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Buffer Issue Resolution Document  (BIRD)
BIRD ID#:        {TBD}
ISSUE TITLE:     Format Corner and Range Clarification for IBIS AMI
REQUESTOR:       Arpad Muranyi, Mentor Graphics
DATE SUBMITTED:
DATE REVISED:   May 16, 2011
DATE ACCEPTED BY IBIS OPEN FORUM:

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STATEMENT OF THE ISSUE:

The IBIS 5.0 specification is very vague on pg. 141 with the description
of Corner.  The rules on how Corner works is unclear and needs better
explanation.

In addition, the definition on pg. 140 shows three values for Corner:
Corner <typ value> <slow value> <fast value>, while on pg. 147 the
definition of Rx_Receiver_Sensitivity only shows two values:
(Format Corner <slow> <fast>).  This inconsistency cannot be resolved
by an EDA tool without additional information which is not available.

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STATEMENT OF THE RESOLVED SPECIFICATIONS:


- is Corner is controlled by the simulator's internal IBIS [Model] corner
  selector setting?
- What does "align implicitly to slow and fast corners" really mean?
  In IBIS we have typ/min/max, here we have typ/slow/fast.  How do these
  "align" or map to each other?
- is Range also controlled by the simulator's internal IBIS [Model] corner
  selector setting?  The alignment would work better in this case
  (typ/min/max).

- an AMI parameter of Format Corner must always have three entries listed
  (unlike the definition on pg. 147)


- Anything else?


On pg. 141 replace these lines:


| Note that in the context of Algorithmic Model for type 'Corner', <slow
| value> and <fast value> align implicitly to slow and fast corners, and
| <slow value> does not have to be less than <fast value>. For type 'Range'
| and 'Increment', <min value>, <max value> does not imply slow and fast
| corners.


with these lines:


| Note that...

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ANALYSIS PATH/DATA THAT LED TO SPECIFICATION:

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ANY OTHER BACKGROUND INFORMATION:

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