



OMPM2001 Result

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Unisys
ES7000/1

SPECompMpeak2001 = --
SPECompMbase2001 = 7299

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	638	9402			
312.swim_m	6000	1114	5384			
314.mgrid_m	7300	1569	4652			
316.applu_m	4000	225	17752			
318.galgel_m	5100	1822	2798			
320.earthquake_m	2600	432	6017			
324.apsi_m	3400	612	5552			
326.gafort_m	8700	1111	7829			
328.fma3d_m	4600	662	6945			
330.art_m	6400	505	12674			
332.ammp_m	7000	602	11637			

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: 16
 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