

ML_Core

[Go Up](#)

Name	ML_Core
Version	3.1.0
Description	Common definitions for Machine Learning
License	See LICENSE.TXT
Copyright	Copyright (C) 2017 HPCC Systems
Authors	HPCCSystems
Platform	6.2.0

Table of Contents

AppendID.ecl
AppendSeqID.ecl
Config.ecl
Constants.ecl
Useful constants
FieldAggregates.ecl
FromField.ecl
Generate.ecl
ToField.ecl
Types.ecl

ML_Core/ AppendID

[Go Up](#)

DESCRIPTIONS

MACRO AppendID

	AppendID
	(dIn,idfield,dOut)

No Documentation Found

PARAMETER idfield ||| INTEGER8 — No Doc

PARAMETER din ||| INTEGER8 — No Doc

PARAMETER dout ||| INTEGER8 — No Doc

RETURN —

ML_Core/ AppendSeqID

[Go Up](#)

DESCRIPTIONS

MACRO AppendSeqID

	AppendSeqID
	(dIn,idfield,dOut)

No Documentation Found

PARAMETER idfield ||| INTEGER8 — No Doc

PARAMETER din ||| INTEGER8 — No Doc

PARAMETER dout ||| INTEGER8 — No Doc

RETURN —

ML_Core/ Config

[Go Up](#)

DESCRIPTIONS

MODULE Config

	Config
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No Documentation Found

Children

1. [MaxLookup](#) : No Documentation Found
2. [Discrete](#) : No Documentation Found
3. [RoundingError](#) : No Documentation Found

ATTRIBUTE MaxLookup

[Config](#) \

	MaxLookup
--	-----------

No Documentation Found

RETURN INTEGER8 —

ATTRIBUTE Discrete

[Config](#) \

	Discrete
--	----------

No Documentation Found

RETURN INTEGER8 —

ATTRIBUTE RoundingError

[Config](#) \

	RoundingError
--	---------------

No Documentation Found

RETURN REAL8 —

ML_Core/ Constants

[Go Up](#)

DESCRIPTIONS

MODULE Constants

	Constants
--	-----------

Useful constants

Children

1. [Pi](#) : Constant PI
2. [Root_2](#) : Constant square root of 2

ATTRIBUTE Pi

[Constants](#) \

	Pi
--	----

Constant PI

RETURN REAL8 —

ATTRIBUTE Root_2

Constants \

Root_2

Constant square root of 2

RETURN REAL8 —

ML_Core/ FieldAggregates

[Go Up](#)

IMPORTS

ML_Core | ML_Core.Types | ML_Core.Utils | std.system.ThorLib |

DESCRIPTIONS

MODULE FieldAggregates

FieldAggregates
(DATASET(Types.NumericField) d)

No Documentation Found

PARAMETER d ||| TABLE (NumericField) — No Doc

Children

1. [Simple](#) : No Documentation Found
2. [SimpleRanked](#) : No Documentation Found
3. [Medians](#) : No Documentation Found
4. [MinMedNext](#) : No Documentation Found
5. [Buckets](#) : No Documentation Found
6. [BucketRanges](#) : No Documentation Found

7. [Modes](#) : No Documentation Found
 8. [Cardinality](#) : No Documentation Found
 9. [RankedInput](#) : No Documentation Found
 10. [NTiles](#) : No Documentation Found
 11. [NTileRanges](#) : No Documentation Found
-

ATTRIBUTE Simple

[FieldAggregates](#) \

	Simple
--	--------

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , REAL8 minval , REAL8 maxval , REAL8 sumval , REAL8 countval , REAL8 mean , REAL8 var , REAL8 sd }) —

ATTRIBUTE SimpleRanked

[FieldAggregates](#) \

	SimpleRanked
--	--------------

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED8 id , UNSIGNED4 number , REAL8 value , UNSIGNED8 Pos }) —

ATTRIBUTE Medians

[FieldAggregates](#) \

	Medians
--	---------

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , REAL8 median }) —

ATTRIBUTE MinMedNext

[FieldAggregates](#) \

	MinMedNext
--	------------

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , REAL8 median , REAL8 nextval , REAL8 minval , REAL8 maxval , REAL8 sumval , REAL8 countval , REAL8 mean , REAL8 var , REAL8 sd }) —

FUNCTION Buckets

[FieldAggregates](#) \

	Buckets
(Types.t_Discrete n)	

