



# CINT2000 Result

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Fujitsu Limited  
PRIMEPOWER2000 (675MHz)

SPECint\_rate2000 = 571  
SPECint\_rate\_base2000 = 540

SPEC license #: 19 Tested by: Fujitsu Limited Test date: Sep-2001 Hardware Avail: Sep-2001 Software Avail: Dec-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	128	379	549	128	373	557
175.vpr	128	389	535	128	377	552
176.gcc	128	1119	146	128	954	171
181.mcf	128	476	561	128	404	662
186.crafty	128	230	645	128	203	732
197.parser	128	430	622	128	414	646
252.eon	128	287	672	128	269	717
253.perlbnk	128	385	694	128	383	699
254.gap	128	528	310	128	516	316
255.vortex	128	300	940	128	300	940
256.bzip2	128	348	641	128	348	641
300.twolf	128	611	729	128	581	766

### Hardware

CPU: SPARC64 GP  
CPU MHz: 675  
FPU: Integrated  
CPU(s) enabled: 128 cores, 128 chips, 1 core/chip  
CPU(s) orderable: 8 to 128  
Parallel: None  
Primary Cache: 128KBI+128KBD on chip  
Secondary Cache: 8MB(I+D) off chip, per CPU  
L3 Cache: None  
Other Cache: None  
Memory: 256GB  
Disk Subsystem: 1 x 36GB, 1 x 18GB SCSI (10000rpm)  
Other Hardware: None

### Software

Operating System: Solaris 8 7/01  
Compiler: Fujitsu Parallelnavi 1.0.2 with patch 911403-01  
Sun Forte Developer 6 update 2  
File System: ufs  
System State: multi user

## Notes/Tuning Information

Baseline (except 252.eon, for Parallelnavi 1.0.2): -Kfast\_GP=3,largepage  
fdo\_pre0=rm -rf `pwd`/\*.fbk  
PASS1=-Kpg  
PASS2=-Kpu=\$(EXEBASE).fbk  
(252.eon, for Forte Developer 6 update 2): -fast -xcrossfile -xarch=v8plus  
fdo\_pre0=rm -rf `pwd`/../feedback.profile `pwd`/SunWS\_cache  
PASS1=-xprofile=collect:`pwd`/../feedback  
PASS2=-xprofile=use:`pwd`/../feedback

Peak (for Parallelnavi 1.0.2):  
fdo\_pre0=rm -rf `pwd`/\*.fbk  
PASS1=-Kpg  
PASS2=-Kpu=\$(EXEBASE).fbk  
164.gzip: -Kfast\_GP=4,largepage  
175.vpr: -Kfast\_GP=4,staticclump,memalias,switchopt,cond,GREG,nounroll,largepage,onefile,NOFLTLTD=3,xi=30  
176.gcc: -Kfast\_GP=2,GREG,cfunc,popt -dn  
181.mcf: -Kfast\_GP=2,nounroll,memalias,restp,prefetch=2,largepage -x-  
197.parser: -Kfast\_GP=4,switchopt,cond,staticclump,use\_roddata,largepage  
253.perlbnk: -Kfast\_GP=4,memalias,switchopt,largepage,bcopy  
254.gap: -Kfast\_GP=3,largepage,memalias,unroll=4



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## Notes/Tuning Information (Continued)

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255.vortex: -Kfast_GP=3,GREG,popt,staticclump,use_rodata,cond,cfunc,switchopt,largepage
256.bzip2: -Kfast_GP=3,largepage
300.twolf: -Kfast_GP=5,GREG,memalias,cfunc,staticclump,use_rodata,xi=10,largepage,nounroll,bcopy
(for Forte Developer 6 update 2)
fdo_pre0=rm -rf `pwd`/../feedback.profile `pwd`/SunWS_cache
PASS1=-xprofile=collect:`pwd`/../feedback
PASS2=-xprofile=use:`pwd`/../feedback
186.crafty: -fast -xcrossfile -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong
-xregs=syst -xchip=ultra2 -xarch=v8plus -W2,-Amemopt
252.eon: -fast -xcrossfile -xsafe=mem -Qoption iropt -Mt500,-restrict_g,-restrict
-Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -xarch=v8plus

```

### Portability:

```

176.gcc: -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
186.crafty: -DSUN
252.eon: -library=iostream
253.perlbmk: -DSPEC_CPU2000_SOLARIS
254.gap: -DSYS_IS_USG -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_CALLOC_PROTO

```

### Note:

```

System Tunables: (for /etc/system)
consistent_coloring=1, tune_t_fsflushr=86400, autoup=86400,
shmsys:shminfo_shmmx=8589934592, shmsys:shminfo_shmmni=1024, shmsys:shminfo_shmseg=1024
(for /etc/opt/FJSVpnmr/lpg.conf)
TSS=512M, SHMSEGSIZE=256M
ONESTEP=yes was set for all baseline and peak benchmarks.
Feedback directed optimization was used for all baseline and peak benchmarks.

```