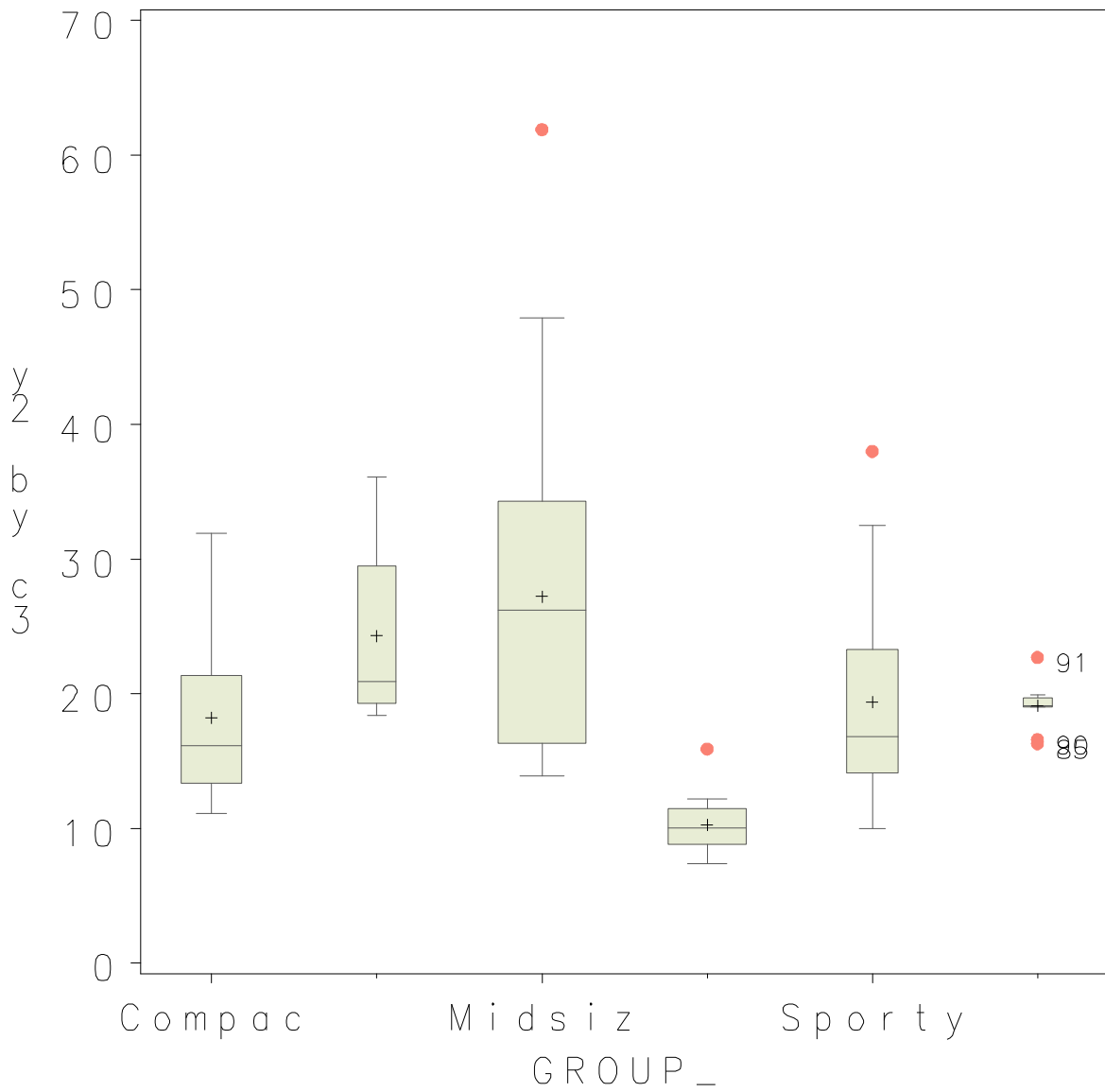
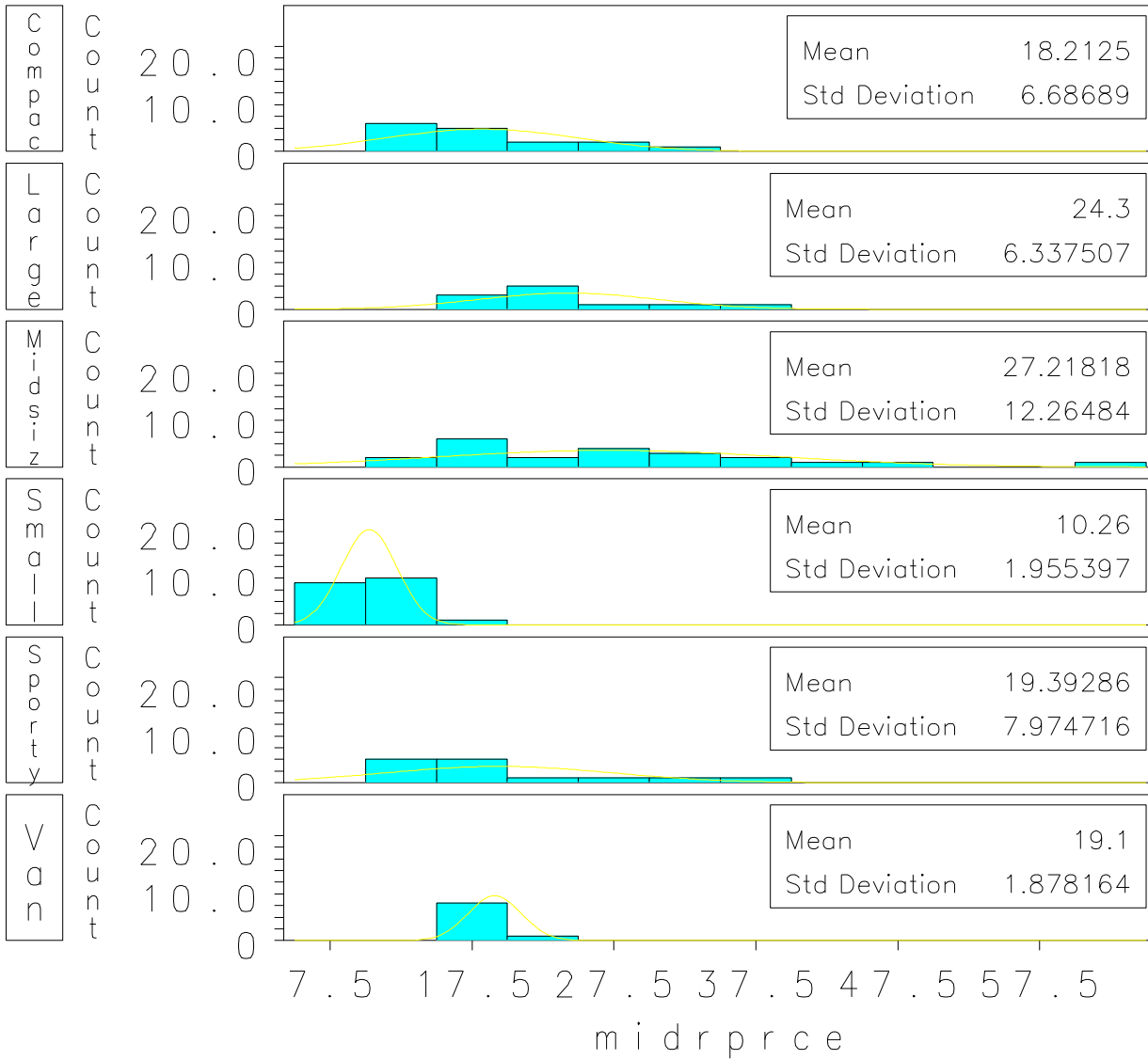


