ExCalc v. 2.03 Read Me Before Using ExCalc.doc

This document is well displayed when Wrap to Window or Wrap to Ruler option is chosen.

Read Me Before Using ExCalc

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What's ExCalc?

ExCalc is a handy, highly configurable math expression evaluator. It handles math expressions like 2.35 * 3.78 / {5.883 * TAN(36.2) - 1} or LOG10(3.312E+03 / 5) + SQR{(1.3 - 5.5) ^ 2 + (8.1 - 2.7) ^ 2} including lots of derived math functions for engineering. Any complicated math expressions can be instantaneously evaluated.

ExCalc also enables you to limitlessly add custom functions which contains up to three variables like {X + sqr(X ^ 2 - 4 * Y * Z)} / (2 * Y). You just enter values for X, Y and Z, and you will immediately get the answer. For example {X+sqr(X^2-4*Y*Z)}/(2*Y):8.753:1.85:1.577 gives 4.543745686, which means {X + sqr(X ^ 2 - 4 * Y * Z)} / (2 * Y) = 4.543745686 for X = 8.753, Y = 1.85 and Z = 1.577.

Further, you can use the abbreviations for some special values such as the ratio of the circumference of a circle to its diameter (pi) and the conversion factors to the metric units (pound, pound-force, gallon [U.S.], gallon [U.K.], Btu[IT], Btu[th], calorie [IT], calorie [th], mile, yard, foot, inch, knot, horsepower, etc.): For example the expression $lb/$in^3 gives 27679.9047102031, which means 1 lb/in³ is 27679.9047102031 kg/m² in metric system with an error less than 1.0E-12 %.

For various purposes of usage, ExCalc allows you to easily change the configuration settings such as number of digits, number format, trigonometric unit, font properties and colors.

Requirements

Operating System

For Windows 98/95 only.

Fonts

MS Sans Serif and Arial must be at lease installed.

Installing/Un-installing ExCalc

Installing ExCalc

This program additionally requires the Visual Basic 5.0 runtime drivers (Service Pack 2 or higher). If you have alr eady installed them to your Windows system, skip step 1).

1) Install Visual Basic 5.0 runtime drivers (Service Pack 2 or higher) if not installed yet. The setup module to inst all the required drivers can be downloaded from some software archive sites as freeware. For more information visit our web site http://www.hitekdesign.com or http://village.infoweb.ne.jp/~tek/index.htm and go to "Visual Basi c Runtime Drivers".

2) Unzip the distributed file EXCAL???.ZIP into an arbitrary folder, where ??? is a version number of ExCalc.

3) Run SETUP.EXE and follow its instructions.

4) The files extracted into the temporary folder can be removed after the installation has been successfully finish ed.

It is the author's stance that each distributed file should not always include the runtime drivers because they are shared by programs and, by including them, each distributed (compressed) file would become considerably large.

Un-installing ExCalc

Launch Add/Remove Programs in the Control Panel and choose ExCalc.

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Design Note

I have longed to get a free math expression evaluator for my engineering purposes: I used to do calculations like a * x ^ 3 + b * x ^ 2 + c * x + d or ATN{(a - b) / (c - d)} and change one of variables. It was something like ATN{(5.783E+05 - 1.345E+05) / (3.255E-03 - 2.288E-03)} and 3.255E-03 to be replaced with other values for instance. I have intensively searched the web in vain, so I wrote this program. It is small enough in size not to hinder other windows and always visible while doing other tasks.

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