

OpenMP library routines

Thread management

```
void omp_set_num_threads (int) ;
int omp_get_num_threads (void) ;
int omp_get_max_threads (void) ;
int omp_get_thread_num (void) ;
int omp_get_num_procs (void) ;
int omp_in_parallel (void) ;
void omp_set_dynamic (int) ;
int omp_get_dynamic (void) ;
void omp_set_nested (int) ;
int omp_get_nested (void) ;
```

Synchronization

```
void omp_init_lock (omp_lock_t *) ;
void omp_destroy_lock (omp_lock_t *) ;
void omp_set_lock (omp_lock_t *) ;
void omp_unset_lock (omp_lock_t *) ;
int omp_test_lock (omp_lock_t *) ;
void omp_init_nest_lock (omp_nest_lock_t *) ;
void omp_destroy_nest_lock (omp_nest_lock_t *) ;
void omp_set_nest_lock (omp_nest_lock_t *) ;
void omp_unset_nest_lock (omp_nest_lock_t *) ;
int omp_test_nest_lock (omp_nest_lock_t *) ;
```

Time measurement

```
double omp_get_wtime (void) ;
double omp_get_wtick (void) ;
```

Thread scheduling

```
void omp_set_schedule (omp_sched_t, int) ;
void omp_get_schedule (omp_sched_t *, int *) ;
int omp_get_thread_limit (void) ;
void omp_set_max_active_levels (int) ;
int omp_get_max_active_levels (void) ;
int omp_get_level (void) ;
int omp_get_ancestor_thread_num (int) ;
int omp_get_team_size (int) ;
int omp_get_active_level (void) ;
```