CINT2000 Result

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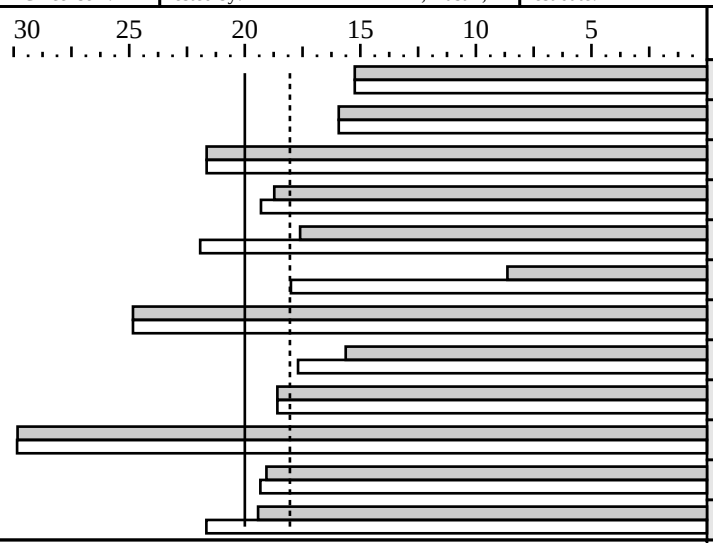
IBM Corporation

IBM IntelliStation POWER 275 Workstation (1450 MHz, 2 CPU)

SPECint_rate2000 = 20.0

SPECint_rate_base2000 = 18.0

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Jun-2003 | Hardware Avail: Jul-2003 | Software Avail: May-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	213	15.2	2	213	15.2
175.vpr	2	204	15.9	2	204	15.9
176.gcc	2	118	21.7	2	118	21.7
181.mcf	2	223	18.7	2	216	19.3
186.crafty	2	132	17.6	2	106	21.9
197.parser	2	484	8.64	2	232	18.0
252.eon	2	121	24.8	2	121	24.8
253.perlbmk	2	267	15.6	2	236	17.7
254.gap	2	137	18.6	2	137	18.6
255.vortex	2	148	29.8	2	148	29.9
256.bzip2	2	183	19.1	2	180	19.3
300.twolf	2	358	19.4	2	321	21.7

Hardware

CPU:	POWER4+
CPU MHz:	1450
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip, 1 processor chip/DCM
CPU(s) orderable:	1,2 (order by # cores)
Parallel:	No
Primary Cache:	64KBI+32KBD (on chip) per core
Secondary Cache:	1536KB unified (on chip) per chip
L3 Cache:	8MB unified (off-chip) per DCM, 1 DCM in SUT
Other Cache:	None
Memory:	8 GB
Disk Subsystem:	1x36GB SCSI, 10K RPM
Other Hardware:	None

Software

Operating System:	AIX 5L V5.2
Compiler:	IBM C for AIX, Version 6.0 IBM VisualAge C++ Professional for AIX, Version 6.0
File System:	AIX/JFS
System State:	Multi-User

Notes/Tuning Information

```
Integer Portability Flags:
  176.gcc:     -ma -DHOST_WORDS_BIG_ENDIAN
  186.crafty:  -DAIX
  252.eon:     srcalt=fmax_errno
               -I. -DNDEBUG
  253.perlbmk: -DSPEC_CPU2000_AIX
  254.gap:     -DSYS_IS_BSD -DSYS_STRING_H -DSYS_HAS_TIME_PROTO
               -DSYS_HAS_MALLOC_PROTO -DSYS_HAS_CALLOC_PROTO
  300.twolf:   -DHAVE_SIGNED_CHAR

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

Integer Peak Optimization Flags
164.gzip
```

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Notes/Tuning Information (Continued)

```
    BASEPEAK = 1
    "CC      = /usr/vac/bin/xlc"
  175.vpr
    BASEPEAK = 1
  176.gcc
    BASEPEAK = 1
  181.mcf
    fdpr -v -R3
    -O5 -blpdata -D_ILS_MACROS
  186.crafty
    -qpdf1/pdf2
    fdpr -v -R3
    -O3 -q64
  197.parser
    -O5 -blpdata -D_ILS_MACROS
  252.eon
    BASEPEAK = 1
  253.perlbmk
    -qpdf1/pdf2
    -O5 -lhmu -qalign=natural
  254.gap
    BASEPEAK = 1
  255.vortex
    -qpdf1/pdf2
    -O5 -lhmu -qalign=natural
  256.bzip2
    -qpdf1/pdf2
    -O5 -blpdata -qarch=pwr3 -qtune=pwr3
  300.twolf
    -qpdf1/pdf2
    -O5 -lhmu -qalign=natural -blpdata
    "CC      = /usr/vac/bin/xlc"

     Approved alternate-source file 252.eon.fmax_errno.src.alt.tar.gz
     was used with 252.eon for POSIX-compatibility.

     DCM: Acronym for "Dual-Chip Module"
     SUT: Acronym for "System Under Test"

     fpdr: Feedback directed program restructuring tool
     /usr/spec2000 filesystem mounted with no JFS log file I/O.
     APAR IY 43549 was applied to AIX to enable new hardware support.
     ulimits set to unlimited.
     C: IBM VAC++ invoked as cc except where noted as xlc
     C++: IBM VAC++ invoked as xlC
     Large page mode and memory affinity were set as follows:
       vmo -r -o lgpg_regions=400 -o lgpg_size=16777216 -o memory_affinity=1
       chuser capabilities=CAP_BYPASS_RAC_VMM,CAP_PROPAGATE $USER
       shutdown -r
       export MEMORY_AFFINITY=MCM
```