CINT2000 Result

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IBM Corporation

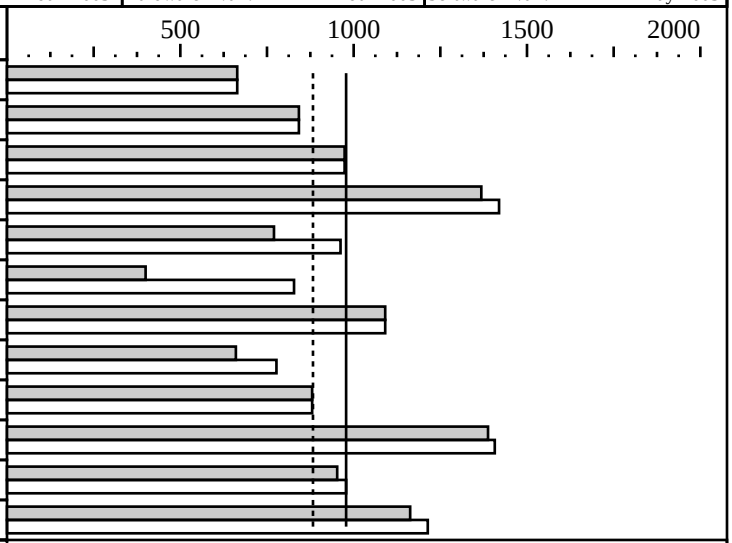
IBM IntelliStation POWER 275 Workstation (1450 MHz, 1 CPU)

SPECint2000 = 978

SPECint_base2000 = 883

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	211	664	211	664
175.vpr	1400	166	842	166	842
176.gcc	1100	113	974	113	974
181.mcf	1800	132	1368	127	1419
186.crafty	1000	130	770	104	962
197.parser	1800	450	400	217	828
252.eon	1300	119	1091	119	1091
253.perlbmk	1800	273	660	232	777
254.gap	1100	125	880	125	880
255.vortex	1900	137	1388	135	1407
256.bzip2	1500	157	952	153	978
300.twolf	3000	258	1163	247	1214



Hardware

CPU:	POWER4+
CPU MHz:	1450
FPU:	Integrated
CPU(s) enabled:	1 core, 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"

     1 processor was deconfigured through the configuration menu.

     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
```