OMPM2001 Result

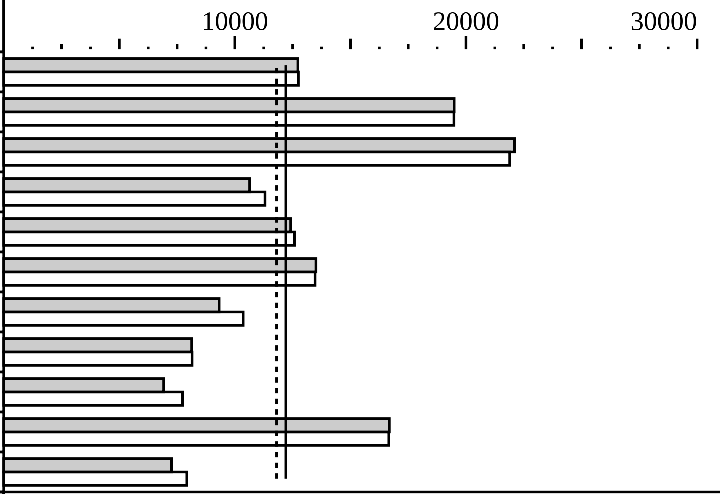
Unisys Corporation
ES7000/420

SPECompMpeak2001 = 12207

SPECompMbase2001 = 11806

SPEC license #: HPG0016	Tested by: Unisys Corporation	Test site: Salt Lake City	Test date: Nov-2003	Hardware Avail: Jul-2003	Software Avail: Oct-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	471	12728	471	12747
312.swim_m	6000	308	19488	308	19480
314.mgrid_m	7300	330	22100	333	21892
316.applu_m	4000	376	10640	354	11304
318.galgel_m	5100	411	12415	406	12577
320.equake_m	2600	192	13509	193	13470
324.apsi_m	3400	365	9319	328	10358
326.gafort_m	8700	1070	8132	1068	8148
328.fma3d_m	4600	665	6920	595	7733
330.art_m	6400	384	16682	384	16661
332.ammp_m	7000	964	7259	884	7922



Hardware

CPU:	Itanium 2 processor
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	8
CPU(s) orderable:	4,8,12,16
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	256KB(I+D) on chip
L3 Cache:	6MB(I+D) on chip
Other Cache:	None
Memory:	64GB (blocked)
Disk Subsystem:	2x36GB SCSI disk (mirrored) (15k rpm)
Other Hardware:	

Software

OpenMP Threads:	8
Parallel:	OpenMP
Operating System:	SuSE LINUX Enterprise Server 8 for Intel Itanium Processor Family SP3
Compiler:	Intel C/C++ Compiler 7.1 for Linux build 20030924 Intel Fortran Compiler 7.1 for Linux build 20030924
File System:	ReiserFS/xfs
System State:	Runlevel 3 (multiuser+network)

Notes/Tuning Information

```
Base tuning:
C programs:       -O3 -ipo -openmp -ansi_alias
Fortran programs: -O3 -ipo -openmp -stack_temps

Peak tuning:
default: -ipo -O3 -openmp -stack_temps
310.wupwise_m: default
312.swim_m: default
314.mgrid_m: default
316.applu_m: -ipo -openmp
318.galgel_m: default
320.equake_m: -ipo -O3 -openmp -ansi_alias
324.apsi_m: -O3 -openmp -stack_temps
326.gafort_m: default
326.fma3d_m: -O3 -openmp -stack_temps -static
330.art_m: -ipo -O3 -openmp -ansi_alias
332.ammp_m: -openmp -ansi_alias

Portability:
318.galgel_m: -FI -132
```

Notes/Tuning Information (Continued)

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User environment:
OMP_NUM_THREADS=8
ulimit -s 2000000
KMP_STACKSIZE=250000000
KMP_LIBRARY=TURNAROUND

Alternate sources for peak:
SPEC OMPL2001 (srcalt=ompl) 64-bit source modified for OMPM2001.
Used for 320.equake_m, 324.apsi_m, 328.fma3d_m.

Notes:
SP3 to kernel 2.4.21
System was configured with 4 Procesor Modules with 2 processors per Processor Module
ReiserFS is the root partition and xfs partition is for the benchmark.
```