Chair’s Status Report

Michael Mirmak
Intel Corp.
Chair, IBIS Open Forum

IBIS Summit
at DAC 2014
San Francisco, CA
June 5, 2014

Portions presented at the 2014 European IBIS Summit

http://www.eda.org/ibis/
Agenda

- IBIS Development Data
  - BIRD and Version Life Cycles

- Planning for the Future
  - Annual Development Schedule Proposal
  - Proposal for Discussion
How Long Do Versions “Live”? 

<table>
<thead>
<tr>
<th>IBIS Version</th>
<th>Days Between Approval and Successor</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>450</td>
</tr>
<tr>
<td>2.1</td>
<td>500</td>
</tr>
<tr>
<td>3</td>
<td>300</td>
</tr>
<tr>
<td>3.1</td>
<td>400</td>
</tr>
<tr>
<td>3.2</td>
<td>600</td>
</tr>
<tr>
<td>4</td>
<td>500</td>
</tr>
<tr>
<td>4.1</td>
<td>700</td>
</tr>
<tr>
<td>4.2</td>
<td>400</td>
</tr>
<tr>
<td>5</td>
<td>1456</td>
</tr>
<tr>
<td>5.1</td>
<td>300</td>
</tr>
<tr>
<td>6</td>
<td>200</td>
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</table>

Average: 664, Min: 258, Max: 1456, STD: 342

1 year line
How Long are BIRDS Considered?

- Average: 177 days
- “Statutory” minimum is now 14 days
Pending BIRDS

- 12 BIRDS are open, on packages & advanced AMI

- Longer than any other BIRD
- Longer than any IBIS version other than 5.0!
PLANNING THE FUTURE
Release Schedule for IBIS

- Moving to a regular, software-like release plan
  - Allows better planning by “customers” (IBIS community)
  - Keeps number of changes manageable
  - Reduces & stabilizes parser development cycle time and cost

- Two “cycles”, each with two parts
  - Cycle 1
    - Nov. – Feb.: technical development
    - March 1 – close technical changes
    - May 1 – close final document (editorial fixes in-between)
  - Cycle 2
    - May – Aug.: technical development
    - Sept. 1 – close technical changes
    - Nov. 1 – close final document (editorial fixes in-between)
How Does This Work?

Parser development can start as early as this point

Cycle 1

JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC

BIRD Development

Editorial Work

BIRD Development

Cycle 2

Document votes & releases here

From Feb. 2012
Release Schedule for IBIS

- Need to move to 9+ month cycle
  - Feedback from 2014 DesignCon IBIS Summit

- New proposal: **annual** cycle with three parts
  - Technical Period
    - *February - July*
    - *August 1 - close technical changes*
  - Editorial Period
    - *August - September*
    - *Nov. 1 - close & vote on final document*
  - Quiet Period (Events, Holidays)
    - *November - January*
**How Does This Work?**

*Parser development can start as early as this point*

<table>
<thead>
<tr>
<th>Technical Development</th>
<th>Editing</th>
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</thead>
<tbody>
<tr>
<td>JAN</td>
<td>FEB</td>
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</table>

*Document vote & release here*
Why This Schedule?

- Calendar can limit potential interactions
  - End-of-year holidays/shutdowns
  - Fall Asian IBIS Summits and preparation
  - New Year celebrations in Asia
  - DesignCon Summit and preparation
  - July/August vacation schedule in Europe

- Member companies are likely affected by the same calendar items
  - Peak work periods are Sept. - Oct. and March - May
IBIS Numbering Proposal

- Specification moves to date codes
  - Year and month of approval (e.g., 2014.11)
  - Multiple releases in the same month unlikely
  - Major/minor release distinction goes away
  - [IBIS Ver] and AMI_Version affected

- Parser versions track specifications
  - Parser uses specification release number, for features
  - Parser updates use additional numbers
    - e.g., 2014.11 r01 or similar
  - Name changes to simply “ibischk”
Implications

- If implemented immediately...
  - Next version is not 6.x or 7, but 2014.11
  - BIRDs for 2014.11 must be approved on/before Aug. 1, 2014

- Membership dues in 2015
  - Parser development fees become part of membership dues

Is this schedule realistic for the IBIS community? Can tools and design cycles absorb annual updates?
Q/A
<table>
<thead>
<tr>
<th>ID#</th>
<th>Issue Title</th>
<th>Requester</th>
<th>Submitted</th>
<th>Days Open</th>
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<tr>
<td>125.1</td>
<td>Make IBIS-ISS Available for IBIS Package Modeling</td>
<td>Arpad Muranyi, Mentor Graphics</td>
<td>21-Oct-10</td>
<td>1323</td>
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<td>128</td>
<td>Allow AML_parameters_out to pass AML_parameters_in data on calls to AML_GetWave</td>
<td>Walter Katz, SiSoft</td>
<td>11-Mar-11</td>
<td>1182</td>
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<td>157</td>
<td>Parameterize [Driver Schedule]</td>
<td>Arpad Muranyi, Mentor Graphics; Romi Mayder, Xilinx</td>
<td>24-Jan-13</td>
<td>497</td>
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<td>158.3</td>
<td>AMI Touchstonefile (R) Analog Buffer Models</td>
<td>Walter Katz, Signal Integrity Software, Inc.</td>
<td>20-Feb-13</td>
<td>470</td>
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<td>161.1</td>
<td>Supporting Incomplete and Buffer-only [Component] Descriptions</td>
<td>Michael Mirmak, Intel Corp.</td>
<td>8-May-13</td>
<td>393</td>
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<td>166</td>
<td>Resolving problems with Redriver Init Flow</td>
<td>Walter Katz, Signal Integrity Software, Inc. Darshan Shah, F5Networks, Inc.</td>
<td>2-Apr-14</td>
<td>64</td>
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<td>168</td>
<td>Handling of Overclocking Caused by Delay in Waveform Tables</td>
<td>Radek Biernacki and Ming Yan, Agilent Technologies, Inc.; Justin Butterfield and Randy Wolff, Micron Technology, Inc.</td>
<td>22-Apr-14</td>
<td>44</td>
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2014 IBIS Summit at DAC