# CINT2000 Result

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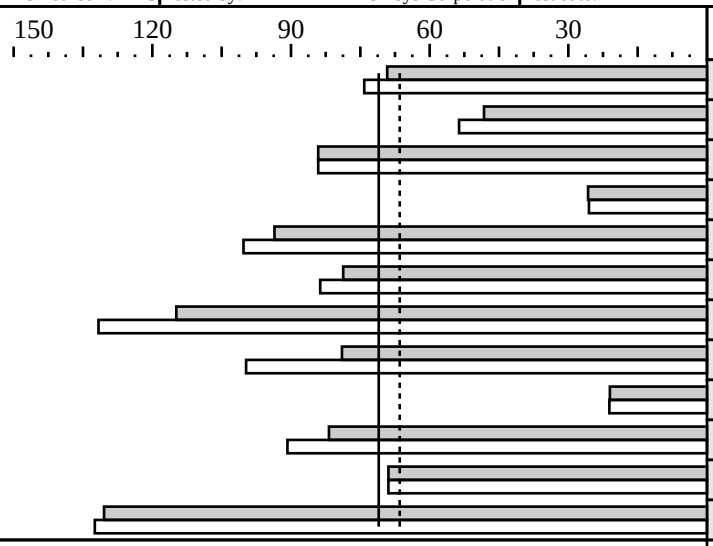
## Unisys Corporation
## ES7000 Aries 520

SPECint_rate2000 = 71.0

SPECint_rate_base2000 = 66.5

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 | 8 | 188 | 69.2 | 8 | 175 | 74.2 |
| 175.vpr | 8 | 269 | 48.2 | 8 | 242 | 53.6 |
| 176.gcc | 8 | 121 | 84.1 | 8 | 121 | 84.1 |
| 181.mcf | 8 | 649 | 25.7 | 8 | 654 | 25.5 |
| 186.crafty | 8 | 99.2 | 93.6 | 8 | 92.5 | 100 |
| 197.parser | 8 | 212 | 78.7 | 8 | 200 | 83.7 |
| 252.eon | 8 | 105 | 115 | 8 | 91.6 | 132 |
| 253.perlbmk | 8 | 212 | 79.0 | 8 | 168 | 99.7 |
| 254.gap | 8 | 486 | 21.0 | 8 | 483 | 21.1 |
| 255.vortex | 8 | 216 | 81.8 | 8 | 194 | 90.8 |
| 256.bzip2 | 8 | 202 | 68.9 | 8 | 202 | 68.9 |
| 300.twolf | 8 | 213 | 130 | 8 | 210 | 132 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon MP |
| CPU MHz: | 2800 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 8 chips, 1 core/chip |
| CPU(s) orderable: | 8,12,16 |
| 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: | 4GB |
| 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<br>Microsoft Visual .NET 7.0.9466<br>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.crafy: -DNT_i386
253.perlbmk: -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.perlbmk:  -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.
```