



CINT2000 Result

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Fujitsu Limited
PRIMEPOWER900 (2160MHz)

SPECint_rate2000 = 143
SPECint_rate_base2000 = 131

SPEC license #: 19 Tested by: Fujitsu Limited Test date: Dec-2005 Hardware Avail: Feb-2006 Software Avail: Nov-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	129	101	8	128	102
175.vpr	8	108	121	8	105	123
176.gcc	8	129	79.0	8	69.8	146
181.mcf	8	126	132	8	105	159
186.crafty	8	62.8	148	8	60.1	154
197.parser	8	142	118	8	129	129
252.eon	8	78.7	153	8	75.9	159
253.perlbnk	8	118	141	8	117	143
254.gap	8	96.4	106	8	94.8	108
255.vortex	8	69.5	254	8	67.8	260
256.bzip2	8	106	131	8	103	135
300.twolf	8	187	149	8	187	149

Hardware

CPU: SPARC64 V
 CPU MHz: 2160
 FPU: Integrated
 CPU(s) enabled: 8 cores, 8 chips, 1 core/chip
 CPU(s) orderable: 1 to 16 (increments of 1)
 Parallel: None
 Primary Cache: 128KBI + 128KBD on chip
 Secondary Cache: 4MB(I+D) on chip
 L3 Cache: None
 Other Cache: None
 Memory: 32GB (512MB x 64)
 Disk Subsystem: 1 x 36.4GB SCSI (10000rpm)
 Other Hardware: None

Software

Operating System: Solaris 10
 Compiler: Sun Studio 11
 File System: ufs
 System State: multi user

Notes/Tuning Information

FDO: (for Sun Studio 11)
 fdo_pre0=rm -rf ./feedback.profile ./SunWS_cache
 PASS1=-xprofile=collect:./feedback
 PASS2=-xprofile=use:./feedback

Integer base flags:
 (using C compiler of Sun Studio 11)
 -fast -xtarget=ultra3cu -xipo=2 ONESTEP=yes FDO
 (using C++ compiler of Sun Studio 11)
 -fast -xipo=2 ONESTEP=yes FDO

Integer peak flags:
 (using C compiler of Sun Studio 11)
 164.gzip: -xarch=v8plusb -xchip=ultra2 -xcache=128/64/2:4096/64/4
 -xalias_level=std -xipo=2 -W2,-whole -xO5 ONESTEP=yes FDO
 175.vpr: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
 -xalias_level=std -xchip=ultra2 -xipo=2 ONESTEP=yes FDO
 176.gcc: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
 -xipo=2 -l12amm ONESTEP=yes FDO



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181.mcf: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
-xipo=2 -xprefetch_level=3 -W2,-Apf:l1list=3:noninnerl1list
ONESTEP=yes FDO

186.crafty: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
-xalias_level=strong -xipo=2 -xpagesize=512K -W2,-Ashort_ldst
ONESTEP=yes FDO

197.parser: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
-xalias_level=strong -xipo=2 -Wc,-Qgsched-T6,
-Qgsched-trace_late=1,-Qipa:valueprediction ONESTEP=yes FDO

253.perlbnk: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
-xipo=2 -xalias_level=std ONESTEP=yes FDO

254.gap: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
-xalias_level=strong -xipo=2 -xprefetch_level=3 -xvector
-W2,-Abcopy ONESTEP=yes FDO

255.vortex: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
-xipo=2 -xrestrict -W2,-crit,-Ainline:recursion=1:cs=500:irs=6000
-Wc,-Qdeprgraph-early_cross_call=1 -l12amm ONESTEP=yes FDO

256.bzip2: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
-xipo=2 -xalias_level=strong -xrestrict ONESTEP=yes FDO

300.twolf: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
-xipo=2 ONESTEP=yes FDO

(using C++ compiler of Sun Studio 11)

252.eon: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
-noex -xalias_level=compatible -xipo=2
-Qoption cg -Qeps:enabled=1,-Qeps:ws=32 ONESTEP=yes FDO

Portability:

176.gcc: -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
186.crafty: -DSUN
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

System Tunables:

(for /etc/system)
set consistent_coloring=1
set tune_t_fsflushr=86400
set autoup=86400
set memscrub_period_sec=172800

Shell Environments:

Stack size set to unlimited via "ulimit -s unlimited"
MPSSHEAP=4M
MPSSSTACK=4M
LD_PRELOAD=mpss.so.1

Processes were bound to CPUs using "submit=pbind"

Extended Interleave Mode enabled.

4 CPUs each on 2 system board. Unused CPUs have physically removed.

Sun Studio 11, posted at URL <http://www.sun.com/software/products/studio/index.xml>
was used for this submission.



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Notes/Tuning Information (Continued)

Model PRIMEPOWER850 (2160MHz) and model PRIMEPOWER900 (2160MHz) are electronically equivalent. This result was measured on model PRIMEPOWER900 (2160MHz).