

**EqEd**

**COLLABORATORS**

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# Chapter 1

## EqEd

### 1.1 EqEd.guide

Equation Edit

\*\*\*\*\*

Equation Edit (EqEd) is a program to create mathematical equations and expressions, which is to be inserted in a report or similar. It supports output to LaTeX and wordprocessors.

This is for version 0.91 Beta release

Introduction

- What is this thing

Requirements

- Will it run on my system?

Copyright

- Legal stuff

Installation

- How to get it to work - read it!

Basic usage

- Quick start

Main window

- The explanation of gadgets

Keys

- Which keys does what

Menus

- How to get it onto disk

AREXX

- How to integrate it into your wordprocessor

Future  
- What is to come

Register  
- Don't worry - no ShareWare fee

The Author  
- That's me

Appendix:

MUI  
- What is MUI and how to use it

Program history

## 1.2 EqEd.guide/Introduction

Introduction

=====

Until now the wordprocessors available for the Amiga computers has been missing a lot of the features, which wordprocessors for the PC has. One of these is the ability to write complex mathematical expressions, which is important if you are making a scientific paper, report and such. So far the only choice has been to use LaTeX, which makes great output, but it takes time to learn, since it's actually a whole programming language. It is also easier (but not necessarily faster) to use a WYSIWYG interface, especially if you are just doing a few expressions.

This is where my program comes in. It lets you design your expressions in a (hopefully) easy to understand WYSIWYG manner, and export it for insertion in your favourite wordprocessor like FinalWriter, WordWorth or a DTP-program like PageSetter. I've only seen one program, called Math Paint, which tried to do something similar, but as its name says was a paint program not a real editor, and I didn't like it.

This is released as a public beta version. This means it doesn't have all the functions the final release will have and probably it contains numerous bugs. This manual is by no means finished, but look at

Future  
and  
Register  
for more information on this and the betarelease.

For a quick try read the  
Installation  
part first please, and then  
start it. Unknown functions is described by pressing help-key.

Here is a list of some of EqEd's features:

It's WYSIWYG. No need remember how a fraction or integral is done.

It support

- Multiple lines
- and
- Multiple lines
- .

Unlimited nesting of fractions, roots etc.

Output in

- LaTeX
- ,
- PostScript
- and
- IFF
- .

Unlimited size of equations

Userdefineable shortcut keys - see

- Set Key
- Uses
- MUI

- some might thinks that's a fault, not a feature :-)

Online help. Press Help-key with pointer upon gadget or menu.

Clipboard support

### 1.3 EqEd.guide/Requirements

Requirements

=====

It needs an amiga running OS2.04 or better AND

MUI

version 2.2 or

higher. It needs quite a bit of memory and harddiskspace (I think using it on a diskbased system would be very painful!), but it depends on the resolutions wanted. If for instance you want to make equations for a 300x300 dpi printer and save in IFF-format, the fonts alone needs over 800kb of space in memory and cached on disk. That is why 1MB of free ram and diskspace is an absolut minimum and saving IFF-files in a decent resolution demands at least 0.5 MB more. Of course a fast processor won't be bad either as

MUI

isn't that fast and the current

version of EqEd is rather slow. A stock A1200 with harddisk should be able to run it with out any problems, but of course no wordprocessor

can run at the same time.

## 1.4 EqEd.guide/Copyright

Copyright

=====

I hold the copyright for the program and its documentation, but you may of course use any produced equations as you see fit. It may also be distributed freely as long as there is no charge except for disk and a minimal copying fee. It may not be distributed as part of a commercial package or on a magazine disk without my written permission!

In case of doubt please contact me rather than assuming something that might be wrong - see

The Author  
for address.

Of course I will take no responsibility for any damage whatsoever caused by any function or malfunction caused by the program.

I didn't construct the fontrenderer so I have to include the following copyright notice about the fontrenderer engine:

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All Rights Reserved

Copyright Lexmark International, Inc. 1991

All Rights Reserved

Portions Copyright (c) 1990 Adobe Systems Incorporated.

All Rights Reserved

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## 1.5 EqEd.guide/Installation

Installation

=====

It is important you read these simple instructions for the program to function properly.

