

## Formal Vote on DRI 1.0

Company: Mercury Computer Systems, Inc.

Company Representative: Jon Greene

Date: September 18, 2002

With regard to DRI 1.0 as embodied in the document posted at:

<http://www.data-re.org/documents/dri-report-09162002.pdf>

Mercury Computer Systems, Inc. votes **yes (approve) with comments**.

The comments (in document order) are as follows:

**Title page:**

We suggest that the Document Status” note be removed.

**Page 9, line 33:**

We suggest that the sentence beginning with “error\_code” be replaced with a reference to the DRI Return Code Index.

**Page 16, lines 26 – 28:**

From a mathematical standpoint, any *mod* value should allow the implementation to create a partitioning in which one or more parts contain 0 elements since  $0 \bmod n = 0$  where  $n$  is any integer.

We suggest that this be explicitly mentioned to avoid possible confusion.

**Page 17, line 21:**

Typo: “as” should be inserted between “accepts” and “the”.

**Page 17, line 21:**

Typo: should be a period at the end of the line.

**Pages 21 and 22:**

We think that the Sample Packed Layout Specification Tables would be more readable if the GDO were specified in row-major order such that dimension 0 is the number of columns (X), dimension 1 is the number of rows (Y) and dimension 2 is the number of planes Z.

**Page 24, lines 22 - 23:**

We believe this sentence is a little misleading in that it seems to imply that if the *rel\_align* specification is a multiple of the data element size then no extra space will *ever* be inserted into the memory buffer. This is not true. We suggest that the wording be changed to make it clear that the suggested relationship (multiple) minimizes the amount of extra space that may need to be inserted to meet the *rel\_align* specification.

**Page 43, line 29:**

We suggest that the sentence be changed to say "... collective, and depends on the completion of DRI\_Reorg\_create by the processes on the other side ..."

**Page 56, line 21:**

Typo: replace "return" with "returns".

**Page 63, lines 41 – 44:**

**Page 73, lines 21 - 23:**

We suggest that the description of firstdata\_offset be changed to make it clear that pad values as well as actual overlap values are included in the definition of firstdata.

**Page 75, line 23:**

We suggest that "owned" replace "assigned" to be more consistent with an earlier description.

**Page 75, line 27:**

Typo: replace "dimensions" with "dimension".

**Page 77, line 23:**

We again suggest that "owned" replace "assigned" to be more consistent with an earlier description.

**Page 77, line 28:**

**Page 79, line 28:**

**Page 81, line 42:**

**Page 83, line 42:**

Typo: replace "dimensions" with "dimension".

**Pages 115 - 122:**

We suggest that either Annex C (STAP example) be removed altogether from the document or rewritten to use the correct DRI API.