### SGI

**SGI Altix XE 210 (Intel Xeon processor 5160, 3.0GHz)**

**SPECfp2000 =** 2752  
**SPECfp_base2000 =** --

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Reference Time</th>
<th>Base Runtime</th>
<th>Base Ratio</th>
<th>Runtime</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>168.wupwise</td>
<td>1600</td>
<td>40.4</td>
<td>3960</td>
<td></td>
<td></td>
</tr>
<tr>
<td>171.swim</td>
<td>3100</td>
<td>111</td>
<td>2799</td>
<td></td>
<td></td>
</tr>
<tr>
<td>172.mgrid</td>
<td>1800</td>
<td>93.6</td>
<td>1923</td>
<td></td>
<td></td>
</tr>
<tr>
<td>173.applu</td>
<td>2100</td>
<td>98.8</td>
<td>2125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>177.mesa</td>
<td>1400</td>
<td>45.5</td>
<td>3079</td>
<td></td>
<td></td>
</tr>
<tr>
<td>178.galgel</td>
<td>2900</td>
<td>41.7</td>
<td>6949</td>
<td></td>
<td></td>
</tr>
<tr>
<td>179.art</td>
<td>2600</td>
<td>22.9</td>
<td>11364</td>
<td></td>
<td></td>
</tr>
<tr>
<td>183.equake</td>
<td>1300</td>
<td>57.1</td>
<td>2277</td>
<td></td>
<td></td>
</tr>
<tr>
<td>187.facerec</td>
<td>1900</td>
<td>63.3</td>
<td>3002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>188.ammp</td>
<td>2200</td>
<td>101</td>
<td>2172</td>
<td></td>
<td></td>
</tr>
<tr>
<td>189.lucas</td>
<td>2000</td>
<td>98.0</td>
<td>2042</td>
<td></td>
<td></td>
</tr>
<tr>
<td>191.fma3d</td>
<td>2100</td>
<td>94.8</td>
<td>2215</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200.sixtrack</td>
<td>1100</td>
<td>96.2</td>
<td>1143</td>
<td></td>
<td></td>
</tr>
<tr>
<td>301.apsi</td>
<td>2600</td>
<td>154</td>
<td>1688</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Hardware**
- **CPU:** Intel Xeon Processor 5160 (1333Mhz System Bus)
- **CPU MHz:** 2992
- **FPU:** Integrated
- **CPU(s) enabled:** 4 cores, 2 chips, 2 cores/chip
- **CPU(s) orderable:** 1-2 chips
- **Parallel:** No
- **Primary Cache:** 32KB(I) + 32KB(D) on chip, per core
- **Secondary Cache:** 4MB (I+D) on chip, per chip
- **L3 Cache:** None
- **Other Cache:** None
- **Memory:** 4 GB (4*1GB PC2-5300 FB-DIMMs)
- **Disk Subsystem:** 1 x 250GB SATA II (Hitachi Deskstar 7200rpm)
- **Other Hardware:** None

**Software**
- **Operating System:** SUSE Linux Enterprise Server 9 Service Pack 3
- **Compiler:** Intel(R) Fortran Compiler 9.1 for EM64T (Build 20060707)
- **File System:** xfs
- **System State:** Multi-user

### Notes/Tuning Information

- Enhanced SpeedStep Technology Disabled in BIOS
- Hardware Prefetch Enabled in BIOS
- Adjacent Cache Line Prefetch Enabled in BIOS
- kernel 2.6.5-7.244-smp

**SPEC CFP2000 Baseline optimization flags**
- C programs: -fast -ansi_alias +FDO
- Fortran programs: -fast +FDO
- +FDO: PASS1=-prof_gen PASS2=-prof_use

**Portability Flags:**
- 178.galgel: -FI