SAS/IML Quick Reference on Printing and Working with Data Sets

Printing

Submit **RESET PRINT**; to ask IML to automatically print any matrix you create (so use only if you are working with small matrices).

Submit **RESET NOPRINT**; to turn off automatic printing.

To print a specific matrix:

PRINT <"message"> <pointer controls> <matrix> <[options]>;

/ to skip to a new page Available pointer controls: , to skip to a new line

Options:

COLNAME=matrix matrix of column headings
ROWNAME=matrix matrix of row labels
FORMAT=format format like 5.3 to be used for printing values

Example: $x = \{ 45.125 50.500,$ 75.375 90.825 }; $r = \{ 'Laborer A', \}$

`Laborer B' }; c = { 'Net Pay' 'Amount' };

PRINT "Day's Wages", x[ROWNAME=r COLNAME=c FORMAT=12.2];

Result: Day's Wages

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Net Pay Amount

Laborer A 45.13 Laborer B 75.38 50.50 90.83

Creating a matrix from a data set

USE data set name;

READ ALL <VAR list of variables> <WHERE(expression)> <INTO matrix>

Example: USE bios111.class;

READ ALL VAR {age ht wt} WHERE(sex='M') INTO males;

READ ALL VAR {name} WHERE(sex='M') INTO names; PRINT males[COLNAME={age ht wt} ROWNAME=names];

Result:

	MALES		
	AGE	$_{ m HT}$	WT
CHRISTIANSEN	37	71	195
HOSKING J	31	70	160
HELMS R	41	74	195
FROG K	3	12	1

Creating a data set from a matrix

CREATE data set name FROM matrix VAR{ variable names }; **APPEND FROM** matrix:

CREATE data set name **FROM** matrix **[COLNAME**=char matrix or quoted strings] **APPEND FROM** matrix;