ECS

- double _time
- std::size_t __livingEntities
- std::queue< Entity > __freeEntities
- std::unordered_map < Entity, Signature > __signatures
- std::vector< void * > _componentStorages

+ ECS()
+ ~ECS()=default
+ Entity createEntity()
+ void killEntity(Entity e)
+ Signature getSignature (Entity e) const
+ void setSignature(Entity e, Signature sig)
+ Entity addComponent (Entity e, const Component Type &component)
+ bool hasComponent(Entity e) const
+ const ComponentType * getConstComponent (Entity e) const
+ ComponentType * getComponent (Entity e)
+ std::vector< Entity > getEntitiesByComponents()
+ void killComponent (Entity e)
+ double getTime() const
+ void addTime(double dt)
- void verifyComponentStorage (ComponentTypeID TypeID)

#_ecs

ISystem

+ ISystem(ECS &ecs)
+ virtual ~ISystem() =default
+ virtual void update (double dt)=0

PowerUpSystem

+ PowerUpSystem(ECS &ecs)
+ void update(double dt) override