JD-UOM

Unit-of-Measurement Conversion Library for Delphi

# Summary

This library is a collection of tools to convert between a vast number of units of measurement. Third-party UOMs can be dynamically included, and numerous UOMs depend on other ones, such as Weight using Mass and Gravity, or Speed using Length and Time.

# Disclaimer

This library is in active development, and not ready for use. Author (Jerry Dodge) holds no responsibility for the condition / quality of this code.

# UOM\_V2 Branch

The Master branch is more or less the original code, before spawning a new branch “UOM\_V2”. This is where all new major development is being done to convert the entire library to a totally new infrastructure. More specifically, changing from statically-registered UOMs to dynamically-registered ones.

# JD.Uom.pas

This is the main unit which encapsulates the entire UOM infrastructure.

## Constants

### PartOfNumber

PartOfNumber = ['0'..'9', '.', ','];

An array that specifies what characters are included in a numeric value within a string.

### NumFormat

NumFormat = '#,###,###,###,##0.#############';

Defines the base number format for use across the UOM library.

## Types

### TUOMSystem

TUOMSystem = (ustAny, ustMetric, ustUSCustomary, ustImperial, ustNatural);

Enum listing all the different possible UOM systems.

### TUOMSystems

TUOMSystems = set of TUOMSystem;

A set of `TUOMSystem`, used by UOM units to specify which systems they’re related to.

### TUOMBase

TUOMBase = class;

Base class for a unit of measurement.

### TUOMBaseClass

TUOMBaseClass = class of TUOMBase;

Class of `TUOMBase`.

### TUOMUnitBase

TUOMUnitBase = class;

Base class for a specific unit within a unit of measurement.

### TUOMUnitBaseClass

TUOMUnitBaseClass = class of TUOMUnitBase;

Class of `TUOMUnitBase`.

### TUOMUtils

TUOMUtils = class;

Primary access to all possible UOM conversion.

### TUnitOfMeasurement

TUnitOfMeasurement = class(TPersistent)

### TUOM

TUOM = class(TComponent)