



# CINT2000 Result

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Fujitsu Limited  
PRIMEPOWER900 (1350MHz)

SPECint2000 = NC  
SPECint\_base2000 = NC

SPEC license #: 19 | Tested by: Fujitsu Limited | Test date: Sep-2002 | Hardware Avail: Jan-2003 | Software Avail: Jan-2003

**SPEC has determined that this result was not in compliance with the SPEC CPU2000 run and reporting rules. Specifically, the tester has reported that the 3 month availability requirement in the SPEC CPU2000 run rules will not be met due to a change in availability of the hardware.**

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1	2	3	4	5
164.gzip	1400	NC	NC	NC	NC					
175.vpr	1400	NC	NC	NC	NC					
176.gcc	1100	NC	NC	NC	NC					
181.mcf	1800	NC	NC	NC	NC					
186.crafty	1000	NC	NC	NC	NC					
197.parser	1800	NC	NC	NC	NC					
252.eon	1300	NC	NC	NC	NC					
253.perlbmk	1800	NC	NC	NC	NC					
254.gap	1100	NC	NC	NC	NC					
255.vortex	1900	NC	NC	NC	NC					
256.bzip2	1500	NC	NC	NC	NC					
300.twolf	3000	NC	NC	NC	NC					

### Hardware

CPU: SPARC64 V  
CPU MHz: 1350  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 4 to 16  
Parallel: None  
Primary Cache: 128KBI+128KBD on chip  
Secondary Cache: 2MB(I+D) on chip  
L3 Cache: None  
Other Cache: None  
Memory: 8192MB  
Disk Subsystem: 1 x 36.4GB SCSI (10000rpm)  
Other Hardware: None

### Software

Operating System: Solaris8 2/02 with current patches (see notes)  
Compiler: Fujitsu Parallelnavi 1.0.2  
Sun ONE Studio 7 with current patches (see notes)  
Sun Performance Library 7  
File System: ufs  
System State: multi user

### Notes/Tuning Information

Baseline (except 252.eon, for Sun ONE Studio 7): -fast -xtarget=ultra3 -xcrossfile  
fdo\_pre0=rm -rf `pwd`/../feedback.profile `pwd`/SunWS\_cache  
PASS1=-xprofile=collect:`pwd`/../feedback  
PASS2=-xprofile=use:`pwd`/../feedback  
(252.eon, for Sun ONE Studio 7): -fast -xchip=ultra3 -xarch=v8plus -xcrossfile  
Peak  
(for Sun ONE Studio 7)  
fdo\_pre0=rm -rf `pwd`/../feedback.profile `pwd`/SunWS\_cache  
PASS1=-xprofile=collect:`pwd`/../feedback



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## Notes/Tuning Information (Continued)

