



Program Listing for File message.hpp

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"AS IS" BASIS, * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express or implied. * See the License for the specific language governing
permissions and * limitations under the License. */ #ifndef
HOLOSCAN_CORE_MESSAGE_HPP #define HOLOSCAN_CORE_MESSAGE_HPP
#include <any> #include <memory> #include <utility> #include "../common.hpp"
namespace holoscan { class Message { public: Message() = default; template
<typename typeT, typename = std::enable_if_t<!std::is_same_v<std::decay_t<typeT>,
Message>>> explicit Message(typeT&& value) : value_(std::forward<typeT>(value)) {}
template <typename ValueT> void set_value(ValueT&& value) { value_ =
std::forward<ValueT>(value); } std::any value() const { return value_; } template
<typename ValueT> std::shared_ptr<ValueT> as() const { try { return
std::any_cast<std::shared_ptr<ValueT>>(value_); } catch (const std::bad_any_cast& e)
{ HOLOSCAN_LOG_ERROR("The message doesn't have a value of type '{}': {}",
typeid(std::decay_t<ValueT>).name(), e.what()); return nullptr; } } private: std::any
value_; }; } // namespace holoscan #endif/* HOLOSCAN_CORE_MESSAGE_HPP */
```

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