

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 ComponentType &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



WaveSystem
- std::vector< Components::WaveData > _waves
- size_t _currentWave
- float _timer
+ WaveSystem(ECS &ecs)
+ void loadLevel(const std::vector< Components::WaveData > &waves)
+ void update(double dt) override