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An Event-B Specification of Data @ Date: 16 May 2008 @ Time: 04:43:23 PM
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CONTEXT Data

SETS

TC_DATA
TM_DATA
OP_TYPE

CONSTANTS

Buffer_size
Valid
New_TM
READ
WRITE

AXIOMS

axm1 : $Buffer_size \in \mathbb{N}_1$
axm3 : $Valid \in TC_DATA \rightarrow BOOL$
axm4 : $New_TM \in \mathbb{N}_1 \times \mathbb{N}_1 \times TC_DATA \rightarrow TM_DATA$
axm5 : $\forall x \cdot x \in \mathbb{N} \Rightarrow x \bmod Buffer_size \in 0 .. Buffer_size - 1$
axm6 : $OP_TYPE = \{READ, WRITE\}$
axm7 : $READ \neq WRITE$
axm2 : $\neg(0 .. (Buffer_size - 1) \rightarrow TC_DATA = \emptyset)$

END