The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = LFS

Moments			
N	151	**Sum Weights**	151
Mean	8999.28325	**Sum Observations**	1358891.77
Std Deviation	3731.8463	**Variance**	13926676.8
Skewness	0.57871514	**Kurtosis**	-0.4809529
Uncorrected SS	1.43181E10	**Corrected SS**	2089001520
Coeff Variation	41.4682614	**Std Error Mean**	303.693345

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = LFS

Basic Statistical Measures			
Location		**Variability**	
Mean	8999.283	**Std Deviation**	3732
Median	8538.290	**Variance**	13926677
Mode	.	**Range**	14816
		Interquartile Range	5464

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	29.6328	**Pr > |t|**	<.0001
Sign	**M**	75.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	5738	**Pr >= |S|**	<.0001

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = LFS

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18259.22
99%	18223.45
95%	16085.13
90%	14394.40
75% Q3	11436.74
50% Median	8538.29
25% Q1	5972.38
10%	4618.08
5%	4234.93

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = LFS

Quantiles (Definition 5)	
Level	**Quantile**
1%	3481.87
0% Min	3443.06

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
3443.06	906	17128.4	914
3481.87	936	17663.1	1031
3591.48	895	17942.1	1030

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = LFS

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3597.60	909	18223.5	1032
3861.21	924	18259.2	1029

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = NFS

Moments			
N	424	**Sum Weights**	424
Mean	7532.11031	**Sum Observations**	3193614.77
Std Deviation	3668.21268	**Variance**	13455784.3
Skewness	0.68371205	**Kurtosis**	0.04757761
Uncorrected SS	2.97465E10	**Corrected SS**	5691796741
Coeff Variation	48.7009952	**Std Error Mean**	178.144156

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = NFS

Basic Statistical Measures			
Location		**Variability**	
Mean	7532.110	**Std Deviation**	3668
Median	7139.380	**Variance**	13455784
Mode	.	**Range**	16617
		Interquartile Range	5120

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.28098	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = NFS

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18328.24
99%	17560.38
95%	14426.07
90%	12347.17
75% Q3	9789.62
50% Median	7139.38
25% Q1	4669.13
10%	3227.12
5%	2597.78

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = NFS

Quantiles (Definition 5)	
Level	**Quantile**
1%	1727.54
0% Min	1711.03

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
1711.03	511	17560.4	875
1719.44	623	17626.2	777
1720.35	469	18157.9	642

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = NFS

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1725.55	659	18218.2	728
1727.54	563	18328.2	876

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_AA

Moments			
N	210	**Sum Weights**	210
Mean	12141.2426	**Sum Observations**	2549660.94
Std Deviation	2452.89468	**Variance**	6016692.29
Skewness	0.4175916	**Kurtosis**	-0.099228
Uncorrected SS	3.22135E10	**Corrected SS**	1257488690
Coeff Variation	20.2029954	**Std Error Mean**	169.265814

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_AA

Basic Statistical Measures			
Location		**Variability**	
Mean	12141.24	**Std Deviation**	2453
Median	11986.94	**Variance**	6016692
Mode	.	**Range**	10579
		Interquartile Range	3036

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	71.72885	**Pr > |t|**	<.0001
Sign	**M**	105	**Pr >= |M|**	<.0001
Signed Rank	**S**	11077.5	**Pr >= |S|**	<.0001

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_AA

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18310.74
99%	18033.97
95%	17081.08
90%	15668.09
75% Q3	13470.86
50% Median	11986.94
25% Q1	10435.07
10%	8812.90
5%	8280.62

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_AA

Quantiles (Definition 5)	
Level	**Quantile**
1%	7804.16
0% Min	7731.86

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
7731.86	370	17904.5	440
7789.64	333	17929.3	357
7804.16	271	18034.0	453

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_AA

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7935.29	430	18246.5	442
8026.67	428	18310.7	441

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_BA

Moments			
N	248	**Sum Weights**	248
Mean	3063.9169	**Sum Observations**	759851.39
Std Deviation	1677.27334	**Variance**	2813245.85
Skewness	1.1076734	**Kurtosis**	0.23939037
Uncorrected SS	3022993237	**Corrected SS**	694871725
Coeff Variation	54.7427817	**Std Error Mean**	106.506964