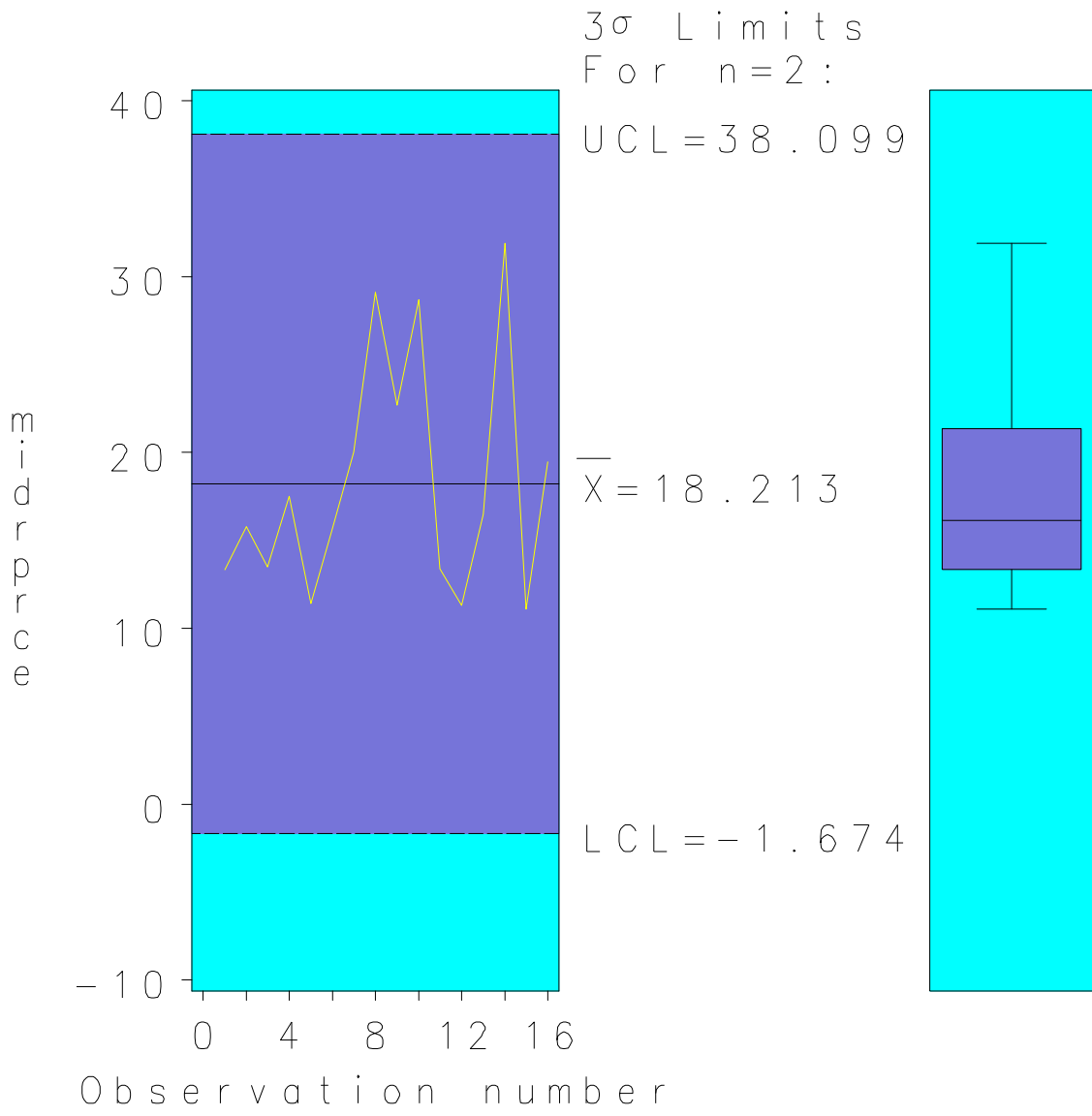
Box plot of responsecars93: y2 by c3



Distribution Plot; cars93: y2



Control chart: cars93:y2:c3= Compac



DIFFERENT MID VALUES - y2 c3=Compac

the mean, Y2	the median, Y2	the most frequent value, Y2	GEOMETRIC MEAN	HARMONIC MEAN	SAMPLE SIZE
18.2125	16.15	.	17.1925	16.3176	16

Five Number Summary - y2 c3=Compac

the smallest value, Y2	the lower quartile, Y2	the median, Y2	the upper quartile, Y2	the largest value, Y2
11.1	13.35	16.15	21.35	31.9

Measures of Variability - cars93:c3=Compac y2

the range, Y2	the interquartile range, Y2	the standard deviation, Y2
20.8	8	6.68689

Two-side 95% CI - cars93:c3=Compac y2

Lower 95% limit	LOWER mean 95% CONFIDENCE LEVEL	sample mean	UPPER mean 95% CONFIDENCE LEVEL	Upper 95% limit
3.96	14.65	18.21	21.78	32.47

95% Confidence Intervals cars93:c3=Compac y2

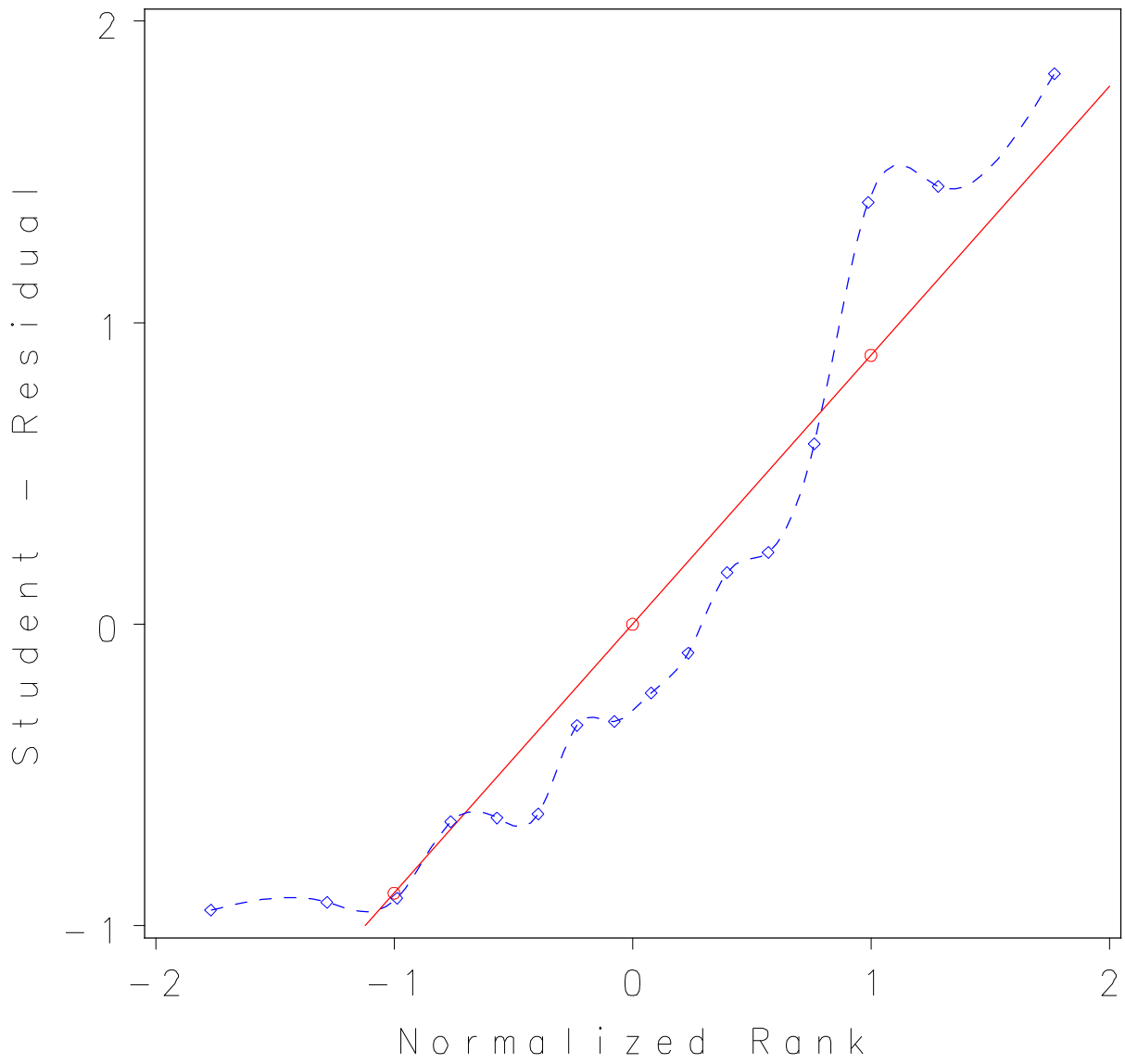
Statistic	Lower Confidence Limit	Estimate	Upper Confidence Limit
Variance	24.4000	44.7145	107.107
Std Dev	4.9396	6.6869	10.349

***95% Confidence Interval for the median y2 c3=Compac
Hutson, A. D. (1999)***

***Calculating Nonparametric Confidence Intervals for Quantiles Using Fractional Order Statistics.
Journal of Applied Statistics, 26: 343-353.***

