	1960



Hardware

CPU:	POWER5+
CPU MHz:	2200
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip (SMT off)
CPU(s) orderable:	8,16 core
Parallel:	No
Primary Cache:	64 KB I + 32 KB D on chip per core
Secondary Cache:	1920 KB I+D on chip per chip
L3 Cache:	36 MB unified off chip per chip
Other Cache:	None
Memory:	64 GB (32x2GB)
Disk Subsystem:	1x73GB SCSI, 15K RPM
Other Hardware:	

Software

Operating System:	SLES SUSE Linux Enterprise Server 10 (ppc) VERSION = 10 w/2.6.16.21-0.8-ppc64 Linux kernel
Compiler:	IBM XL C/C++ Advanced Edition V8.0.1 for Linux
File System:	reiserfs
System State:	Multi-User

Notes/Tuning Information

```
+FDO
    Feedback directed optimization enabled by:  PASS1=-qpdf1  PASS2=-qpdf2

Integer suite
  C:   invoked as cc
  C++: invoked as xlC

Integer Portability Flags:
  176.gcc:     -DHOST_WORDS_BIG_ENDIAN
  186.crafty:  -DLINUX_PPC32
  252.eon:     -DHAS_ERRLIST
  253.perlbmk: -DSPEC_CPU2000_LINUX_PPC32 -DSPEC_CPU2000_NEED_BOOL
  254.gap:     -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_CALLOC_PROTO
  300.twolf:   -DHAVE_SIGNED_CHAR

Additional Peak Portability Flags:
   252.eon:     -DSPEC_CPU2000_LP64    (for 64-bit compilation)
   253.perlbmk: -DSPEC_CPU2000_LP64    (for 64-bit compilation)

Integer Base Optimization Flags:
```

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Notes/Tuning Information (Continued)

```
  C:   +FDO -O5
  C++: +FDO -O5


Integer Peak Optimization Flags

164.gzip
    basepeak=1
175.vpr
    basepeak=1
176.gcc
    basepeak=1
181.mcf
    basepeak=1
186.crafty
    +FDO -O4 -qarch=pwr4 -qtune=pwr4 -q64
197.parser
    +FDO -O5 -qstaticlink
252.eon
    +FDO -O5 -q64
253.perlbmk:
    +FDO -O5 -q64
254.gap
   basepeak=1
255.vortex
    basepeak=1
256.bzip2
    basepeak=1
300.twolf
    basepeak=1


System Settings:
-- ulimit stack size set to unlimited


SMT: Acronym for 'Simultaneous Multi-Threading'.  A processor technology that allows
     the simultaneous execution of multiple thread contexts within a single processor
     core. SMT is enabled by default.

Large pages reserved as follows by root user:
    echo 30 > /proc/sys/vm/nr_hugepages
System configured with libhugetlbfs library for application access to large pages
Environment variables set as follows:
    export HUGETLB_MORECORE=yes
    export LD_PRELOAD=libhugetlbfs.so
        (export LD_PRELOAD=libhugetlbfs.so not used for --action build.)

Linux booted with the options:
       maxcpus=1 smt-enabled=off

Each process was bound to a cpu using submit= with the taskset command
   submit = taskset -p -c $SPECUSERNUM $$ >/dev/null ; $command
```