I guess you have already unpacked the archive, since you can read this and this should have made a directory with EqEd and a few extra files. It has an icon for the directory and the program and doubleclicking on the icon should start program. The first time you start the program it will popup a set resolution window, where you setup the fontsize and resolutions you need, see

Set Resolution

for

details. When you press okay it will start to render the fonts, which will take a lot of time. When it is done it asks for permission to save font cache. Select "Yes" and you won't have to wait when starting it next time. It will then render the IFF-fonts and postscriptmetrics. This takes about 10 minutes on a 25MHz 68030 - I hope to improve the speed later. When it is finally done it has created four files:

EqEd.config: holds the resolutions and other things. See

Set Key

.

EqEdCache.screen: holds the fonts for the the screen display.

EqEdCache.printer: holds the fonts for the IFF-file saves. May be deleted if you'll only use LaTeX or PostScript output.

EqEdCache.ps: holds fontinfo for PostScript saves. May be deleted if you'll only use LaTeX or IFF output.

After these has been made, starting the program will be much faster and you should be ready to use it.

About the fonts.

The program uses adobe type 1 font also called postscriptfonts. This allows me to scale the fonts freely and to generate postscript output. I've included four fonts, which origine from the ghostscript package and they are freely distributable. If you don't like the fonts - they aren't very pretty - you can replace them with some of your own, either by overwriting mine or tell EqEd the name of yours. The latter is done in the file "FontNames". It's default entry is:

Times-Roman.pfb

Times-Italic.pfb

Times-Bold.pfb

Symbol.pfb

You can replace them with your names with full path. It should be obvious what type of chars the font should contain. Don't delete my Symbol font before you try your own - there seems to be trouble with some Symbol fonts, not containing all the symbols or calling them something wrong! If you have already saved a font cache you need to delete that!

The fonts are rendered by the fontengine found in X-windows, see

Copyright  
for more information.

NOTE: I just discovered that my fontrenderer doesn't handle ghostscript fonts, so I had to include the Utopia font from Adobe instead. The postscript output still refers to the Times font, so if you need postscript output, you also need to install a Times font for proper displacements. I hope to solve this problem before the next release - knowledge of a freely distributable Times clone and mathematical fonts would be appreciated.

The Utopia font is accompanied by the following notice:

Permission to use, reproduce, display and distribute the listed typefaces is hereby granted, provided that the Adobe Copyright notice appears in all whole and partial copies of the software and that the following trademark symbol and attribution appear in all unmodified copies of the software:

Copyright (c) 1989 Adobe Systems Incorporated Utopia (R)  
Utopia is a registered trademark of Adobe Systems Incorporated

The Adobe typefaces (Type 1 font program, bitmaps and Adobe Font Metric files) donated are:

Utopia Regular Utopia Italic Utopia Bold  
Utopia Bold Italic

## 1.6 EqEd.guide/Basic usage

Basic usage

=====

Using EqEd should be quite straight forward. Enter the expression using the keyboard as usual for text and number, changing the font with the two cyclegadgets. Special mathematical symbol can be entered using

the toolbars. Editing can be done by both keyboard and mouse, cutting and copying parts of the expression to be placed elsewhere in the expression. The return key enables multiple lines in the expression, while tab makes leftjustified columns. For faster insertion of symbols, function, greek letters you can use the

Set Key

menu to create keyboard

shortcuts for those. Use

Save prefs

to remember the shortcuts after

quiting the program.

The expression can be saved in five different formats, see

Output Format

about those.

This should cover the basic usage. More detailed information is available in the following sections

Main window

,

Keys

and

Menus

## 1.7 EqEd.guide/Main window

Main window

=====

The main window consists of areas laid out as this:

Functions

Parenthesis

Symbols

Mode

Font

Editing Area

Scrollbar

Click on the appropriate gadget for a description.

## 1.8 EqEd.guide/Functions

---

## Functions

=====

In expressions the names of variables are often written in an italics-font, while function is written in non-italics. To avoid changing

Mode

and typing too much, the most common functions is included in this popupmenu. Just click on the gadget besides the "Functions" text, and you will get listview of the functions. Doubleclicking will enter the function at the cursor.

Some of the functions has limits placed above or/and below the functionname. If you don't need the limit, just move the cursor out of field and the limit disappears. Moving the cursor back into the limit and it will reappear. Currently there is no way to get limits to a function which doesn't have it build in already - this might change if there is a need.

If you need a specific function often, you can make a shortcut key with the

Set Key  
menu.

