

convcalc

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REVISION HISTORY

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Contents

1 convcalc	1
1.1 ConvCalc 2.0 -- May 28, 1995	1
1.2 ConvCalc - Overview	1
1.3 ConvCalc - Requirements	2
1.4 ConvCalc - Window Layout	2
1.5 ConvCalc - Menus	3
1.6 ConvCalc - Conversion Units Index	3
1.7 ConvCalc - ARexx Commands	4
1.8 ConvCalc - ARexx: PROJECT-RELATED COMMANDS	5
1.9 ConvCalc - ARexx: BLOCK-RELATED COMMANDS	5
1.10 ConvCalc - ARexx: WINDOW-RELATED COMMANDS	6
1.11 ConvCalc - ARexx: APPLICATION-SPECIFIC COMMANDS	8
1.12 ConvCalc - ARexx: INTERFACE COMMANDS	9
1.13 ConvCalc - Startup Error Messages	9
1.14 ConvCalc - Error Messages	10
1.15 ConvCalc - About the Author	10
1.16 ConvCalc - Magic User Interface	11
1.17 ConvCalc - Glossary	11

Chapter 1

convcalc

1.1 ConvCalc 2.0 -- May 28, 1995

```
ConvCalc      (C) 1995  John M Haubrich Jr
All Rights Under Copyright Reserved

Version 2.0
May 28, 1995
```

```
Overview
Requirements
Window Layout
Menus
Conversion Units Index
ARexx Commands
Startup Errors
Error Messages
About the Author
Magic User Interface
Glossary
```

1.2 ConvCalc - Overview

```
ConvCalc      (C) 1995  John M Haubrich Jr
All Rights Under Copyright Reserved

Version 2.0
```

May 28, 1995

ConvCalc is a typical four function calculator with the ability to convert between units. This is useful for English <-> Metric conversions, cooking ("How many pints in a quart?"), etc.

1.3 ConvCalc - Requirements

ConvCalc 1.0 requires the following:

- AmigaDOS 2.04 or higher.
- Magic User Interface 2.0 or higher.

1.4 ConvCalc - Window Layout

The main window consists of:

- Conversion Units Type:

Length
Volume
Weight

and any others you define.

Conversion Units Index

- Input and Output Areas

You enter data in the INPUT area on the left; when you hit Convert, the result appears in the OUTPUT area.

- Input and Output Unit Lists

Select the units to convert from (left side) and to (right side). Note that the unit lists change depending on the Conversion Units Type cycle gadget described above.

- Fractions Pad

In the lower left corner, five gadgets show commonly used fractions. To ADD these fractions to the current INPUT value, simply click the button.

NOTE: Clicking a fraction ADDS the fractions value to the current INPUT value. So to enter a value of 2 2/3, click '2' then '1/3' twice!

- Numeric Pad and Operators
-

The traditional numeric pad mimics the numeric keypad found on all Amigas (except the A600 and A1000). All buttons have the expected keyboard equivalents.

- Convert Button

Press the Convert button to have the INPUT value converted according to the units specified in the Unit Lists.

