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

**New types:**

- `α (* type variables *)`
- `forall αVec . τ`
- `T [τ]`
- `τ + τ`

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

datatype term

```plaintext
= ...

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

```plaintext
= ...

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

and lambda

```plaintext
= FB of
```

and pat

```plaintext
= 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

```plaintext
= 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.