

**Minutes of the:
held in:
on:**

**Ecma TC39-TG1
Phone conference
10th April 2007**

Attendees

- Jeff Dyer, Adobe Systems
- Lars T Hansen, unaffiliated
- Cormac Flanagan, UC Santa Cruz
- Dick Sweet, Adobe Systems
- Chris Pine, Opera Software
- Francis Cheng, Adobe Systems
- Dave Herman, Northeastern University

Agenda items

- ~ postfix operator (see [minutes mar 27 2007](#)):
 - if T is a type expression then T~ means the type (T, undefined) in any context
 - if I : T~ or I~ appears in a parameter list then =undefined is implied for the parameter
- The interaction of `intrinsic::hashcodes` with operator overloading
 - overloading operator `===` means the hashcode system must consult the `===` method before returning a hashcode for an object, ie, `intrinsic::hashcode` can be arbitrarily expensive and even non-terminating. Implications of this? Following is an example where `intrinsic::hashcode` called for the first time on an instance of C will have to invoke `===` on that instance and every other instance whose hash code has been taken, and if equality is found return the hash code of the former. It's possible the easy fix is to specify `intrinsic::hashcode` in terms of `intrinsic::===`, but is that the intent?

```
class C {
  public static function ===(lhs, rhs) {
    if (lhs is C and rhs is C)
      return lhs.key === rhs.key;
    else
      return intrinsic::===(lhs, rhs);
  }

  var key = Math.floor(Math.random()*10);
}
```

Discussion

- ~ postfix operator (see [minutes mar 27 2007](#)):

Jeff likes this proposal, but is uncomfortable with the default value aspect (second bullet point). If we do this for tilde (T~), he'd want to do it for T? as well.

No resolution on this yet. Need someone (Brendan?) to fight for it.

- The interaction of `intrinsic::hashcodes` with operator overloading

Need Graydon and Brendan to weigh in on this issue.

- We talked briefly about the translation of the `refimpl` to a final spec draft.

Jeff thinks an acceptable final form can be achieved with refactoring, erasure and pretty printing Dave points out that the process should ideally be fully automated so we can do interim updates easily

- No phone call next week because of the f2f starting Wednesday

Attendees should add their name to the list on the meeting page [minutes apr 18 2007](#)