Minutes of the:	*Ecma TC39-TG1*
held in:	*Phone Conference*
on:	*7th April 2006*

Attendees

- Jeff Dyer, Adobe Systems
- Brendan Eich, Mozilla Foundation
- Cormac Flanagan, UC Santa Cruz
- Lars Hansen, Opera Software
- Dave Herman, Northeastern University
- Graydon Hoare, Mozilla Foundation

Agenda

- Semantic model progress
- Recent change discussion
- Schedule and process stuff

Notes

Maude vs. Stratego

- Dave found Maude harder to extend syntactically
- Graydon: Maude uses operator precedence for parsing the model
- Dave heard Maude's type system is hard to work with
- Might be able to port models

Recent changes

- Lars: destructuring assignment and block expression cleanups
- Lars: function type syntax proposal
  - Dave: don't forget optional `this` type annotation (`this:T`)
- Graydon: drop traits commentary
  - Brendan: let's not abuse "traits"
- Lars: type system notes, including nullability via sum
  - Dave: not quite sum if syntax not restricted
  - Do we allow `?T!`, or only `?T` and `T!` where `T` may be `U!` or `?U`
  - Need to flatten given lack of distributivity in the proposal
- Lars: type parameterization like C++ templates
  - Graydon: but without code bloat, generally speaking
  - Lars: except for int vs. uint
  - Brendan: int/uint <: Number? No, <: Object in current spec – seems like a bug
- Graydon: re: int/uint <: Number,
  - decimal128 does not have enough digits to represent every IEEE double
  - decimal128 is 34 decimal digits + scaling digits

- o We could use decimal256 or similar
- o Graydon: mode flags not being standardized one way, so users must choose
  - does mode have static (source) or dynamic (caller) "scope"?
  - rounding for different locales and tax vs. non-tax finance contentions
- o Brendan/Jeff: supporting decimal only via m suffix is controversial as mfc said
- o We still believe we need a pragma to allow implicit use of decimals, not doubles
  - This leads to questions about pragmas...
- Lars: `use namespace N` and other pragmas come first, but that means `namespace N` comes after at top-level
  - o Brendan: forward reference should work, if `namespace N` hoists a la `function F`
  - o resolved: open a block if you want to use after defining
- Lars has AST interfaces, see http://people.opera.com/lth/tc39-tg1/index.html
- Pragma proposal should be usable (no pun): `use strict, decimal` or shorter, or people will hate us
- Jeff: working on namespaces, note that packages map to namespaces pretty directly, will write up

Schedule

- June publication
- How to expose? Readonly access to wiki
  - o Jeff: talk pages? Graydon: do-able
- Update spec as we go?
  - o Need notation
  - o Need to target final format
    - Can we translate from wiki to PDF? Lars: go via XML and format to PDF with PrinceXML, it gives us both PDF and something web-readable. Notes about early experiments with this route may be found under extraction and formatting

Type parameters

- Brendan: favor `<>` over `()` because `<>` implies `:` `const type` on each type param
- Lars: stronger argument, `Array(V)` means what? want backward compat, so need `<>` for type param