



CINT2000 Result

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Fujitsu Limited
PRIMEPOWER850 (675MHz)

SPECint2000 = 476
SPECint_base2000 = 446

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	348	402	349	401	
175.vpr	1400	335	418	320	438	
176.gcc	1100	306	360	248	444	
181.mcf	1800	365	493	328	549	
186.crafty	1000	233	430	192	521	
197.parser	1800	398	452	390	462	
252.eon	1300	274	474	257	507	
253.perlbnk	1800	365	493	351	513	
254.gap	1100	405	271	407	270	
255.vortex	1900	273	696	264	721	
256.bzip2	1500	323	464	323	464	
300.twolf	3000	571	525	532	563	

Hardware

CPU: SPARC64 GP
 CPU MHz: 675
 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: 8MB(I+D) off chip, per CPU
 L3 Cache: None
 Other Cache: None
 Memory: 16GB
 Disk Subsystem: 2 x 18GB SCSI (10025rpm)
 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
 175.vpr: -Kfast_GP=4,staticclump,memalias,switchopt,cond,GREG,nounroll,largepage,onefile,NOFLTLTD=3,xi=30
 181.mcf: -Kfast_GP=2,nounroll,memalias,restp,prefetch=2,largepage -x-
 197.parser: -Kfast_GP=4,switchopt,cond,staticclump,use_rodata,largepage
 253.perlbnk: -Kfast_GP=4,memalias,switchopt,largepage,bcopy
 254.gap: -Kfast_GP=3,largepage,memalias,unroll=4
 256.bzip2: -Kfast_GP=3,largepage



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Notes/Tuning Information (Continued)

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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
176.gcc: -fast -xcrossfile -W2,-whole -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qiselect-funcalign=64
-xarch=v8plus -xprefetch
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
255.vortex: -fast -xsafe=mem -xcrossfile -W2,-Aheap,-reroll=1,-Aunroll,-Ms1,-Mt500,-Mr6000,-crit
-Wc,-Qdepgraph-early_cross_call=1 -Wc,-Qiselect-funcalign=32 -Wc,-Qpeep-Sh0
-xrestrict -xdepend -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xarch=v8plus -W2,-Amemopt

```

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

```

Note:

```

System Tunables: (for /etc/system)
consistent_coloring=1, tune_t_fsflushr=86400, autoup=86400,
shmsys:shminfo_shmmax=8589934592, shmsys:shminfo_shmmni=1024, shmsys:shminfo_shmseg=1024
(for /etc/opt/FJSPvnm/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.
Only one CPU installed on the system board.
Extended Interleave Mode enabled.

```