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_BA

Basic Statistical Measures			
Location		**Variability**	
Mean	3063.917	**Std Deviation**	1677
Median	2458.610	**Variance**	2813246
Mode	1639.560	**Range**	6405
		Interquartile Range	2185

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.76729	**Pr > |t|**	<.0001
Sign	**M**	124	**Pr >= |M|**	<.0001
Signed Rank	**S**	15438	**Pr >= |S|**	<.0001

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_BA

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7526.71
99%	7421.19
95%	6837.37
90%	5757.41
75% Q3	3939.39
50% Median	2458.61
25% Q1	1754.06
10%	1607.51
5%	1242.82

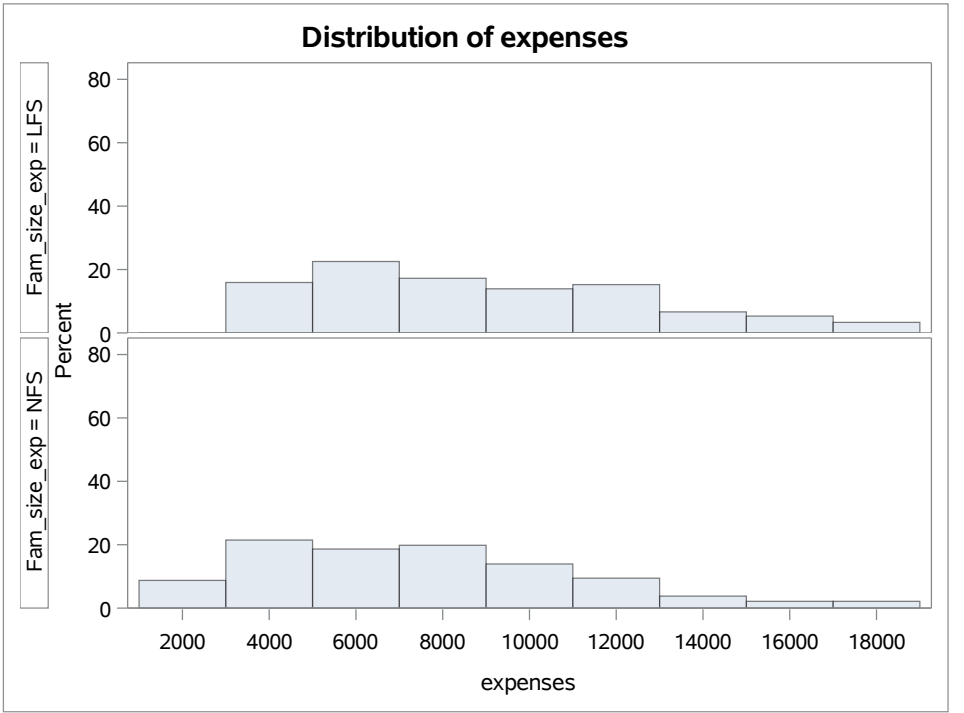
The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_BA

Quantiles (Definition 5)	
Level	**Quantile**
1%	1135.94
0% Min	1121.87

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
1121.87	27	7348.14	163
1131.51	36	7419.48	229
1135.94	5	7421.19	218

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_BA

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1136.40	54	7448.40	41
1137.01	114	7526.71	86


Distribution of expenses
Fam_size_exp = LFS
Fam_size_exp = NFS
Percent
0
20
40
60
80
2000
4000
6000
8000
10000
12000
14000
16000
18000
expenses

