

TABLE A.2.7.3 MAG DATA BUFFER CONTENT

OPTIMAL AVERAGER		SNAPSHOT	
Memory Location		Memory Location	
4800	B MSB of X @ T 0	4800	B LSB Sensor 3 data @ T 209
4801	B LSB of X @ T 0	4801	B MSB Sensor 3 data @ T 209
4802	B MSB of Y @ T 0	4802	B LSB Sensor 2 data @ T 209
4803	B LSB of Y @ T 0	4803	B MSB Sensor 2 data @ T 209
4804	B MSB of Z @ T 0	4804	B LSB Sensor 1 data @ T 209
4805	B LSB of Z @ T 0	4805	B MSB Sensor 1 data @ T 209
4CAA	B MSB of X @ T 199	4CE6	B LSB Sensor 3 data @ T 0
4CAB	B LSB of X @ T 199	4CE7	B MSB Sensor 3 data @ T 0
4CAC	B MSB of Y @ T 199	4CE8	B LSB Sensor 2 data @ T 0
4CAD	B LSB of Y @ T 199	4CE9	B MSB Sensor 2 data @ T 0
4CAF	B MSB of Z @ T 199	4CEA	B LSB Sensor 1 data @ T 0
4CBF	B LSB of Z @ T 199	4CEB	B MSB Sensor 1 data @ T 0
4CC4	Current storage pointer	4CF1	16 MSB of RIM (SCLK)
4CF0	16 MSB of RIM (SCLK)	4CF3	B LSB of RIM and MOD91
4CF2	B MSB of RIM and MOD91		
4CF4	S/C Sector Data		

In the "Optimal Average" mode timing between vectors is controlled by the AVERAGE # found in S147 of the Instrument status data. The timing is always a multiple of the MOD91 timing and is defined by

$$\Delta T_{AVG} = (\text{AVERAGE \#} + 1) * 60.6666$$

In the "Snap Shot" mode timing between vectors is 33.3 ns or 30 vectors per second.