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#pragma once

#include <eosio/asset.hpp>
#include <eosio/eosio.hpp>

#include <string>

namespace eosiosystem {
    class system_contract;
}

namespace eosio {

    using std::string;

    class [[eosio::contract("eosiopowcoin")]] token : public contract {
    public:
        using contract::contract;

        [[eosio::action]]
        void create( const name& issuer,
                    const asset& maximum_supply);
        [[eosio::action]]
        void issue( const name& to, const asset& quantity, const string& memo );

        [[eosio::action]]
        void retire( const asset& quantity, const string& memo );

        [[eosio::action]]
        void transfer( const name& from,
                    const name& to,
                    const asset& quantity,
                    const string& memo );
        [[eosio::action]]
        void open( const name& owner, const symbol& symbol, const name& ram_payer );

        [[eosio::action]]
        void close( const name& owner, const symbol& symbol );

        [[eosio::action]]
        void setupminer(const name& user, const symbol& symbol);

        [[eosio::on_notify("eosio.token::transfer")]]

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void claim(name from, name to, eosio::asset quantity, std::string memo);

static asset get_supply( const name& token_contract_account, const symbol_code&
sym_code )
{
    stats statstable( token_contract_account, sym_code.raw() );
    const auto& st = statstable.get( sym_code.raw() );
    return st.supply;
}

static int get_last_mine( const name& token_contract_account, const symbol_code&
sym_code )
{
    stats statstable( token_contract_account, sym_code.raw() );
    const auto& st = statstable.get( sym_code.raw() );
    return st.minetime;
}

static asset get_balance( const name& token_contract_account, const name& owner,
const symbol_code& sym_code )
{
    accounts accountstable( token_contract_account, owner.value );
    const auto& ac = accountstable.get( sym_code.raw() );
    return ac.balance;
}

asset get_reward( asset currentsupply){

asset reward;
if (currentsupply.amount/10000/10000 <= 10500000){ //halvening 0
    reward = asset(5000000000, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 15750000) { //halvening 1
    reward = asset(2500000000, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 18375000) { //halvening 2

    reward = asset(1250000000, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 19687500) { //halvening 3

    reward = asset(625000000, symbol("POW", 8));
}
}

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else if (currentsupply.amount/10000/10000 <= 20343750) { //halvening 4

    reward = asset(312500000, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20671875) { //halvening 5

    reward = asset(156250000, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20835938) { //halvening 6

    reward = asset(78125000, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20917969) { //halvening 7

    reward = asset(39062500, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20958984) { //halvening 8

    reward = asset(19531250, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20979492) { //halvening 9

    reward = asset(9765625, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20989746) { //halvening 10

    reward = asset(4882813, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20994873) { //halvening 11

    reward = asset(2441406, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20997437) { //halvening 12

    reward = asset(1220703, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20998718) { //halvening 13

    reward = asset(610352, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20999359) { //halvening 14

    reward = asset(305176, symbol("POW", 8));
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}
else if (currentsupply.amount/10000/10000 <= 20999680) { //halvening 15

    reward = asset(152588, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20999840) { //halvening 16

    reward = asset(76294, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20999920) { //halvening 17

    reward = asset(38147, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20999960) { //halvening 18

    reward = asset(19073, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20999980) { //halvening 19

    reward = asset(9537, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20999990) { //halvening 20

    reward = asset(4768, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20999995) { //halvening 21

    reward = asset(2384, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 <= 20999998) { //halvening 22

    reward = asset(1192, symbol("POW", 8));
}
else if (currentsupply.amount/10000/10000 < 21000000){ //halvening 23

    reward = asset(596, symbol("POW", 8));
}
else {

    reward = asset(0, symbol("POW", 8));
}
return reward;
}

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using create_action = eosio::action_wrapper<"create"_n, &token::create>;
using issue_action = eosio::action_wrapper<"issue"_n, &token::issue>;
using retire_action = eosio::action_wrapper<"retire"_n, &token::retire>;
using transfer_action = eosio::action_wrapper<"transfer"_n, &token::transfer>;
using open_action = eosio::action_wrapper<"open"_n, &token::open>;
using close_action = eosio::action_wrapper<"close"_n, &token::close>;
private:
struct [[eosio::table]] account {
    asset balance;

    uint64_t primary_key()const { return balance.symbol.code().raw(); }
};

struct [[eosio::table]] currency_stats {
    asset supply;
    asset max_supply;
    name issuer;
    int starttime;
    int minetime;

    uint64_t primary_key()const { return supply.symbol.code().raw(); }
};

typedef eosio::multi_index< "accounts"_n, account > accounts;
typedef eosio::multi_index< "stat"_n, currency_stats > stats;

void sub_balance( const name& owner, const asset& value );
void add_balance( const name& owner, const asset& value, const name& ram_payer );
};
}

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