Members: _____

_____

Prelab Mark:

Not done (0) / Incomplete (1) / Complete (2)   TA: _____

Answer all of the following questions before coming into the lab.

8-bit Analog-to-Digital Converter AD7574

1. Read through the lab. Then study the details of the Analog Devices AD7574. You will have received a copy of the device data sheet in class. It is also available online at the class web site, and directly from the Analog Devices web site.

2. What are the three interface modes of the AD7574? From the lab, determine the mode that you will be using, and briefly describe how it is different from the other two modes.

3. On a separate piece of paper, sketch a circuit diagram of the interface described in the lab. You must be ready to start building your circuit as soon as you come into the lab.

4. Write both programs from section 3-4 in the lab. For the delays in each program, make a reasonable estimate for the number of loops that will be required. Be prepared to show the program code to a TA.