



Class GXFScheduler

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- Defined in [File gxf_scheduler.hpp](#)

Inheritance Relationships

Base Types

- `public holoscan::Scheduler` ([Class Scheduler](#))
- `public holoscan::gxf::GXFComponent` ([Class GXFComponent](#))

Derived Types

- `public holoscan::EventBasedScheduler` ([Class EventBasedScheduler](#))
- `public holoscan::GreedyScheduler` ([Class GreedyScheduler](#))
- `public holoscan::MultiThreadScheduler` ([Class MultiThreadScheduler](#))

Class Documentation

class GXFScheduler : public holoscan::Scheduler, public holoscan::gxf::GXFComponent

Subclassed by [holoscan::EventBasedScheduler](#), [holoscan::GreedyScheduler](#), [holoscan::MultiThreadScheduler](#)

Public Functions

```
template<typename ArgT, typename ...ArgsT, typename =  
std::enable_if_t<!std::is_base_of_v<::holoscan::Scheduler, std::decay_t<ArgT>>> &&  
(std::is_same_v<::holoscan::Arg, std::decay_t<ArgT>> || std::is_same_v<::holoscan::ArgList,  
std::decay_t<ArgT>>>>>  
inline GXFScheduler(ArgT &&arg, ArgsT&&... args)
```

GXFScheduler() = default

virtual std::shared_ptr<Clock> clock() = 0

Get the [Clock](#) used by the scheduler.

Returns

The Clock used by the scheduler.

```
virtual const char *gxf_typename() const = 0
```

Get the type name of the GXF scheduler.

The returned string is the type name of the GXF scheduler and is used to create the GXF scheduler.

Example: "nvidia::holoscan::GreedyScheduler"

Returns

The type name of the GXF scheduler.

```
virtual nvidia::gxf::Clock *gxf_clock()
```

Get the GXF Clock pointer.

Returns

The GXF clock pointer used by the scheduler.

Protected Functions

```
virtual void set_parameters() override
```

Set the parameters based on defaults (sets GXF parameters for GXF operators)

```
virtual void reset_graph_entities() override
```

Reset the GXF GraphEntity of all components associated with the scheduler.

Friends

```
friend class holoscan::Fragment
```