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NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)
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NOTE: This session is executing on the WIN_PRO platform.

NOTE: This installation is running Base SAS hot fix bundle 82BX08.

NOTE: AUTOEXEC processing beginning; file is C:\PROGRA~1\SASINS~1\SAS\V8\autoexec.sas.

```
1      ** C:\PROGRAM FILES\SAS INSTITUTE\SAS\V8\AUTOEXEC.SAS ;
2
3      OPTIONS LS= 132 PS= 70 MERGENOBY=ERROR MSGLEVEL=i;
```

NOTE: AUTOEXEC processing completed.

```
1      /*****\
2
3      PROGRAM:      C:\MEPS\PROG\EXAMPLE_E3.SAS
4
5      DESCRIPTION:  THIS EXAMPLE SHOWS HOW TO CREATE A LONGITUDINAL
6                    FILE FOR 1999-2000 (PANEL 4) AND COMPUTE PERSON-
7                    LEVEL ESTIMATES FOR INSURANCE COVERAGE AND
8                    EXPENDITURES.
9
10     VARIABLES:    UNINS99, UNINS00
11                  (INSURED ALL OF 1999, 2000)
12                  TOTEXP99, TOTEXP00
13                  (TOTAL HEALTHCARE EXPENDITURES, 1999)
14
15     INPUT FILE:   (1) C:\MEPS\DATA\H50.SAS7BDAT (2000 FULL-YEAR DATA FILE)
16                  (3) C:\MEPS\DATA\H38.SAS7BDAT (1999 FULL-YEAR DATA FILE)
17                  (5) C:\MEPS\DATA\H58.SAS7BDAT
18                  (PANEL 4 LONGITUDINAL WEIGHT FILE)
19
20     \*****/
21
22     LIBNAME CMEPS V8 'C:\MEPS\DATA';
```

NOTE: Libref CMEPS was successfully assigned as follows:

```
Engine:      V8
Physical Name: C:\MEPS\DATA
```

```
23
24     FOOTNOTE 'PROGRAM: C:\MEPS\PROG\EXAMPLE_E3.SAS';
25
26     TITLE1 'AHRQ MEPS DATA USERS WORKSHOP (ESTIMATION) -- NOV/DEC 2004';
27     TITLE2 'PANEL 4 LONGITUDINAL FILE (1999 - 2000)';
28     TITLE3 ' ';
29
30     /***** THESE DATA STEPS READ IN THE REQUIRED VARIABLES FROM THE *****/
31     /***** FULL-YEAR FILES. *****/
32     /***** USE THE PANELyy VARIABLE TO PICK OUT PANEL 4 PERSONS *****/
33
34     /*****          1999 DATA          *****/
35
36     DATA H38;
37     SET CMEPS.H38 (KEEP= DUPERSID UNINS99 TOTEXP99 PANEL99);
```

```
38         WHERE PANEL99 = 4;  
39         DROP PANEL99;  
40         RUN;
```

NOTE: There were 14178 observations read from the data set CMEPS.H38.
WHERE PANEL99=4;

NOTE: The data set WORK.H38 has 14178 observations and 3 variables.

```
41  
42         /*****                2000 DATA                *****/
```

```
43
44     DATA H50;
45         SET CMEPS.H50 (KEEP= DUPERSID UNINS00 TOTEXP00 PANEL00);
46         WHERE PANEL00 = 4;
47         DROP PANEL00;
48     RUN;
```

NOTE: There were 13963 observations read from the data set CMEPS.H50.
WHERE PANEL00=4;

NOTE: The data set WORK.H50 has 13963 observations and 3 variables.

```
49
50     PROC SORT DATA= H38;
51         BY DUPERSID;
52     RUN;
```

NOTE: SAS sort was used.

NOTE: There were 14178 observations read from the data set WORK.H38.

NOTE: The data set WORK.H38 has 14178 observations and 3 variables.

```
53
54     PROC SORT DATA= H50;
55         BY DUPERSID;
56     RUN;
```

NOTE: SAS sort was used.