P50	P27_22	P72_77
16.15	13.3628	21.0044

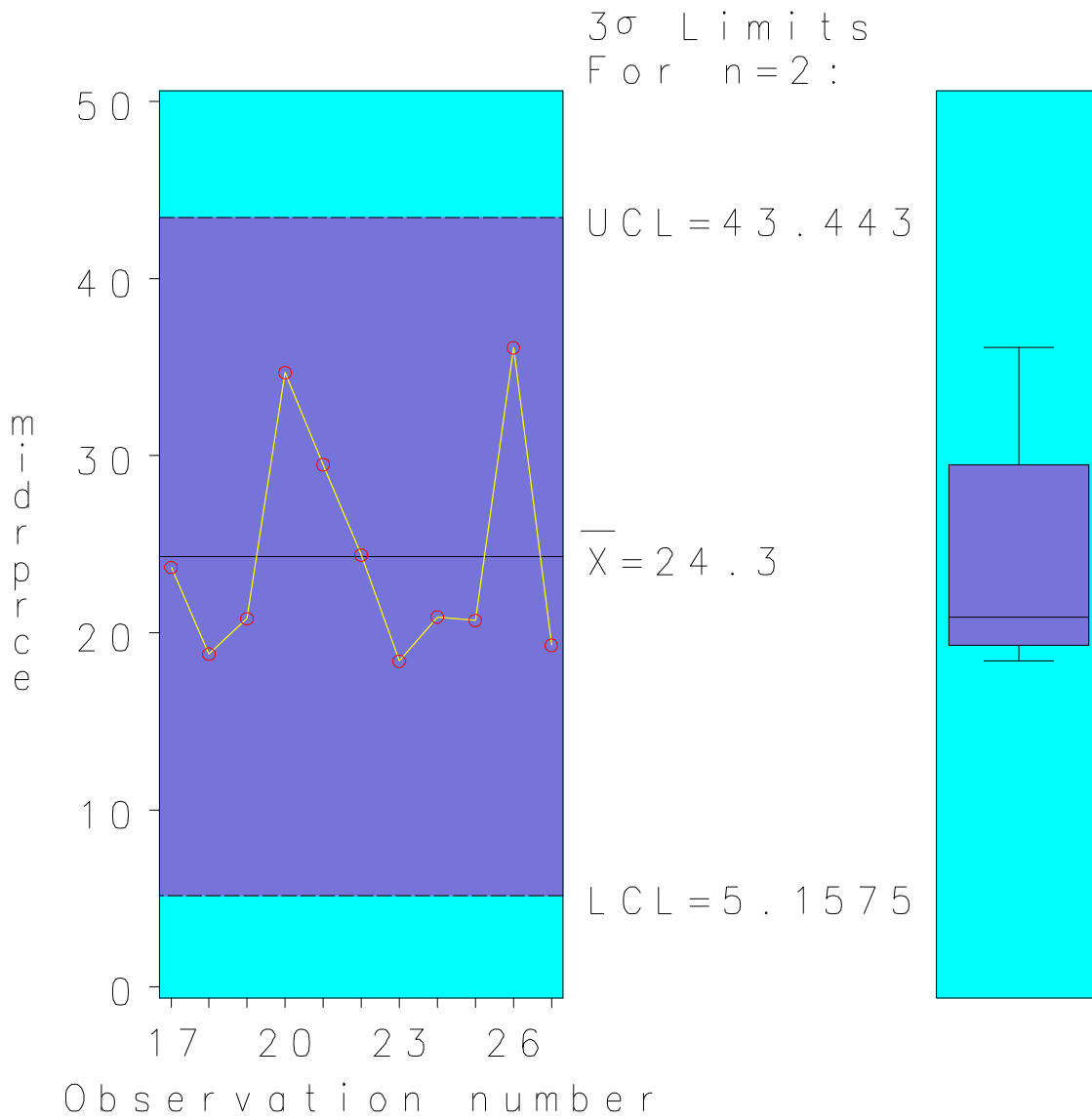
Normal Probability Plot— cars93 : c3=Compac y2



D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST - cars93:c3=Compac y2
Reference:The American Statistician 1990 Vol:44 No:4 page 316-321

Skewness	P-value for Skewness	Kurtosis Statistic	P-value for Kurtosis	CHISQUARE VALUE for Omnibus test	P-VALUE - D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST
0.85902	0.090707	2.50234	0.98637	2.86207	0.23906

Control chart: cars93:y2:c3= Large



DIFFERENT MID VALUES - y2 c3=Large

the mean, Y2	the median, Y2	the most frequent value, Y2	GEOMETRIC MEAN	HARMONIC MEAN	SAMPLE SIZE
24.3	20.9	.	23.6333	23.0542	11

Five Number Summary - y2 c3=Large

the smallest value, Y2	the lower quartile, Y2	the median, Y2	the upper quartile, Y2	the largest value, Y2
18.4	19.3	20.9	29.5	36.1

Measures of Variability - cars93:c3=Large y2

the range, Y2	the interquartile range, Y2	the standard deviation, Y2
17.7	10.2	6.33751

Two-side 95% CI - cars93:c3=Large y2

Lower 95% limit	LOWER mean 95% CONFIDENCE LEVEL	sample mean	UPPER mean 95% CONFIDENCE LEVEL	Upper 95% limit
10.18	20.04	24.30	28.56	38.42

95% Confidence Intervals cars93:c3=Large y2

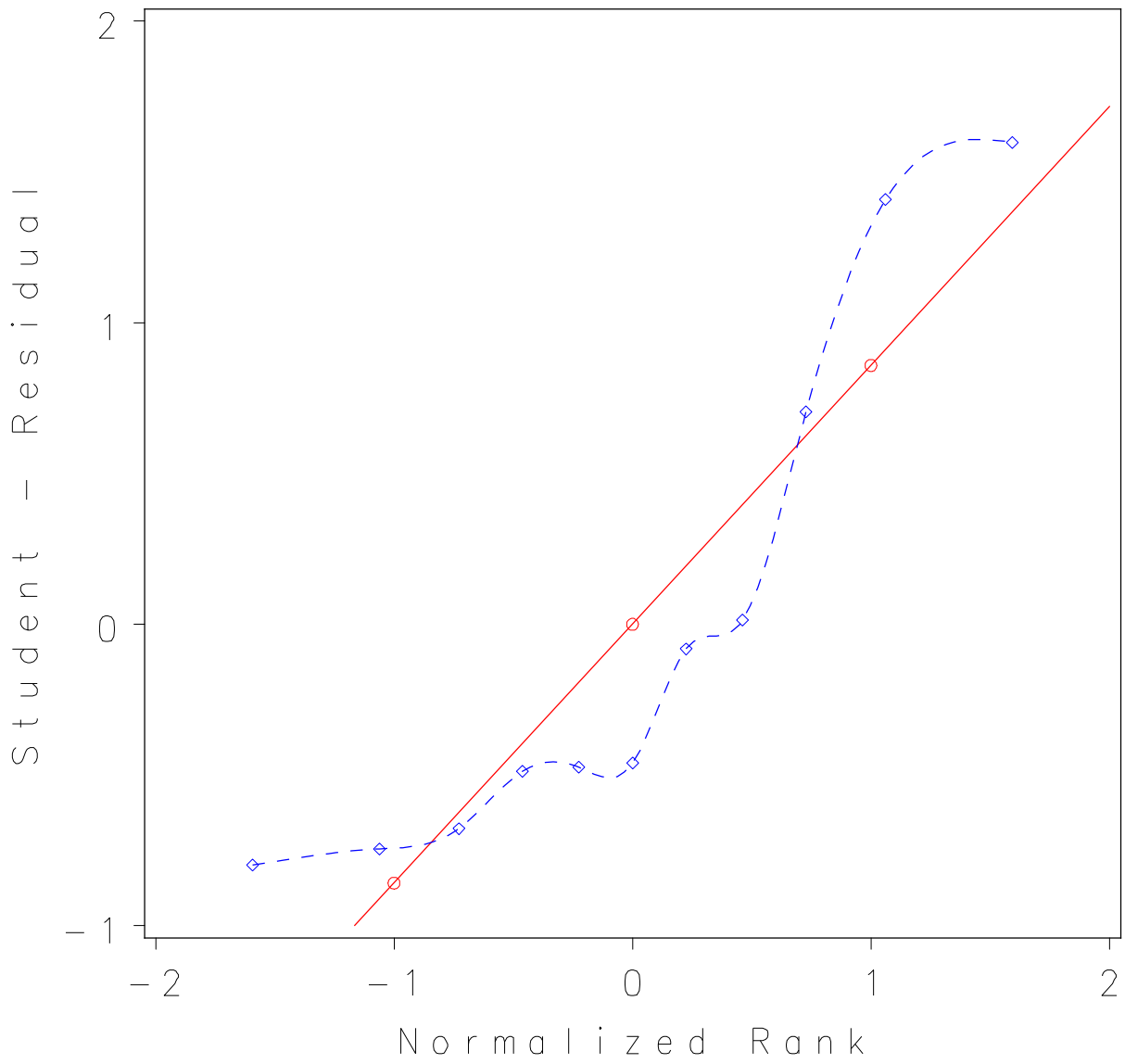
Statistic	Lower Confidence Limit	Estimate	Upper Confidence Limit
Variance	19.6083	40.1640	123.697
Std Dev	4.4281	6.3375	11.122

