

The CONTENTS Procedure

|                     |   |                      |    |
|---------------------|---|----------------------|----|
| Data Set Name       | WORK.IMPORT3  | Observations         | 21 |
| Member Type         | DATA  | Variables            | 3  |
| Engine              | V9  | Indexes              | 0  |
| Created             | 01/10/2018 16:32:36                                   | Observation Length   | 24 |
| Last Modified       | 01/10/2018 16:32:36                                   | Deleted Observations | 0  |
| Protection          |   | Compressed           | NO |
| Data Set Type       |   | Sorted               | NO |
| Label               |   |                      |    |
| Data Representation | SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64 |                      |    |
| Encoding            | utf-8 Unicode (UTF-8)                                 |                      |    |

| Engine/Host Dependent Information |   |
|-----------------------------------|---|
| Data Set Page Size                | 65536   |
| Number of Data Set Pages          | 1   |
| First Data Page                   | 1   |
| Max Obs per Page                  | 2714  |
| Obs in First Data Page            | 21  |
| Number of Data Set Repairs        | 0   |
| Filename                          | /tmp/SAS_work724400000C61_localhost.localdomain/SAS_workF53200000C61_localhost.localdomain/import3.sas7bdat |
| Release Created                   | 9.0401M5  |
| Host Created                      | Linux   |
| Inode Number                      | 674516  |
| Access Permission                 | rw-rw-r--   |
| Owner Name                        | sasdemo   |
| File Size                         | 128KB   |
| File Size (bytes)                 | 131072  |

| Alphabetic List of Variables and Attributes |             |      |     |        |             |
|---|-------------|------|-----|--------|-------------|
| #   | Variable    | Type | Len | Format | Label       |
| 3   | Pressure    | Num  | 8   | BEST.  | Pressure    |
| 1   | Strength    | Num  | 8   | BEST.  | Strength    |
| 2   | Temperature | Num  | 8   | BEST.  | Temperature |

| Obs | Strength | Temperature | Pressure |
|-----|----------|-------------|----------|
| 1   | 15.7     | 200         | 18       |
| 2   | 40.1     | 270         | 10       |
| 3   | 28.7     | 280         | 20       |
| 4   | 37.3     | 270         | 12       |
| 5   | 20.6     | 200         | 14       |
| 6   | 22.2     | 220         | 16       |
| 7   | 43.8     | 300         | 14       |
| 8   | 21.9     | 210         | 16       |
| 9   | 26.7     | 230         | 12       |
| 10  | 32.2     | 290         | 20       |
| 11  | 29.5     | 250         | 14       |
| 12  | 28.5     | 220         | 14       |
| 13  | 42.5     | 280         | 12       |

| Obs | Strength | Temperature | Pressure |
|-----|----------|-------------|----------|
| 14  | 27.7     | 250         | 16       |
| 15  | 20.1     | 220         | 20       |
| 16  | 34.1     | 280         | 18       |
| 17  | 26.6     | 250         | 18       |
| 18  | 40.2     | 270         | 10       |
| 19  | 28.4     | 280         | 20       |
| 20  | 26.7     | 220         | 10       |
| 21  | 18.1     | 200         | 18       |

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**The MEANS Procedure**

| Variable    | Label       | N  | Mean        | Std Dev    | Minimum     | Maximum     |
|-------------|-------------|----|-------------|------------|-------------|-------------|
| Strength    | Strength    | 21 | 29.1238095  | 8.1112826  | 15.7000000  | 43.8000000  |
| Temperature | Temperature | 21 | 247.1428571 | 33.0367760 | 200.0000000 | 300.0000000 |
| Pressure    | Pressure    | 21 | 15.3333333  | 3.4832935  | 10.0000000  | 20.0000000  |

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**The REG Procedure**

**Model: MODEL1**

**Dependent Variable: Strength Strength**

|                                    |    |
|------------------------------------|----|
| <b>Number of Observations Read</b> | 21 |
| <b>Number of Observations Used</b> | 21 |

**Analysis of Variance**

| Source                 | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|------------------------|----|----------------|-------------|---------|--------|
| <b>Model</b>           | 2  | 1251.62694     | 625.81347   | 175.38  | <.0001 |
| <b>Error</b>           | 18 | 64.23116       | 3.56840     |         |        |
| <b>Corrected Total</b> | 20 | 1315.85810     |             |         |        |

|                       |          |                 |        |
|-----------------------|----------|-----------------|--------|
| <b>Root MSE</b>       | 1.88902  | <b>R-Square</b> | 0.9512 |
| <b>Dependent Mean</b> | 29.12381 | <b>Adj R-Sq</b> | 0.9458 |
| <b>Coeff Var</b>      | 6.48617  |                 |        |

**Parameter Estimates**

| Variable           | Label       | DF | Parameter Estimate | Standard Error | t Value | Pr >  t |
|--------------------|-------------|----|--------------------|----------------|---------|---------|
| <b>Intercept</b>   | Intercept   | 1  | -4.61336           | 3.70341        | -1.25   | 0.2288  |
| <b>Temperature</b> | Temperature | 1  | 0.20665            | 0.01279        | 16.16   | <.0001  |
| <b>Pressure</b>    | Pressure    | 1  | -1.13050           | 0.12127        | -9.32   | <.0001  |

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**The REG Procedure**

**Model: MODEL1**

**Dependent Variable: Strength Strength**





