

1
15:06 Saturday, January 16, 2021

The SAS System

```
1          ;*';*";*//quit;run;
2          OPTIONS PAGENO=MIN;
3          %LET _CLIENTTASKLABEL='01.15.2020_(HPC)_Basic_SAS_Test';
4          %LET _CLIENTPROCESSFLOWNAME='Process Flow';
5          %LET _CLIENTPROJECTPATH='';
6          %LET _CLIENTPROJECTPATHHOST='';
7          %LET _CLIENTPROJECTNAME='';
8          %LET
_SASPROGRAMFILE='M:\Pine_Piety\Users\Charu\HPC\01.15.2020_(HPC)_Basic_SAS
_Test.sas';
9          %LET _SASPROGRAMFILEHOST='IFH-CTXAPP01';
10
11          ODS _ALL_ CLOSE;
12          OPTIONS DEV=PNG;
13          GOPTIONS XPIXELS=0 YPIXELS=0;
14          FILENAME EGSR TEMP;
15          ODS tagsets.sasreport13(ID=EGSR) FILE=EGSR
16              STYLE=HTMLBlue
17
STYLE SHEET=(URL="file:///C:/Program%20Files%20(x86)/SASHome/x86/SASEnterp
riseGuide/7.1/Styles/HTMLBlue.css")
18              NOGTITLE
19              NOGFOOTNOTE
20              GPATH=&sasworklocation
21              ENCODING=UTF8
22              options(rolap="on")
23          ;
NOTE: Writing TAGSETS.SASREPORT13(EGSR) Body file: EGSR
24
25          GOPTIONS ACCESSIBLE;
26
/*****
*****
27          Project: High Performance Computing- Testing
28          Program: Running some basic functions
29          Run twice
30          Dataset: nhanes3(smaller), nh(big data)
31          Analyst: Charu Verma
32          Date: 01.15.2021*/
33          libname lib "M:\Pine_Piety\Users\Charu\HPC";
NOTE: Libref LIB was successfully assigned as follows:
      Engine:          V9
      Physical Name: M:\Pine_Piety\Users\Charu\HPC
34          data test;
35          set lib.nhanes_bigdata;/*Change dataset name here*/
36          run;
```

NOTE: There were 40104010 observations read from the data set
LIB.NHANES_BIGDATA.

NOTE: The data set WORK.TEST has 40104010 observations and 43 variables.

NOTE: DATA statement used (Total process time):

real time 3:13.52
cpu time 17.71 seconds

```
37      proc contents data=test;  
38      run;
```

NOTE: PROCEDURE CONTENTS used (Total process time):
real time 0.10 seconds
cpu time 0.03 seconds

```
39      options number pageno=1 ls=79 ps=59 ;  
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```

```
40      options formchar = "|----|+|---+=|-/\\<>*";  
41      proc printto new  
41      !  
print='M:\Pine_Piety\Users\Charu\HPC\01162020_(HPC)_BasicSAS_test_bi  
41      ! gdata.txt';  
42      run;
```

NOTE: PROCEDURE PRINTTO used (Total process time):
real time 0.17 seconds
cpu time 0.00 seconds

```
43      /*Descriptive statistics*/  
44      title 'Descriptive statistics';  
45      proc means data = test;  
46      var _numeric_;  
47      run;
```

NOTE: There were 40104010 observations read from the data set WORK.TEST.
NOTE: The PROCEDURE MEANS printed pages 1-2.
NOTE: PROCEDURE MEANS used (Total process time):
real time 56.56 seconds
cpu time 3:32.73

```
48      proc anova data=test;  
49      class sex;  
50      model age education sbp dbp = sex;  
51      run;
```

NOTE: The PROCEDURE ANOVA printed pages 3-7.
NOTE: PROCEDURE ANOVA used (Total process time):
real time 24.03 seconds
cpu time 23.93 seconds

```
52      proc freq data=test;
```

```

53      tables sex  dmaethnr dmaracer dmarethn dmpmetro death
dentalhealth
53      ! hipfract marital
54      cancer cholesterol colon cvd diabetes hypertension health
stroke;
55      run;

```

NOTE: There were 40104010 observations read from the data set WORK.TEST.
NOTE: The PROCEDURE FREQ printed pages 8-11.
NOTE: PROCEDURE FREQ used (Total process time):

real time	21.30 seconds
cpu time	21.31 seconds

```

56      title 'Correlation-Age and Diastolic BP';
57      proc corr data=test nomiss spearman;
58      var age dbp;
59      run;

```

NOTE: The PROCEDURE CORR printed page 12.
NOTE: PROCEDURE CORR used (Total process time):

real time	49.32 seconds
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cpu time	49.29 seconds
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```

60      proc summary data=test;
61      var hipfract cancer colon cvd stroke;
62      class seqn;
63      output out=work.summary1 (drop=_type_freq_)
64      sum= hipfracttot cancertot colontot cvdtot stroketot;
65      run;

```

WARNING: The variable _type_freq_ in the DROP, KEEP, or RENAME list has never been referenced.

