### CINT2000 Result

**Sun Microsystems**  
**Sun Java Workstation W1100z**  

**SPECint2000** = 1582  
**SPECint_base2000** = 1434

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Reference Time</th>
<th>Base Runtime</th>
<th>Base Ratio</th>
<th>Runtime</th>
<th>Ratio</th>
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<td>1450</td>
<td>96.3</td>
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<td>1201</td>
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<td>1115</td>
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</table>

#### 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: 4x1GB, PC3200 CL3 DDR SDRAM ECC Registered  
- Disk Subsystem: IDE, 80GB, 7200RPM  
- Other Hardware: None

#### Software
- Operating System: Red Hat Enterprise Linux WS 3 (AMD64)  
- Compiler: PathScale EKO Compiler Suite, Release 1.1  
- File System: Linux/ext3  
- System State: Multi-user, Run level 3

#### Notes/Tuning Information

Feedback-directed optimization is indicated by "+FDO", which means, unless otherwise noted:
- PASS1: -fb_create fbdata  
- PASS2: -fb_opt fbdata  

Compiler: pathcc (PathScale C) unless otherwise noted. If other compilers are used, they are indicated as:
- g++ Gnu C++  
- pathCC PathScale C++

Integer base tuning:
- C programs: pathcc -O3 -ipa +FDO  
- C++ programs: pathCC -Ofast +FDO

Peak Tuning:
- 164.gzip: -O3 -ipa -WOPT:val=0 -CG:p2align_freq=10000 +FDO  
- 175.vpr: -O2 -ipa -OPT:alias=disjoint -LNO:prefetch_ahead=2 -CG:p2align_freq=500000 -INLINE:aggressive=on -IPA:space=300;plimit=10000;callee_limit=5000:linear=on
Sun Microsystems
Sun Java Workstation W1100z

SPECint2000 = 1582
SPECint_base2000 = 1434

Notes/Tuning Information (Continued)

+FDO
176.gcc:    basepeak = true
181.mcf:    -O3 -static -OPT:Ofast -m32 +FDO
186.crafty: basepeak = true
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon:    g++ -O3 -msse2 -funroll-all-loops -ffast-math
              -finline-limit=5000
              Uses g++ style Feedback Directed Optimization:
              PASS1: -fprofile-arcs   PASS2: -fbranch-probabilities
              Previous feedback is removed prior to compiles, using:
              fdo_pre0 = rm -f *.da *.life analyz_prbrob.out
253.perlbmk: -O3 -ipa -TENV:X=3 -IPA:min_hotness=5:plimit=20000 +FDO
254.gap:    basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepeak=basepoint
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