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.