No Documentation Found

PARAMETER n ||| INTEGER4 — No Doc

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED8 id , UNSIGNED4 number , REAL8 value , UNSIGNED8 Pos , INTEGER4 bucket }) —

FUNCTION BucketRanges

[FieldAggregates](#) \

	BucketRanges
	(Types.t_Discrete n)

No Documentation Found

PARAMETER n ||| INTEGER4 — No Doc

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , INTEGER4 bucket , REAL8 Min , REAL8 Max , UNSIGNED8 cnt }) —

ATTRIBUTE Modes

[FieldAggregates](#) \

	Modes
--	-------

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , REAL8 mode , UNSIGNED8 cnt }) —

ATTRIBUTE Cardinality

[FieldAggregates](#) \

	Cardinality
--	--------------------

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , UNSIGNED8 cardinality }) —

ATTRIBUTE RankedInput

[FieldAggregates](#) \

	RankedInput
--	--------------------

No Documentation Found

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED8 id , UNSIGNED4 number , REAL8 value , REAL8 Pos }) —

FUNCTION NTiles

[FieldAggregates](#) \

	NTiles
	(Types.t_Discrete n)

No Documentation Found

PARAMETER n ||| INTEGER4 — No Doc

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED8 id , UNSIGNED4 number , REAL8 value , REAL8 Pos , INTEGER4 ntile }) —

FUNCTION NTileRanges

[FieldAggregates](#) \

	NTileRanges
	(Types.t_Discrete n)

No Documentation Found

PARAMETER n ||| INTEGER4 — No Doc

RETURN TABLE ({ UNSIGNED2 wi , UNSIGNED4 number , INTEGER4 ntile ,
REAL8 Min , REAL8 Max , UNSIGNED8 cnt }) —

ML_Core/ FromField

[Go Up](#)

DESCRIPTIONS

MACRO FromField

	FromField
(dIn,lOut,dOut,dMap=")	

No Documentation Found

PARAMETER dout ||| INTEGER8 — No Doc

PARAMETER lout ||| INTEGER8 — No Doc

PARAMETER din ||| INTEGER8 — No Doc

PARAMETER dmap ||| INTEGER8 — No Doc

RETURN —

ML_Core/ Generate

[Go Up](#)

IMPORTS

ML_Core | ML_Core.Types |

DESCRIPTIONS

MODULE Generate

	Generate
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No Documentation Found

Children

1. [tp_Method](#) : No Documentation Found
2. [MethodName](#) : No Documentation Found
3. [ToPoly](#) : No Documentation Found

ATTRIBUTE tp_Method

[Generate](#) \

	<code>tp_Method</code>
--	------------------------

No Documentation Found

RETURN UNSIGNED1 —

FUNCTION `MethodName`

[Generate \](#)

	<code>MethodName</code>
	<code>(tp_Method x)</code>

No Documentation Found

PARAMETER `x` ||| UNSIGNED1 — No Doc

RETURN STRING7 —

FUNCTION `ToPoly`

[Generate \](#)

	<code>ToPoly</code>
	<code>(DATASET(Types.NumericField) seedCol, UNSIGNED maxN=6)</code>

No Documentation Found

PARAMETER `seedcol` ||| TABLE (NumericField) — No Doc

PARAMETER `maxn` ||| UNSIGNED8 — No Doc

RETURN TABLE ({ UNSIGNED2 `wi` , UNSIGNED8 `id` , UNSIGNED4 `number` , REAL8 `value` }) —

ML_Core/ ToField

[Go Up](#)

DESCRIPTIONS

MACRO ToField

ToField
(dIn,dOut,idfield=", wifield=", wivalue=",datafields=)

No Documentation Found

PARAMETER idfield ||| INTEGER8 — No Doc

PARAMETER wifield ||| INTEGER8 — No Doc

PARAMETER din ||| INTEGER8 — No Doc

PARAMETER dout ||| INTEGER8 — No Doc

PARAMETER datafields ||| INTEGER8 — No Doc

PARAMETER wivalue ||| INTEGER8 — No Doc

RETURN —

[Go Up](#)

DESCRIPTIONS

MODULE Types

	Types
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No Documentation Found