The UNIVARIATE Procedure

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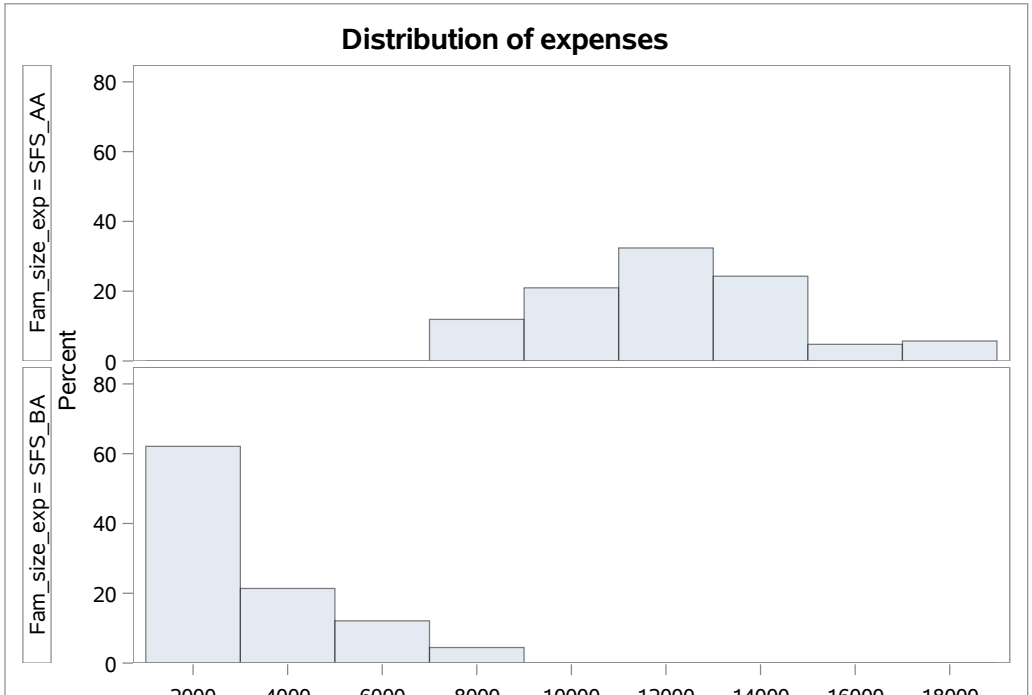


The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = LFS

Moments			
N	151	**Sum Weights**	151
Mean	8999.28325	**Sum Observations**	1358891.77
Std Deviation	3731.8463	**Variance**	13926676.8
Skewness	0.57871514	**Kurtosis**	-0.4809529
Uncorrected SS	1.43181E10	**Corrected SS**	2089001520
Coeff Variation	41.4682614	**Std Error Mean**	303.693345

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = LFS

Basic Statistical Measures			
Location		**Variability**	
Mean	8999.283	**Std Deviation**	3732
Median	8538.290	**Variance**	13926677
Mode	.	**Range**	14816
		Interquartile Range	5464

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	29.6328	**Pr > |t|**	<.0001
Sign	**M**	75.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	5738	**Pr >= |S|**	<.0001

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = LFS

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18259.22
99%	18223.45
95%	16085.13
90%	14394.40
75% Q3	11436.74
50% Median	8538.29
25% Q1	5972.38
10%	4618.08
5%	4234.93

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = LFS

Quantiles (Definition 5)	
Level	**Quantile**
1%	3481.87
0% Min	3443.06

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
3443.06	906	17128.4	914
3481.87	936	17663.1	1031
3591.48	895	17942.1	1030

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = LFS

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3597.60	909	18223.5	1032
3861.21	924	18259.2	1029

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = NFS

Moments			
N	424	**Sum Weights**	424
Mean	7532.11031	**Sum Observations**	3193614.77
Std Deviation	3668.21268	**Variance**	13455784.3
Skewness	0.68371205	**Kurtosis**	0.04757761
Uncorrected SS	2.97465E10	**Corrected SS**	5691796741
Coeff Variation	48.7009952	**Std Error Mean**	178.144156

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = NFS

Basic Statistical Measures			
Location		**Variability**	
Mean	7532.110	**Std Deviation**	3668
Median	7139.380	**Variance**	13455784
Mode	.	**Range**	16617
		Interquartile Range	5120

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.28098	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = NFS

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18328.24
99%	17560.38
95%	14426.07
90%	12347.17
75% Q3	9789.62
50% Median	7139.38
25% Q1	4669.13
10%	3227.12
5%	2597.78