NOTE: There were 13963 observations read from the data set WORK.H50.

NOTE: The data set WORK.H50 has 13963 observations and 3 variables.

```
57
58     /***** GET REQUIRED VARIABLES FROM THE PANEL 4 LONGITUDINAL      *****/
59     /***** FILE.                                                    *****/
60     /***** THE 'WHERE YRINDP4 = 1' LINE SELECTS PERSONS IN BOTH    *****/
61     /***** THE 1999 AND 2000 FILES.                                  *****/
```

```
62
63     DATA H58;
64         SET CMEPS.H58 (KEEP= DUPERSID LONGWTP4 VARPSUP4 VARSTRP4
65                       YRINDP4);
66         WHERE YRINDP4 = 1;
67         DROP YRINDP4;
68     RUN;
```

NOTE: There were 12974 observations read from the data set CMEPS.H58.
WHERE YRINDP4=1;

NOTE: The data set WORK.H58 has 12974 observations and 4 variables.

```
69
70     PROC SORT DATA= H58;
71         BY DUPERSID;
72     RUN;
```

NOTE: SAS sort was used.

NOTE: There were 12974 observations read from the data set WORK.H58.

NOTE: The data set WORK.H58 has 12974 observations and 4 variables.

```
73
74      /***** 1999 ANALYTIC VARIABLES ARE RE-CODED 1 OR 0.      *****/
75      /***** THE 2000 VARIABLES ARE RE-CODED TO 100 OR 0 IN ORDER TO *****/
76      /***** HAVE THE PROC SURVEYMEANS 'MEAN' READ AS A PERCENT. *****/
77
78      /***** THE '2' [NO] VALUES FOR UNINS99 AND UNINS00 ARE RE-CODED *****/
79      /***** TO 0. *****/
80
81      DATA LONGP4;
82          MERGE H38 (IN= A) H50 (IN= B) H58 (IN= C);
83          BY DUPERSID;
84          IF A AND B AND C;
85          IF UNINS99 = 1 THEN UNINS99 = 1;
```

```
86         ELSE UNINS99 = 0;
87         IF UNINS00 = 1 THEN UNINS00 = 100;
88         ELSE UNINS00 = 0;
89         IF TOTEXP99 > 0 THEN TOTEXP99 = 1;
90         ELSE TOTEXP99 = 0;
91         IF TOTEXP00 > 0 THEN TOTEXP00 = 100;
92         ELSE TOTEXP00 = 0;
93     RUN;
```

NOTE: There were 14178 observations read from the data set WORK.H38.
NOTE: There were 13963 observations read from the data set WORK.H50.
NOTE: There were 12974 observations read from the data set WORK.H58.
NOTE: The data set WORK.LONGP4 has 12974 observations and 8 variables.

```
94
95     TITLE4 'OF THOSE WITH SOME EXPENSE IN 1999';
96
97     PROC FREQ DATA= LONGP4;
98         TABLES TOTEXP00 / LIST MISSING;
99         WHERE TOTEXP99 = 1;
100        WEIGHT LONGWTP4;
101    RUN;
```

NOTE: There were 10783 observations read from the data set WORK.LONGP4.
WHERE TOTEXP99=1;
NOTE: The PROCEDURE FREQ printed page 1.

```
102
103     TITLE4 'OF THOSE WITH NO EXPENSE IN 1999';
104
105     PROC FREQ DATA= LONGP4;
106         TABLES TOTEXP00 / LIST MISSING;
107         WHERE TOTEXP99 = 0;
108         WEIGHT LONGWTP4;
109    RUN;
```

NOTE: There were 2191 observations read from the data set WORK.LONGP4.
WHERE TOTEXP99=0;
NOTE: The PROCEDURE FREQ printed page 2.

```
110
111     TITLE4 'INSURANCE STATUS';
112
113     PROC SURVEYMEANS DATA= LONGP4 NOBS SUMWGT MEAN STDERR CLM;
114         VAR UNINS00 ;
115         DOMAIN UNINS99;
116         STRATA VARSTRP4;
117         CLUSTER VARPSUP4;
118         WEIGHT LONGWTP4 ;
119    RUN;
```

NOTE: Only one cluster in a stratum in domain UNINS99 for variable(s) UNINS00. The variance of UNINS00 in that stratum is estimated by zero.

