Raising Exceptions in C-Sharp

To throw an exception from an operation implementation, you simply instantiate the exception, initialize it, and throw it. For example:

Note that, for this example, we have supplied the optional second parameter to the GenericError constructor. This parameter sets the InnerExce ption member of System. Exception and preserves the original cause of the error for later diagnosis.

If you throw an arbitrary C# run-time exception (such as an InvalidCastException), the Ice run time catches the exception and then returns an UnknownException to the client. Similarly, if you throw an "impossible" user exception (a user exception that is not listed in the exception specification of the operation), the client receives an UnknownUserException.

If you throw an Ice run-time exception, such MemoryLimitException, the client receives an UnknownLocalException. For that reason, you should never throw system exceptions from operation implementations. If you do, all the client will see is an UnknownLocalException, which does not tell the client anything useful.



Three run-time exceptions are treated specially and not changed to <code>UnknownLocalException</code> when returned to the client: <code>ObjectNotExistException</code>, <code>OperationNotExistException</code>, and <code>FacetNotExistException</code>.

See Also

- Run-Time Exceptions
- C-Sharp Mapping for Exceptions
- Server-Side C-Sharp Mapping for Interfaces
- Parameter Passing in C-Sharp
- Tie Classes in C-Sharp