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = NFS

Quantiles (Definition 5)	
Level	**Quantile**
1%	1727.54
0% Min	1711.03

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
1711.03	511	17560.4	875
1719.44	623	17626.2	777
1720.35	469	18157.9	642

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = NFS

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1725.55	659	18218.2	728
1727.54	563	18328.2	876

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_AA

Moments			
N	210	**Sum Weights**	210
Mean	12141.2426	**Sum Observations**	2549660.94
Std Deviation	2452.89468	**Variance**	6016692.29
Skewness	0.4175916	**Kurtosis**	-0.099228
Uncorrected SS	3.22135E10	**Corrected SS**	1257488690
Coeff Variation	20.2029954	**Std Error Mean**	169.265814

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_AA

Basic Statistical Measures			
Location		**Variability**	
Mean	12141.24	**Std Deviation**	2453
Median	11986.94	**Variance**	6016692
Mode	.	**Range**	10579
		Interquartile Range	3036

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	71.72885	**Pr > |t|**	<.0001
Sign	**M**	105	**Pr >= |M|**	<.0001
Signed Rank	**S**	11077.5	**Pr >= |S|**	<.0001

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_AA

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18310.74
99%	18033.97
95%	17081.08
90%	15668.09
75% Q3	13470.86
50% Median	11986.94
25% Q1	10435.07
10%	8812.90
5%	8280.62

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_AA

Quantiles (Definition 5)	
Level	**Quantile**
1%	7804.16
0% Min	7731.86

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
7731.86	370	17904.5	440
7789.64	333	17929.3	357
7804.16	271	18034.0	453

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_AA

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7935.29	430	18246.5	442
8026.67	428	18310.7	441

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_BA

Moments			
N	248	**Sum Weights**	248
Mean	3063.9169	**Sum Observations**	759851.39
Std Deviation	1677.27334	**Variance**	2813245.85
Skewness	1.1076734	**Kurtosis**	0.23939037
Uncorrected SS	3022993237	**Corrected SS**	694871725
Coeff Variation	54.7427817	**Std Error Mean**	106.506964

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_BA

Basic Statistical Measures			
Location		**Variability**	
Mean	3063.917	**Std Deviation**	1677
Median	2458.610	**Variance**	2813246
Mode	1639.560	**Range**	6405
		Interquartile Range	2185

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.76729	**Pr > |t|**	<.0001
Sign	**M**	124	**Pr >= |M|**	<.0001
Signed Rank	**S**	15438	**Pr >= |S|**	<.0001

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_BA

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7526.71
99%	7421.19
95%	6837.37
90%	5757.41
75% Q3	3939.39
50% Median	2458.61
25% Q1	1754.06
10%	1607.51
5%	1242.82

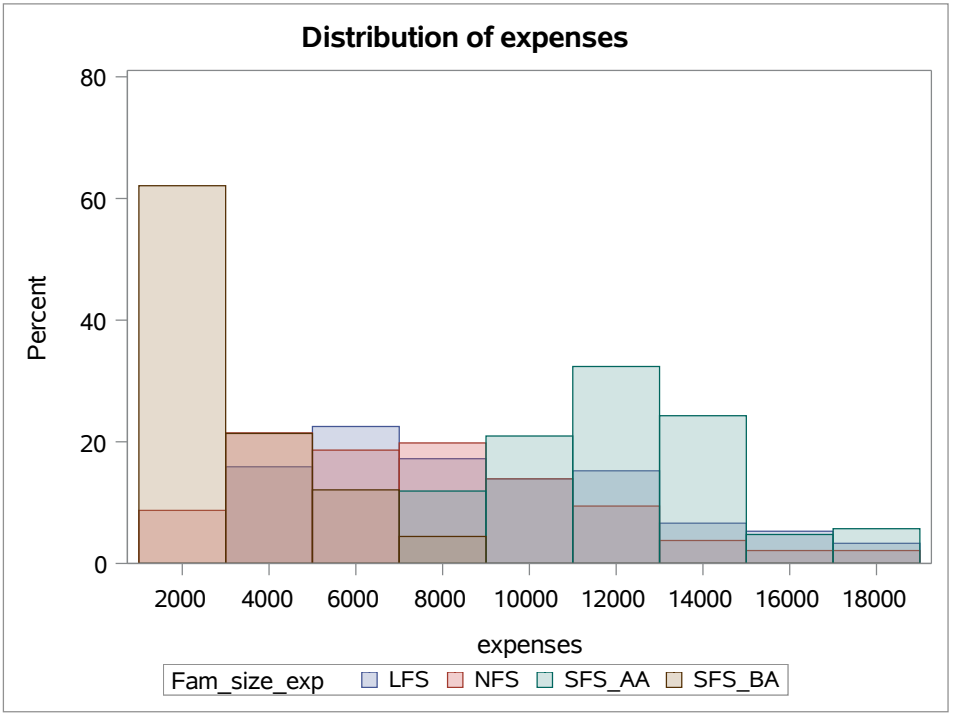
The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_BA

