

Chrono Duration Types Solutions

Duration units

- What is meant by a duration unit in the `std::chrono` library?
 - A duration unit is an integer type
 - It is used to measure time intervals

Duration units

- Write down expressions that define duration objects which represent intervals of
 - 2 seconds
`seconds(2)`
 - 20 milliseconds
`milliseconds(20)`
 - 50 microseconds
`microseconds(50)`

std::chrono literals

- Repeat the previous exercise, using standard literals

2s

20ms

50us

std::chrono literals

- Write a simple program which creates some duration objects and prints out their values
- What happens if the object is not explicitly initialized?
 - A default-initialized duration object has an undefined value

Operations

- Write a simple program which performs some operations on duration types and prints out the results

Conversions

- What conversions are supported by duration types?
 - Conversions from other integer types must be explicit
 - Conversions from other duration types can be implicit, provided there is no loss of data
 - If the conversion will cause data loss, it has to be performed using a `duration_cast`
- Write simple programs to illustrate your answer