

## Mini Project: MPEG Decoder Optimization Competition (MOC) 2008

**In-Class Report: 11/05**

**Final Report & Evaluation: 11/12**

### Your Challenge:

Optimize the *execution time* of an MPEG decoder program. (The program will be available from TA.) As long as your program works correctly, there is no restriction on optimization techniques used.

### Procedure for MOC 2008

**Step 1:** Before the final evaluation on 11/12, you will briefly report your progress status on 11/05 during the class. No formal presentation is required. Each student will report his/her best execution time by 11/05.

**Step 3:** At the final evaluation, each student will be graded based on the execution time of their MPEG decoder. The fastest student will get **MAX** points. The rest of students' scores will be computed as follows:

$$\text{Score}_{\text{you}} = (\text{Execution Time}_{\text{fastest}} / \text{Execution Time}_{\text{you}}) \times \text{MAX}$$

**MAX** will vary depending on the quality of the optimizations used by the fastest student. The quality of the optimizations will be judged by the speed up of the optimized program over the default MPEG decoder. The maximum value of **MAX** will be 340.

### What to Submit

On 11/12, submit a short report summarizing the effectiveness of optimization techniques used for this assignment.