



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Advanced Micro Devices
ASUS SK8V Motherboard, AMD Opteron (TM) 150

SPECint2000 = 1487
SPECint_base2000 = 1369

SPEC license #: 49 Tested by: AMD, Austin, TX Test date: Apr-2004 Hardware Avail: Jun-2004 Software Avail: Apr-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	113	1237	109	1289	
175.vpr	1400	120	1168	118	1182	
176.gcc	1100	68.0	1616	67.2	1636	
181.mcf	1800	268	672	165	1089	
186.crafty	1000	47.1	2123	45.6	2191	
197.parser	1800	148	1220	137	1311	
252.eon	1300	64.3	2023	61.1	2128	
253.perlbmk	1800	115	1564	115	1571	
254.gap	1100	83.0	1326	83.0	1326	
255.vortex	1900	122	1559	113	1687	
256.bzip2	1500	117	1277	115	1304	
300.twolf	3000	235	1276	195	1535	

Hardware

CPU: AMD Opteron (TM) 150
CPU MHz: 2400
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1
Parallel: No
Primary Cache: 64KBI + 64KBD on chip
Secondary Cache: 1024KB(I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 2x512 MB PC3200 DDR SDRAM ECC Reg CL2
Disk Subsystem: IDE, Western Digital WD2000
Other Hardware: None

Software

Operating System: SuSE Linux 8.0 SLES 64 bit (SP3)
Compiler: SuSE optional gcc 3.3 compiler (20030312) (from SLES8 SP3)
File System: Linux/ext3
System State: Multi-user SuSE Run level 3

Notes/Tuning Information

+FDO: PASS1=-fprofile-arcs PASS2=-fbranch-probabilities

Portability:

PORTABILITY=-DSPEC_CPU2000_LP64 is applied to all benchmarks, except for peak runs of 181.mcf, 197.parser and 300.twolf, which are compiled for 32-bit in peak.

186.crafty: CPORABILITY=-DLINUX_i386

176.gcc: Approved src.alt is used

252.eon: CXXPORTABILITY=-DHAS_ERRLIST -DFMAX_IS_DOUBLE

Approved src.alt is used.

253.perlbmk: CPORABILITY=-DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL -DSPEC_CPU2000_GLIBC22

254.gap: CPORABILITY=-DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO

Baseline C: gcc -O3 -funroll-all-loops +FDO

Baseline C++: g++ -O3 -funroll-all-loops +FDO

Peak tuning:

164.gzip: -O3 -funroll-all-loops -finline-limit=900 -freduce-all-givs +FDO

175.vpr: -O3 -funroll-loops -finline-limit=1000 +FDO

176.gcc: -O3 -funroll-all-loops -finline-limit=900 +FDO

181.mcf: -O3 -funroll-all-loops -m32 +FDO

Standard Performance Evaluation Corporation

info@spec.org

http://www.spec.org



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Advanced Micro Devices
ASUS SK8V Motherboard, AMD Opteron (TM) 150

SPECint2000 = 1487
SPECint_base2000 = 1369

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Apr-2004 | Hardware Avail: Jun-2004 | Software Avail: Apr-2004

Notes/Tuning Information (Continued)

```
186.crafty: -O3 -funroll-loops -fprefetch-loop-arrays
197.parser: -O3 -funroll-all-loops -m32 +FDO
252.eon: -O3 -funroll-all-loops -ffast-math -finline-limit=3000 +FDO
253.perlbnk: -O3 -funroll-all-loops -finline-limit=1800 +FDO
254.gap: basepeak=true
255.vortex: -O3 -funroll-all-loops -finline-limit=1000 +FDO
256.bzip2: -O3 -funroll-all-loops -freduce-all-givs -finline-limit=2700 +FDO
300.twolf: -O3 -funroll-all-loops -finline-limit=2000 -m32 +FDO
```

ONESTEP is used for all base and peak runs
BIOS rev.: 1001
Memory used is Corsair CMX512R-3200C2
Cas Latency manually set to 2.0 in BIOS