CINT2000 Result

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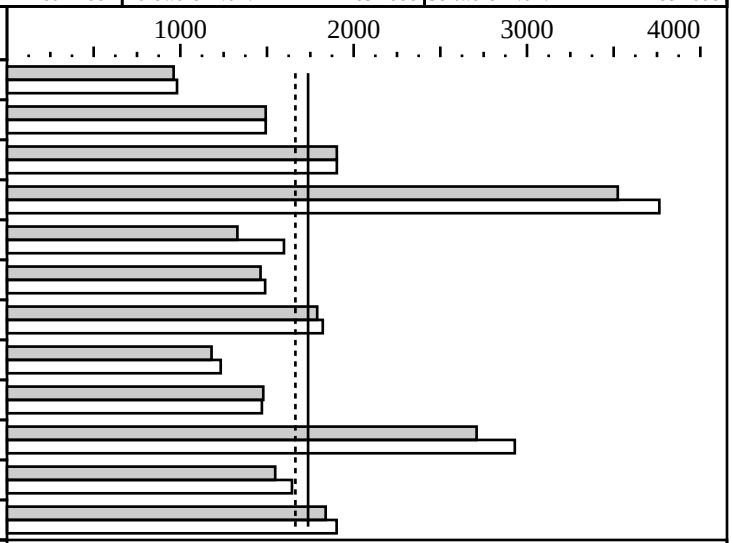
Bull
Escala PL450R+ (2100 MHz, 1 CPU)

SPECint2000 = 1737

SPECint_base2000 = 1664

SPEC license #: 20 | Tested by: Bull | Test date: Jan-2007 | Hardware Avail: Feb-2006 | Software Avail: Dec-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	146	961	143	981
175.vpr	1400	93.8	1493	93.8	1493
176.gcc	1100	57.8	1903	57.8	1903
181.mcf	1800	51.1	3524	47.8	3764
186.crafty	1000	75.2	1329	62.6	1598
197.parser	1800	123	1463	121	1489
252.eon	1300	72.6	1790	71.4	1822
253.perlbmk	1800	153	1180	146	1233
254.gap	1100	74.4	1479	74.8	1471
255.vortex	1900	70.1	2709	64.9	2930
256.bzip2	1500	96.9	1547	91.2	1644
300.twolf	3000	163	1838	158	1902



Hardware

CPU:	POWER5+
CPU MHz:	2100
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip (SMT off)
CPU(s) orderable:	1, 2 chips
Parallel:	no
Primary Cache:	64KBI+32KBD (on chip)per core
Secondary Cache:	1920KB unified (on chip) per chip
L3 Cache:	36MB unified off chip per chip
Other Cache:	None
Memory:	32 GB (8x4GB)
Disk Subsystem:	2x73GB SCSI, 15K RPM
Other Hardware:	None

Software

Operating System:	AIX 5L V5.3
Compiler:	XL C/C++ Enterprise Edition Version 8.0 for AIX with the December 2006 PTF XL Fortran Enterprise Edition Version 10.1 for AIX with the November 2006 PTF
File System:	AIX/JFS2
System State:	Multi-user

Notes/Tuning Information

```
Portability Flags:
  176.gcc:      -ma -DHOST_WORDS_BIG_ENDIAN
  186.crafty:   -DAIX
  253.perlbmk:  -DSPEC_CPU2000_AIX
  254.gap:      -DSYS_IS_BSD -DSYS_STRING_H
                -DSYS_HAS_MALLOC_PROTO -DSYS_HAS_CALLOC_PROTO
  300.twolf:    -DHAVE_SIGNED_CHAR

Base Optimization Flags:
  C:    -qpdf1/pdf2
        -O5 -blpdata -D_ILS_MACROS
  C++:  -qpdf1/pdf2
        -O4 -qalign=natural

Peak Optimization Flags
  164.gzip:     -qpdf1/pdf2
                -O4 -qfdpr -blpdata
                fdpr -q -O3
  175.vpr:      basepeak=yes
  176.gcc:      basepeak=yes
```

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Notes/Tuning Information (Continued)

```
   181.mcf:      -qpdf1/pdf2
                 -O5 -blpdata -qalign=natural -qhot=arraypad -qfpdr -Q -qmaxmem=-1
                 fdpr -q -O3
   186.crafty:   -qpdf1/pdf2
                 -O4 -qalign=natural -q64 -lhmu -blpdata
   197.parser:   -qpdf1/pdf2
                 -O4 -qfdpr -D_ILS_MACROS -blpdata
                 fdpr -q -O3
   252.eon:      -qpdf1/pdf2
                 -O4 -qalign=natural
   253.perlbmk:  -qpdf1/pdf2
                 -O4 -qarch=pwr4 -qtune=pwr4 -qalign=natural -blpdata -lhmu
   254.gap:      -qpdf1/pdf2
                 -O4 -qarch=pwr4 -qtune=pwr4 -qalign=natural -blpdata
   255.vortex:   -qpdf1/pdf2
                 -O4 -qfdpr -lhmu -blpdata
                 fdpr -q -O3
   256.bzip2:    -qpdf1/pdf2
                 -O5 -qfdpr -blpdata
                 fdpr -q -O3
   300.twolf:    -O5 -qfdpr -blpdata
                 fdpr -q -O3


 The installed OS level is AIX 5L for POWER version 5.3 with the 5300-05 Recommended Maintenence package.

 SMT:  Acronym for "Simultaneous Multi-Threading". A processor technology that allows
       the simultaneous execution of multiple thread contexts within a single processor
       core. (Enabled by default)
 DCM:  Acronym for "Dual-Chip Module" (one dual-core processor chip + one L3-cache chip)
 SUT:  Acronym for "System Under Test"

 Extended C:     IBM XL C for AIX invoked as cc
 ANSI C89:       IBM XL C for AIX invoked as xlc
 C++:            IBM XL C for AIX invoked as xlC
 Fortran 77:     IBM XL Fortran for AIX invoked as xlf90 unless explicitly reassigned
 Fortran 90:     IBM XL Fortran for AIX invoked as xlf

 ulimits set to unlimited.
 Large page mode was set as follows:
     vmo -r -o lgpg_regions=800 -o lgpg_size=16777216

3 cores were deconfigured and SMT disabled using the AIX commands
     smtctl -m off -w boot
     bosboot -aD
     shutdown -rF
     drmgr -r -c cpu
     drmgr -r -c cpu
     drmgr -r -c cpu
```