Quantiles (Definition 5)	
Level	**Quantile**
1%	1135.94
0% Min	1121.87

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
1121.87	27	7348.14	163
1131.51	36	7419.48	229
1135.94	5	7421.19	218

The UNIVARIATE Procedure
Variable: expenses
Fam_size_exp = SFS_BA

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1136.40	54	7448.40	41
1137.01	114	7526.71	86


Distribution of expenses
Percent
80
60
40
20
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
expenses
Fam_size_exp
LFS
NFS
SFS_AA
SFS_BA

Anova using PROC ANOVA (Family_size-Expense)

The ANOVA Procedure

Class Level Information		
Class	**Levels**	**Values**
Fam_size_exp	4	LFS NFS SFS_AA SFS_BA

Number of Observations Read	1035
Number of Observations Used	1033

Anova using PROC ANOVA (Family_size-Expense)

The ANOVA Procedure

Dependent Variable: expenses

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	9731155455	3243718485	342.93	<.0001
Error	1029	9733158676	9458852		
Corrected Total	1032	19464314131			

R-Square	Coeff Var	Root MSE	expenses Mean
0.499949	40.40968	3075.525	7610.860

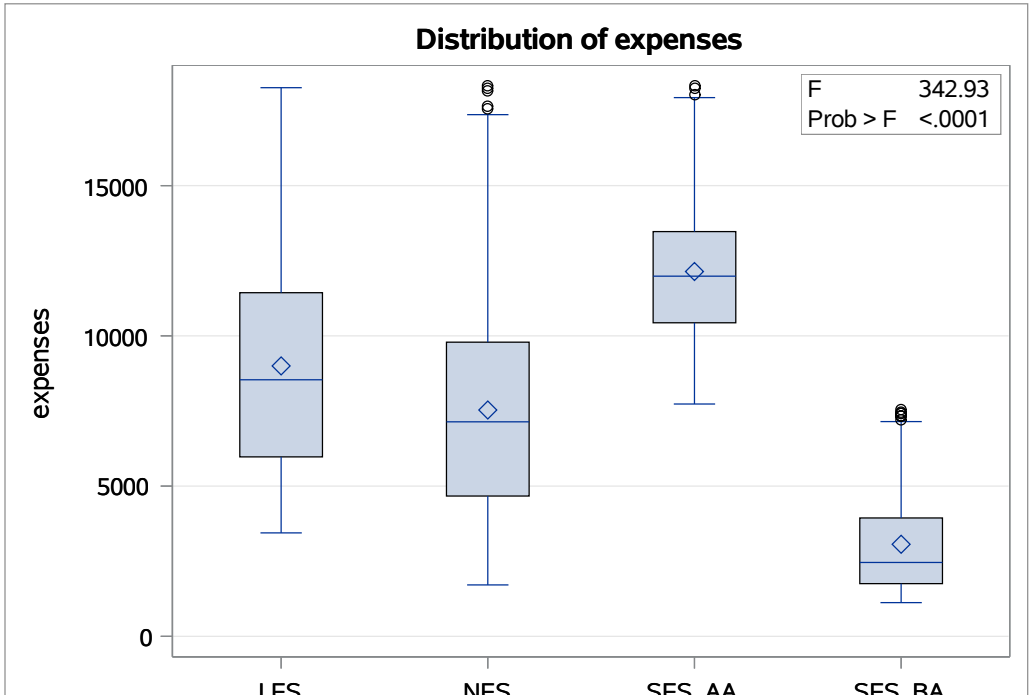
Source	DF	Anova SS	Mean Square	F Value	Pr > F
Fam_size_exp	3	9731155455	3243718485	342.93	<.0001

