



# CINT2000 Result

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Unisys  
e-@ction Enterprise Server ES7000

SPECint\_rate2000 = 44.3  
SPECint\_rate\_base2000 = 43.5

SPEC license #: 15 Tested by: Unisys, Mission Viejo, CA Test date: Jan-2001 Hardware Avail: Nov-2000 Software Avail: Nov-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	711	36.6	16	713	36.4
175.vpr	16	602	43.1	16	605	43.0
176.gcc	16	482	42.4	16	482	42.3
181.mcf	16	1255	26.6	16	1144	29.2
186.crafty	16	307	60.4	16	309	60.1
197.parser	16	945	35.3	16	961	34.7
252.eon	16	328	73.5	16	291	82.8
253.perlbnk	16	550	60.7	16	564	59.3
254.gap	16	1399	14.6	16	1402	14.6
255.vortex	16	562	62.7	16	554	63.7
256.bzip2	16	845	32.9	16	819	34.0
300.twolf	16	617	90.2	16	614	90.7

### Hardware

CPU: Intel Pentium III Xeon 700 MHz  
CPU MHz: 651  
FPU: Integrated  
CPU(s) enabled: 16 cores, 16 chips, 1 core/chip  
CPU(s) orderable: Up to 32  
Parallel: No  
Primary Cache: 16KB(I)+16KB(D) on chip  
Secondary Cache: 2MB(I+D) on die  
L3 Cache: One 16MB L3 cache per 4 CPUs  
Other Cache: N/A  
Memory: 16GB  
Disk Subsystem: 10x36GB ESM7700-C10  
Other Hardware:

### Software

Operating System: Windows 2000 Datacenter build 2195  
Compiler: Intel C/C++ Compiler 5.0 for Windows NT  
Microsoft Visual C++ 6.0 (for libraries)  
MicroQuill SmartHeap Library 5.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

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FEEDBACK-DIRECTED OPTIMIZATION
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
BASE TUNING
C SOURCE: -QxK -Qipo shlw32M.lib +FDO
C++ SOURCE: -QxK -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: -QxK -Qipo +FDO shlw32M.lib
175.vpr: -QxK -Qipo +FDO shlw32M.lib
176.gcc: -QxK -Qipo +FDO shlw32M.lib
181.mcf: -QxK -Qipo +FDO shlw32M.lib
186.crafty: -QxK -Qipo +FDO shlw32M.lib
197.parser: -QxK -Qipo +FDO shlw32M.lib
252.eon: -QxK -Qipo +FDO
253.perlbnk: -QxK -Qipo +FDO shlw32M.lib
254.gap: -QxK -Qipo +FDO shlw32M.lib

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## Notes/Tuning Information (Continued)

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255.vortex: -QxK -Qipo +FDO -Oa shlw32M.lib
256.bzip2:  -QxK -Qipo +FDO -Oa shlw32M.lib
300.twolf:  -QxK -Qipo +FDO -Oa shlw32M.lib
LIBRARIES
shlw32M.lib: MicroQuill SmartHeap Library 5.0
              www.microquill.com
```