**95% Confidence Interval for the median y_2 $c_3=Large$
Hutson, A. D. (1999)**

**Calculating Nonparametric Confidence Intervals for Quantiles Using Fractional Order Statistics.
Journal of Applied Statistics, 26: 343-353.**

P50	P23_37	P76_62
20.9	19.2028	30.5113

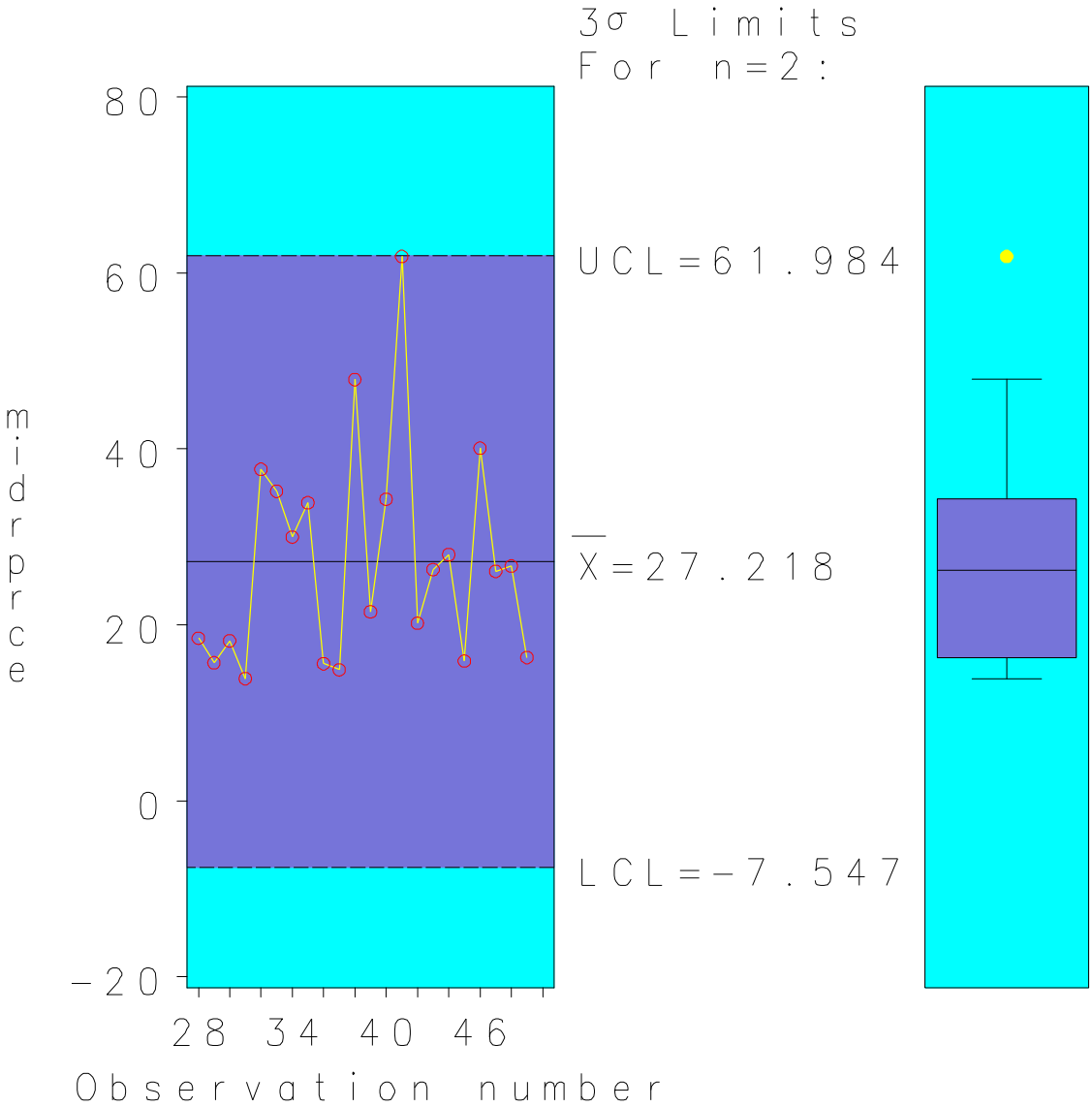
Normal Probability Plot— cars93 : c3=Large y2



D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST - cars93:c3=Large y2
Reference: The American Statistician 1990 Vol:44 No:4 page 316-321

Skewness	P-value for Skewness	Kurtosis Statistic	P-value for Kurtosis	CHISQUARE VALUE for Omnibus test	P-VALUE - D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST
0.94057	0.095766	2.38808	0.96238	2.77689	0.24946

Control chart: cars93:y2:c3= Midsiz



DIFFERENT MID VALUES - y2 c3=Midsiz

the mean, Y2	the median, Y2	the most frequent value, Y2	GEOMETRIC MEAN	HARMONIC MEAN	SAMPLE SIZE
27.2182	26.2	.	24.9521	23.0557	22

Five Number Summary - y2 c3=Midsiz

the smallest value, Y2	the lower quartile, Y2	the median, Y2	the upper quartile, Y2	the largest value, Y2
13.9	16.3	26.2	34.3	61.9

Measures of Variability - cars93:c3=Midsiz.y2

the range, Y2	the interquartile range, Y2	the standard deviation, Y2
48	18	12.2648

Two-side 95% CI - cars93:c3=Midsiz y2

Lower 95% limit	LOWER mean 95% CONFIDENCE LEVEL	sample mean	UPPER mean 95% CONFIDENCE LEVEL	Upper 95% limit
1.71	21.78	27.22	32.66	52.72

95% Confidence Intervals cars93:c3=Midsiz y2

Statistic	Lower Confidence Limit	Estimate	Upper Confidence Limit
Variance	89.0376	150.426	307.205
Std Dev	9.4360	12.265	17.527

**95% Confidence Interval for the median y_2 c_3 =Midsiz
Hutson, A. D. (1999)**

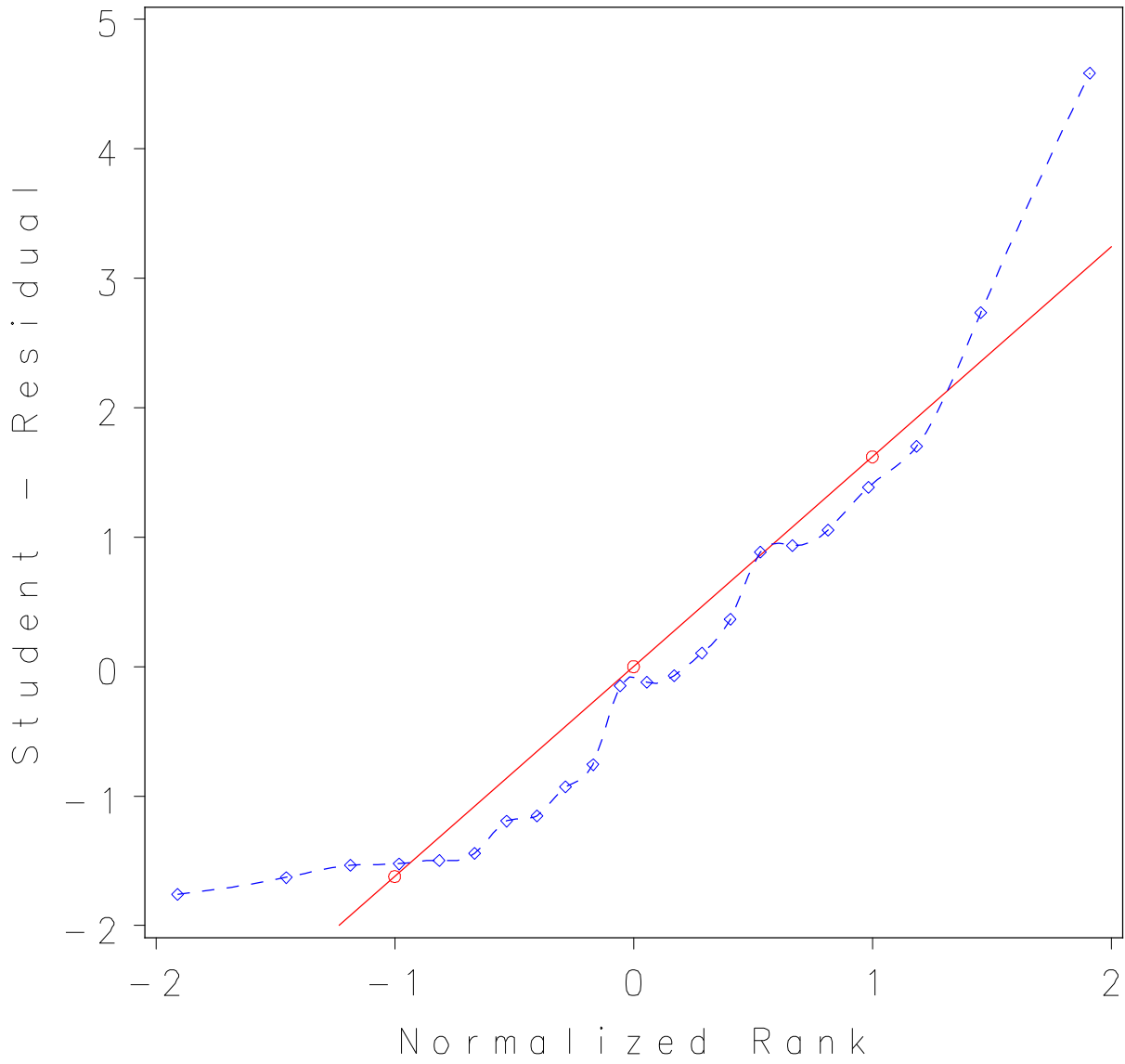
**Calculating Nonparametric Confidence Intervals for Quantiles Using Fractional Order Statistics.
Journal of Applied Statistics, 26: 343-353.**

