

MegaCalc v.2.1

Megasoft2000 Ltd 1999 - 2002
Palm Software Division (PSD)
Platform: Palm OS 3.0, 3.1, 3.2, 3.3, 3.5, 4.0, 4.1, 5.0

MegaCalc installation

To install this utilities you should synchronize the "MegaCalc_xxx.prc" application to your device.

Files can be installed by using the Desktop S/W or just any other application.

1. For color device (Palm OS 5.0 device and Acer s50/s60) – MegaCalcC_OS_5.prc
2. For color device (Sony, 320x480) – MegaCalcC_HR_Plus.prc
3. For color device (Sony, 320x320) – MegaCalcC_HR.prc
4. For color device (Sony, 320x320, Palm OS 3.5) – MegaCalcC256_HR.prc
5. For gray device (Sony T4xx, 320x320) – MegaCalcG_HR.prc
6. For color device (160x160) – MegaCalcC.prc
7. For gray device (160x160) – MegaCalcG.prc
8. For mono device (160x160) – MegaCalcB.prc

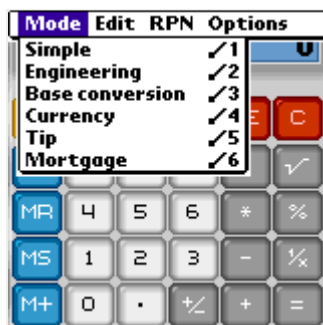
Note: To run this application MathLib is required.

About MegaCalc

The MegaCalc application is a multifunctional calculator designed to implement the same operations as an ordinary calculator does. It fulfils basic arithmetic operations, such as addition and subtraction and also the functions of engineering calculator, for example determination of logarithms and factorials. Now you don't have to carry some extra calculator with you.

Basic modes:

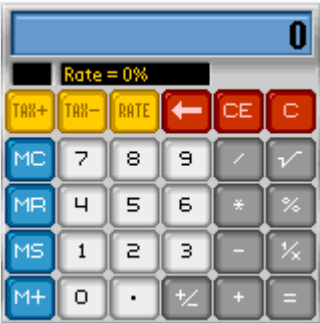
- Simple
- Engineering
- Base conversion
- Currency
- Tip
- Mortgage



Use the menu to switch the modes. Press the "Menu icon" button to choose the desired mode.



Simple mode



This mode is a substitute for a standard (built-in) calculator. Its advantages over the standard type are as follows:

- Faster loading
- Adding of such useful and everyday functions as TAX+, TAX-, RATE
- Soft and good-looking graphical interface.



LCD panel



Adds the Tax Rate



Subtracts the Tax Rate



Tax Rate



Backspace key: Clears the last digit entered from the display and shifts other displayed numbers 1 digit to the right



Clear indicator key: Clears numbers just entered



Clear all. For clearing all entries and results



Memory clear key



Memory recall key: For recalling memory contents



Memory store key: For storing the displayed number in the memory



Memory plus key: For adding numbers to the memory contents









Basic function keys. Used for basic arithmetic calculation. Press keys as they are written



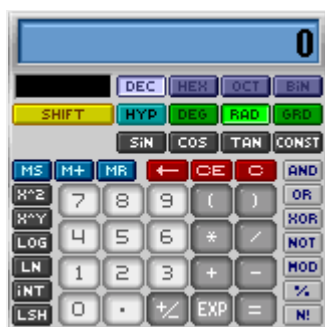
Sign change key. For changing the sign (+ or -) of the displayed mantissa and exponents



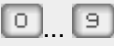















Square root key




























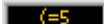
	Percent key: Used for percentage, add-on and discount calculations
	Reciprocal key
	Numeric keys: Enter numbers
	Decimal point key: Enter a decimal point
	Rate value
	Memory sign

Engineering mode

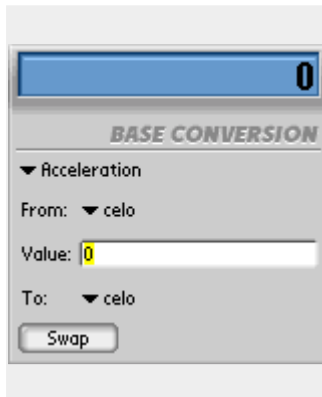


Engineering calculator includes all the basic logical, mathematical and geometric functions used for every day calculations.

	Numeric keys: Enter numbers
	Decimal point key: Enter a decimal point
	Sign change key. For changing the sign (+ or -) of the displayed mantissa and exponents
	Exponential key: Used to enter exponents
	Open, close parentheses keys: For performing parentheses calculations
	Decimal calculation mode
	Hexadecimal calculation mode
	Octal calculation mode
	Binary calculation mode
	Shift key: For performing functions indicated by yellow color after depressing this key
	Hyperbolic key: For performing hyperbolic functions for sine, cosine and tangent keys.
	Degree/Radian/Gradient mode key: For changing angle units and converting angle values to different units
	Sine, cosine, tangent keys
	Constant key: Calls out the constant to the display
	Square key
	Raising to power key

