



CINT2000 Result

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Fujitsu Limited
PRIMEPOWER250 (1650MHz)

SPECint_rate2000 = 27.8
SPECint_rate_base2000 = 26.3

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	2	157	20.7	2	155	20.9
175.vpr	2	139	23.3	2	136	23.8
176.gcc	2	113	22.7	2	86.9	29.4
181.mcf	2	171	24.4	2	149	28.1
186.crafty	2	82.4	28.2	2	78.9	29.4
197.parser	2	185	22.6	2	170	24.6
252.eon	2	103	29.2	2	99.8	30.2
253.perlbnk	2	151	27.7	2	150	27.9
254.gap	2	114	22.3	2	112	22.8
255.vortex	2	85.7	51.5	2	83.8	52.6
256.bzip2	2	141	24.7	2	138	25.2
300.twolf	2	245	28.5	2	245	28.4

Hardware

CPU: SPARC64 V
 CPU MHz: 1650
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
 CPU(s) orderable: 1 to 2 (increments of 1)
 Parallel: None
 Primary Cache: 128KBI + 128KBD on chip
 Secondary Cache: 3MB(I+D) on chip
 L3 Cache: None
 Other Cache: None
 Memory: 8GB (1GB x 8)
 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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Notes/Tuning Information (Continued)

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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,-Qdepgraph-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

```

Shell Environments:

```

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

```

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