P50	P30_19	P69_80
26.2	18.0959	33.9219

Potential outliers- y2 c3=Midsiz

OBS	ID	Y2	STUDENT	OUTLIER
38	38	47.9	2.73313	*
41	41	61.9	4.58324	*****

Normal Probability Plot— cars93 : c3= Midsiz y2



D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST - cars93:c3=Midsiz y2
Reference: The American Statistician 1990 Vol:44 No:4 page 316-321

Skewness	P-value for Skewness	Kurtosis Statistic	P-value for Kurtosis	CHISQUARE VALUE for Omnibus test	P-VALUE - D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST
1.13665	0.017811	4.00098	0.12237	8.00139	0.018303

Possible outlier obs:cars93: y2 c3=Midsiz

ID	midrprce
41	61.9

Five Number Summary - minus outlier - cars93:y2 c3=Midsiz

the smallest value, Y2	the lower quartile, Y2	the median, Y2	the upper quartile, Y2	the largest value, Y2
13.9	16.3	26.1	33.9	47.9

Measures of Variability- minus outlier- cars93:y2 c3=Midsiz

the range, Y2	the interquartile range, Y2	the standard deviation, Y2
34	17.6	9.74384

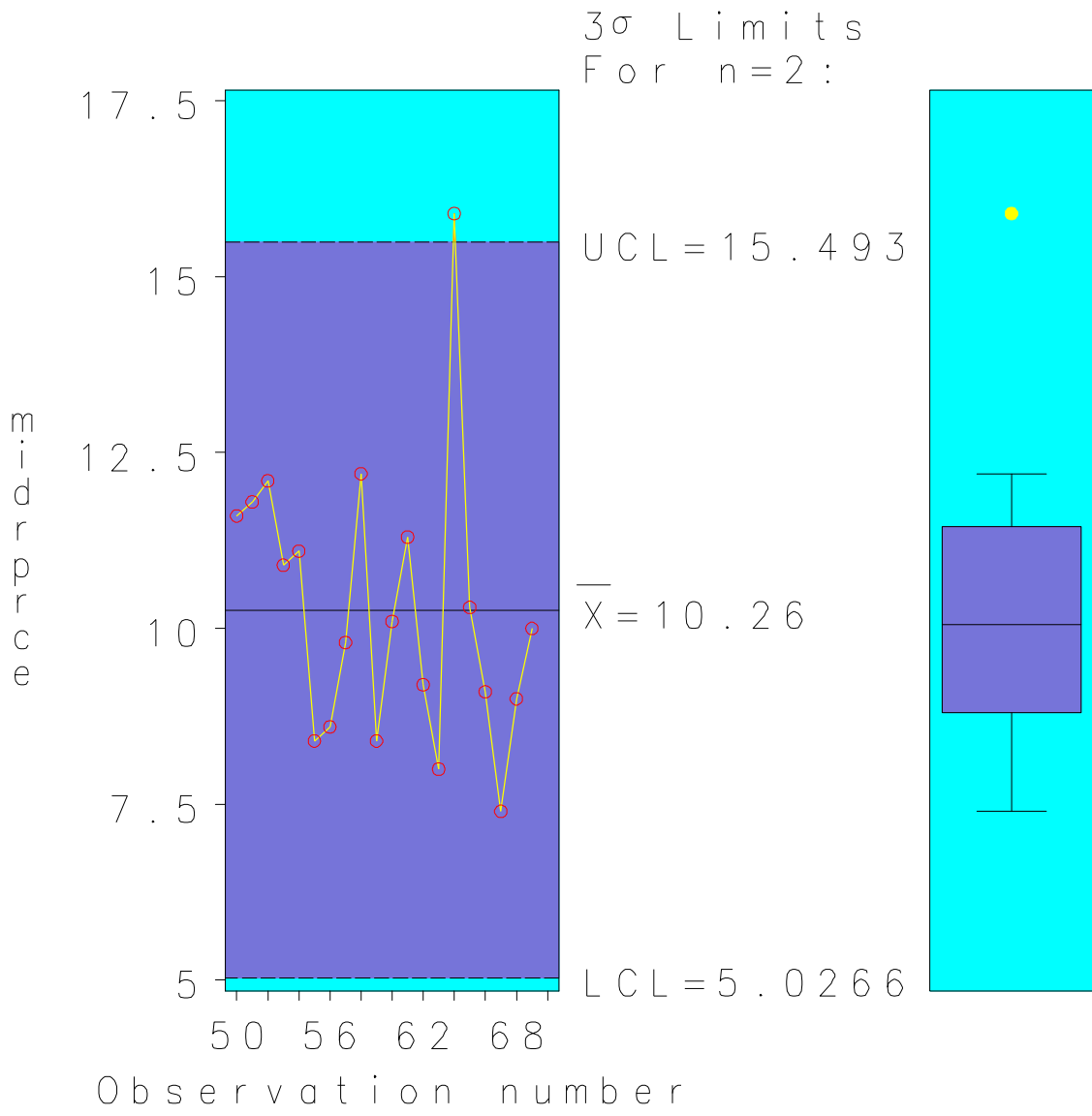
95% Confidence Intervals -minus outlier cars93:y2 c3=Midsiz

Statistic	Lower Confidence Limit	Estimate	Upper Confidence Limit
Variance	55.5712	94.9423	197.987
Std Dev	7.4546	9.7438	14.071

Two-side 95% CI -outlier minus cars93: y2 c3=Midsiz

Lower 95% limit	LOWER mean 95% CONFIDENCE LEVEL	sample mean	UPPER mean 95% CONFIDENCE LEVEL	Upper 95% limit
5.241	21.131	25.567	30.002	45.892

Control chart: cars93:y2:c3= Small



DIFFERENT MID VALUES - y2 c3=Small

the mean, Y2	the median, Y2	the most frequent value, Y2	GEOMETRIC MEAN	HARMONIC MEAN	SAMPLE SIZE
10.26	10.05	8.4	10.0974	9.94610	20

Five Number Summary - y2 c3=Small

the smallest value, Y2	the lower quartile, Y2	the median, Y2	the upper quartile, Y2	the largest value, Y2
7.4	8.8	10.05	11.45	15.9

Measures of Variability - cars93:c3=Small y2

the range, Y2	the interquartile range, Y2	the standard deviation, Y2
8.5	2.65	1.95540

Two-side 95% CI - cars93:c3=Small y2

Lower 95% limit	LOWER mean 95% CONFIDENCE LEVEL	sample mean	UPPER mean 95% CONFIDENCE LEVEL	Upper 95% limit
6.17	9.34	10.26	11.18	14.35

