



## **Program Listing for File allocator.hpp**

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```
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or agreed to in writing, software * distributed under the License is distributed on an
"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_RESOURCES_GXF_ALLOCATOR_HPP #define
HOLOSCAN_CORE_RESOURCES_GXF_ALLOCATOR_HPP #include <string> #include
<gxf/std/allocator.hpp> #include "../gxf/gxf_resource.hpp" namespace holoscan {
enum struct MemoryStorageType { kHost = 0, kDevice = 1, kSystem = 2 }; class
Allocator : public gxf::GXFResource { public:
HOLOSCAN_RESOURCE_FORWARD_ARGS_SUPER(Allocator, GXFResource) Allocator()
= default; Allocator(const std::string& name, nvidia::gxf::Allocator* component);
const char* gxf_typename() const override { return "nvidia::gxf::Allocator"; } virtual
bool is_available(uint64_t size); // TODO(gbae): Introduce expected<> type virtual
nvidia::byte* allocate(uint64_t size, MemoryStorageType type); virtual void
free(nvidia::byte* pointer); // Get the block size of this allocator, defaults to 1 for byte-
based allocators uint64_t block_size(); nvidia::gxf::Allocator* get() const; }; } //
namespace holoscan #endif/* HOLOSCAN_CORE_RESOURCES_GXF_ALLOCATOR_HPP
*/
```

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