

RedCrab - The Calculator, Update History

Version 4.46 24.02.2014	<p>New</p> <ul style="list-style-type: none"> - Definition of functions <p>Bug fixes</p> <ul style="list-style-type: none"> - Insert overwrote the character left to the root symbol. - Memory management improved. - Calculation of selected formulas improved.
Version 4.45 10.02.2014	<ul style="list-style-type: none"> - Chart box improved: dialog box for axes settings. X axis reference. - Security update: memory management improved. - Bug fix: Error in insert column fixed (colon was overwritten)
Version 4.44 20.01.2014	<ul style="list-style-type: none"> - Selection of formulas with a mouse click - Calculation of selected formulas - error message system is improved: identify and report of wrong user setting in <i>Long Term</i> mode - Security Update: bug fixes in Editor and data encapsulation in recursive function calls <p>New Video: http://www.redchillicrab.com/en/redcrab/tutor/selected_range.html</p>
Version 4.43 06.01.2014	<p>New:</p> <ul style="list-style-type: none"> - Debugger for searching and fixing of errors in self written functions - Trace, Watch and Break - Debugger menu: Run, Step into, Step over, Ignore break <p>Security Update: bug fixes</p> <p>New Videos</p> <ul style="list-style-type: none"> - http://www.redchillicrab.com/en/redcrab/tutor/debugger.html - http://www.redchillicrab.com/en/redcrab/tutor/quadratic_equation.html
Version 4.42 08.12.2013	<ul style="list-style-type: none"> - Chart Box settings for series and legends (colour and text). - Print Chart Box. - New Toolbox buttons for “Insert Plot Box” and “View Program Buttons”. - Bugfix; Slider position.
Version 4.41 07.11.2013	<ul style="list-style-type: none"> - New: Copy of ChartBox, ImageBox and ResultBox to clipboard supported. - Worksheet insert and delete improved. - User manual improved: The content overview has hyperlinks to the description. - Freeware and shareware manual are combined in one user manual.
Version 4.40 13.10.2013	<ul style="list-style-type: none"> - New: <i>Plotbox</i> for graphic creation.

	<ul style="list-style-type: none"> - 35 new functions support the Plotbox: PlotLine, PlotRect, PlotEllipse, PlotPie, Polybizier, PenColor, PenStyle, BrushColor
Version 4.34 02.10.2013	<ul style="list-style-type: none"> - Security Update : Bug fix in program editor - New functions Sqr and Sqrt - New input and output functions in program interpreter : Input, Display and Menu (see demo program: Finance.rcc)
Version 4.33 13.01.2013	<ul style="list-style-type: none"> - Security Update : Bug fixes in Worksheet and Program Editor - In self programmed functions, the index of data fields now begins with [1] instead with [0]. If you use direct access to single element of data fields in your program, please change this to the new ruling. - New Constants: TRUE = 1; FALSE = 0
Version 4.32 13.01.2013	<ul style="list-style-type: none"> - Slider box available in freeware - The on/off state of the function panel is saved, and restored if RedCrab restarts. - In definition of data fields you can insert extern data tables and variables qualified by module name. - Call of self written functions with empty parameter list enabled. - Assign to single rows in data fields (a [b]=c). - Definition and assign to data fields improved: „ Let x[] = a * b „, and „define x[]= [1..16]*[1..4] fill 0 „, enabled. - Automatic index handling per Next command in data field assignment (RedCrab program language). - New Index function returns the last index which is used by Next. - Bug fix in transparency of result boxes. - Display of error message position improved.
Version 4.31 13.12.2012	Freeware & Shareware Upgrades: <ul style="list-style-type: none"> - The reference variable of result boxes can now be input with keyboard. - Undo function improved

	<p>Bug fixes:</p> <ul style="list-style-type: none"> - Chart box becomes invisible, when toggled between <i>NonSync</i> and <i>GridSync</i> mode. - After loading of <i>RedCrab</i>^{PLUS} demo files in freeware mode, there was a problem with saving of freeware files. - The definition of complex data field which includes data ranges could cause a runtime error. <p>Shareware only</p> <p><i>RedCrab</i> creates a button for any function in the program editor.</p> <p>Insert of sliders in the worksheet. You can use the slider like a variable in any expression. The adjustment of the slider changes the output value.</p>
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<p>Version 4.30 04.11.2012</p>	<ul style="list-style-type: none"> - Windows 8 tested and user interface upgraded. - Rectangle buttons with larger text fields improved the readability of function names on high resolution displays. - Adjustable size of function panel and buttons improved the readability and handling on touch screens and tablet pc. - The command line start option “/d“, reset the Windows Registry settings.
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<p>Version 4.21 26.06.2012</p>	<p>Freeware</p> <p>New features:</p> <p>The Freeware can load data sheet which includes shareware programs and the worksheet is free to use. But the program code is read only and file saved is disabled.</p>	<p>Shareware</p> <p>Bug fix:</p> <p>Invalid symbols in program code can freeze the program.</p> <p>Bug in Undo function fixed.</p> <p>Problem with saving of PHP files fixed.</p>
	<p>The display settings of FIX and FLT buttons, number of displayed digits and the EXP (exponent) are saved to data files. Reload of the files restores the settings.</p> <p>New program modules for conversion of length, areas, volume etc.</p> <p>Bug fix in display module</p>	

