



CINT2000 Result

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Unisys Corporation
ES7000 Orion 540

SPECint_rate2000 = 255

SPECint_rate_base2000 = 240

SPEC license #: 15 Tested by: Unisys Corporation Test date: Jun-2003 Hardware Avail: Jul-2003 Software Avail: May-2003

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip | 32 | 253 | 205 | 32 | 245 | 212 |
| 175.vpr | 32 | 280 | 186 | 32 | 253 | 205 |
| 176.gcc | 32 | 160 | 255 | 32 | 160 | 255 |
| 181.mcf | 32 | 669 | 99.9 | 32 | 664 | 101 |
| 186.crafty | 32 | 99.7 | 372 | 32 | 93.6 | 397 |
| 197.parser | 32 | 214 | 313 | 32 | 201 | 332 |
| 252.eon | 32 | 105 | 458 | 32 | 91.8 | 526 |
| 253.perlbnk | 32 | 236 | 283 | 32 | 190 | 352 |
| 254.gap | 32 | 557 | 73.3 | 32 | 555 | 73.6 |
| 255.vortex | 32 | 244 | 289 | 32 | 222 | 318 |
| 256.bzip2 | 32 | 247 | 226 | 32 | 247 | 226 |
| 300.twolf | 32 | 217 | 512 | 32 | 211 | 528 |

Hardware

CPU: Intel Xeon MP
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 32 cores, 32 chips, 1 core/chip
 CPU(s) orderable: 16,20,24,28,32
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 8KBD on chip
 Secondary Cache: 512KB(I+D) on chip
 L3 Cache: 2048KB(I+D) on-die
 Other Cache: 32MB L4 cache off chip per 4 CPUs
 Memory: 8GB
 Disk Subsystem: 2X36GB SCSI RAID 0 DISKS (15K rpm each)
 Other Hardware:

Software

Operating System: Windows Server 2003 Datacenter Build 3790
 Compiler: Intel C++ Compiler 7.1 Build 20030307Z
 Microsoft Visual .NET 7.0.9466
 MicroQuill SmartHeap Library 6.0
 File System: NTFS
 System State: Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs : -Qxi -Qipo -Qfp_port
Base tuning for C++ programs: -QxW -Qipo -GX -GR
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafty: -DNT_i386
253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
164.gzip: -QxW -Qipo -Oa -Oi- +FDO
175.vpr: -QxW -Qipo -O3 +FDO
176.gcc: same as base
181.mcf: -QxW -Qipo -O3 +FDO
186.crafty: -QxW -Qipo -Oa -O3 +FDO
197.parser: -QxW -Qipo -O3 +FDO
252.eon: -QxW -Qipo -O3 +FDO
253.perlbnk: -QxW -Qipo -O3 +FDO shlW32M.lib
254.gap: same as base
255.vortex: -QxW -Qipo -O3 +FDO
256.bzip2: same as base
```



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Notes/Tuning Information (Continued)

300.twolf: -QxW -Qipo -O3 +FDO shlw32M.lib
The memory was configured using Unisys Server Sentinel System Management product.