TABLE 1. FEP to BEP Science Ring-Buffer Format

Field	Type	Range	Description
Write Index	unsigned	0:records in ring buffer - 1	This field is an index into the ring buffer data area just beyond the last written location. This index wraps to 0 when it reaches the end of the buffer. This field must only be modified by the FEP. If this value is equal to the Read Index, then the ring-buffer is empty. If this value is one less than the Read Index (or at its greatest value if the Read Index is 0), then the ring buffer is full, and no more data can be written.
Read Index	unsigned	0:records in ring buffer - 1	This field is an index into the ring buffer data area just beyond the last read location. This index wraps to 0 when it reaches the end of the buffer. This field must only be modified by the BEP.
Data Buffer	record[TBD] : where each record is unsigned[32]	-	This is an array of records, where each record is 32 words in length (32-bit words). This buffer must only be modified by the FEP.