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MEMORANDUM

08 May 1988

TO: John Lohmeyer, Chairman X3T9.2
FROM: Bill Spence, Texas Instruments
SUBJECT: READ LOG/ACCESS LOG/LOG SELECT/SENSE Read Write Pages

The pages proposed below ~~is~~ an amalgam of Gary Stephens needs and TI's needs with Greg Floryance's original inputs. It is a revision of a proposal I put on the Bulletin Board some time ago. It has not been reworked into Jim McGrath's latest formulation, but that presumably is just a crank-turning matter.

7.x.x.x. Write Counters Page

This page (Table 7.__) provides for 6 optional performance counters. The list below (Table 7.__) identifies the counters by function.

In this page, because it supports the calculation of performance ratios, when any counter reaches its maximum value, the incrementing of all counters shall cease until reset. Optionally, an Asynchronous Event Notification may be sent to the Initiator.

Table 7.__: Write Counters Page

Bit	7	6	5	4	3	2	1	0
Byte								
0	Reserved		Page Code (XXh)					
1	Reserved							
2	(MSB)							
3	Page Parameter Length							
4	Storage Type		Reserved		Counter Code			
5	Counter Length (n)							
	(MSB)							
5+n	Counter 00h							
	(LSB)							
The format of bytes 4 - 5+n is repeated for each counter supported.								

Table 7.__: Write Counters Definition

Counter No.	Definition
0	Write Errors Corrected on-the-Fly
1	Write Errors Corrected by Other Means
2	Write Forward Total Re-writes
3	Write Total Errors Corrected
4	Write Total Times Correction Algorithm Processed
5	Write Total Bytes Processed

7.x.x.x. Read Forward Counters Page

[This page is parallel to the one above. The counter list is as follows:

Counter No.	Definition
0	Read Forward Errors Corrected on-the-Fly (ECC, other)
1	Read Forward Errors Corrected by Other Means (Re-reads)
2	Read Forward Total Re-reads
3	Read Forward Total Errors Corrected
4	Write Total Times Correction Algorithm Processed
5	Read Forward Total Bytes Processed

7.x.x.x. Read Reverse Counters Page

[This page is parallel to the one above. The counter list is as follows:

Counter No.	Definition
0	Read Reverse Errors Corrected on-the-Fly (ECC, other)
1	Read Reverse Errors Corrected by Other Means (Re-reads)
2	Read Reverse Total Re-reads
3	Read Reverse Total Errors Corrected
4	Write Total Times Correction Algorithm Processed
5	Read Reverse Total Bytes Processed

7.x.x.x. Non-Media-Related Events Counters Page

[This page is parallel to the one above. The counter list is as follows:

Counter No.	Definition
0	Non-Media-Related Events Total Occurrences
1	Non-Media-Related Events Total Recoveries