

NOTE C: MICROSOFT KNOWLEDGE BASE ARTICLES (KBA'S)

Microsoft has prepared an extensive file of technical articles relating to problems, proper usage, limitations, scope, errors, fixes and general information on there Office products, including Excel. The following web site accesses these free articles.

<http://support.microsoft.com/kb>

There may be difficulties in getting this URL to respond. If so, then:

<http://support.microsoft.com/kb/> (put in the kb number after the slash)

As a guide to KBAs of interest on Excel's statistical functions and tools, the following list gives KBA numbers and the general category to which it applies

INTRODUCTION

828888 – Excel Statistical Functions: Overview of Improvements in Statistical Functions for Excel 2003

UNIVARIATE FUNCTIONS AND DESCRIPTIVE STATISTICS FUNCTIONS

826112 – Excel Statistical Functions: VAR

826371 – Excel Statistical Functions: VARA

826393 – Excel Statistical Functions: VARP

826248 – Excel Statistical Functions: VAR and VARP Improvements and Data Collection

826250 – Excel Statistical Functions: VAR and VARP Improvements and Pivot tables

826400 – Excel Statistical Functions: VARPA

826349 – Description of the STDEV function in Excel 2003

826409 – Excel Statistical Functions: STDEVA

826406 – Excel Statistical Functions: STDEVP

828103 – Excel Statistical Functions: VARP

828125 – Differences between the Excel Statistical Functions STDEVPA and STDEVP

828125 – Excel Statistical Functions: DVAR, DVARP, DSTDEV, and DSTDEVP

828232 – Excel statistical function: STEYX

COUNTING FUNCTIONS

100122 - How to Use the FREQUENCY Function

- 268001 - HOW TO: Count Unique Elements in a Cell Range in Excel.
- 129774 - FREQUENCY() Returns Zeroes When Entered as Horizontal Array.
- 214322 - XL2000: COUNTA Function Returns 1 with Invalid Reference Argument.
- 215276 - XL2000: COUNTA Function May Return Incorrect Result of 1.
- 823573 - How to Determine the Number of Unique Items in a List.
- 129436 - PERCENTRANK() May Appear to Return Incorrect Results.
- 214072 - XL2000: Algorithm Used for QUARTILE() Function.
- 828678 - Excel Statistical Functions: Representing Ties by Using RANK.

CONFIDENCE INTERVALS

- 828124 - Excel Statistical Functions: CONFIDENCE.
- 179121 - Statistical Functions Are Different from Descriptive Statistics.

DISCRETE STATISTICAL DISTRIBUTIONS.

- 827459 - Excel Statistical Functions: BINOMDIST.
- 828117 - Excel Statistical Functions: CRITBINOM.
- 828515 - Excel Statistical Functions: HYPGEOMDIST
- 828361 - Excel Statistical Functions: NEGBINOMDIST.
- 828130 - Excel Statistical Functions: POISSON.

CONTINUOUS PROBABILITY DISTRIBUTIONS.

- 827369 - Excel Statistical Functions: NORMSDIST.
- 214111 – XL2000: ATP Definition: NORMSDIST
- 827371 - Excel Statistical Functions: NORMDIST
- 828281 - Excel Statistical Functions: LOGNORMDIST.
- 215214 - XL2000: GAMMADIST() Worksheet Function Returns #NUM!.
- 893352 – Limited accuracy in the ERF and ERF functions in Excel 2003.

INVERSE PROBABILITY DISTRIBUTIONS.

- 828299 - Excel Statistical Functions: BETAINV.
- 828332 - Excel Statistical Functions: FINV.
- 827743 - TINV Formula Returns an Error in Excel 2000.
- 828340 - Excel Statistical Functions: TINV.
- 161282 - NORMSINV Function May Return Incorrect Result.
- 826772 - Excel Statistical Functions: NORMSINV.
- 827358 - Excel Statistical Functions: NORMINV.
- 828313 - Excel Statistical Functions: CHIINV.

828334 - Excel Statistical Functions: GAMMAINV.

828335 - Excel Statistical Functions: LOGINV.

TESTS OF SIGNIFICANCE.

828296 - Excel Statistical Functions: ZTEST.

COVARIANCE, CORRELATION AND CORRELATION COEFFICIENTS.

215706 - XL2000: Covariance Value in Excel 2000 Is Inconsistent with Same Value in Excel 97.

828129 - Excel Statistical Functions: PEARSON.

828131 - Excel Statistical Functions: RSQ.

829249 - Excel Statistical Functions: Incorrect R-Squared Value in Chart Tool.

REGRESSION.

214082 - XL2000: LINEST Function Returns Only One Value.

214230 – XL2000: Erroneous Output Is Returned Using Linear Regression (LINEST)

214230 – Incorrect output is returned when you use the Linear Regression (LINEST) function in Excel

215559 – XL2000: LINEST() Worksheet Function Returns Invalid Values

209326 - XL2000: LINEST Or REGRESS Error Value Occurs When X-Values Are Dependent.

277585 - XL2002: LINEST Function Returns Incorrect Results.

828533 – Description of the LINEST function in Excel 2003 and in later versions of Excel

828142 - Excel 2003 Statistical Functions: SLOPE.

