## Yearly Total Order

## product_code units_sold BY YEAR



## Total sales per year

**The FASTCLUS Procedure**
**Replace=FULL Radius=0 Maxclusters=3 Maxiter=1**

### Initial Seeds

| Cluster | Units_Sold |
|---------|------------|
| 1 | 800.000000 |
| 2 | 300.000000 |
| 3 | 1300.000000 |

| Criterion Based on Final Seeds = | 95.4052 |
|-----------------------------------|---------|

### Cluster Summary

| Cluster | Frequency | RMS Std Deviation | Maximum Distance from Seed to Observation | Radius Exceeded | Nearest Cluster | Distance Between Cluster Centroids |
|---------|-----------|-------------------|-------------------------------------------|-----------------|-----------------|-------------------------------------|
| 1 | 151221 | 92.7390 | 180.2 | | 2 | 255.6 |
| 2 | 73162 | 72.3684 | 176.3 | | 1 | 255.6 |
| 3 | 59829 | 89.0863 | 180.1 | | 1 | 297.3 |

### Statistics for Variables

| Variable | Total STD | Within STD | R-Square | RSQ/(1-RSQ) |
|----------|-----------|------------|----------|-------------|
| Units_Sold | 207.39326 | 87.14885 | 0.823424 | 4.663292 |
| OVER-ALL | 207.39326 | 87.14885 | 0.823424 | 4.663292 |

| Pseudo F Statistic = | 662674.8 |
|---|---|

| Approximate Expected Over-All R-Squared = | 0.88889 |
|---|---|

| Cubic Clustering Criterion = | -200.865 |
|---|---|

| Cluster Means | |
|---|---|
| Cluster | Units_Sold |
| 1 | 784.049008 |
| 2 | 528.429308 |
| 3 | 1081.355613 |

| Cluster Standard Deviations | |
|---|---|
| Cluster | Units_Sold |
| 1 | 92.73896537 |
| 2 | 72.36840225 |
| 3 | 89.08634714 |

## Total sales per year

### The REG Procedure
### Model: MODEL1
### Dependent Variable: Year Year

| Number of Observations Read | 284212 |
|---|---|
| Number of Observations Used | 284212 |

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 1 | 456.17332 | 456.17332 | 198.80 | <.0001 |
| Error | 284210 | 652149 | 2.29460 | | |
| Corrected Total | 284211 | 652605 | | | |

| Root MSE | 1.51479 | R-Square | 0.0007 |
|---|---|---|---|
| Dependent Mean | 2017.08978 | Adj R-Sq | 0.0007 |
| Coeff Var | 0.07510 | | |

| Parameter Estimates | | | | | | |
|---|---|---|---|---|---|---|
| Variable | Label | DF | Parameter Estimate | Standard Error | t Value | Pr > \|t\| |
| Intercept | Intercept | 1 | 2016.93894 | 0.01107 | 182219 | <.0001 |
| Units_Sold | Units_Sold | 1 | 0.00019317 | 0.00001370 | 14.10 | <.0001 |

Total sales per year

Total sales per year

Total sales per year