

**Name: Kristine Khanh Tran**  
**PID: A10461112**  
**Section: B00 (11:00AM - 12:20PM)**

**Name: Hoai Ho**  
**PID: A12495491**  
**Section: A00 (12:30PM - 1:50PM)**

### **MD5 SUMMARY PAGE**

- **Area:**
  - **#ALUTs = Combinational ALUTs + Memory ALUTs** = 1,682 + 0 = 1,682
  - **#Registers** = 2392
  - **Area = #ALUTs + #Registers:** 1,682 + 2392 = 4,074
- **Delay:**
  - **Clock period** = 82.73 MHz
  - **#Clock cycles** = 453
  - **Delay = Clock period \* #Clock cycles** = 5.47 Microseconds
- **Area\*Delay:**
  - **Area \* Delay** = 4,074 \* 5.47 Microseconds = 22,284.78
- **Pipeline:** None
- **Unfolding:** None
- **Other optimizations:** None

### **SHA256 SUMMARY PAGE**

- **Area:**
  - **#ALUTs = Combinational ALUTs + Memory ALUTs** = 5,293 + 0 = 5,293
  - **#Registers** = 2920
  - **Area = #ALUTs + #Registers:** 5,293 + 2920 = 8,213
- **Delay:**
  - **Clock period** = 97.57 MHz
  - **#Clock cycles** = 457
  - **Delay = Clock period \* #Clock cycles** = 4.68 Microseconds
- **Area\*Delay:**
  - **Area \* Delay** = 8,213 \* 4.68 Microseconds = 38,436.84
- **Pipeline:** None
- **Unfolding:** None
- **Other optimizations:** None