	Common logarithm key
	Natural logarithm key
	Integer display key: Omits the fractional part of the value and display only the integer portion
	Digit Left Shift key. After this key is pressed it is necessary to point out how many digits of the represented number must be left shifted. Then press the key "="
	AND key
	OR key
	XPR key
	NOT key
	Evaluation of a residue of division X by Y. This key operates as a binary operator.
	Percent key
	Factorial key
	Square root key
	Multiple root key
	Common exponential key
	Exponential function key
	Fraction display key: Omits the integer portion of the value and displays only the fractional portion
	Digit Right Shift key. After this key is pressed it is necessary to point out how many digits of the represented number must be right shifted. Then press the key "="
	Arc sine key
	Arc cosine key
	Arc tangent key
	Hyperbolic sine key
	Hyperbolic cosine key
	Hyperbolic tangent key
	Hyperbolic arc sine key
	Hyperbolic arc cosine key
	Hyperbolic arc tangent key
	Hexadecimal number entry keys
	Representation of the number of the opening (left) parentheses without the corresponding closing (right) parentheses.

Base conversion mode



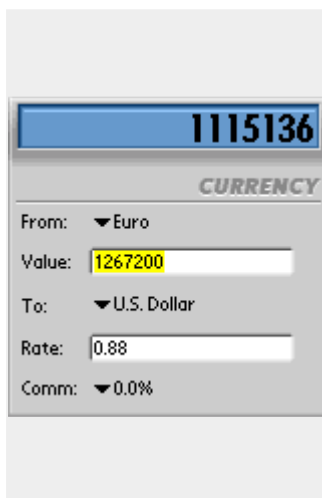
This mode allows you to convert all possible values without any difficulties.

Sample operation:

- Select the desired value, for example "Lenght"
- Select the desired parameter (From), which is needed to be converted
- Enter the sum of the parameter being converted in the field "Value"
- Select the (To), to which you want to convert.

Swap - This is change current "From" and "To" units.

Currency mode

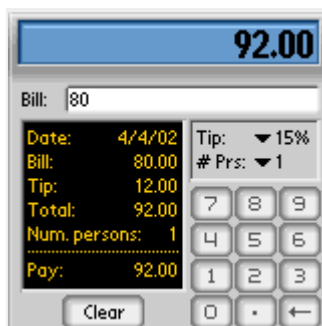


"Currency" mode enables the user to convert all the main types of currencies and also those currencies that were entered by the user.

Sample operation:

- Select the desired currency (From), which is needed to be converted
- Enter the sum of the currency being converted in the field "Value"
- Select the currency (To), to which you want to convert
- Enter the exchange rate in the field "Rate"
- Set the necessary bank interest for this operation (Comm). This particular value depends fully on the bank. If this value is not available in the bank, set it to 0%.

Tip mode



This mode will be very helpful when you visit cafes, restaurants and travel by taxi, etc.

Here is an example: you've got \$80 bill in the restaurant. You need to calculate the sum of money you should leave as a tip. So, in the "Bill" field enter 80, then choose the percentage of the tip in the drop-down list "Tip:" (in our case let it be 15%), then in the "#Prs:" drop-down list enter the total number of people who are accompanying you if you intend to share the bill with the others, however in our particular case we've got only one person – You. Thus you are to pay the waiter \$92.

Mortgage mode

209.11

MORTGAGE

Loan amount:

25000

Loan term:

20

▼ Years

Interest rate:

8

% per year

Annual tax:

0.00

Annual insurance:

0.00

This is simple mortgage calculator.

- Loan amount** - The total amount of the money that you have borrowed.
- Loan term** - The number of years or months you have to pay the loan.
- Interest rate** - The exact interest rate on your mortgage.
- Annual tax** - Property tax is also called real estate tax. This tax is paid to the local taxing authority or municipality.
- Annual insurance** - Also called property insurance, homeowner's insurance protects the homeowner from weather-related damage, as well as potential liability from events that occur on the property.

Adjustments



Press the button "Menu icon" to select the adjustments:

Mode Edit RPN Options

Simple ✓1

Engineering ✓2

Base conversion ✓3

Currency ✓4

Tip ✓5

Mortgage ✓6

MR

4

5

6

*

%

MS

1

2

3

-

1/x

M+

0

.

+/-

+

=

Select one of the six calculator modes available.

- Simple
- Engineering
- Base conversion
- Currency
- Tip
- Mortgage

Mode Edit RPN Options

Copy ✓C

Paste ✓V

TAB+

TAB-

RATE

←

CE

C

MC

7

8

9

/

✓

MR

4

5

6

*

%

MS

1

2

3

-

1/x

M+

0

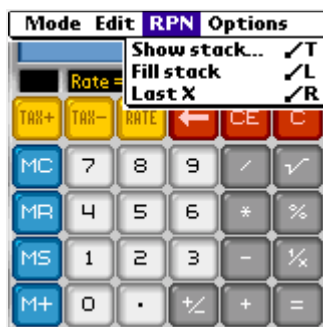
.

+/-

+

=

Copy/Past - Buffer operations (clipboard).



All these functions are available if the "RPN" mode is set in the "Entry-system logic" option in "MegaCalc preferences".