1.5 ConvCalc - Menus

Project |

New	- Resets program and clears all data
~~~~~	
Open...	- Reads a ConvCalc data file holding conversion units and values.
Save	- Saves current data to current file.
Save As...	- Prompts for file name and saves all data.
~~~~~	
About...	- Gives program author and version information.
~~~~~	
Quit	Q - Quits ConvCalc.

Edit |

-----

Cut	X - Copy OUTPUT data to @{" clipboard " link "glossary ↔
"}	
	NOTE: There is NO DIFFERENCE between CUT and COPY for this program. CUT just doesn't make sense.
Copy	C - Copy OUTPUT data to @{" clipboard " link "glossary ↔
"}	
Paste	V - Paste @{" clipboard " link "glossary"} data to INPUT ↔
.	

Settings |

-----

Verify Clears?	- If checked, verify all CLEARs. ("Are you sure...?")
~~~~~	
Units Definition...	- Allows you to define your own units
Precision >>	- Sets the precision of the output value (1..7) The default precision is 4.
~~~~~	
Save Settings	- Save settings to icon.

## 1.6 ConvCalc - Conversion Units Index

LENGTH

Inches

---

Feet  
Yards  
Miles  
METRIC:Meters

#### VOLUME

Ounces  
Pounds  
METRIC:Grams

#### WEIGHT

Teaspoons  
Tablespoons  
Fluid Ounces  
Cups  
Pints  
Quarts  
Gallons  
METRIC:Liters

## 1.7 ConvCalc - ARexx Commands

### PROJECT-RELATED COMMANDS

NEW

CLEAR  
CLOSE  
QUIT

### BLOCK-RELATED COMMANDS

CUT

COPY  
PASTE

### WINDOW-RELATED COMMANDS

MOVEWINDOW

SIZEWINDOW  
CHANGEWINDOW  
WINDOWTOFRONT  
WINDOWTOBACK  
ACTIVATEWINDOW  
ZOOMWINDOW  
UNZOOMWINDOW  
ZIP  
UNZIP

### APPLICATION-SPECIFIC COMMANDS

CONVERTUNITS

INPUTVALUE  
INPUTUNITS

---

OUTPUTUNITS  
CONVERT

INTERFACE COMMANDS  
LOCKGUI

UNLOCKGUI

## 1.8 ConvCalc - ARexx: PROJECT-RELATED COMMANDS

NEW  
DESCRIPTION  
NEW clears the calculator. This is the same as a complete reset.

RETURNS  
none

CLEAR FORCE/S  
DESCRIPTION  
CLEAR clears the calculator. The FORCE option will bypass the  
Verify Clears Requester  
even if set  
by the user in the Settings menu or the icon's ToolTypes.

RETURNS  
none

CLOSE  
DESCRIPTION  
CLOSE clears the calculator. This command is provided for AUISG compatibility.

RETURNS  
none

QUIT  
DESCRIPTION  
QUIT exits the application.

RETURNS  
none

## 1.9 ConvCalc - ARexx: BLOCK-RELATED COMMANDS

CUT  
DESCRIPTION  
CUT copies the current OUTPUT value to the @{" clipboard " link " ↔ glossary"}. Note

---



that the CUT command merely copies data; it does not affect the data inside the calculator. In other words, the CUT command is provided for AUISG compatibility and works the same as the COPY command.

RETURNS  
none

#### COPY

##### DESCRIPTION

COPY copies the current OUTPUT value to the @{" clipboard " link " ↔ glossary"}.

RETURNS  
none

#### PASTE

##### DESCRIPTION

PASTE will insert the contents of the @{" clipboard " link "glossary"} ↔ into the OUTPUT buffer if the contents are numeric.

RETURNS  
none

## 1.10 ConvCalc - ARexx: WINDOW-RELATED COMMANDS

MOVEWINDOW LEFTEDGE/N, TOPEDGE/N

##### DESCRIPTION

LEFTEDGE is the horizontal ( <- X -> ) coordinate.

^  
|  
TOPEDGE is the vertical ( Y ) coordinate.  
|  
v

RETURNS  
-1 = Couldn't move window to specified location.  
0 = OK

SIZEWINDOW WIDTH/N, HEIGHT/N

##### DESCRIPTION

WIDTH and HEIGHT specify the width and height of the window in pixels.

RETURNS  
-1 = Couldn't size window to specified limits.  
0 = OK

CHANGEWINDOW LEFTEDGE/N, TOPEDGE/N, WIDTH/N, HEIGHT/N

DESCRIPTION

CHANGEWINDOW performs a sizing and a move operation on the window in a single step for greater visual appeal.

LEFTEDGE is the horizontal ( <- X -> ) coordinate.

TOPEDGE is the vertical ( Y ) coordinate.

WIDTH and HEIGHT specify the width and height of the window in pixels.

RETURNS

-1 = Couldn't move or size window to specified limits.  
0 = OK

WINDOWTOFRONT

DESCRIPTION

WINDOWTOFRONT brings the window to the front of all other windows.

RETURNS

-1 = window was not open and therefore couldn't bring to front.  
0 = OK

WINDOWTOBACK

DESCRIPTION

WINDOWTOBACK pushes the window behind all other windows.

RETURNS

-1 = window was not open and therefore couldn't pushed to the back.  
0 = OK

ACTIVATEWINDOW

DESCRIPTION

This command activates the window.

RETURNS

none

ZOOMWINDOW

DESCRIPTION

This command zooms the window to its alternate size.

RETURNS

none

---

UNZOOMWINDOW WINDOW

DESCRIPTION

This command restores the zoomed window to its original size.

RETURNS

none

## 1.11 ConvCalc - ARexx: APPLICATION-SPECIFIC COMMANDS

CONVERTUNITS UNITS/A

DESCRIPTION

UNITS is a valid conversion unit. Specify the text as shown in the listbox. For example, "inches" or "teaspoons".

See

Conversion Units Index

.

RETURNS

Returns ERROR if specified units are not found in the current list. Make sure you've set the proper Conversion Units Type using the CONVERTUNITS command above!

INPUTVALUE VALUE/A

DESCRIPTION

Sets the INPUT value. Make sure the value is numeric!

RETURNS

none

INPUTUNITS UNITS/A

DESCRIPTION

Selects the input units from the Input Units List

.

If the unit you specified is not available, nothing happens.

RETURNS

Returns ERROR if specified units are not found in the current list. Make sure you've set the proper Conversion Units Type using the CONVERTUNITS command above!

OUTPUTUNITS UNITS/A

DESCRIPTION

Selects the output units from the Output Units List

.

If the unit you specified is not available, nothing happens.

RETURNS

Returns ERROR if specified units are not found in the

current list. Make sure you've set the proper Conversion Units Type using the CONVERTUNITS command above!

#### CONVERT

##### DESCRIPTION

Converts the current input value, using the Input and Output conversion units, and places the result in the OUTPUT area. Also, returns result in the ARExx variable RESULT.

##### RETURNS

Value of conversion operation in RESULT.

## 1.12 ConvCalc - ARExx: INTERFACE COMMANDS

#### LOCKGUI

##### DESCRIPTION

This command inhibits the graphical interface of the application. It puts all windows to "sleep" until reversed by an UNLOCKGUI command.

##### RETURNS

none

#### UNLOCKGUI

##### DESCRIPTION

This command enables the graphical interface of the application. It awakens all windows put to "sleep" by a LOCKGUI command.

##### RETURNS

none

## 1.13 ConvCalc - Startup Error Messages

Cannot open dos.library 37+  
Cannot open intuition.library 37+  
Cannot open gadtools.library 37+  
Cannot open graphics.library 37+  
Cannot open asl.library 37+  
Cannot open utility.library 37+

- An Amiga system library could not be found. Libraries should be in your LIBS: path.
- ConvCalc requires version 37 or higher of each library. This corresponds to AmigaDOS 2.04 or higher. ConvCalc will not run without these libraries. See also Requirements

Use the AmigaDOS VERSION command to determine the version of the libraries you are using.

---

Cannot open muimaster.library  
ConvCalc requires MUI Release 2.0 or higher.

Use the AmigaDOS VERSION command to determine the version of the libraries you are using.

Cannot open clipboard.device  
· The clipboard.device could not be found in your DEVS: path.

Cannot allocate clipboard IO request buffer.  
There was insufficient memory for a needed clipboard buffer.  
Try freeing some memory by stopping some applications, closing some windows or rebooting your Amiga.

Cannot create clipboard message port.  
A required clipboard message port couldn't be created.

## 1.14 ConvCalc - Error Messages

Expression too complex.  
Only equations with 48 or fewer operators may be entered before hitting EQUALS.

Negative result!  
ConvCalc cannot handle negative numbers. This has little practical use for conversion processing, anyway.

OpN stack underflow!  
Not enough data was present on the stack to process the EQUALS command. You probably mistyped the equation.

Unable to launch the specified macro!  
The macro (or ARexx script) you specified could not be run for some reason.

## 1.15 ConvCalc - About the Author

ConvCalc (C) 1995 John M Haubrich Jr  
All Rights Under Copyright Reserved  
Version 2.0  
May 28, 1995

This program is NOT public domain. However, it is freely redistributable. To get in touch with me, send e-mail to the InterNet address below.

InterNet: johnh@tyrell.net

///  
///  
///  
A U G K C