Anova using PROC ANOVA (Family_size-Expense)

The ANOVA Procedure

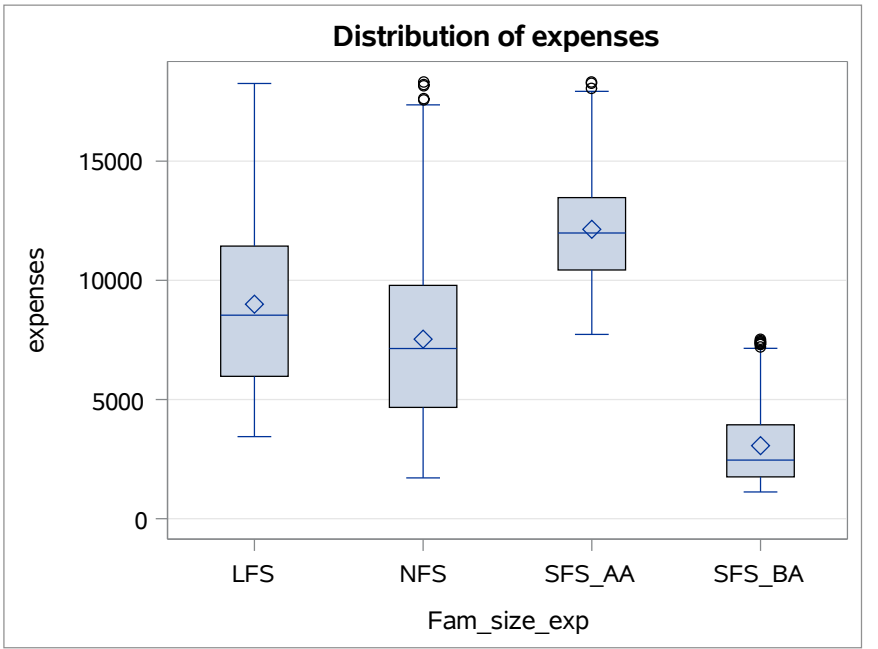
Dependent Variable: expenses

Continuing contents of page 48, which would not fit on a single physical page



Anova using PROC ANOVA (Family_size-Expense)

The ANOVA Procedure



Anova using PROC ANOVA (Family_size-Expense)

The ANOVA Procedure

Scheffe's Test for expenses

Note: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than Tukey's for all pairwise comparisons.

Alpha	0.05
Error Degrees of Freedom	1029
Error Mean Square	9458852
Critical Value of F	2.61355

Anova using PROC ANOVA (Family_size-Expense)

The ANOVA Procedure

Scheffe's Test for expenses

Comparisons significant at the 0.05 level are indicated by ***.				
Fam_size_exp Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
SFS_AA - LFS	3142.0	2223.1	4060.8	***
SFS_AA - NFS	4609.1	3882.4	5335.8	***
SFS_AA - SFS_BA	9077.3	8269.7	9884.9	***
LFS - SFS_AA	-3142.0	-4060.8	-2223.1	***
LFS - NFS	1467.2	651.0	2283.3	***
LFS - SFS_BA	5935.4	5046.4	6824.3	***
NFS - SFS_AA	-4609.1	-5335.8	-3882.4	***

Anova using PROC ANOVA (Family_size-Expense)

The ANOVA Procedure

Scheffe's Test for expenses

Comparisons significant at the 0.05 level are indicated by ***.				
Fam_size_exp Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
NFS - LFS	-1467.2	-2283.3	-651.0	***
NFS - SFS_BA	4468.2	3779.7	5156.6	***
SFS_BA - SFS_AA	-9077.3	-9884.9	-8269.7	***
SFS_BA - LFS	-5935.4	-6824.3	-5046.4	***
SFS_BA - NFS	-4468.2	-5156.6	-3779.7	***