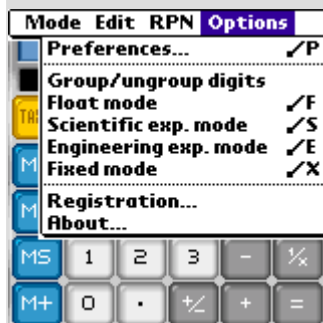
Show stack... - RPN stack window activation.

Fill stack - The number contained in X register is placed into all RPN stack registers.

Last X - The number that was in X register until the last calculation operation is placed into X register.

Preferences - Basic adjustments of the MegaCalc application

Group/ungroup digits - Switching Group/ungroup digits mode ON/OFF. This allows grouping the big number digits, which makes an easy viewing. MegaCalc uses the proper decimal mark character as defined in your PalmPilot's Preferences number format setting.



Float mode - In this mode the number in the range of (1e-15, 1e15) is displayed "as it is" up to 15 signs. The number that exceeds the pointed limits is displayed in the Scientific exponential mode.

Scientific exp.mode - In this mode the number is displayed in the exponential form, mantissa to be constantly < 10

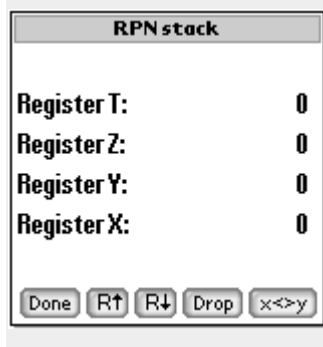
Engineering exp. mode - In this mode the number is displayed in the exponential form, mantissa to be constantly < 1000, and exponent to be multiple of 3

Fixed mode - In this mode the number of decimal digits in the mantissa of the decimal calculation results is specified by MegaCalc preferences (number of digits in fixed mode)

Registration... - Registration of the MegaCalc application

About... - Information about the MegaCalc application developers

Show stack



Description: In this window you can look through all 4 stack registers (X, Y, Z, T), and also perform simple operations.

R↑ - Upward cyclic shift of the stack. The number transfers from X register to Y register, from Y to Z, from Z to T, from T to X.

R↓ - Downward cyclic shift of the stack. The number from register T transfers to Z register, from Z to Y, from Y to X, from X to T.

Drop - Drop stack operation. The number in T register remains constant, the number from T register transfers to Z register, from Z to Y, from Y to X. The number that was in X register is lost.

x<->y - Swap the values of registers X and Y

Preferences - Basic adjustments of the MegaCalc application

Use Calculator icon for launch - In this mode, when the button "Calculator icon" is pressed MegaCalc launches instead of the standard calculator PalmOS.

Default display mode - determines number representation mode, which will be set after the MegaCalc (Floating, Scientific exponential, Engineering exponential, Fixed) application is launched. When "Last" mode is selected, the program will set the mode which was previously set before the exit.

Default calculator mode - determines MegaCalc launching mode (Simple, Engineering, Convert). When "Last" is selected, MegaCalc will be launched in the mode which was previously set before the exit.

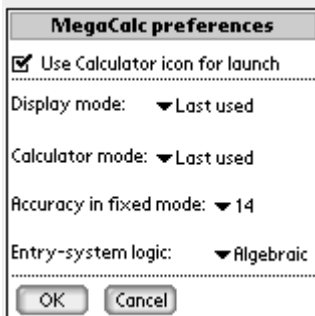
Accuracy in fixed mode - specifies the number of decimal digits in the mantissa of the decimal calculation results.

Entry-system logic - sets the data input order and calculation sequence. It can be:

1) Simple. In this mode the data and the operators are entered in the consequence in which they are written, the calculations are performed without the priority of the operations, that is the expression $1 + 2 * 3$ is entered as `[1][+][2][*][3][=]` and will give 9 in the result. So, addition is performed first, and then comes the operation of multiplying. To perform the operation of multiplying first place you need to enter the expression as `[2][*][3][+][1][=]`, or as `[1][+][()][2][*][3][)][=]`. In both cases we will get 7 as a result.

2) Algebraic. In this mode the data and the operators are entered in the consequence they are written, however the calculations are performed regarding the operations priority. That is the expression $1 + 2 * 3$ is entered as `[1][+][2][*][3][=]` and will give 7 as a result. Thus, multiplying is proceeded first (with the higher priority), and then the operation of addition (with the lower priority).

3) RPN (Reverse Polish Notation). This mode is a postfix mode (the operators are entered after the data). It enables to do without the parentheses during the calculations. The expression $1 + 2 * 3$ is entered as `[1][ENT][2][ENT][3][*][+]` and will give 7 in the result, or as `[1][ENT][2][+][ENT][3][*]` and will give 9 in the result.



Registration... - Registration of the MegaCalc application

Once you have purchased the MegaCalc application, you'll get the registration code, which is necessary to enter in the registration field to complete the registration of the program.

Note: All the subsequent versions of this application are free for the registered customers!



About - Information about the MegaCalc application developers

Free usage of the MegaCalc is limited by 14 days.

URL: <http://www.megasoft2000.com>

E-mail: support@megasoft2000.com

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