



CINT2000 Result

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Sun Microsystems
Sun Fire V40z

SPECint_rate2000 = --
SPECint_rate_base2000 = 111

SPEC license #: 6 Tested by: Sun Microsystems, Santa Clara Test date: May-2005 Hardware Avail: Jun-2005 Software Avail: Apr-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	124	105			
175.vpr	8	136	95.3			
176.gcc	8	85.9	119			
181.mcf	8	291	57.4			
186.crafty	8	74.1	125			
197.parser	8	164	102			
252.eon	8	76.3	158			
253.perlbnk	8	129	129			
254.gap	8	98.6	104			
255.vortex	8	102	173			
256.bzip2	8	146	95.4			
300.twolf	8	232	120			

Hardware

CPU: AMD Opteron (TM) 875
CPU MHz: 2200
FPU: Integrated
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip
CPU(s) orderable: 2,4 (order by # of chips)
Parallel: No
Primary Cache: 64KBI + 64KBD (on chip) per core
Secondary Cache: 1024KB (I+D) (on chip) per core
L3 Cache: N/A
Other Cache: N/A
Memory: 16GB (8x2GB, PC3200 CL3 DDR SDRAM ECC Registered)
Disk Subsystem: SCSI, 73GB, 10K RPM
Other Hardware: None

Software

Operating System: Solaris 10
Compiler: Sun Studio 10
with Patch-02 patches
File System: ufs
System State: Multi-user

Notes/Tuning Information

Compiler invocation:

C: cc
CXX: CC

FDO: PASS1= -xprofile=collect:./feedback PASS2= -xprofile=use:./feedback
fdo_pre0: rm -rf ./feedback.profile

Integer base flags:

Base tuning for C programs : -fast -xcrossfile -xalias_level=std +FDO ONESTEP=yes
Base tuning for C++ programs: -fast -xcrossfile -xarch=amd64 +FDO ONESTEP=yes

Portability:

186.crafty: -DUNIX -DHAS_LONGLONG -DLITTLE_ENDIAN_ARCH
252.eon: -DFMAX_IS_DOUBLE -DSPEC_CPU2000_LP64 -DUSE_STRERROR
253.perlbnk: -DSPEC_CPU2000_SOLARIS_X86
254.gap: -DSYS_IS_USG -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_CALLOC_PROTO

Shell Environments:

Stack size set to unlimited via "ulimit -s unlimited"



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Notes/Tuning Information (Continued)

Kernel Parameters (/etc/system):

```
autoup=900  
tune_t_fsflushr=1
```

Patch-02 includes the following patches for Sun Studio 10 compiler, these can be downloaded from http://developers.sun.com/prodtech/cc/downloads/patches/ss10_patches.html as of 04/21/2005:

```
117835-02 Fortran 90  
117837-02 C  
117841-01 Fortran Dynamic Libraries  
117845-01 Debugger  
117846-02 x86/x64 backend (codegen)
```

Processes were bound to CPUs using submit=pbind

Default BIOS setting was used