



# CINT2000 Result

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Fujitsu Limited  
PRIMEQUEST 580

SPECint\_rate2000 = 1016  
SPECint\_rate\_base2000 = 1016

SPEC license #: 19 | Tested by: Fujitsu Limited | Test date: Jul-2006 | Hardware Avail: Aug-2006 | Software Avail: May-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	64	141	739	64	141	739
175.vpr	64	124	839	64	124	839
176.gcc	64	65.9	1239	64	65.9	1239
181.mcf	64	73.7	1814	64	73.7	1814
186.crafty	64	79.6	933	64	79.6	933
197.parser	64	177	754	64	177	754
252.eon	64	58.8	1643	64	58.8	1643
253.perlbnk	64	132	1012	64	132	1012
254.gap	64	168	487	64	168	487
255.vortex	64	90.9	1551	64	90.9	1551
256.bzip2	64	121	918	64	121	918
300.twolf	64	207	1075	64	207	1075

### Hardware

CPU: Dual Core Intel(R) Itanium(R) 2 (1.6GHz/24MB, 533MHz FSB)  
 CPU MHz: 1600  
 FPU: Integrated  
 CPU(s) enabled: 64 cores, 32 chips, 2 cores/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 1-32(chips)  
 Parallel: no  
 Primary Cache: 16KBI + 16KBD on chip, per core  
 Secondary Cache: 1024KBI + 256KBD on chip, per core  
 L3 Cache: 12.0MB (I+D) on chip, per core  
 Other Cache: N/A  
 Memory: 256GB (256x1GB DIMMs)  
 Disk Subsystem: Fujitsu MAT3073NC (SCSI Ultra 320)  
 Other Hardware: N/A

### Software

Operating System: Red Hat Enterprise Linux AS 4 Update2  
 Compiler: Intel(R) C++ Compiler for Linux 9.1 (Build 20060523)  
 File System: ext2  
 System State: Single-user

## Notes/Tuning Information

+FDO: PASS1=-prof-gen PASS2=-prof-use

Baseline optimization flags:

C programs: -fast -auto-ilp32 -IPF-fp-relaxed +FDO

C++ programs: -fast -ansi-alias -IPF-fp-relaxed +FDO

Peak optimization flags:

same as base (basepeak=true)

Processes are bound to CPUs using taskset.

Memory system is in "Non Mirror Mode".

Portability Flags:

176.gcc : -DSPEC\_CPU2000\_LP64 -Dalloca=\_alloca

186.crafty : -DLINUX\_i386

252.eon : -DSPEC\_CPU2000\_LP64 -DHAS\_ERRLIST

253.perlbnk : -DSPEC\_CPU2000\_LP64 -DSPEC\_CPU2000\_NEED\_BOOL

-DSPEC\_CPU2000\_LINUX\_IA64

254.gap : -DSPEC\_CPU2000\_LP64 -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_IS\_USG

-DSYS\_HAS\_IOCTL\_PROTO -DSYS\_HAS\_TIME\_PROTO

-DSYS\_HAS\_SIGNAL\_PROTO -include unistd.h

255.vortex : -DSPEC\_CPU2000\_LP64

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