NOTE: There were 12974 observations read from the data set WORK.LONGP4.

NOTE: The PROCEDURE SURVEYMEANS printed page 3.

```
120
121     TITLE4 'HEALTHCARE EXPENDITURES';
122
123     PROC SURVEYMEANS DATA= LONGP4 NOBS SUMWGT MEAN STDERR CLM;
124         VAR TOTEXP00 ;
125         DOMAIN TOTEXP99;
126         STRATA VARSTRP4;
127         CLUSTER VARPSUP4;
128         WEIGHT LONGWTP4; ;
129     RUN;
```

NOTE: Only one cluster in a stratum in domain TOTEXP99 for variable(s) TOTEXP00. The variance of TOTEXP00 in that stratum is

estimated by zero.

NOTE: There were 12974 observations read from the data set WORK.LONGP4.

NOTE: The PROCEDURE SURVEYMEANS printed page 4.

130

131

132

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OF THOSE WITH SOME EXPENSE IN 1999

The FREQ Procedure

TOTAL HEALTH CARE EXP 00

TOTEXP00	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	25,990,412	11.1	25,990,412	11.1
100	209,045,213	88.9	235,035,625	100.0

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OF THOSE WITH NO EXPENSE IN 1999

The FREQ Procedure

TOTAL HEALTH CARE EXP 00

TOTEXP00	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	20,542,158	52.4	20,542,158	52.4
100	18,659,073	47.6	39,201,230	100.0

PROGRAM: C:\MEPS\PROG\EXAMPLE_E3.SAS

INSURANCE STATUS

The SURVEYMEANS Procedure

Data Summary

Number of Strata 113
 Number of Clusters 251
 Number of Observations 12974
 Sum of Weights 274236856

Statistics

Variable	Label	N	Sum of Weights	Mean	Std Error of Mean	Lower 95% CL for Mean	Upper 95% CL for Mean
UNINS00	UNINSURED ALL OF 00	12974	274236856	11.330598	0.542986	10.256950	12.404246

Domain Analysis: UNINS99

UNINSURED ALL OF 99	Variable	Label	N	Sum of Weights	Mean	Std Error of Mean	Lower 95% CL for Mean	Upper 95% CL for Mean
0	UNINS00	UNINSURED ALL OF 00	11261	244881971	3.467562	0.264600	2.944368	3.990757
1	UNINS00	UNINSURED ALL OF 00	1713	29354885	76.924987	1.552855	73.855099	79.994874

PROGRAM: C:\MEPS\PROG\EXAMPLE_E3.SAS

HEALTHCARE EXPENDITURES

The SURVEYMEANS Procedure

Data Summary

Number of Strata 113
 Number of Clusters 251
 Number of Observations 12974
 Sum of Weights 274236856

Statistics

Variable	Label	N	Sum of Weights	Mean	Std Error of Mean	Lower 95% CL for Mean	Upper 95% CL for Mean
TOTEXP00	TOTAL HEALTH CARE EXP 00	12974	274236856	83.031978	0.614394	81.817134	84.246822

Domain Analysis: TOTEXP99

TOTAL HEALTH CARE EXP 99			N	Sum of Weights	Mean	Std Error of Mean	Lower 95% CL for Mean	Upper 95% CL for Mean
Variable	Label							
0	TOTEXP00	TOTAL HEALTH CARE EXP 00	2191	39201230	47.598181	1.327134	44.974202	50.222160
1	TOTEXP00	TOTAL HEALTH CARE EXP 00	10783	235035625	88.941926	0.432282	88.087175	89.796678