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.