



OMPM2001 Result

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Unisys
ES7000/1

SPECompMpeak2001 = --
SPECompMbase2001 = 4859

SPEC license #PG0013A | Tested by: Intel Corporation | Test site: -- | Test date: Oct-2007 | Hardware Avail: Nov-2006 | Software Avail: Nov-2007

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	1150	5217			
312.swim_m	6000	1607	3734			
314.mgrid_m	7300	2568	2843			
316.applu_m	4000	395	10117			
318.galgel_m	5100	1384	3684			
320.earthquake_m	2600	664	3913			
324.apsi_m	3400	796	4274			
326.gafort_m	8700	2054	4236			
328.fma3d_m	4600	1054	4362			
330.art_m	6400	905	7070			
332.ammp_m	7000	885	7908			

Hardware

CPU: Dual-Core Intel(R) Xeon(R) Processor 7140M
 CPU MHz: 3400
 FPU: Integrated
 CPU(s) enabled: 64 cores, 32 chips, 2 cores/chip
 CPU(s) orderable: 1-32 chips
 Primary Cache: 32KB(I)+32KB(D)/core on chip
 Secondary Cache: 4096KB/chip (I+D) on chip
 L3 Cache: 16MB/chip
 Other Cache: N/A
 Memory: 128 GB
 Disk Subsystem: SCSI
 Other Hardware:

Software

OpenMP Threads: 8
 Parallel: OpenMP
 Operating System: SUSE Linux Enterprise Server 10 (x86_64)
 Compiler: GCC 4.1.0
 File System: Linux ext3
 System State: Default

Notes/Tuning Information

Baseline optimization flags:

```
COPTIMIZE = -O3 --fopenmp -ansi -fwhole-program -combine
FOPTIMIZE = -O3 -fopenmp
```

```
export GOMP_STACKSIZE=32768
```

```
export OMP_DYNAMIC=FALSE
```

```
ONESTEP=yes
```

```
ulimit -s 1048576
```

Portability Flags:

```
318.galgel_m: -ffixed-form -ffixed-line-length-132
```

Extra Flags:

```
330.art_m: -DINTS_PER_CACHELINE=32 -DDBLS_PER_CACHELINE=16
```

New alternate sources

```
mgrid standard conformance to OpenMP 2.5; src.alt/intel
```

Flags file: Intel-ic10.1-intel64-linux-flags-file-20071211.html