**IBM System x iDP dx360 M2 (VirtualBox virtual machine)**

**SPECompMpeak2001 = --**  
**SPECompMbbase2001 = 31695**

### Notes/Tuning Information

VM Configuration details:
- 1 VM for OMP2001 with 8 VCPUS
- Only one VM per node
- Host and guest OS installed using default parameters
- VirtualBox installed using default parameters
- Intel Turbo Boost Technology (Turbo) : Disabled
- ulimit -s unlimited
- Removes limits on the maximum size of the automatically-extended stack region of the current process and each process it creates.

Compiler flags for base level optimization:
- COPTIMIZE : -O3 -xSSE3 -ipo -no-prec-div -unroll-loops0 -openmp
- FOPTIMIZE : -O3 -xSSE3 -ipo -no-prec-div -unroll-loops0 -openmp
- F77OPTIMIZE : -O3 -xSSE3 -ipo -no-prec-div -unroll-loops0 -openmp

Environment:
- KMP_AFFINITY=enabled
- controls the binding of OpenMP threads to the physical processing units
- KMP_SCHEDULE=static,balanced
- used to fine tune the load balancing of parallel loops that are statically scheduled under OpenMP with no chunk size specification
- KMP_BLOCKTIME=infinite
- Sets the time, in milliseconds, that a thread should wait, after completing the execution of a parallel region, before sleeping.
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Notes/Tuning Information (Continued)

KMP_LIBRARY=throughput
   Selects the OpenMP run-time library
KMP_STACKSIZE=31m
   Sets the number of bytes to allocate for each parallel thread to use as
to use as its provate stack
OMP_NESTED=TRUE
   Enables (TRUE) or disables (FALSE) nested parallelism.
OMP_DYNAMIC=FALSE
   Enables (true) or disables (false) the dynamic adjustment of the number of threads.
OMP_NUM_THREADS=8
   Sets the maximum number of threads to use for OpenMP* parallel
regions if no other value is specified in the program itself.