

## StatsANOVA2Test

/T= <i>k</i>	Displays results in a table. <i>k</i> specifies the table behavior when it is closed. <i>k</i> =0: Normal with dialog (default). <i>k</i> =1: Kills with no dialog. <i>k</i> =2: Disables killing.  The table is associated with the test, not the data. If you repeat the test, it will update any existing table with the new results.
/Z	Ignores errors. V_flag will be set to -1 for any error and to zero otherwise.

### Details

Input to StatsANOVA2RMTest is the 2D *srcWave* in which the factor A (Groups) are columns and the different subjects are rows. It does not support NaNs or INFs.

The contents of the M\_ANOVA2RMResults output wave columns are: the first contains the sum of the squares (SS) values, the second contains the degrees of freedom (DF), the third contains the mean square (MS) values, the fourth contains the single F value for this test, the fifth contains the critical F value for the specified alpha and degrees of freedom, and the last column contains the conclusion with 0 to reject  $H_0$  or 1 to accept it. In each case  $H_0$  corresponds to the mean level, which is the same for all subjects.

V\_flag will be set to -1 for any error and to zero otherwise.

### See Also

Chapter III-12, **Statistics** for a function and operation overview; **StatsANOVA2NRTest** and **StatsANOVA2Test**.

## StatsANOVA2Test

**StatsANOVA2Test** [*flags*] *srcWave*

The StatsANOVA2Test operation performs a two-factor analysis of variance (ANOVA) on *srcWave*. Output is to the M\_ANOVA2Results wave in the current data folder or optionally to a table.

### Flags

/ALPH= <i>val</i>	Sets the significance level (default 0.05).
/FAKE= <i>num</i>	Specifies the number of points in <i>srcWave</i> obtained by "estimation". <i>num</i> is subtracted from the total and error degrees of freedom.
/MODL= <i>m</i>	Sets the model number. <i>m</i> =1: Factor A and factor B are fixed. <i>m</i> =2: Both factors are random. <i>m</i> =3: Factor A is fixed and factor B is random (default).
/Q	No results printed in the history area.
/T= <i>k</i>	Displays results in a table. <i>k</i> specifies the table behavior when it is closed. <i>k</i> =0: Normal with dialog (default). <i>k</i> =1: Kills with no dialog. <i>k</i> =2: Disables killing.  The table is associated with the test, not the data. If you repeat the test, it will update any existing table with the new results.
/Z	Ignores errors. V_flag will be set to -1 for any error and to zero otherwise.

### Details

Input to StatsANOVA2Test is the single or double precision 3D *srcWave* in which the factor A levels are columns, the factor B levels are rows, and the replicates are layers. If *srcWave* contains dimension labels they will be used to designate the factors in the output.