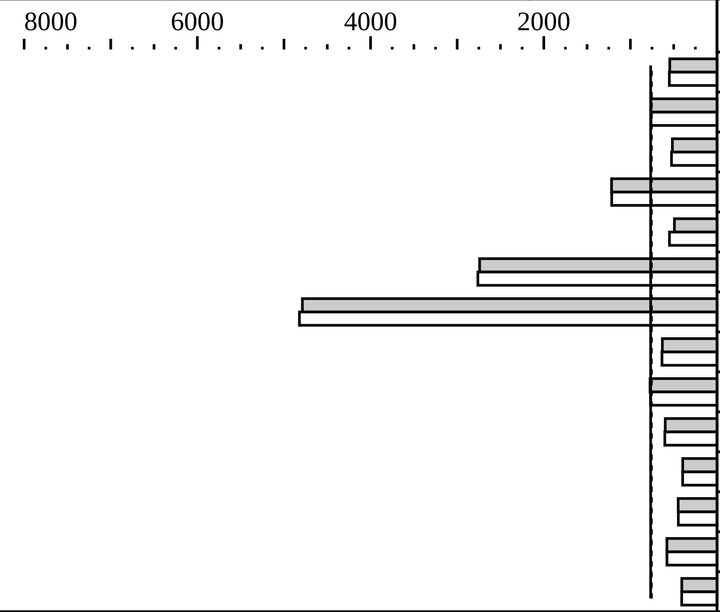
# CFP2000 Result



## 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.ammp | 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)<br>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 -IPF_flt_eval_method0 +FDO
  171.swim    : -fast -IPF_fp_relaxed -IPF_flt_eval_method0 -tpp1 +FDO
  172.mgrid   : -fast -IPF_fp_relaxed -IPF_flt_eval_method0 -tpp1 +FDO
  173.applu   : -fast -IPF_fp_relaxed -IPF_flt_eval_method0 +FDO
  177.mesa    : -fast -auto_ilp32 -IPF_fp_relaxed
                -IPF_flt_eval_method0 -ansi_alias -strict_ansi +FDO
  178.galgel  : -O3 -static -IPF_fp_relaxed -IPF_flt_eval_method0 +FDO
  179.art     : -fast -auto_ilp32 -IPF_fp_relaxed
                -IPF_flt_eval_method0 -ansi_alias +FDO
  183.equake  : -fast -auto_ilp32 -IPF_fp_relaxed
```

## Notes/Tuning Information (Continued)

```
                 -IPF_flt_eval_method0 +FDO
                 -Qoption,c,-ip_ninl_max_stats=100
                 -Qoption,c,-ip_ninl_max_total_stats=500
   187.facerec : -fast -IPF_fp_relaxed -IPF_flt_eval_method0 +FDO
   188.ammp    : -fast -auto_ilp32 -IPF_fp_relaxed +FDO
                 -IPF_flt_eval_method0 -ansi_alias
   189.lucas   : -fast -IPF_fp_relaxed -IPF_flt_eval_method0 +FDO
   191.fma3d   : -fast -IPF_fp_relaxed -IPF_flt_eval_method0 +FDO
   200.sixtrack: -fast -IPF_fp_relaxed -IPF_flt_eval_method0 +FDO
   301.apsi    : -fast -IPF_fp_relaxed -IPF_flt_eval_method0 +FDO

 Processes are bound to CPUs using taskset.

 Memory system is in "Non Mirror Mode".

 Portability Flags:
   178.galgel  :  -FI
```