IBIS 7.2 Known Issues

The following is a list of known issues found in the IBIS Specification Version 7.2 document. These are editorial issues deemed to have no functional impact on the specification. Functional issues are resolved through the IBIS BIRDs page at <https://ibis.org/birds/>.

All page numbers refer to the Adobe PDF version <https://ibis.org/ver7.2/ver7_2.pdf>.

1. (from Michael Mirmak, Intel)

On page 226 of 7.2, the term “AMI\_handle” is used. From the context, it should be “AMI\_memory\_handle”. “AMI\_handle” is used nowhere else in the document.

**AMI\_memory\_handle**

Used to point to local storage for the algorithmic block being modeled and shall be passed back during the AMI\_GetWave calls. An illustrative code snippet is shown below:

my\_space = allocate\_space( sizeof\_space );

status = store\_all\_kinds\_of\_things( my\_space );

\*serdes\_memory\_handle = my\_space;

The memory pointed to by AMI\_handle is allocated and de-allocated by the model.

1. (from Arpad Muranyi, Siemens EDA)

Some draft 7 text changes to the examples in PAM\_Thresholds and PAM\_Offsets did not make it into the final 7.2 document (which ended up containing draft 6 text). The text on pages 287 and 288 should read:

*Example:*

(PAM\_Thresholds (Usage Out) (Type String)

(Description "Output values from executable model for numerical thresholds.")

(Value "placeholder")

)

*Example:*

(PAM\_Offsets (Usage Out) (Type String)

(Description "Output values from executable model for clock timing offsets.")

(Value "placeholder")

)

1. (from Randy Wolff, Micron Technology)

In the [Designator Pin List] usage rules on page 378, there is a typo (highlighted) to fix in these sentences:

“NC” is a legal signal\_type and indicates that the pin is a “no-connect”.As described in Section 3.2,“SYNTAX RULES”, the reserved words “GND”, “POWER”, and “NC” are case-insensitive.

1. (from Randy Wolff, Siemens EDA)

On page 281 of 7.2, the word “parameters” is misspelled as “parametes”.

1. (from Michael Mirmak, Intel)

On page 244, the word “below” in the following sentence is incorrectly used and should be replaced with “above” as the ordering of the sections apparently changed in more recent versions of the specification.

"The parameter string passed in and out of the executable model file (described in the sections AMI\_parameters\_in, AMI\_parameters\_out and AMI\_memory\_handle below) is formatted the same way as the tree data structure in the AMI parameter definition file with the following exceptions."

1. (from Arpad Muranyi, Siemens EDA)

On page 220 of 7.2, the text “ignore\_me” is used in two places. This should be replaced with “placeholder” to be consistent with other uses of “placeholder” in the AMI sections.

1. (from Michael Mirmak, Intel)

IBIS 7.2, Section 3.1, File naming Definitions contains the following strange sentence:

The following terms and definitions related to file naming and file referencing for all file formats are defined.:

The sentence has poor punctuation and is nonsensical. A better replacement would be:

The following terms and definitions relate to file naming and referencing for all file formats described in this specification.

1. (from Curtis Clark, ANSYS)

In the first paragraph on page 281, replace the following text:

“AMI\_Version 6.1 introduces support four-level Pulse Amplitude Modulation (PAM4) SerDes signaling.”

With:

“AMI\_Version 6.1 introduced support for four-level Pulse Amplitude Modulation (PAM4) SerDes signaling.”

And:

 “Since the PAMn parametes are a superset of the PAM4 parameters (which also include the PAM4 signaling levels), it is highly recommended to use the PAMn parameters for PAM4 signaling instead of the older PAM4 equivalents.”

With:

“Since PAMn is a superset of PAM4, the new PAMn parameters are intended to replace the older PAM4 parameters. Therefore, it is highly recommended to use the PAMn parameters for PAM4 signaling instead of the older PAM4 equivalents.

Note that no parameter analogous to PAM4\_Mapping has been defined for PAMn. The intent is to leave mapping entirely to the EDA tool.”

Revision History

1.6: June 26, 2024

- Changed by Randy Wolff

- Added list item 8

1.5: March 13, 2024

- Changed by Randy Wolff

- Added list item 7

1.4: March 1, 2024

- Changed by Randy Wolff

- Added list item 6

1.3: February 14, 2024

- Changed by Randy Wolff

- Added list item 5

1.2: October 17, 2023

- Changed by Randy Wolff

- Added list items 4

1.1: February 27, 2023

- Changed by Randy Wolff

- Added list items 2 and 3

1.0: February 6, 2023

- Created by Randy Wolff