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## **Plutus Examples**

## **Vesting Example**

```
party Owner;
party Beneficiary;
policy TimeLock =
0x6b9c456aa650cb808a9ab54326e039d5235ed69f069c9664a8fe5b69;
type State {
  lock_until: Int,
 owner: Bytes,
  beneficiary: Bytes,
}
tx lock(
    quantity: Int,
   until: Int
) {
    input source {
        from: Owner,
       min_amount: Ada(quantity) + fees,
    }
```

```
output target {
        to: TimeLock,
        amount: Ada(quantity),
        datum: State {
            lock_until: until,
            owner: Owner,
            beneficiary: Beneficiary,
        },
    }
    output {
        to: Owner,
        amount: source - Ada(quantity) - fees,
    }
}
tx unlock(
    locked_utxo: UtxoRef
) {
    input gas {
        from: Beneficiary,
        min_amount: fees,
    }
    input locked {
        from: TimeLock,
        ref: locked_utxo,
        redeemer: (),
    }
    output target {
        to: Beneficiary,
        amount: gas + locked - fees,
    }
```

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## **Order-book Example**

```
party Sender;
party Receiver;
policy OrderBook = 0x39c520d0627aafa728f7e4dd10142b77c257813c36f57e2cb88f72a
asset ControlToken = 0x13a0e59ca61ab277e909ffd20def27d296051fbc634cf623c0232
asset Ask = 0x13a0e59ca61ab277e909ffd20def27d296051fbc634cf623c02322a5.ASK;
asset Bid = 0x13a0e59ca61ab277e909ffd20def27d296051fbc634cf623c02322a5.BID;
type AssetClass {
 policy: Bytes,
 name: Bytes,
type DatumValue {
  asset_class: AssetClass,
 amount: Int,
}
type OrderInfo {
  sender_address: Bytes,
  token: DatumValue,
type OrderDatum {
  info: OrderInfo,
  control_asset_class: AssetClass,
```

```
tx new_order() {
    input source {
        from: Sender,
       min_amount: fees + Bid(1) + Ada(2000000),
    }
    mint {
        amount: ControlToken(1),
        redeemer: (),
    }
    output change {
        to: Sender,
        amount: source - Ada(2000000) - fees - Bid(1),
    }
    output order {
        to: OrderBook,
        amount: Ada(2000000) + Bid(1),
        datum: OrderDatum {
            info: OrderInfo {
                sender address:
0x00eb5a3cf99aa1d77357864ed2d2fcbdb07a292363f0944122c510a30d58305b9bc8f9bea6
                token: DatumValue {
                    asset_class: AssetClass {
                        policy: 0x13a0e59ca61ab277e909ffd20def27d296051fbc63
                        name: "ASK",
                    },
                    amount: 1,
                },
```

```
// Problem: serialize the CONTROL token
control_asset_class: AssetClass {
    policy: 0x13a0e59ca61ab277e909ffd20def27d296051fbc634cf623c0
    name: "CONTROL",
    },
},
}
```