NOTE: There were 40104010 observations read from the data set WORK.TEST.
NOTE: The data set WORK.SUMMARY1 has 4011 observations and 8 variables.
NOTE: PROCEDURE SUMMARY used (Total process time):

real time	13.68 seconds
cpu time	34.35 seconds

```

66      proc sort data=work.summary1 out=total;by seqn;run;

```

NOTE: There were 4011 observations read from the data set WORK.SUMMARY1.
NOTE: The data set WORK.TOTAL has 4011 observations and 8 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	0.05 seconds
cpu time	0.00 seconds

```
67      proc sort data=test; by seqn;run;
```

NOTE: There were 40104010 observations read from the data set WORK.TEST.

NOTE: The data set WORK.TEST has 40104010 observations and 43 variables.

NOTE: PROCEDURE SORT used (Total process time):

```
      real time          34.89 seconds
      cpu time           1:05.60
```

```
68      proc sql;
69      create table tot_summary as
70      select *
71      from summary1  a inner join test b
72      on a.seqn =b.seqn;
```

WARNING: Variable SEQN already exists on file WORK.TOT_SUMMARY.

NOTE: Table WORK.TOT_SUMMARY created, with 40104010 rows and 50 columns.

```
73      quit;
```

NOTE: PROCEDURE SQL used (Total process time):

```
      real time          31.33 seconds
      cpu time           29.53 seconds
```

```
74      proc tabulate data= tot_summary;
75      title 'Table';
76      class sex;
77      var hipfracttot  cancertot  colontot  cvdtot  stroketot;
78      table sex * (N Mean Max) ,
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```
79      hipfracttot  cancertot  colontot  cvdtot  stroketot;
80      run;
```

NOTE: There were 40104010 observations read from the data set WORK.TOT_SUMMARY.

NOTE: The PROCEDURE TABULATE printed pages 13-14.

NOTE: PROCEDURE TABULATE used (Total process time):

```
      real time          11.94 seconds
      cpu time           14.65 seconds
```

```
81      proc format;
82      value race
83      1=      "Non-Hispanic white"
84      2=      "Non-Hispanic black"
85      3=      "Mexican-American"
86      4=      "Other"
87      ;
```

NOTE: Format RACE has been output.

```
88      value gender
89      1=      "Male"
```

```
90          2=      "Female"
91          ;
NOTE: Format GENDER has been output.
92          value health
93          1=      "Excellent"
94          2=      "Very good"
95          3=      "Good"
96          4=      "Fair"
97          5=      "Poor"
98          8=      "Blank but applicable"
99          9=      "Dont know"
100         ;
```

NOTE: Format HEALTH has been output.

```
101
102         value smoke
103         1=      "Current"
104         2=      "Former"
105         3=      "Never"
106         ;
```

NOTE: Format SMOKE has been output.

```
107         run;
```

NOTE: PROCEDURE FORMAT used (Total process time):

```
      real time          0.02 seconds
      cpu time           0.00 seconds
```

```
108         data summary_rep;
109         set tot_summary;
110         format sex gender. smoking smoke. health health. dmarethn
race.;
111         run;
```

NOTE: There were 40104010 observations read from the data set
WORK.TOT_SUMMARY.

NOTE: The data set WORK.SUMMARY_REP has 40104010 observations and 50
variables.

NOTE: DATA statement used (Total process time):

```
      real time          23.84 seconds
```

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```
      cpu time           22.32 seconds
```

```
112
113         proc report data= summary_rep;
114         title 'Data Report';
115         column sex health smoking hipfracttot cancertot colontot
cvdtot
115         ! stroketot;
116         define sex/group;
117         define health/group;
```

```
118         define smoking/group;
119         define hipfracttot/analysis sum width=5;
120         define cancertot/analysis sum width=5;
121         define colontot/analysis sum width=5;
122         define stroketot/analysis sum width=5;
123
124         run;
```

NOTE: There were 40104010 observations read from the data set
WORK.SUMMARY_REP.

NOTE: The PROCEDURE REPORT printed page 15.

NOTE: PROCEDURE REPORT used (Total process time):

real time	12.24 seconds
cpu time	22.21 seconds

```
125
126
127
128         GOPTIONS NOACCESSIBLE;
129         %LET _CLIENTTASKLABEL=;
130         %LET _CLIENTPROCESSFLOWNAME=;
131         %LET _CLIENTPROJECTPATH=;
132         %LET _CLIENTPROJECTPATHHOST=;
133         %LET _CLIENTPROJECTNAME=;
134         %LET _SASPROGRAMFILE=;
135         %LET _SASPROGRAMFILEHOST=;
136
137         ;*';*";*/;quit;run;
138         ODS _ALL_ CLOSE;
139
140
141         QUIT; RUN;
142
```