95% Confidence Intervals cars93:c3=Small y2

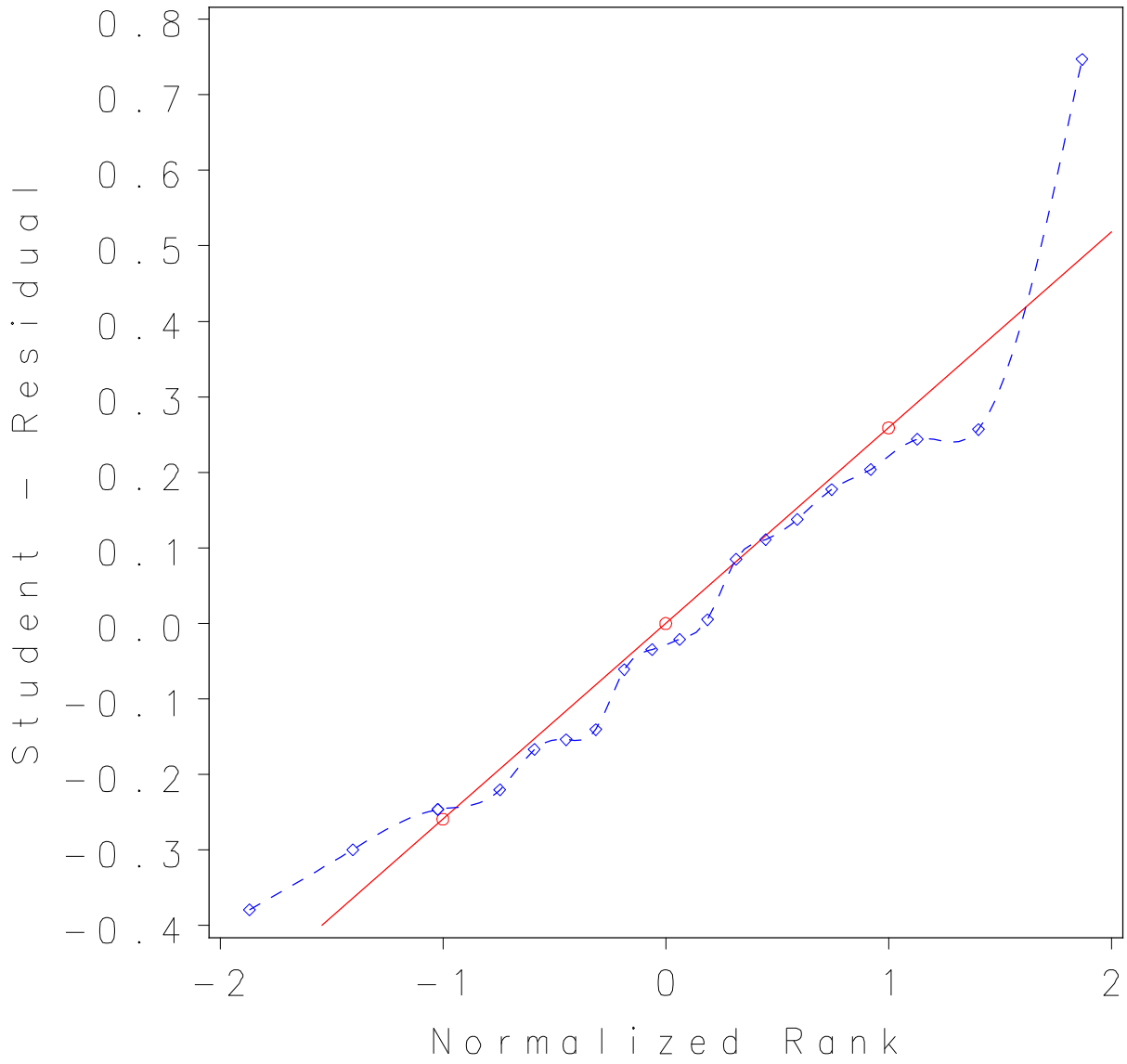
Statistic	Lower Confidence Limit	Estimate	Upper Confidence Limit
Variance	2.21135	3.82358	8.15672
Std Dev	1.48706	1.95540	2.85600

**95% Confidence Interval for the median y_2 $c_3=Small$
Hutson, A. D. (1999)**

**Calculating Nonparametric Confidence Intervals for Quantiles Using Fractional Order Statistics.
Journal of Applied Statistics, 26: 343-353.**

P50	P29_33	P70_66
10.05	9.01609	11.2678

Normal Probability Plot— cars93 : c3= Small y2



D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST - cars93:c3=Small y2
Reference:The American Statistician 1990 Vol:44 No:4 page 316-321

Skewness	P-value for Skewness	Kurtosis Statistic	P-value for Kurtosis	CHISQUARE VALUE for Omnibus test	P-VALUE - D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST
1.03802	0.032837	4.46529	0.062128	8.03390	0.018008

Possible outlier obs:cars93: y2 c3=Small

ID	midprce
64	15.9

Five Number Summary - minus outlier - cars93:y2 c3=Small

the smallest value, Y2	the lower quartile, Y2	the median, Y2	the upper quartile, Y2	the largest value, Y2
7.4	8.6	10	11.3	12.2

Measures of Variability- minus outlier- cars93:y2 c3=Small

the range, Y2	the interquartile range, Y2	the standard deviation, Y2
4.8	2.7	1.47506

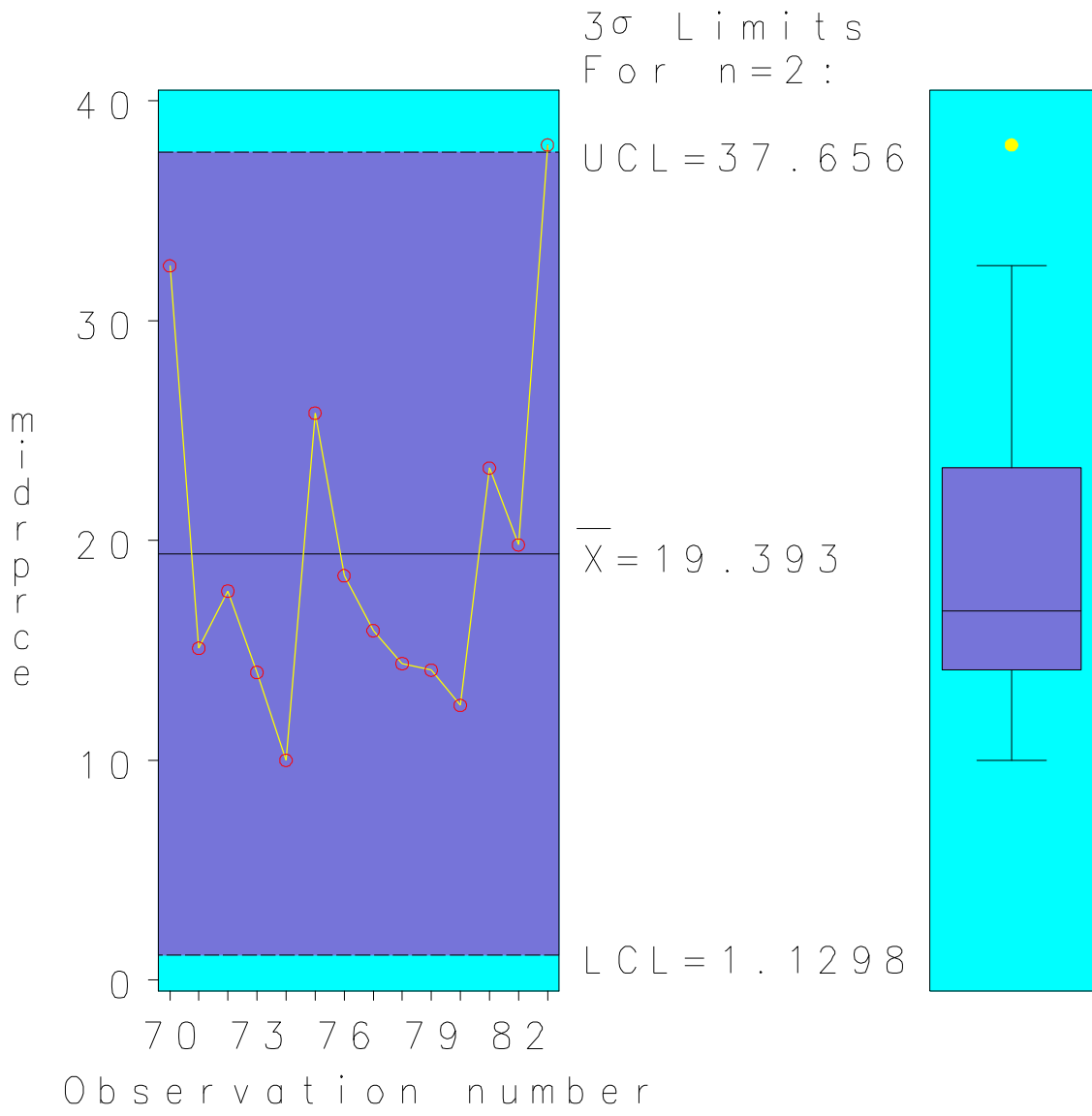
95% Confidence Intervals -minus outlier cars93:y2 c3=Small

Statistic	Lower Confidence Limit	Estimate	Upper Confidence Limit
Variance	1.24227	2.17579	4.75828
Std Dev	1.11457	1.47506	2.18135

Two-side 95% CI -outlier minus cars93: y2 c3=Small

Lower 95% limit	LOWER mean 95% CONFIDENCE LEVEL	sample mean	UPPER mean 95% CONFIDENCE LEVEL	Upper 95% limit
6.864	9.252	9.963	10.674	13.062

