Progress and Issues in IBIS-X

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Current Status

- Decision made to simplify path into IBIS
  - Changes to IBIS template have been set aside for now
  - Shortly after IBIS Ver. 4.0 is approved, expect to see a BIRD adding the [Define "class name"] keyword & concept
  - Committee focusing exclusively now on macro language reference manual (IBIS-ML)
- List of primitive elements agreed upon, including transmission line element
- Enough of the ML spec has been written to start review of text
- Based on current progress, expect spec end of Jan '02

IBIS Summit – Jun '01

Where are we now

- Technical Milestone tracking list
  - syntax rules   -- some work, documentation in flux
  - primitive elements   -- agreed on set, but need the operations
  - netlist syntax   -- done
  - built in behavioral elements -- not yet discussed/documented
  - programming constructs   -- discussed and documented
  - declarations   -- documented, but need more
  - data types   -- documented, pretty solid
  - matrix format   -- discussed, not completely documented
  - ISSUES:
    - *column selection (how to be done), needs to be put into LRM*
    - *table interpolation types needs to be documented.*

The [Define "class name"] keyword

- Syntax:

```
[Define "class_name"] "type name" (<optional port list>)
|
|  IBIS-ML Constructs
|
[End "class name"] "type name'
```

- [Define] keyword can be used in IBIS file itself – or – [Defines] are collected into a *library file*

- Once an object is defined, it is customized as shown:

```
[Begin "class name"] "object name"
"class name"_type   "type name"
|
|  optional data specific to this instance
|
[End "class name"]
```

- Object customization takes place in the IBIS file

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