```
import Foundation
/// A compiled model asset.
///
/// `MLModelAsset` is an abstraction of a compiled model, which can be:
///
/// - `.mlmodelc` bundle on the file system
/// – In-memory model specification
///
/// It provides the unified interface to guery the model description and to instantiate
`MLModel`.
///
/// ```swift
/// // Creates an object.
/// let modelAsset = MLModelAsset(url: modelURL)
///
/// // Query the model description
/// let description = try await modelAsset.modelDescription
/// // Query the list of functions in the model asset.
/// let functionNames = try await modelAsset.functionNames
/// // Query the model description of a specific function.
/// let descriptionOfMyFunction = try await
modelAsset.modelDescription(of: "MyFunction")
///
/// // Instantiate `MLModel` for "MyFunction".
/// let modelConfiguration = MLModelConfiguration()
/// modelConfiguration.functionName = "MyFunction"
/// let model = try await MLModel.load(asset: modelAsset,
configuration: modelConfiguration)
@available macOS 13.0
open class MLModelAsset     NSObject
    /// Construct a model asset from the contents of specification data.
    ///
    /// - Parameters:

    specificationData: Contents of .mlmodel as a data blob.

         - error: When the model asset creation fails error is populated with
the reason for failure.
    @available macOS 13.0
    public convenience init
Data throws
    /// Construct a model asset from an ML Program specification by replacing
blob file references with corresponding in-memory blobs.
    /// An ML Program may use `BlobFileValue` syntax, which stores the
blob data in external files and refers them by URL.
```

```
/// This factory method enables in-memory workflow for such models by
using the specified in-memory blob data in place of the external files.
     /// The format of in-memory blobs must be the same as the external files.
The dictionary must contain all the reference URLs used in the specification.
     ///
     /// - Parameters:
           - specification: Contents of .mlmodel as a data blob.

    blobMapping: A dictionary with blob URL as the key and blob

data as the value.
     /// - error: When the model asset creation fails error is populated with
the reason for failure.
    @available macOS 15.0
    public convenience init
                        URL Data throws
Data
    /// Constructs a ModelAsset from a compiled model URL.
     ///
     /// - Parameters:
     ///

    compiledModelURL: Location on the disk where the model asset

is present.
           - error: Errors if the model asset is not loadable.
    ///
    ///
     /// - Returns: a model asset or nil if there is an error.
    @available macOS 15.0
    public convenience init
                                                            URL throws
    /// The default model descripton.
    ///
     /// Use this method to get the description of the model such as the feature
descriptions, the model author, and other metadata.
     ///
     /// For the multi-function model asset, this method vends the description for
the default function. Use `modelDescription(for:)` to get the model
description of other functions.
     ///
     /// ```swift
    /// let modelAsset = try MLModelAsset(url: modelURL)
     /// let modelDescription = trv await
modelAsset.modelDescription()
    /// print(modelDescription)
     ///
    @available macOS 15.0
    open func modelDescription
@escaping MLModelDescription any Error Void
    /// The default model descripton.
     ///
     /// Use this method to get the description of the model such as the feature
descriptions, the model author, and other metadata.
```

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///
    /// For the multi-function model asset, this method vends the description for
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description of other functions.
    ///
    /// ```swift
    /// let modelAsset = try MLModelAsset(url: modelURL)
    /// let modelDescription = try await
modelAsset.modelDescription()
    /// print(modelDescription)
    ///
    @available macOS 15.0
    open var modelDescription MLModelDescription get async
throws
    /// The model descripton for a specified function.
    ///
    /// Use this method to get the description of the model such as the feature
descriptions, the model author, and other metadata.
    ///
    /// ```swift
    /// let modelAsset = try MLModelAsset(url: modelURL)
    /// let modelDescription = try await
modelAsset.modelDescription(of: "my_function")
    /// print(modelDescription)
    ///
    @available macOS 15.0
    open func modelDescription
                                       @escaping
String
MLModelDescription any Error
                                            Void
    /// The model descripton for a specified function.
    ///
    /// Use this method to get the description of the model such as the feature
descriptions, the model author, and other metadata.
    ///
    /// ```swift
    /// let modelAsset = try MLModelAsset(url: modelURL)
    /// let modelDescription = try await
modelAsset.modelDescription(of: "my function")
    /// print(modelDescription)
    ///
    @available macOS 15.0
    open func modelDescription
                                                      String async
throws MLModelDescription
    /// The list of function names in the model asset.
    /// Some model types (e.g. ML Program) supports multiple functions. Use
this method to query the function names.
```

```
///
    /// The method vends the empty array when the model doesn't use the multi-
function configuration.
    ///
    /// ```swift
    /// let modelAsset = try MLModelAsset(url: modelURL)
    /// let functionNames = try await modelAsset.functionNames
    /// print(functionNames) // For example, ["my_function1",
"my function2"];
    ///
    @available macOS 15.0
    open func functionNames
@escaping String any Error Void
    /// The list of function names in the model asset.
    /// Some model types (e.g. ML Program) supports multiple functions. Use
this method to guery the function names.
    /// The method vends the empty array when the model doesn't use the multi-
function configuration.
    ///
    /// ```swift
    /// let modelAsset = try MLModelAsset(url: modelURL)
    /// let functionNames = try await modelAsset.functionNames
    /// print(functionNames) // For example, ["mv function1",
"my function2"];
    /// ```
    @available macOS 15.0
```