



# 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.perlbnk	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  
 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.