Children

1. [t_RecordID](#) : No Documentation Found
2. [t_FieldNumber](#) : No Documentation Found
3. [t_FieldReal](#) : No Documentation Found
4. [t_FieldSign](#) : No Documentation Found
5. [t_Discrete](#) : No Documentation Found
6. [t_Item](#) : No Documentation Found
7. [t_Count](#) : No Documentation Found
8. [t_Work_Item](#) : No Documentation Found
9. [AnyField](#) : No Documentation Found
10. [NumericField](#) : No Documentation Found
11. [DiscreteField](#) : No Documentation Found
12. [Layout_Model](#) : No Documentation Found
13. [Classify_Result](#) : No Documentation Found
14. [l_result](#) : No Documentation Found

- 15. [Confusion_Detail](#) : No Documentation Found
- 16. [ItemElement](#) : No Documentation Found
- 17. [t_node](#) : No Documentation Found
- 18. [t_level](#) : No Documentation Found
- 19. [NodeID](#) : No Documentation Found

ATTRIBUTE t_RecordID

[Types](#) \

t_RecordID

No Documentation Found

RETURN UNSIGNED8 —

ATTRIBUTE t_FieldNumber

[Types](#) \

t_FieldNumber

No Documentation Found

RETURN UNSIGNED4 —

ATTRIBUTE t_FieldReal

[Types \](#)

	t_FieldReal
--	-------------

No Documentation Found

RETURN REAL8 —

ATTRIBUTE t_FieldSign

[Types \](#)

	t_FieldSign
--	-------------

No Documentation Found

RETURN INTEGER1 —

ATTRIBUTE t_Discrete

[Types \](#)

	t_Discrete
--	------------

No Documentation Found

RETURN INTEGER4 —

ATTRIBUTE t_Item

[Types \](#)

	t_Item
--	--------

No Documentation Found

RETURN UNSIGNED4 —

ATTRIBUTE t_Count

[Types \](#)

	t_Count
--	---------

No Documentation Found

RETURN UNSIGNED8 —

ATTRIBUTE t_Work_Item

[Types \](#)

	t_Work_Item
--	-------------

No Documentation Found

RETURN UNSIGNED2 —

RECORD AnyField

Types \

	AnyField
--	----------

No Documentation Found

FIELD number ||| UNSIGNED4 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD id ||| UNSIGNED8 — No Doc

RECORD NumericField

Types \

	NumericField
--	--------------

No Documentation Found

FIELD number ||| UNSIGNED4 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD id ||| UNSIGNED8 — No Doc

FIELD value ||| REAL8 — No Doc

RECORD DiscreteField

Types \

	DiscreteField
--	---------------

No Documentation Found

FIELD number ||| UNSIGNED4 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD id ||| UNSIGNED8 — No Doc

FIELD value ||| INTEGER4 — No Doc

RECORD Layout_Model

Types \

	Layout_Model
--	--------------

No Documentation Found

FIELD number ||| UNSIGNED4 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD id ||| UNSIGNED8 — No Doc

FIELD value ||| REAL8 — No Doc

RECORD Classify_Result

Types \

	Classify_Result
--	-----------------

No Documentation Found

FIELD number ||| UNSIGNED4 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD id ||| UNSIGNED8 — No Doc

FIELD value ||| INTEGER4 — No Doc

FIELD conf ||| REAL8 — No Doc

RECORD l_result

Types \

	l_result
--	----------

No Documentation Found

FIELD number ||| UNSIGNED4 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD id ||| UNSIGNED8 — No Doc

FIELD value ||| INTEGER4 — No Doc

FIELD conf ||| REAL8 — No Doc

RECORD Confusion_Detail

Types \

	Confusion_Detail
--	------------------

No Documentation Found

FIELD occurs ||| UNSIGNED4 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD predict__class ||| INTEGER4 — No Doc

FIELD correct ||| BOOLEAN — No Doc

FIELD classifier ||| UNSIGNED4 — No Doc

FIELD actual__class ||| INTEGER4 — No Doc

RECORD ItemElement

Types \

	ItemElement
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No Documentation Found

FIELD wi ||| UNSIGNED2 — No Doc

FIELD id ||| UNSIGNED8 — No Doc

FIELD value ||| UNSIGNED4 — No Doc

ATTRIBUTE t_node

Types \

	t_node
--	--------

No Documentation Found

RETURN INTEGER4 —

ATTRIBUTE t_level

Types \

	t_level
--	---------

No Documentation Found

RETURN UNSIGNED2 —

RECORD NodeID

[Types](#) \

	NodeID
--	---------------

No Documentation Found

FIELD level ||| UNSIGNED2 — No Doc

FIELD wi ||| UNSIGNED2 — No Doc

FIELD node__id ||| INTEGER4 — No Doc
