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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: SAS initialization used:

real time	3.23 seconds
cpu time	0.49 seconds

```
1 *** ST210A_D;
2 *** c:\sasjobs\stat210\JL2003;
3
4 libname ncgs 'C:\sasjobs\stat210';
```

NOTE: Libref NCGS was successfully assigned as follows:

Engine:	V604
Physical Name:	C:\sasjobs\stat210

```
5
6 DATA ONE; SET ncgs.exercise; IF EX6;
7 TITLE1 'NCGS DATA';
8 KEEP TRETGRP TRIGL AGE;
9 IF TRETGRP=3 OR TRETGRP=5;
10
11 title2 'frequency distributions of age, a coarse distribution';
12 title3 'combined groups, one group example';
13
```

NOTE: There were 916 observations read from the data set NCGS.EXERCISE.

NOTE: The data set WORK.ONE has 197 observations and 3 variables.

NOTE: DATA statement used:

real time	0.32 seconds
cpu time	0.03 seconds

```
14 PROC UNIVARIATE PLOT normal; VAR age;
15 TITLE4 'SIMPLE UNIVARIATE DISTRIBUTIONS AND HISTOGRAMS';
```

NOTE: PROCEDURE UNIVARIATE used:

real time	0.23 seconds
cpu time	0.03 seconds

```
16 PROC CHART;  
17 VBAR age / MIDPOINTS = 25 TO 75 by 5;
```

NOTE: PROCEDURE CHART used:

```
real time      0.06 seconds  
cpu time       0.00 seconds
```

```
18 PROC freq DATA=one; tables age / out=pcts;
```

NOTE: There were 197 observations read from the data set WORK.ONE.

NOTE: The data set WORK.PCTS has 43 observations and 3 variables.

NOTE: PROCEDURE FREQ used:

```
real time      0.03 seconds  
cpu time       0.00 seconds
```

```
19 proc plot;  
20 plot percent*age = '*';  
21
```

NOTE: There were 43 observations read from the data set WORK.PCTS.

NOTE: PROCEDURE PLOT used:

```
real time      0.01 seconds  
cpu time       0.00 seconds
```

```
22 proc kde out=kernel bwm=0.75 data=one; var age;  
23 title4 'kernel smoothed density estimates';
```

NOTE: The data set WORK.KERNEL has 401 observations and 3 variables.

NOTE: PROCEDURE KDE used:

```
real time      0.04 seconds  
cpu time       0.00 seconds
```

```
24 proc plot; plot density*age;  
25  
26 RUN;
```

```
27
```

NOTE: PROCEDURE PLOT used:
real time 0.01 seconds
cpu time 0.01 seconds

28 DATA one; SET one;
29 title2 'frequency distributions of trigl, a fine distribution';
30 title3 'two group example: 3= drug group, 5= placebo group';
31

NOTE: There were 197 observations read from the data set WORK.ONE.

NOTE: The data set WORK.ONE has 197 observations and 3 variables.

NOTE: DATA statement used:
real time 0.00 seconds
cpu time 0.00 seconds

32 proc sort; by tretgrp;
33

NOTE: There were 197 observations read from the data set WORK.ONE.

NOTE: The data set WORK.ONE has 197 observations and 3 variables.

NOTE: PROCEDURE SORT used:
real time 0.04 seconds
cpu time 0.00 seconds

34 PROC UNIVARIATE normal plot; VAR TRIGL; by tretgrp;
35

NOTE: Formatted values of BY variable TRETGRP truncated to 8 characters in side-by-side box plots.

NOTE: PROCEDURE UNIVARIATE used:
real time 0.21 seconds
cpu time 0.03 seconds

36 proc kde out=kernel bwm=0.75;
37 var trigl; by tretgrp;
38 title4 'kernel smoothed density estimates';
39

NOTE: The data set WORK.KERNEL has 802 observations and 4 variables.

```
real time      0.01 seconds
cpu time       0.01 seconds
```

```
40 data kernel; set kernel;
41 density3=.; if tretgrp=3 then density3=density;
42 density5=.; if tretgrp=5 then density5=density;
43
```

NOTE: There were 802 observations read from the data set WORK.KERNEL.

NOTE: The data set WORK.KERNEL has 802 observations and 6 variables.

NOTE: DATA statement used:

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

```
44 PROC PLOT;
45     PLOT density3*TRIGL = 'D'
46         density5*TRIGL = 'P'
47     / OVERLAY;
48 TITLE5 'D=DRUG GROUP, P=PLACEBO GROUP';
49
50 RUN;
```

51

NOTE: There were 802 observations read from the data set WORK.KERNEL.

NOTE: PROCEDURE PLOT used:

```
real time      0.04 seconds
cpu time       0.00 seconds
```

```
52 DATA one; SET one;
53 title2 'frequency distributions of log trigl';
54 title3 'two group example: 3= drug group, 5= placebo group';
55
56 ltrigl = log(trigl);
57
```

NOTE: There were 197 observations read from the data set WORK.ONE.

NOTE: The data set WORK.ONE has 197 observations and 4 variables.

NOTE: DATA statement used:

cpu time 0.01 seconds

```
58 proc sort; by tretgrp;  
59
```

NOTE: There were 197 observations read from the data set WORK.ONE.

NOTE: The data set WORK.ONE has 197 observations and 4 variables.

NOTE: PROCEDURE SORT used:

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

```
60 PROC UNIVARIATE normal PLOT; VAR LTRIGL; BY TRETGRP;  
61 TITLE4 'SIMPLE UNIVARIATE DISTRIBUTIONS AND HISTOGRAMS';  
62
```

NOTE: Formatted values of BY variable TRETGRP truncated to 8 characters in side-by-side box plots.

NOTE: PROCEDURE UNIVARIATE used:

```
real time 0.07 seconds  
cpu time 0.03 seconds
```

```
63 proc kde out=kernel bwm=0.75;  
64 var ltrigl; by tretgrp;  
65 title4 'kernel smoothed density estimates';  
66
```

NOTE: The data set WORK.KERNEL has 802 observations and 4 variables.

NOTE: PROCEDURE KDE used:

```
real time 0.07 seconds  
cpu time 0.01 seconds
```

```
67 data kernel; set kernel;  
68 density3=.; if tretgrp=3 then density3=density;  
69 density5=.; if tretgrp=5 then density5=density;  
70
```

NOTE: There were 802 observations read from the data set WORK.KERNEL.

NOTE: The data set WORK.KERNEL has 802 observations and 6 variables.

NOTE: DATA statement used:

cpu time

0.01 seconds

```
71 PROC PLOT;  
72     PLOT density3*LTRIGL = 'D'  
73         density5*LTRIGL = 'P'  
74     / OVERLAY;  
75 TITLE5 'D=DRUG GROUP, P=PLACEBO GROUP';  
76  
77 RUN;  
  
78  
79 RUN;  
  
80 □
```