

c. Compile and run your parallel merge sort using a large list size (e.g., 40000000) and compare the runtime with the serial implementation. You may need to increase the thread stacksize. You can set the number of worker threads by setting the environment variable CILK_NWORKERS. Try to find the optimal number of workers for a given list size.

5. See <http://courses.cs.tau.ac.il/368-4064/cilk-5.3.1/examples/> for some non-trivial Cilk examples. Try some of them! You'll need to modify them to use current Cilk syntax.