## 1.9 EqEd.guide/Paranthesis

### Paranthesis

=====

Paranthesises can be entered manually, but when embracing large expressions it is often easier to read if the height of the paranthesis is the same as the height of the embraced expression. This is what this gadget is for. Clicking on it will open a new moveable window which contain four gadgets with different types of paranthesises or similar symbols. Clicking on one of these enters the beginning paranthesis and the end paranthesis with cursor between them. Entering high expression will let the paranthesis grow as the expression grows.

Shortcut keys is done in the

Set Key  
menu.

Note: currently the paranthesis-symbols doesn't grow, so it only makes a difference in the

LaTeX

output, but it is to be implemented fully very soon.

## 1.10 EqEd.guide/Symbols

Symbols

=====

These four symbol gadgets gives access to most common mathematical symbols, such as integrals, roots, fractions... Clicking on one of these opens a new window as with

    Parenthesis

    , where you can select the

symbol you want. All symbols gives what the look like except the four lowest in last of the gadgets. These represent fraction, roots, exponents and indiices. Limits work as with

    Functions

    .

Shortcut keys is done in the

    Set Key

    menu.

Note: currently there is probably quite a few symbols missing and the order isn't exactly logical, so I would like some comments on this one.

## 1.11 EqEd.guide/Mode

Mode

=====

If you look at mathematical expressions in books, most use an italics-font for the letters in the expression except for functions. This is also the default in EqEd, but sometimes you might need to write a word or sentence, and then you can use the Mode gadget. It lets you select between three modes:

    MathMode: italics-font and default mode.

    TextMode: no italic letters - use for written words.

    BoldMode: Uses bold letters - use for vectors for instance.

If no block is selected, choosing a mode doesn't appear to have an effect, but when you start to write the letters will correspond to the chosen mode. When you move about in the expression, the mode gadget changes to reflect the mode of the symbol to left of the cursor, and writing will be in the same mode, unless another is selected.

If a block is selected, the whole block will become the mode you choose in the mode block.

The mode command is also available in the

    Textmode

,  
 Mathmode  
 and  
 Boldmode  
 menus. This gives keyboard shortcuts.

## 1.12 EqEd.guide/Font

Font

====

This works as the  
 Mode  
 gadget except this switches between roman  
 letters and greek letters. When greek is selected, greek letters can be  
 entered by pressing the key, which represent the roman letter that  
 corresponds to the greek letter.

It doesn't operate on blocks, though, as that has little value.

If a single greek letter is used often between roman letters, you  
 can use the

Set Key  
 to redefine a key to give that letter. Entering  
 that won't change the font, so you can enter the greek letter without  
 having change the mode at all (normally you would have to change font  
 twice!)

The font command is also available in the

Roman  
 and  
 Greek  
 menus.

## 1.13 EqEd.guide/Editing Area

Editing Area

=====

This is were it all happens. This is were the entered expression is  
 displayed, as you enter it. Expressions is entered using the

Keys  
 and

the previously described gadgets. It is also possible to use the mouse  
 for placing the cursor or marking blocks. Clicking somewhere moves the  
 cursor to symbol you clicked on, while pressing the left button  
 somewhere and then drag the mouse across some of the expression will

mark these, just as if you used the  
 Mark  
 menu.

## 1.14 EqEd.guide/Scrollbar

Scrollbar

=====

If you create very large expressions they might not be fully shown  
 in the

Editing Area

, so methods to scroll the window is needed. One  
 possibility is to move cursor to the edge of the window and beyond,  
 which will cause the window to scroll. When reviewing an entered  
 expression it can be easier to use the vertical and horizontal  
 scrollbars for fast scrolling around the expression and that is  
 basically what they are for.

Note: For some reason the editing area flickers when using arrow  
 bars, but not when using keymovement - I need to find out why as it  
 isn't exactly pretty.

## 1.15 EqEd.guide/Keys

Keys

====

The keyboard is the fastest way to enter something and it therefore  
 gives access to everything except a few of the menus. The input  
 available can be divided into several groups:

Ordinary letters, numbers and such: These are entered using the usual  
 keyboard keys. Remember that greek letters can be assigned to the  
 keyboard using the

Set Key  
 menu.

Movement: This is done using the four arrowkeys. For faster movement  
 use them in while pressing the Shift- or Alt-key.

Editing: Backspace and Del work as they always does.