Control chart: cars93:y2:c3= Sporty



DIFFERENT MID VALUES - y2 c3=Sporty

the mean, Y2	the median, Y2	the most frequent value, Y2	GEOMETRIC MEAN	HARMONIC MEAN	SAMPLE SIZE
19.3929	16.8	.	18.1138	17.0572	14

Five Number Summary - y2 c3=Sporty

the smallest value, Y2	the lower quartile, Y2	the median, Y2	the upper quartile, Y2	the largest value, Y2
10	14.1	16.8	23.3	38

Measures of Variability - cars93:c3=Sporty y2

the range, Y2	the interquartile range, Y2	the standard deviation, Y2
28	9.2	7.97472

Two-side 95% CI - cars93:c3=Sporty y2

Lower 95% limit	LOWER mean 95% CONFIDENCE LEVEL	sample mean	UPPER mean 95% CONFIDENCE LEVEL	Upper 95% limit
2.16	14.79	19.39	24.00	36.62

95% Confidence Intervals cars93:c3=Sporty y2

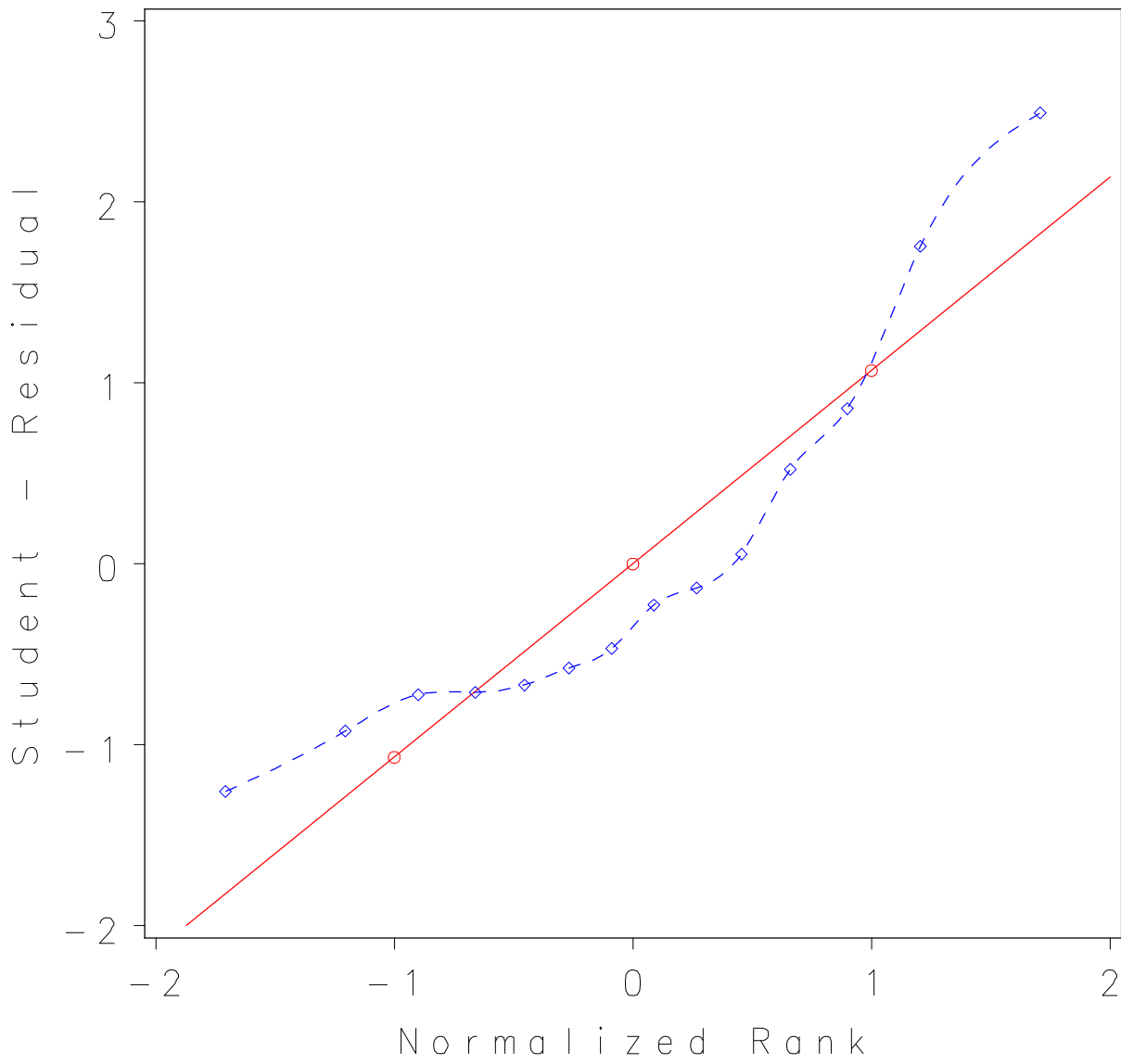
Statistic	Lower Confidence Limit	Estimate	Upper Confidence Limit
Variance	33.4235	63.5961	165.061
Std Dev	5.7813	7.9747	12.848

**95% Confidence Interval for the median y_2 c_3 =Sporty
Hutson, A. D. (1999)**

**Calculating Nonparametric Confidence Intervals for Quantiles Using Fractional Order Statistics.
Journal of Applied Statistics, 26: 343-353.**

P50	P25_89	P74_10
16.8	14.0884	23.5902

Normal Probability Plot— cars93 : c3= Sporty y2



D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST - cars93:c3=Sporty y2
Reference:The American Statistician 1990 Vol:44 No:4 page 316-321

Skewness	P-value for Skewness	Kurtosis Statistic	P-value for Kurtosis	CHISQUARE VALUE for Omnibus test	P-VALUE - D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST
1.14956	0.034632	3.36107	0.27860	5.63713	0.059691

Possible outlier obs:cars93: y2 c3=Sporty

ID	midrprce
83	38

Five Number Summary - minus outlier - cars93:y2 c3=Sporty

the smallest value, Y2	the lower quartile, Y2	the median, Y2	the upper quartile, Y2	the largest value, Y2
10	14.1	15.9	19.8	32.5

Measures of Variability- minus outlier- cars93:y2 c3=Sporty

the range, Y2	the interquartile range, Y2	the standard deviation, Y2
22.5	5.7	6.15014

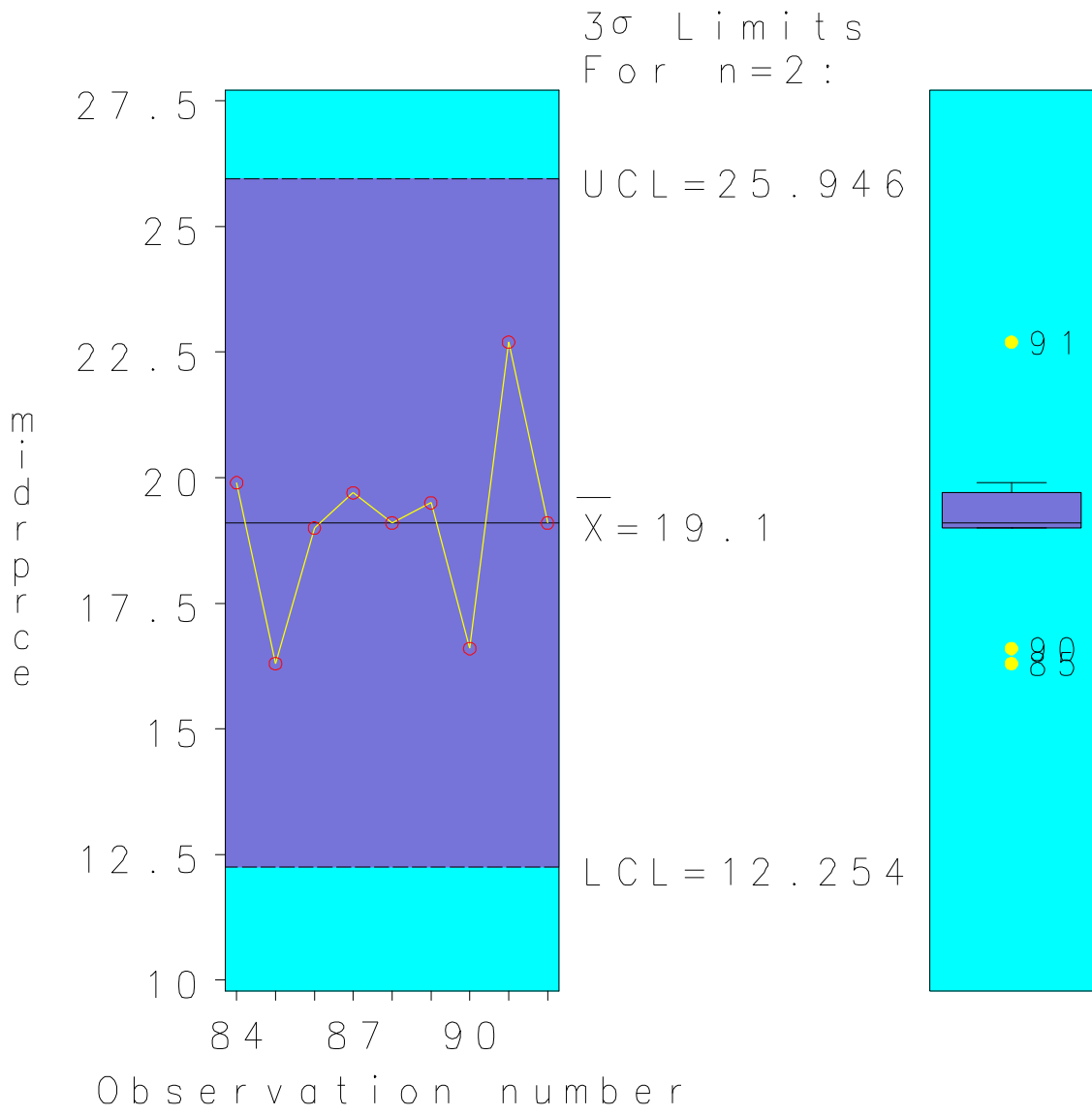
95% Confidence Intervals -minus outlier cars93:y2 c3=Sporty

