## $\mathbf{root}$

### Go Up

Name	LogisticRegression
Version	1.0.0
Description	Logistic Regression implementation
License	http://www.apache.org/licenses/LICENSE-2.0
Copyright	Copyright (C) 2017 HPCC Systems
Authors	HPCCSystems
DependsOn	ML_Core, PBblas
Platform	6.2.0

## **Table of Contents**

#### Constants.ecl

#### $\operatorname{dimm.ecl}$

Matrix multiply when either A or B is a diagonal and is passed as a vector

## **Constants**

#### Go Up

## **DESCRIPTIONS**

### **MODULE Constants**

#### Constants

No Documentation Found

#### Children

2. default\_epsilon : No Documentation Found3. default\_ridge : No Documentation Found

1. limit card: No Documentation Found

- 4. local\_cap : No Documentation Found
- 5. id\_base: No Documentation Found
- 6. id\_iters: No Documentation Found
- 7. id\_delta: No Documentation Found
- 8. id\_correct : No Documentation Found
- 9. id\_incorrect: No Documentation Found
- 10.  $id\_stat\_set$ : No Documentation Found
- 11. id betas: No Documentation Found
- 12. id\_betas\_coef: No Documentation Found
- 13. id\_betas\_SE: No Documentation Found
- 14. base\_builder: No Documentation Found
- 15. base\_max\_iter: No Documentation Found

- 16. base\_epsilon: No Documentation Found
- 17. base ind vars: No Documentation Found
- 18. base\_dep\_vars: No Documentation Found
- 19. base obs: No Documentation Found
- 20. builder irls local: No Documentation Found
- 21. builder irls global: No Documentation Found
- 22. builder\_softmax: No Documentation Found

## **ATTRIBUTE** limit\_card

Constants \

UNSIGNED2 | limit\_card

No Documentation Found

RETURN UNSIGNED2 —

## **ATTRIBUTE** default\_epsilon

Constants \

REAL8 default\_epsilon

No Documentation Found

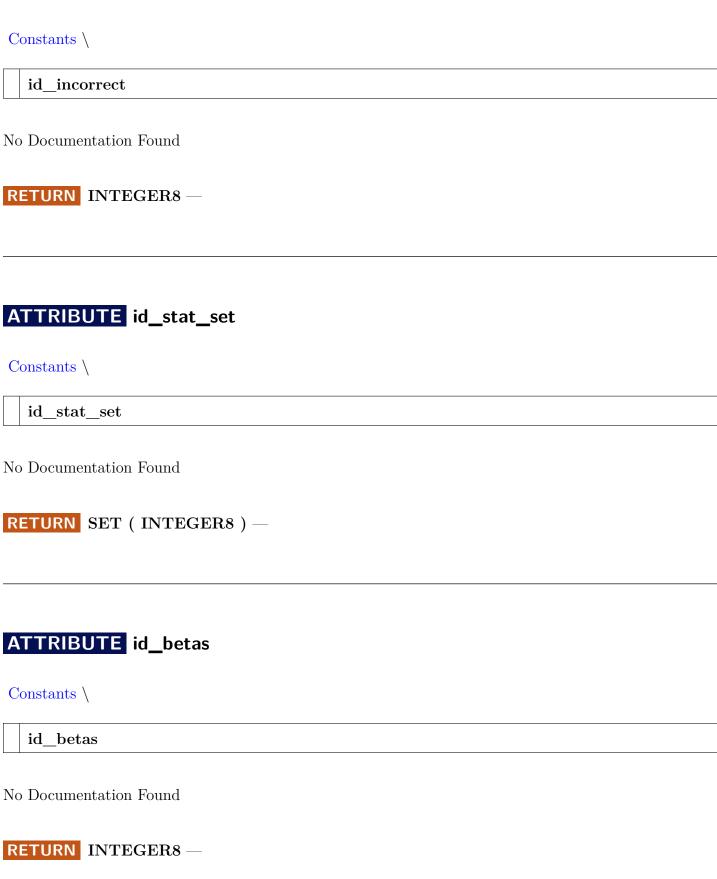
RETURN REAL8 —

## **ATTRIBUTE** default\_ridge

Constants \		
REAL8	default_ridge	
No Docu	mentation Found	
RETUR	REAL8 —	
ATTR	IBUTE local_cap	
Constar	nts \	
UNSIGN	ED4 local_cap	
No Docu	mentation Found	
RETUR	UNSIGNED4 —	
ATTR	IBUTE id_base	
Constar	nts \	
id_h	oase	
No Docu	umentation Found	
RETUR	INTEGER8 —	

## ATTRIBUTE id\_iters Constants \ id iters No Documentation Found RETURN INTEGER8 — ATTRIBUTE id\_delta Constants \ $id\_delta$ No Documentation Found RETURN INTEGER8 — ATTRIBUTE id\_correct Constants \ $id\_correct$ No Documentation Found RETURN INTEGER8 —