Kruskal-Wallis (Family_size-Expense)

The NPAR1WAY Procedure

Wilcoxon Scores (Rank Sums) for Variable expenses Classified by Variable Fam_size_exp					
Fam_size_exp	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
SFS_BA	248	45214.0	128216.0	4095.72052	182.314516
SFS_AA	210	174034.0	108570.0	3859.03938	828.733333
NFS	424	221102.0	219208.0	4716.94943	521.466981
LFS	151	93711.0	78067.0	3387.60224	620.602649
Average scores were used for ties.					

Kruskal-Wallis Test		
Chi-Square	DF	Pr > ChiSq
559.6675	3	<.0001

Kruskal-Wallis (Family_size-Expense)

The NPAR1WAY Procedure

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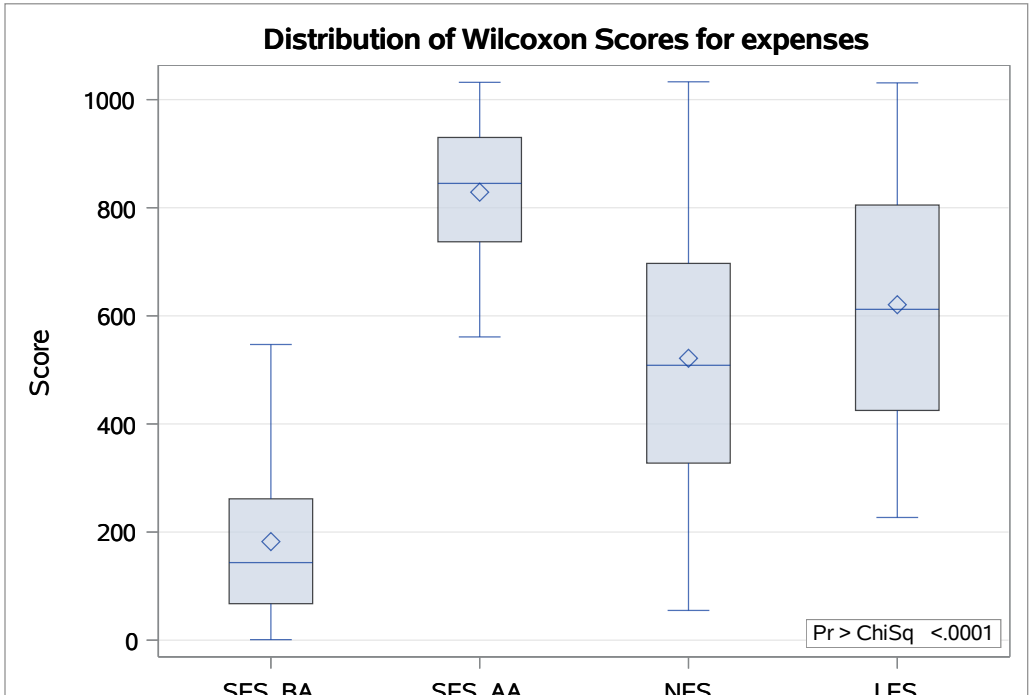

Kruskal-Wallis (Family_size-Expense)

The NPAR1WAY Procedure

Pairwise Two-Sided Multiple Comparison Analysis			
Dwass, Steel, Critchlow-Fligner Method			
Variable: expenses			
Fam_size_exp	**Wilcoxon Z**	**DSCF Value**	**Pr > DSCF**
SFS_BA vs. SFS_AA	-18.4497	26.0918	<.0001
SFS_BA vs. NFS	-16.5976	23.4725	<.0001
SFS_BA vs. LFS	-14.9079	21.0830	<.0001
SFS_AA vs. NFS	14.3626	20.3117	<.0001
SFS_AA vs. LFS	8.4331	11.9262	<.0001
NFS vs. LFS	-4.1277	5.8374	0.0002