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NOTE: SAS (r) Proprietary Software 9.2 (TS1M0)

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NOTE: This session is executing on the XP_PRO platform.

NOTE: SAS initialization used:

real time	0:01.77	
user cpu time	0:00.21	
system cpu time	0:00.93	
Memory		2554k
OS Memory		3292k
Timestamp	12/16/2008 2:00:10 PM	

NOTE: AUTOEXEC processing beginning; file is C:\PROGRA~1\SAS92\SASFOU~1\9.2\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```

1          /*****\
2
3          PROGRAM:      C:\MEPS\PROG\M2.SAS
4
5          DESCRIPTION:  THIS EXAMPLE SHOWS THE NEED FOR USING THE
6                        STRATUM AND PSU VARIABLES WHEN ANALYZING MEPS
7                        DATA FOR NATIONAL ESTIMATES. THAT IS, TAKING
8                        THE MEPS COMPLEX DESIGN PROPERTIES INTO
9                        ACCOUNT.
10
11         INPUT FILE:   C:\MEPS\DATA\H97.SAS7BDAT (2005 FULL-YEAR DATA FILE)
12
13         \*****/
14
15         FOOTNOTE 'PROGRAM: C:\MEPS\PROG\M2.SAS';
16
17         LIBNAME CDATA 'C:\MEPS\DATA' ;
NOTE: Libref CDATA was successfully assigned as follows:
Engine:          V9
Physical Name:  C:\MEPS\DATA
18
19         TITLE1 'AHRQ MEPS DATA USERS WORKSHOP -- SEPTEMBER 2008';
20         TITLE2 'EFFECT OF STRATA AND PSU VARIABLES ON COMPUTING';
21         TITLE3 'STANDARD ERRORS FOR TOTAL HEALTH-CARE EXPENDITURES';
22
23         * READ 2005 CONSOLIDATED FULL YEAR FILE;
24         DATA PUF97 ;
25             SET CDATA.H97 (KEEP= TOTEXP05 VARPSU VARSTR PERWT05F);
26         RUN;

```

NOTE: There were 33961 observations read from the data set CDATA.H97.

NOTE: The data set WORK.PUF97 has 33961 observations and 4 variables.

NOTE: DATA statement used (Total process time):

real time	0:01.66	
user cpu time	0:00.01	
system cpu time	0:00.21	
Memory		586k
OS Memory		4316k
Timestamp	12/16/2008 2:00:12 PM	

```

27
28         /***** ASSUME SIMPLE RANDOM SAMPLE *****/
29
30         PROC SURVEYMEANS DATA= PUF97 NOBS SUM ;
31             WEIGHT PERWT05F ;
32             VAR TOTEXP05 ;
33             ODS OUTPUT STATISTICS= SRSTOT (KEEP= SUM STDDEV) ;
34         RUN;

```

NOTE: Due to nonpositive weights, 1641 observation(s) were deleted.

NOTE: The data set WORK.SRSTOT has 1 observations and 2 variables.

NOTE: The PROCEDURE SURVEYMEANS printed page 1.

NOTE: PROCEDURE SURVEYMEANS used (Total process time):

real time	0:00.35
user cpu time	0:00.03

```

system cpu time    0:00.09
Memory             2781k
OS Memory          6680k
Timestamp          12/16/2008  2:00:12 PM

```

```

35
36      /***** ACCOUNT FOR MEPS COMPLEX SAMPLE DESIGN *****/
37
38      PROC SURVEYMEANS DATA= PUF97 NOBS SUM ;
39          STRATUM VARSTR ;
40          CLUSTER VARPSU ;
41          WEIGHT PERWT05F ;
42          VAR TOTEXP05 ;
43          ODS OUTPUT STATISTICS= COMPTOT (KEEP= SUM STDDEV);
44      RUN;

```

NOTE: Due to nonpositive weights, 1641 observation(s) were deleted.
 NOTE: The data set WORK.COMPTOT has 1 observations and 2 variables.
 NOTE: The PROCEDURE SURVEYMEANS printed page 2.
 NOTE: PROCEDURE SURVEYMEANS used (Total process time):

```

real time          0:00.09
user cpu time      0:00.06
system cpu time    0:00.03
Memory             2371k
OS Memory          7704k
Timestamp          12/16/2008  2:00:12 PM

```

```

45
46      DATA _NULL_;
47          SET SRSTOT;
48          PUT 'SRS TOTAL IS ' SUM DOLLAR22.2 ;
49          PUT 'SRS SE TOTAL IS ' STDDEV DOLLAR22.2 ;
50      RUN;

```

SRS TOTAL IS \$1,023,763,462,949.70
 SRS SE TOTAL IS \$23,916,914,371.13
 NOTE: There were 1 observations read from the data set WORK.SRSTOT.
 NOTE: DATA statement used (Total process time):

```

real time          0:00.01
user cpu time      0:00.00
system cpu time    0:00.01
Memory             169k
OS Memory          6904k
Timestamp          12/16/2008  2:00:12 PM

```

```

51
52      DATA _NULL_;
53          SET COMPTOT;
54          PUT 'COMPLEX DESIGN TOTAL IS ' SUM DOLLAR22.2 ;
55          PUT 'COMPLEX DESIGN TOTAL SE IS ' STDDEV DOLLAR22.2 ;
56      RUN;

```

COMPLEX DESIGN TOTAL IS \$1,023,763,462,949.70
 COMPLEX DESIGN TOTAL SE IS \$33,630,954,197.88
 NOTE: There were 1 observations read from the data set WORK.COMPTOT.
 NOTE: DATA statement used (Total process time):

```

real time          0:00.01
user cpu time      0:00.00
system cpu time    0:00.00
Memory             169k
OS Memory          6904k
Timestamp          12/16/2008  2:00:12 PM

```

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
 NOTE: The SAS System used:

```

real time          0:04.30
user cpu time      0:00.35
system cpu time    0:01.40
Memory             6438k
OS Memory          7704k
Timestamp          12/16/2008  2:00:12 PM

```

The SURVEYMEANS Procedure

Data Summary

Number of Observations	33961
Number of Observations Used	32320
Number of Obs with Nonpositive Weights	1641
Sum of Weights	296185002

Statistics

Variable	Label	N	Sum	Std Dev
TOTEXP05	TOTAL HEALTH CARE EXP 05	32320	1.0237635E12	23916914371

The SURVEYMEANS Procedure

Data Summary

Number of Strata	203
Number of Clusters	452
Number of Observations	33961
Number of Observations Used	32320
Number of Obs with Nonpositive Weights	1641
Sum of Weights	296185002

Statistics

Variable	Label	N	Sum	Std Dev
TOTEXP05	TOTAL HEALTH CARE EXP 05	32320	1.0237635E12	33630954198