CINT2000 Result

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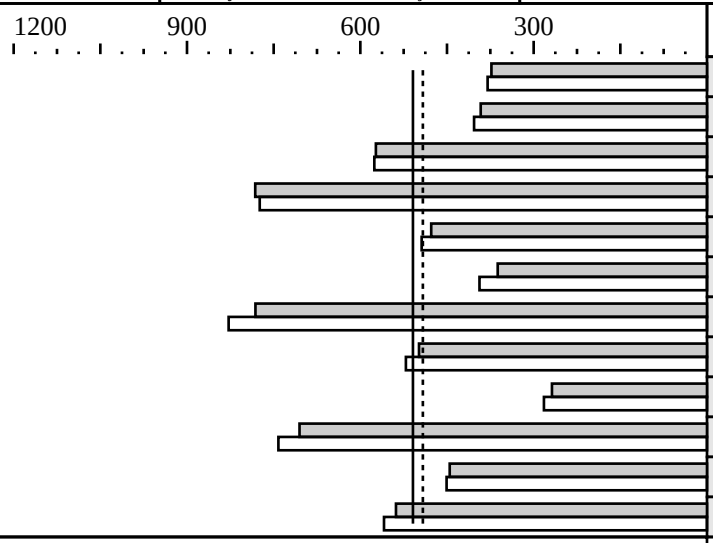
Fujitsu Limited
PRIMEQUEST 480

SPECint_rate2000 = 509

SPECint_rate_base2000 = 492

SPEC license #: 19 | Tested by: Fujitsu Limited | Test date: Oct-2005 | Hardware Avail: Sep-2005 | Software Avail: May-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	32	139	373	32	137	380
175.vpr	32	133	392	32	129	403
176.gcc	32	71.2	573	32	70.9	576
181.mcf	32	85.5	782	32	86.3	774
186.crafty	32	77.8	477	32	75.2	494
197.parser	32	184	362	32	170	394
252.eon	32	61.7	782	32	58.3	828
253.perlbmk	32	134	498	32	128	521
254.gap	32	152	268	32	145	282
255.vortex	32	100	705	32	95.1	742
256.bzip2	32	125	445	32	124	451
300.twolf	32	207	538	32	199	559

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	32 cores, 32 chips, 1 core/chip
CPU(s) orderable:	1-32
Parallel:	no
Primary Cache:	16KBI + 16KBD (on chip) per CPU
Secondary Cache:	256KB (on chip) per CPU
L3 Cache:	9.0MB (on chip) per CPU
Other Cache:	N/A
Memory:	256GB (256x1GB DIMMs)
Disk Subsystem:	Fujitsu MAT3073NC (SCSI Ultra 320)
Other Hardware:	N/A

Software

Operating System:	Red Hat Enterprise Linux AS 4
Compiler:	Intel(R) C++ Compiler for Linux 8.1 (Build 20050518) MicroQuill SmartHeap Library 7.3 (www.microquill.com)
File System:	ext2
System State:	Single-user

Notes/Tuning Information

```
+FDO: PASS1=-prof_gen PASS2=-prof_use

Baseline optimization flags:
  C programs:       -fast -auto_ilp32 -IPF_fp_relaxed +FDO
  C++ programs:     -fast -ansi_alias -IPF_fp_relaxed +FDO

Peak optimization flags:
  164.gzip    :-O2 -ipo -static -auto_ilp32 -IPF_fp_relaxed
               -IPF_flt_eval_method0 -ansi_alias -ftz +FDO
  175.vpr     :-O2 -ipo -static -auto_ilp32 -IPF_fp_relaxed
               -IPF_flt_eval_method0 -ftz +FDO
               -Qoption,c,-ip_ninl_max_stats=4000
               -Qoption,c,-ip_ninl_max_total_stats=4500
  176.gcc     :-O2 -ipo -static -auto_ilp32 -IPF_fp_relaxed
               -IPF_flt_eval_method0 +FDO
  181.mcf     :-fast -auto_ilp32 -IPF_fp_relaxed
               -IPF_flt_eval_method0 -ansi_alias +FDO
  186.crafty  :-O2 -ipo -static -auto_ilp32 -IPF_fp_relaxed
               -IPF_flt_eval_method0 -ansi_alias -ansi +FDO
               -Qoption,c,-ip_ninl_max_stats=100
```

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Notes/Tuning Information (Continued)

```
                 -Qoption,c,-ip_ninl_max_total_stats=500
  197.parser  :-fast -auto_ilp32 -IPF_fp_relaxed
                 -IPF_flt_eval_method0 -ansi_alias +FDO
                 -Qoption,c,-ip_ninl_min_stats=15
                 -Qoption,c,-ip_ninl_max_stats=3200
                 -Qoption,c,-ip_ninl_max_total_stats=4000
                 Extra Libraries: libsmartheap64.a
  252.eon     :-fast -auto_ilp32 -IPF_fp_relaxed
                 -IPF_flt_eval_method0 -ansi_alias +FDO
                 -Qoption,c,-ip_ninl_max_stats=6400
                 -Qoption,c,-ip_ninl_max_total_stats=8000
                 Extra Libraries: libsmartheap64.a
  253.perlbmk :-fast -auto_ilp32 -IPF_fp_relaxed
                 -IPF_flt_eval_method0 -ansi_alias +FDO
                 -Qoption,c,-ip_ninl_min_stats=1
                 -Qoption,c,-ip_ninl_max_stats=800
                 -Qoption,c,-ip_ninl_max_total_stats=4000
                 Extra Libraries: libsmartheap64.a
  254.gap     :-fast -auto_ilp32 -IPF_fp_relaxed -nolib_inline
                 -IPF_flt_eval_method0 -ansi_alias +FDO
  255.vortex  :-fast -auto_ilp32 -IPF_fp_relaxed
                 -IPF_flt_eval_method0 +FDO
                 Extra Libraries: libsmartheap64.a
  256.bzip2   :-fast -auto_ilp32 -IPF_fp_relaxed
                 -IPF_flt_eval_method0 -ansi_alias +FDO
                 -Qoption,c,-ip_ninl_min_stats=1
                 -Qoption,c,-ip_ninl_max_stats=3200
                 -Qoption,c,-ip_ninl_max_total_stats=4000
  300.twolf   :-fast -auto_ilp32 -IPF_fp_relaxed
                 -IPF_flt_eval_method0 +FDO
                 Extra Libraries: libsmartheap64.a

Processes are bound to CPUs using taskset.

Memory system is in "Non Mirror Mode".

Portability Flags:
  176.gcc     : -DSPEC_CPU2000_LP64 -Dalloca=_alloca
  186.crafty  : -DLINUX_i386
  252.eon     : -DSPEC_CPU2000_LP64 -DHAS_ERRLIST
  253.perlbmk : -DSPEC_CPU2000_LP64 -DSPEC_CPU2000_NEED_BOOL
                -DSPEC_CPU2000_LINUX_IA64
  254.gap     : -DSPEC_CPU2000_LP64 -DSYS_HAS_CALLOC_PROTO -DSYS_IS_USG
                -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
                -DSYS_HAS_SIGNAL_PROTO -include unistd.h
  255.vortex  : -DSPEC_CPU2000_LP64
```