Statistic	Lower Confidence Limit	Estimate	Upper Confidence Limit
Variance	19.4497	37.8242	103.068
Std Dev	4.4102	6.1501	10.152

Two-side 95% CI -outlier minus cars93: y2 c3=Sporty

Lower 95% limit	LOWER mean 95% CONFIDENCE LEVEL	sample mean	UPPER mean 95% CONFIDENCE LEVEL	Upper 95% limit
4.562	14.245	17.962	21.678	31.362

Control chart: cars93:y2:c3= Van



DIFFERENT MID VALUES - y_2 $c_3=Van$

the mean, Y2	the median, Y2	the most frequent value, Y2	GEOMETRIC MEAN	HARMONIC MEAN	SAMPLE SIZE
19.1	19.1	19.1	19.0183	18.9366	9

Five Number Summary - y2 c3=Van

the smallest value, Y2	the lower quartile, Y2	the median, Y2	the upper quartile, Y2	the largest value, Y2
16.3	19	19.1	19.7	22.7

Measures of Variability - cars93:c3=Van y2

the range, Y2	the interquartile range, Y2	the standard deviation, Y2
6.4	0.7	1.87816

Two-side 95% CI - cars93:c3=Van y2

Lower 95% limit	LOWER mean 95% CONFIDENCE LEVEL	sample mean	UPPER mean 95% CONFIDENCE LEVEL	Upper 95% limit
14.77	17.66	19.10	20.54	23.43

95% Confidence Intervals cars93:c3=Van y2

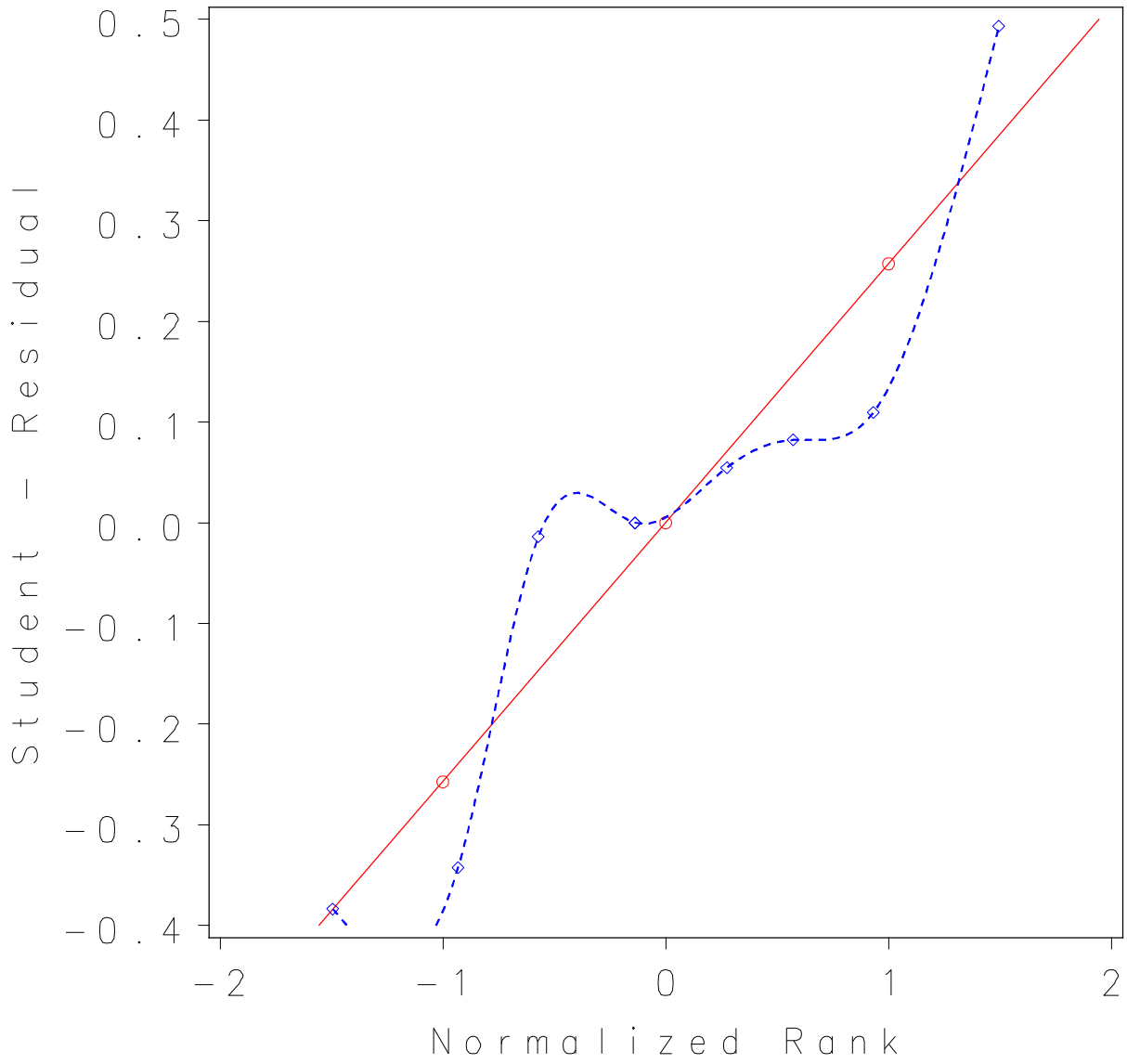
Statistic	Lower Confidence Limit	Estimate	Upper Confidence Limit
Variance	1.60939	3.52750	12.9466
Std Dev	1.26862	1.87816	3.5981

**95% Confidence Interval for the median y_2 $c_3=Van$
Hutson, A. D. (1999)**

**Calculating Nonparametric Confidence Intervals for Quantiles Using Fractional Order Statistics.
Journal of Applied Statistics, 26: 343-353.**

P50	P21_20	P78_79
19.1	16.8882	19.8760

Normal Probability Plot— cars93 : c3= Van y2



D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST - cars93:c3=Van y2
Reference: The American Statistician 1990 Vol:44 No:4 page 316-321

Skewness	P-value for Skewness	Kurtosis Statistic	P-value for Kurtosis	CHISQUARE VALUE for Omnibus test	P-VALUE - D'AGOSTINO-PEARSON OMNIBUS NORMALITY TEST
0.19752	0.73167	3.04067	0.32835	1.07299	0.58479

Possible outlier obs:cars93: y2 c3=Van

ID	midprce
85	16.3
90	16.6
91	22.7

Five Number Summary - minus outlier - cars93:y2 c3=Van

the smallest value, Y2	the lower quartile, Y2	the median, Y2	the upper quartile, Y2	the largest value, Y2
19	19.1	19.3	19.7	19.9

Measures of Variability- minus outlier- cars93:y2 c3=Van

the range, Y2	the interquartile range, Y2	the standard deviation, Y2
0.9	0.6	0.37103

95% Confidence Intervals -minus outlier cars93:y2 c3=Van

Statistic	Lower Confidence Limit	Estimate	Upper Confidence Limit
Variance	0.05364	0.13767	0.82811
Std Dev	0.23160	0.37103	0.91000

Two-side 95% CI -outlier minus cars93: y2 c3=Van

Lower 95% limit	LOWER mean 95% CONFIDENCE LEVEL	sample mean	UPPER mean 95% CONFIDENCE LEVEL	Upper 95% limit
18.430	18.994	19.383	19.773	20.337