828234 - Excel Statistical Functions: INTERCEPT.

828232 - Excel Statistical Functions: STEYX.

828528 - Excel Statistical Functions: LOGEST.

828801 - Excel Statistical Functions: TREND.

213690 - XL2000: The Trend Function Works Differently in Functions Than in Macros.

828526 - Excel Statistical Functions: GROWTH.

828236 - Excel Statistical Functions: FORECAST.

834521 – FORECAST, STEYX, SLOPE and INTERCEPT Functions

214251 – How To: Use the INDEX and LINEST Functions to Solve for New X-Values in Excel 2000

828131 Incorrect R-Squared Value in Chart Tool

829249 – You will receive an incorrect R-squared value in the chart tool in Excel 2003

RANDOM NUMBERS.

828795 - Excel Statistical Functions: RAND.

214090 - Excel Statistical Functions: RAND

834520 - The RAND function returns negative numbers in Excel 2003.

ANALYSIS TOOLPAK

GENERAL

213939 - XL2000: Algorithms Used in the ATP Functions

291058 - XL2002: Analysis ToolPak Functions Unexpectedly Return #NAME Error Value.

182190 - XL2000: Analysis ToolPak Functions Unexpectedly Return #NAME Error Value.

912719 – Description of the changes to the Analysis ToolPack (ATP) for Microsoft Office Excel 2007

829208 – ATP Improvements for Excel 2003

FOURIER ANALYSIS

214098 - XL: Error Message: Fourier Analysis - The Number of Input Values Must Be 4096 or Less.

RANDOM NUMBERS

829208 – ATP Separate Random Number Generator Faults

DATA ANALYSIS ROUTINES.

829208 - Excel Statistical Functions: Implications of Statistical Function Improvements for Analysis ToolPak. (Note in the January 2007 listings, KBA 829208 has a different title, and describes changes for the Excel 2004 version for the MacIntosh.)

T-TESTS

829252 - Excel Statistical Functions: Analysis ToolPak t-Test: Paired Two Sample for Means.

829247 - Excel Statistical Functions: Analysis ToolPak t-Test Tool Labels.

ANOVA

267281 - XL2000: Error: Anova: Two-Factor With Replication - Each sample must contain the same number of rows.

212089 - XL2000: Input Range Error Using Anova Analysis Tool.

829215 - Excel Statistical Functions: Analysis ToolPak ANOVA Tools.

SOLVER ROUTINE.

213689 - XL2000: Solver Uses Generalized Reduced Gradient Algorithm.

213215 - XL2000: Unexpected Results When You Use the SolverAdd Function.

819033 - Solver Does Not Find a Solution When You Use VLOOKUP, HLOOKUP, IF, or Other Conditional Functions in Office Excel 2003.

HISTOGRAMS

141684 – HISTOGRAMS.

154866 – Page Fault Creating Histogram Chart with Grouped Sheets

214269 - HOW TO: Use the Histogram Add-in in Excel 2000.

320534 - XL: Excel Quits Unexpectedly When You Use Histograms with Certain File Names

GRAPHICS.

213930 - XL: How to Create a Bell Curve Chart.

214033 - XL2000: Pie Chart Shows Incorrect Percentage Value.

155130 - XL: How to Create a BoxPlot/Box & Whisker Chart.

283017 - XL2000: XY Scatter Chart Distorted If You Change XY (Scatter) Chart Axes.

GENERAL ARRAY FUNCTIONS.

166342 - XL: Maximum Array Size in Microsoft Excel.

214117 - XL2000: Using Noncontiguous Ranges in Array Functions

134406 - Custom Function to Transpose Nonadjacent Range.

213818 - XL2000: How to Use a Visual Basic Macro to Sort Arrays in Excel

213798 - XL2000: Sample Visual Basic Macros for Working with Arrays.

FLOATING POINT NUMBERS AND ERRORS

78113 - XL: Floating-Point Arithmetic May Give Inaccurate Results.

36068 - INFO: IEEE Floating-Point Representation and MS Languages.

35826 - IEEE vs. Microsoft Binary Format; Rounding Issues (Complete)

42980 - (Complete) Tutorial to Understand IEEE Floating-Point Errors.

69333 - HOWTO: Work Around Floating-Point Accuracy/Comparison Problems.

279755 - INFO: Visual Basic and Arithmetic Precision.

111781 - ACC: Rounding Errors Using Floating-Point Numbers.

TEXT AND NUMBER CONVERSIONS.

822665 - HOW TO: Convert Text to Numbers in Excel 2003.

181298 - XL: How to Convert Text to Numbers.

214233 - XL: Text or Number Converted to Unintended Number Format.

214282 - XL2000: Sorting Alphanumeric Text as Numeric Values.

GENERAL INFORMATION

213185 - XL2000: How to Use Data Validation to Prevent Duplicate Entries.

321148 - Maximum Number of Rows and Columns in Excel.

211522 - XL2000: Limit of Natural Language Formulas per Worksheet.

816952 - Empty Rows Appear in an Excel 2003 Spreadsheet.

158071 - XL: Problems With Statistical Functions and Large Numbers.

264626 - XL2000: Microsoft Excel 2000 Specifications.

833618 - Excel 2003 hotfix package released January 12, 2004.

834691 – SR-1