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Make Long Recording on AP2

8MB memory on the AP2 array processor is not sufficient for applications requiring a large buffer to hold data. While sampling rate is not very high (up to 200kHz depending on harddisk access speed), we recommend using double-buffering with continuous saving to hard disk. While sampling rate is higher, 8MB will be a limit for the amount of data to be acquired. We have noticed this problem, but have no solutions yet. The DSP chip we are using on the AP2 is AT&T DSP32C, which cannot access more than 10MB of memory. Since DSP32C is out of our consideration, we are considering the possibility to find a better chip and redesign the AP2. Since there will not be an immediate move, due to our limited resources and technologies we know at this time, can you either reduce the sampling rate (to about 350kHz), and use PC RAM to save some data, or use two parallel A/D-AP2 systems (under same computer) to do continuous recording (each system saves a 8MB buffer, then pass to the other system, when the second system is recording, the first can write data to PC buffer, or hard disk while hard disk is faster enough). The later method may miss some data while control is transferred from one AP2 to the other.