SPEC® CINT2006 Result

Tyan
Tyan Thunder KKQS Pro (S4882)

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = 0.00

| CPU2006 license #: | 9999 | Test sponsor: | | Turbo Computers | Test date: | | Dec-9999 | Hardware Availability: | | Dec-9999 | Software Availability: | | Dec-9999 |

Benchmark results (Copies = 1):

Benchmark	Copies	Result
400.perlbench	1	50.8
401.bzip2	1	30.6
403.gcc	1	57.1
429.mcf	1	46.9
445.gobmk	1	33.7
456.hmmer	1	39.4
458.sjeng	1	30.9
462.libquantum	1	79.4
464.h264ref	1	75.3
471.omnetpp	1	23.5
473.astar	1	29.5
483.xalancbmk	1	55.2

(Scale: 0 2.00 5.00 8.00 11.0 14.0 17.0 20.0 23.0 26.0 29.0 32.0 35.0 38.0 41.0 44.0 47.0 50.0 53.0 56.0 59.0 62.0 65.0 68.0 71.0 74.0 80.0)

Hardware

CPU Name:	AMCC X-gene
CPU Characteristics:	
CPU MHz:	3193.750
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 1 core/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per chip
Secondary Cache:	3 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (1 x 8GB DDR333 CL2.5)
Disk Subsystem:	SATA
Other Hardware:	--

Software

Operating System:	SUSE SLES9 (for AMD64)
Compiler:	gcc , g++ & gfortran 4.9.2 (for AMD64)
Auto Parallel:	No
File System:	ext3
System State:	runlevel 3
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other Software:	None

Errors

'reportable' flag not set during run
471.omnetpp base did not have enough runs!
456.hmmer base did not have enough runs!
445.gobmk base did not have enough runs!
458.sjeng base did not have enough runs!
429.mcf base did not have enough runs!

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Errors (Continued)

Results Table

Benchmark	Copies	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Peak Copies	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio
400.perlbench	1	**192**	**50.8**											
401.bzip2	1	**315**	**30.6**											
403.gcc	1	**141**	**57.1**											
429.mcf	1	**195**	**46.9**											
445.gobmk	1	**312**	**33.7**											
456.hmmer	1	**237**	**39.4**											
458.sjeng	1	**391**	**30.9**											
462.libquantum	1	**261**	**79.4**											
464.h264ref	1	**294**	**75.3**											
471.omnetpp	1	**261**	**23.9**											
473.astar	1	**238**	**29.5**											
483.xalancbmk	1	**125**	**55.2**											

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
PORTABILITY=-DSPEC_CPU_LP64 is applied to all benchmarks in base.
400.perlbench: -DSPEC_CPU_LINUX_X64
462.libquantum: -DSPEC_CPU_LINUX
C base flags: -std=gnu89 -flto -O3 -ffast-math -funroll-loops -fomit-frame-pointer -ftree-vectorize -fprefetch-loop-arrays
C++ base flags: -std=c++03 -flto -O3 -ffast-math -funroll-loops -fomit-frame-pointer -ftree-vectorize -fprefetch-loop-arrays
Fortran base flags: -O3 -ffast-math
```

Base Unknown Flags

```
400.perlbench: "gcc" (in CC) "gcc" (in LD)
              "-include math.h" (in CPORTABILITY)
              "-std=gnu89 -flto -O3 -ffast-math -funroll-loops
              -fomit-frame-pointer -ftree-vectorize
              -fprefetch-loop-arrays" (in COPTIMIZE)
              "-fno-strict-aliasing" (in EXTRA_CFLAGS)
```

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Base Unknown Flags (Continued)

```
401.bzip2: "gcc" (in CC)  "gcc" (in LD)
           "-std=gnu89 -flto -O3 -ffast-math -funroll-loops
           -fomit-frame-pointer -ftree-vectorize
           -fprefetch-loop-arrays" (in COPTIMIZE)

  403.gcc: "gcc" (in CC)  "gcc" (in LD)
           "-std=gnu89 -flto -O3 -ffast-math -funroll-loops
           -fomit-frame-pointer -ftree-vectorize
           -fprefetch-loop-arrays" (in COPTIMIZE)

  429.mcf: "gcc" (in CC)  "gcc" (in LD)
           "-std=gnu89 -flto -O3 -ffast-math -funroll-loops
           -fomit-frame-pointer -ftree-vectorize
           -fprefetch-loop-arrays" (in COPTIMIZE)

445.gobmk: "gcc" (in CC)  "gcc" (in LD)
           "-std=gnu89 -flto -O3 -ffast-math -funroll-loops
           -fomit-frame-pointer -ftree-vectorize
           -fprefetch-loop-arrays" (in COPTIMIZE)

456.hmmer: "gcc" (in CC)  "gcc" (in LD)
           "-std=gnu89 -flto -O3 -ffast-math -funroll-loops
           -fomit-frame-pointer -ftree-vectorize
           -fprefetch-loop-arrays" (in COPTIMIZE)

458.sjeng: "gcc" (in CC)  "gcc" (in LD)
           "-std=gnu89 -flto -O3 -ffast-math -funroll-loops
           -fomit-frame-pointer -ftree-vectorize
           -fprefetch-loop-arrays" (in COPTIMIZE)

462.libquantum: "gcc" (in CC)  "gcc" (in LD)
           "-std=gnu89 -flto -O3 -ffast-math -funroll-loops
           -fomit-frame-pointer -ftree-vectorize
           -fprefetch-loop-arrays" (in COPTIMIZE)

464.h264ref: "gcc" (in CC)  "gcc" (in LD)
           "-fsigned-char" (in CPORTABILITY)
           "-std=gnu89 -flto -O3 -ffast-math -funroll-loops
           -fomit-frame-pointer -ftree-vectorize
           -fprefetch-loop-arrays" (in COPTIMIZE)

471.omnetpp: "g++" (in CXX)  "g++" (in LD)
           "-std=c++03 -flto -O3  -ffast-math -funroll-loops
           -fomit-frame-pointer -ftree-vectorize
           -fprefetch-loop-arrays" (in CXXOPTIMIZE)

473.astar: "g++" (in CXX)  "g++" (in LD)
           "-std=c++03 -flto -O3  -ffast-math -funroll-loops
           -fomit-frame-pointer -ftree-vectorize
           -fprefetch-loop-arrays" (in CXXOPTIMIZE)

483.xalancbmk: "g++" (in CXX)  "g++" (in LD)
           "-include cstdlib -include cstring" (in CXXPORTABILITY)
           "-std=c++03 -flto -O3  -ffast-math -funroll-loops
```

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Base Unknown Flags (Continued)

483.xalancbmk (continued):

```
-fomit-frame-pointer -ftree-vectorize
-fprefetch-loop-arrays" (in CXXOPTIMIZE)
```