To: INCITS T10 Committee  
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Date: March 9, 2005  
Document: T10/T10/05-002r4  
Subject: SSC-3: Sequential-Access Device log page  
Related Documents:  
03-010  

There is a desire by IBM to have a method by which a device server can provide an indication to an application client of how much tape has been used and how much is available for use. We propose additional parameters be added to the Sequential-Access Device log page in SSC-3.

3.1.x native capacity - The capacity assuming one-to-one compression (e.g. compression disabled), the medium is in good condition, and that the device recommended typical block size is used.

8.2.2 Sequential-Access Device log page

The Sequential-Access Device log page defines data counters associated with data bytes transferred to and from the medium and to and from the application client, binary list parameters describing native capacities, and a binary list parameter of binary information on related to cleaning.

The default value for parameters 0 through 3 shall be zero.

NOTE 37 The data in parameters 0 and 1 are intended to provide an indication of the compression ratio for the written data. Parameters 2 and 3 are intended to provide an indication of the compression ratio for read data.

Support of the Sequential-Access Device log page is mandatory. Support of the individual parameters in the Sequential-Access Device log page are optional. Parameters 0004h, 0005h, 0006h, and 0007h are only valid when a medium is mounted.

Table 50 defines the parameter codes for the Sequential-Access Device log page.
Note: If the current partition has a native capacity of 200 GB (i.e. $200 \times 10^9$) with EW at 1GB prior to EOP and the medium is positioned at EOD which is at the point that is 75% of the native capacity between BOP and EW, then the device server would use the following to determine parameters 0004h, 0005h, and 0006h.

Since 75% of native capacity is remaining, $(200 \times 10^9 - 1 \times 10^9) \times 75\% = 149.25 \times 10^9$
This equation gives parameter 0004h = 149 250 (02 4702h), parameter 0005h = 199 000 (03 0958h), and parameter 0006h = 1 000 (00 03E8h).