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PASS2=-xprofile=use:`pwd`/./feedback
164.gzip: -xO5 -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb
-xalias_level=std -W2,-whole -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprefetch -xprefetch_level=2
175.vpr: -fast -xchip=ultra2 -xcache=128/64/2:2048/64/4 -xarch=v8plusb
-xalias_level=std -xipo=1 -xsfpconst -xdepend -W2,-whole -Wc,-Qeps:enabled=1,-Qeps:do_spec_load=1,-Qeps:rp_filtering_margin=100
-xregs=syst -xprefetch -xprefetch_level=2 -lmopt -lm
176.gcc: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb -xcrossfile
-W2,-whole -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprefetch -ll2amm
181.mcf: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb
-xcrossfile -xprefetch -xdepend -Wc,-Qms_pipe-pref,-Qlp=1-fa=1-av=256-t=2-fl=1 -lprism32
186.crafty: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb
-xinline= -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong
-xregs=syst -W2,-Ashort_ldst,-Aivel:duplicate_loops -xipo=1
197.parser: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb
-xdepend -xcrossfile -xregs=syst -Wc,-Qgsched-trace_late=1,-Qgsched-T4
-xalias_level=strong -Wc,-Qipa:valueprediction -lprism32
252.eon: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plus
-xcrossfile -xregs=syst -xsafe=mem -Qoption iropt -Mt2000 -Qoption cg
-Qgsched-trace_late=1,-Qgsched-trace_spec_load=1,-Qgsched-T4 -xunroll=3 -lmopt
253.perlbnk: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb -xcrossfile
-Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1
-xalias_level=std -xsafe=mem -W2,-crit -Wc,-Qiselect-sw_pf_tbl_th=20
254.gap: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb
-xcrossfile -xalias_level=std -xprefetch -W2,-whole
-Wc,-Qgsched-trace_late=1,-Qgsched-T4
255.vortex: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb
-Wc,-Qeps:enabled=1,-Qeps:do_spec_load=1 -Wc,-Qinline_memcpy=32
-W2,-Aheap,-reroll=1,-Aunroll,-Msl,-Mt500,-Mr6000,-crit
-Wc,-Qdepggraph-early_cross_call=1 -Wc,-Qiselect-funcalign=64
-Wc,-Qpeep-Sh0 -xrestrict -xdepend -xcrossfile -ll2amm -lprism32
256.bzip2: -fast -xchip=ultra3 -xcache=128/64/2:2048/64/4 -xarch=v8plusb
-W2,-Abopt -xcrossfile -xalias_level=strong -Wc,-Qiselect-funcalign=64
-xdepend -xregs=syst -xsafe=mem
(for Parallelnavi 1.0.2)
300.twolf: -Kfast_GP=5,GREG,popt,cfunc,staticclump,use_rodata,xi=10,nounroll,largepage,bcopy,prefetch=4 -dy
PASS1=-Kpg
PASS2=-Kpu=$(EXEBASE).fbk
Portability:
176.gcc: -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
186.crafty: -DSUN
252.eon: -library=iostream
253.perlbnk: -DSPEC_CPU2000_SOLARIS
254.gap: -DSYS_IS_USG -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_IOCTL_PROTO
Note:

```



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## Notes/Tuning Information (Continued)

System Tunables: (for /etc/system)

consistent\_coloring=1,

shmsys:shminfo\_shmmax=2147483648, shmsys:shminfo\_shmmni=256,

shmsys:shminfo\_shmseg=400,shminfo\_shmmin=1

set tune\_t\_fsflushr = 86400

set autoup = 86400

(for /etc/opt/FJSVpnm/lpg.conf)

TSS=512M, SHMSEGSIZE=256M

Shell Environments:

LD\_LIBRARY\_PATH="/opt/FSUNf90/lib:/space/SUNWspro/prod/lib:/usr/lib"

PRISM\_HEAP=268435456

PRISM\_MODE=2

ONESTEP=yes was set for all baseline and peak benchmarks.

Feedback directed optimization was used for all baseline and peak benchmarks.

Stack size set to unlimited via "ulimit -s unlimited"

Small configuration memory system mode used ("4cpu mode", enabled via front panel).

System board used with only one CPU present.

All patches of Sun ONE Studio 7 posted at URL <http://access1.sun.com/sundev/sls7-patches.html>

as of date 2002/09/24 were applied: 111704-04, 111705-02, 111706-02, 111708-01, 111709-02,

111714-02, 111715-01, 111716-02, 111718-01, 111723-01.

All patches for Sun ONE Studio 7 SPARC SunOS 5.8 posted at

[http://access1.sun.com/patch.public/cgi-bin/show\\_list.cgi/wrk/Sun\\_ONE\\_Studio\\_7\\_SPARC\\_SunOS\\_5.8](http://access1.sun.com/patch.public/cgi-bin/show_list.cgi/wrk/Sun_ONE_Studio_7_SPARC_SunOS_5.8)

as of date 2002/09/24 were applied: 108434-08, 108435-08, 111697-03, 111721-02.