The **Black Box Toolkit**

Developers' Guide

`bbtk` version 0.9.0

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2.1 Displaying messages

```
bbtkMessage("Kind",level,"message "<<"to "<<" display : i="<<i<<std::endl);
bbtkDebugMessage("Kind",level,"message "<<"to "<<" display : i="<<i<<std::endl);
```

2.2 Types and RTTI

In `bbtk` the class conveying the information on a type is

`bbtk::TypeInfo`

which is simply a typedef on

`const std::type_info&`

Remember that all constructors of the std::type_info class are private, hence objects can only be created by the operator `typeid` which returns a const reference on a type_info. Hence the `bbtk` type TypeInfo conveys that const reference and cannot be itself referenced. Any function or method which takes or returns a TypeInfo must take or return it *by value* (see e.g. the TypeName function below). To print the name of a type use one of the template functions

```
template <class T> std::string TypeName();
template <class T> std::string TypeName(const T&);
template <class T> std::string TypeName(bbtk::TypeInfo);

BBTK_DEFINE_HUMAN_READABLE_TYPE_NAME(std::string,"string");
```