



CFP2000 Result

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Fujitsu Limited
PRIMEQUEST 480

SPECfp_rate2000 = 766

SPECfp_rate_base2000 = 757

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	32	109	546	32	108	550
171.swim	32	151	763	32	151	762
172.mgrid	32	130	515	32	127	525
173.applu	32	64.0	1218	32	64.1	1216
177.mesa	32	106	492	32	94.7	549
178.galgel	32	39.3	2741	32	39.0	2761
179.art	32	20.2	4787	32	20.0	4822
183.equake	32	76.5	631	32	75.9	635
187.facerec	32	91.2	773	32	91.9	768
188.amp	32	137	598	32	135	603
189.lucas	32	188	396	32	187	397
191.fma3d	32	174	448	32	175	446
200.sixtrack	32	70.6	578	32	70.7	578
301.apsi	32	237	407	32	237	408

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) Fortran Compiler for Linux 9.0 (Build 20050912)
 Intel(R) C++ Compiler for Linux 9.0 (Build 20050811)
 File System: ext2
 System State: Single-user

Notes/Tuning Information

+FDO: PASS1=-prof_gen PASS2=-prof_use

Baseline optimization flags:

C programs: -fast -IPF_fp_relaxed -ansi_alias +FDO
 Fortran programs: -fast -IPF_fp_relaxed +FDO

Peak optimization flags:

168.wupwise : -fast -IPF_fp_relaxed -IPFflt_eval_method0 +FDO
 171.swim : -fast -IPF_fp_relaxed -IPFflt_eval_method0 -tpp1 +FDO
 172.mgrid : -fast -IPF_fp_relaxed -IPFflt_eval_method0 -tpp1 +FDO
 173.applu : -fast -IPF_fp_relaxed -IPFflt_eval_method0 +FDO
 177.mesa : -fast -auto_ilp32 -IPF_fp_relaxed
 -IPFflt_eval_method0 -ansi_alias -strict_ansi +FDO
 178.galgel : -O3 -static -IPF_fp_relaxed -IPFflt_eval_method0 +FDO
 179.art : -fast -auto_ilp32 -IPF_fp_relaxed
 -IPFflt_eval_method0 -ansi_alias +FDO
 183.equake : -fast -auto_ilp32 -IPF_fp_relaxed



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Notes/Tuning Information (Continued)

```
-IPFflt_eval_method0 +FDO
-Qoption,c,-ip_ninl_max_stats=100
-Qoption,c,-ip_ninl_max_total_stats=500
187.facerec : -fast -IPFfp_relaxed -IPFflt_eval_method0 +FDO
188.ammpp   : -fast -auto_ilp32 -IPFfp_relaxed +FDO
             -IPFflt_eval_method0 -ansi_alias
189.lucas   : -fast -IPFfp_relaxed -IPFflt_eval_method0 +FDO
191.fma3d   : -fast -IPFfp_relaxed -IPFflt_eval_method0 +FDO
200.sixtrack: -fast -IPFfp_relaxed -IPFflt_eval_method0 +FDO
301.apsi    : -fast -IPFfp_relaxed -IPFflt_eval_method0 +FDO
```

Processes are bound to CPUs using taskset.

Memory system is in "Non Mirror Mode".

Portability Flags:

```
178.galgel : -FI
```