```

\\ \\\\ // Over 1 Gig Online including Fred Fish
\\ \\\\ // 816-444-0391 Zoom Telephonics VFX 28.8
 \XX/ 816-444-0392 US Robotics DS v.32bis/ASL

```

## 1.16 ConvCalc - Magic User Interface

This application uses

MUI - MagicUserInterface

(c) Copyright 1993/94 by Stefan Stuntz

MUI is a system to generate and maintain graphical user interfaces. With the aid of a preferences program, the user of an application has the ability to customize the outfit according to his personal taste.

MUI is distributed as shareware. To obtain a complete package containing lots of examples and more information about registration please look for a file called "muiXXusr.lha" (XX means the latest version number) on your local bulletin boards or on public domain disks.

If you want to register directly, feel free to send

DM 30.- or US\$ 20.-

to

Stefan Stuntz  
 Eduard-Spranger-Straße 7  
 80935 München  
 GERMANY

## 1.17 ConvCalc - Glossary

AUISG

The Amiga User Interface Style Guide (AUISG) provides a standard for the look and behavior of Amiga software. ConvCalc attempts to conform to the AUISG whenever possible (and practical).

Clipboard

The @{" clipboard " link "glossary"} is an AmigaDOS device that allows ↔ applications to share data between themselves. All @{" clipboard " link "glossary"} ↔ data is stored in IFF format, allowing you to CUT or COPY data from one application and PASTE it into another.

Magic User Interface

MagicUserInterface (or MUI) is the system responsible for the

layout and appearance of ConvCalc's visual interface. MUI is copyright 1993 Stefan Stuntz. ConvCalc requires MUI 2.0 or above.

See

    Magic User Interface

    .

MUI

    See Magic User Interface.

Verify Clears Requester

    If this option is specified, an "Are you sure you want to clear?" message will prompt you to verify that you meant to hit the 'C' clear button. This will also appear if NEW or CLOSE ARexx commands are used to clear the calculator. You can override this requester by using a CLEAR FORCE command under ARexx (or by turning it off!).

See

    Menus

    for more information.