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Version 4.20 16.06.2012	Freeware <ul style="list-style-type: none"> - Bugfixes - Insert function upgraded - Content of chart boxes can be zoomed 	Shareware <ul style="list-style-type: none"> - Write your own functions in RedCrab's built-in programming language - Writing and running PHP programs in RedCrab's integrated programming environment. - Access to Microsoft Excel Tables - Access to database Microsoft Access - Access to database MySQL via TCP/IP - Import of data lists via text files, - Input of data list in text editor
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Version 4.14 20.05.2012	New features: <ul style="list-style-type: none"> - <i>DTime</i> returns the <i>DateTime</i> value for date and time calculation - <i>DTimeF</i> formats <i>DateTime</i> in year, month, day, hour, minute and second - <i>DateTime</i> values can be displayed as formatted text in result boxes. - <i>Det</i> returns the determinant of a 2x2 or 3x3 matrix. - <i>Invx</i> inverse a 2x2 or 3x3 matrix. - In field-definition you can optionally specify the increment of a range. - Display of tables improved.
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Version 4.13 12.04.2012	New features: <ul style="list-style-type: none"> - Access to single cells in multidimensional fields. - Dim(x) returns the number of dimensions of data fields. - Cols(x) returns the number of columns of data fields. - Rows(x) returns the number of rows of data fields. - Input of binary- and octal numbers. - Output of binary- and octal numbers in result boxes. Bug-fixes: <ul style="list-style-type: none"> - Runtime error by invalid input of: $x=x[1..4]$ fixed. - Flickering of function panel (right) by pressing of Ctrl + Enter fixed. - Runtime error by invalid option in result boxes fixed.
Version 4.12 19.03.2012	New features By chart boxes, the option X/Y position allows the free definition of <i>X</i> and <i>Y</i> coordinates. Bug-fixes: Run time error fixed in display module: problem happened when displayed single-column field or more chart boxes. Use of constant “e” results in a wrong error message.
Version 4.11 05.03.2012	New features <ul style="list-style-type: none"> - The decimal key below the numeric keypad (point / comma) produces a decimal point always, regardless of the country setting. - For the function "SUM ()" you can use alternate the Greek letter "Σ". Bug-fixes CPU freezes when subscript symbols were behind a number. Corrected error message when field definition is wrong [1..(a*b)].
Version 4.10 04.02.2012	New features for field and financial calculation <i>AddIn, AddTo, AddOn, MulIn, MulTo, MulAd, Patt</i> Bug-fix: When inserting columns, problems occurred when result was behind a formula. Mouse pointer showed wrong symbol when leaving text box. Runtime error under Linux OS / Wine fixed.
Version 4.0 18.12.2011	Difference to 4.0 beta, improvements in details, particularly in display of chart boxes and tables.
Version 4.0.beta 05.12.2011	News in Version 4.0: Calculation with multidimensional data fields.

	<p>Chart boxes to display results graphically. Variable overload</p> <p>Standard Functions:</p> <p><i>Round</i> rounded to the nearest whole number. <i>Int</i> returns the integer part of a value. <i>Frac</i> returns the fractional part of an argument. <i>Rnd</i> returns a random integer number. <i>Abs</i> returns the absolute value of numbers and fields.</p> <p>Functions / operators of dynamic data fields:</p> <p><i>Join</i> connects one or two-dimensional fields with each other. <i>Fill</i> fills all elements of a field with a specified value. <i>Mulx</i> operator for multiplication of matrices. <i>Trans</i> producing the transpose of a matrix . <i>Min</i> return the minimum value of fields. <i>Max</i> return the maximum value of fields. <i>Count</i> returns the number of elements of fields. <i>Aver</i> returns the mean values of successive elements of fields. <i>URnd</i> fills a field with a series of unique random numbers.</p> <p>Statistic functions</p> <p><i>Sum</i> returns the sum of the elements in fields. <i>Prod</i> returns the product of all elements of fields. <i>Cusum</i> returns cumulative sum. <i>Sort</i> sorts field elements from low to high values. <i>DSort</i> sorts field elements from high to low values . <i>Median</i> returns the median value of fields . <i>Mean</i> returns the mean value of field. <i>Vari</i> returns the variance of data fields . <i>SVari</i> returns the variance of an exsample. <i>StDev</i> returns the standard deviation of data fields. <i>SStDev</i> returns the standard deviation of examples. <i>Diff</i> returns the difference values of successive elements of fields. <i>LQuart</i> returns the value of the first quartile. <i>UQuart</i> returns the value of the third quartile. <i>QRan</i> returns the area from the 1st to 3rd quartiles.</p>
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