

Using SAS Picture Formats for Statistical Results

Iva MacLennan
The RAND Corporation



1

Overview

A simple picture format can allow you to display tabular data from a statistical procedure such as PROC MEANS in a more user-friendly display, without creating extra variables.

2

Example 1: Percentage Format

Raw Data--Lots of Binary Variables

```
----- DISCHARGE STATUS=1.completed Tx -----
OBS   HEROIN  COCAINE  AMPHET   MALE
  1     0       0         1       0
  2     1       0         1       1
----- DISCHARGE STATUS=2.left -----
  3     0       0         0       0
  4     1       0         0       1
  5     0       1         0       1
```

3

Example 1: Percentage Format

Standard MEANS Output

OBS	STATUS	FREQ	HEROIN	COCAINE	MALE
1	1.completed Tx	8	0.125	0.50	0.75
2	2.left	20	0.100	0.65	0.85

4

Example 1: Percentage Format

USING PICTURE FORMAT

OBS	STATUS	FREQ	HEROIN	COCAINE	MALE
1	1.completed Tx	8	12.50%	50.00%	75.00%
2	2.left	20	10.00%	65.00%	85.00%

5

Example 1: Percentage Format

```
proc format ;
  PICTURE percf
    OTHER = '009.00%' (mult=10000)
;
RUN;
```

6

Example 2: ROUNDING

USING PICTURE FORMAT

	SINGLE	MARRIED	ALL
Wave 3 Wealth	171.8K	321.9K	235.5K
Wave 2 Wealth	161.6K	301.7K	221.2K
Wave 1 Wealth	111.0K	214.4K	154.9K
Estate Value	181.1K	203.3K	190.5K
N	572	324	896

7

Example 2: ROUNDING

```
proc format ;  
  PICTURE thouf (round)  
  OTHER = '009.0K' (mult=0.01)  
  ;  
RUN;
```

8

Example 2B: Adding Inflation Adjustment

Convert to 2001 Dollars

```
proc format ;  
  PICTURE thou2f (round)  
  OTHER = '009.0K' (mult=0.0115375)  
  ;  
RUN;
```

9

Iva MacLennan

Research Programming Group
Information Services and Technology
The RAND Corporation
Santa Monica, CA

iva@rand.org



10