proposed move to System F

At the Manticore meeting on 11/7/07, we discussed moving BOM in the direction of System F.

The following summarize the proposed changes to the `<code>BOM</code>` module:

New syntactic forms:

- `let x : tau = y [tauVec]`
- `apply f [tauVec] (... / ...)`
- `let x : tau = CONS [tauVec] (...)`
- `let x : tau = CONST [tauVec]`
- `throw k [tau] (...)`

New types:

- `alpha (* type variables *)`
- `forall alphaVec . tau`
- `T [tauVec]`
- `tau + tau`

Here are the changes to the datatypes in the `<code>BOM</code>` module:

datatype term
  = ...

  | E_Apply of (var * ty list * var list * var list) |
  | E_Throw of (var * ty list * var list) |
  | E_HLOp of (hlop * ty list * var list * var list) |

  and rhs
  = ...

  | E_TyApply of (var * ty list) |
  | E_DCon of (data_con * ty list * ty list) |

  and lambda
  = FB of

  | Unknown macro: { f } |

  and pat
  = P_DCon of (data_con * ty list * var list) |

  | P_DConst of (data_con * ty list) |
  ...

and the changes to the BOMTy module:

datatype ty
  = T_Var of ty_var

  | T_Forall of (ty_var list * ty) |
  | T_TyCon of (tyc * ty list) |
  ...

We'll also need to add the `<code>ty_var</code>` type and make changes to the representation of `<code>tyc</code>`s.