



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

IBM Corporation

IBM eServer BladeCenter JS20 (2200 MHz, 2 CPU)

SPECint_rate2000 = 21.5

SPECint_rate_base2000 = 20.2

SPEC license #: 11 | Tested by: IBM | Test date: Oct-2004 | Hardware Avail: Oct-2004 | Software Avail: Dec-2004

Notes/Tuning Information (Continued)

Peak Optimization Flags:

```

164.gzip:      -qpdf1/pdf2
               -O5 -blpdata -D_ILS_MACROS -qfdpr
               fdpr -R3
175.vpr:      -qpdf1/pdf2
               -O5 -lhmU -qalign=natural -D_ILS_MACROS -blpdata
176.gcc:      -qpdf1/pdf2
               -O5 -blpdata -D_ILS_MACROS -qfdpr
               fdpr -R3
181.mcf:      -O5 -lhmU -blpdata -qalign=natural
               CC=xlc
186.crafty:   -qpdf1/pdf2
               -O4 -q64 -qfdpr -qarch=pwr3 -qtune=pwr3 -D_ILS_MACROS
               fdpr -R3
197.parser:   -qpdf1/pdf2
               -O5 -blpdata -D_ILS_MACROS -qfdpr
               fdpr -R3
252.eon:      -qpdf1/pdf2
               -O4 -qarch=auto -qtune=auto -qalign=natural -lhmU
253.perlbnk:  -qpdf1/pdf2
               -O5 -lhmU -qalign=natural
254.gap:      -qpdf1/pdf2
               -O5 -blpdata -D_ILS_MACROS -qfdpr
               fdpr -R3
255.vortex:   -qpdf1/pdf2
               -O5 -blpdata -D_ILS_MACROS -qfdpr
               fdpr -R3
256.bzip2:    -qpdf1/pdf2
               -O5 -blpdata -D_ILS_MACROS -qfdpr
               fdpr -R3
300.twolf:    -qpdf1/pdf2
               -O4 -qarch=auto -qtune=auto -qalign=natural
               fdpr -R3

```

C: IBM XL C for AIX invoked as xlc
C++: IBM VAC++ invoked as xlc

APAR IY 62532 was applied to AIX to enable new hardware support.
ulimits set to unlimited.

Large page mode and memory affinity were set as follows:

```

vmo -r -o lpgg_regions=200 -o lpgg_size=16777216 -o memory_affinity=1
chuser capabilities=CAP_BYPASS_RAC_VMM,CAP_PROPAGATE $USER
shutdown -r
export MEMORY_AFFINITY=MCM

```

The following config-file entry was used to assign each benchmark process to a core:

```
submit = let "MYCPU=\$SPECUSERNUM"; bindprocessor \$\$ \$MYCPU; $command
```

The "bindprocessor" AIX command binds a process to a CPU core.