## ATTRIBUTE id\_incorrect



# ATTRIBUTE id\_betas\_coef Constants \ id betas coef No Documentation Found RETURN INTEGER8 — ATTRIBUTE id\_betas\_SE Constants \ $id\_betas\_SE$ No Documentation Found RETURN INTEGER8 — **ATTRIBUTE** base\_builder Constants $\setminus$ base builder

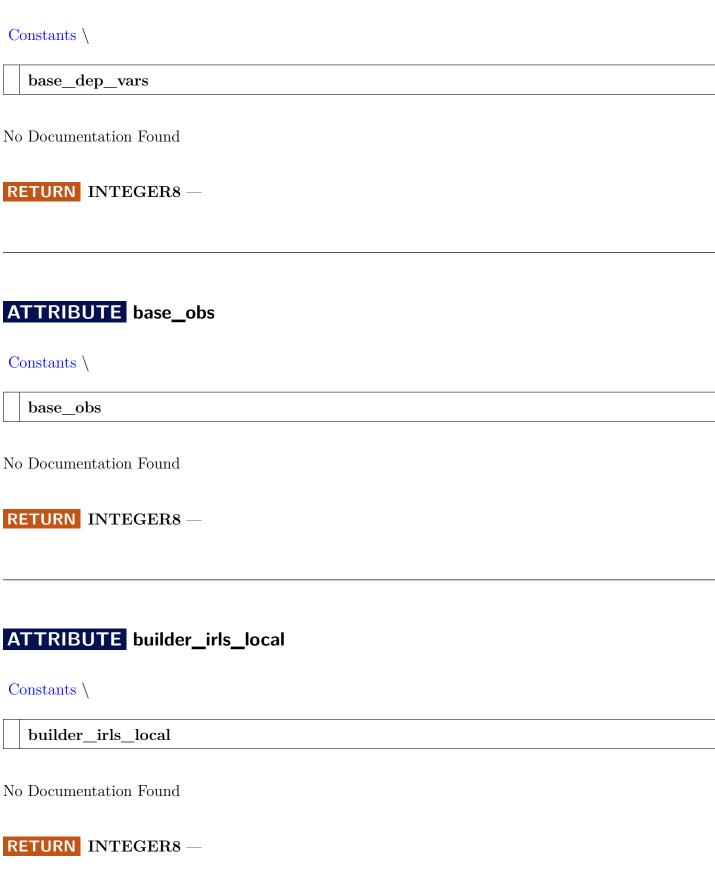
No Documentation Found

RETURN INTEGER8 —

# **ATTRIBUTE** base\_max\_iter Constants \ base\_max\_iter No Documentation Found RETURN INTEGER8 — ATTRIBUTE base\_epsilon Constants \ base\_epsilon No Documentation Found RETURN INTEGER8 — **ATTRIBUTE** base\_ind\_vars Constants \ base\_ind\_vars No Documentation Found

RETURN INTEGER8 —

## ATTRIBUTE base\_dep\_vars



## **ATTRIBUTE** builder\_irls\_global

C	$ m constants \setminus$
	builder_irls_global
No	Documentation Found
R	ETURN INTEGER8 —
A	TTRIBUTE builder_softmax
С	$ ightharpoonstants \setminus$
	builder_softmax
No	Documentation Found
R	ETURN INTEGER8 —

## dimm

Go Up

### **IMPORTS**

std.blas | std.BLAS.Types |

#### **DESCRIPTIONS**

## **EMBED** dimm

```
Types.matrix_t dimm

(BOOLEAN transposeA, BOOLEAN transposeB, BOOLEAN diagonalA, BOOLEAN diagonalB, Types.dimension_t m, Types.dimension_t n,

Types.dimension_t k, Types.value_t alpha, Types.matrix_t A,

Types.matrix_t B, Types.value_t beta=0.0, Types.matrix_t C=[])
```

Matrix multiply when either A or B is a diagonal and is passed as a vector. alpha\*op(A) op(B) + beta\*C where op() is transpose

```
PARAMETER transpose | III BOOLEAN — true when transpose of A is used

PARAMETER | III UNSIGNED4 — number of columns in product

PARAMETER | diagonal | III BOOLEAN — true when B is the diagonal matrix

PARAMETER | A | III SET (REAL8) — matrix A

PARAMETER | LII UNSIGNED4 — number of columns/rows for the multiplier/multiplicand

PARAMETER | alpha | III REAL8 — scalar used on A

PARAMETER | B | III SET (REAL8) — matrix B
```

PARAMETER transposeB || BOOLEAN — true when transpose of B is used

PARAMETER <u>C</u> ||| SET ( REAL8 ) — matrix C or empty

PARAMETER beta || REAL8 — scalar for matrix C

PARAMETER <u>m</u> ||| UNSIGNED4 — number of rows in product

PARAMETER diagonal | | BOOLEAN — true when A is the diagonal matrix

RETURN SET ( REAL8 ) -