

**EE/CpE 423-424
WEEKLY STATUS REPORT**

Group #	12	Week ending: (Saturday)	03/25/06	Report #	10
Project Title:	Data Acquisition and Storage System (DASS)				
Group Leader:	Joseph Kilroy	Advisor:	Bruce McNair		
Sponsor/Client:	Davidson Laboratories				
Total number of person-hours spent on project by group during past week:				40	
Is project on schedule?		Yes	<input checked="" type="checkbox"/> [x]	No	<input type="checkbox"/> []

Weekly status:
<p>The group met with Professor McNair on Wednesday. At the meeting the team discussed the use of interrupts to control the DASS's operation. It was decided that the best way to handle incoming data from the Campbell, would be to take interrupts from the serial port. Since the Campbell raises a pin as it sends data out and since the SBC has an interrupt for CTS, we can connect the Campbell pin and CTS to allow for this hardware communication. When a user connects to the SBC to upload a program onto the Campbell, the SBC will presumably be asleep, but the process will be handled by Apache. Using interrupts in this fashion will allow the system to minimize its use of power.</p> <p>In addition the group discussed how the Atmel Butterfly would be connected to the SBC to send it temperature and voltage data. The Butterfly can be connected via a serial port, since the Atmel has a 3 pin serial connection on it.</p> <p>At the team meeting in the afternoon, tasks for the upcoming week were assigned. Shaina will talk to professor McNair about a battery design and meet with Joe and Pauline regarding the User Interface (which occurred after the team meeting). Jeremiah is looking at the Atmel and talking to the staff at Davidson Labs about casing. Pauline is going to work on the upload download interface in CGI/Perl. Joe is working to complete communication to the Campbell via the serial port of the SBC.</p>

Weekly report is due to Senior Design Coordinator and TA by Noon Monday. Email submission is greatly preferred - submit using WebCT, email to sd@koala.ece.stevens-tech.edu or individual emails. Copy should be sent to advisor