Tabulator key: This is for entering  
 Multiple columns  
 expressions.

Return key: This is for entering

Multiple lines  
expressions.

Symbols and functions: These are normally selected with the mouse, but shortcut keys can be made with

Set Key

.

Menus: Most menus has keyboard shortcuts. They are in the standard form: Right-Amiga + key.

Help: Pressing Helpkey will bring up this document and find the appropriate section containing information on the gadget or menu the cursor is placed over.

## 1.16 EqEd.guide/Multiple columns

Multiple columns

=====

When using several lines in an expression, see

Multiple lines

, it is

often necessary to align parts of lines under each other, for instance having several lines with a "=" in the middle. It is also possible to make very simple tables - this might be expanded heavily in an later version, see

Future

.

Using multiple columns is very simple, just press tab and you will get a new column, which is seperated a little from the prior. When making a new line and pressing tab there, the cursor will be positioned under the beginning of the next column, which means that currently the columns are leftjustified.

## 1.17 EqEd.guide/Multiple lines

Multiple lines

=====

Some expressions is too large for a single line, or one might want to make some manipulations of the expression and then you need the multiline function. Simply press the Return key and the current line is split in to two at position of the cursor. Joining the lines again is done with Backspace or Del. You have to be on the outmost level of line or the Return key will just work as the arrow down key - this means you can't split a line in the middle of a fraction for instance.



## 1.18 EqEd.guide/Menu

Menu

=====

EqEd has the following menus:

Project:        Edit:        Modes:        Prefs:

About

Mark

Roman

Set Key

New

Cut

Greek

Set Resolution

Open

Copy

Mathmode

Output Format

Save

Paste

Textmode

Save prefs

Save As

Boldmode

Save font cache

Save To Clip

Line Size

Quit

---

## 1.19 EqEd.guide/About

About

=====

Tells who made the program.

## 1.20 EqEd.guide/New

New

====

Erases the current expression after you confirm it.

## 1.21 EqEd.guide/Open

Open

=====

Opens a requester, so you can select an saved expression to be loaded. It can only load expression saved in

IFF+Native

or

Native

.

## 1.22 EqEd.guide/Save

Save

=====

The current expression is saved to disk in the format selected in

Output Format

. If no name is given to the expression, a requester will be opened.

---

## 1.23 EqEd.guide/Save As

Save As  
=====

This works as  
Save  
except it always pops up a requester.

## 1.24 EqEd.guide/Save To Clip

Save To Clip  
=====

Instead of saving the expression on disk, it is possible to save in clipboard unit 0, for direct insertion in a wordprocessor. This is not possible when output is either

PostScript  
or  
Native  
, but then it isn't

very useful to save those to the clipboard.

## 1.25 EqEd.guide/Quit

Quit  
=====

Should be obvious.

## 1.26 EqEd.guide/Mark

Mark  
=====

This is alternative way of marking a block - see  
Editing Area  
for  
other way. Place the cursor at one end of the part you want to mark,  
select Mark and move to the end. When the wished block is selected, you  
can

Cut  
,  
Copy

---

or change  
Mode  
. Selecting Mark again or entering text  
while marking will abort the marking!

## 1.27 EqEd.guide/Cut

====  
Cut

This one remove an marked block of the expression for later insertion  
at another point. Insertion is done using

Paste  
. Note that it does not  
use the usual clipboarddevice as the expression isn't stored in a  
standard format!

## 1.28 EqEd.guide/Copy

====  
Copy

Works as  
Cut  
except it doesn't remove anything, it just stores a copy  
for later insertion.

## 1.29 EqEd.guide/Paste

=====  
Paste

This inserts an expression previously copied or cut using  
Copy  
or

Cut  
. This is nice when having to use the same subexpression several  
times!

---

### 1.30 EqEd.guide/Roman

Roman

=====

Another way of to change  
Font  
.

### 1.31 EqEd.guide/Greek

Greek

=====

Another way of to change  
Font

### 1.32 EqEd.guide/Mathmode

Mathmode

=====

Another way of to change  
Mode

### 1.33 EqEd.guide/Textmode

Textmode

=====

Another way of to change  
Mode

### 1.34 EqEd.guide/Boldmode

Boldmode

=====

Another way of to change  
Mode

---

### 1.35 EqEd.guide/Line Size

Line Size  
=====

When entering an expressions the font gets smaller and smaller the deeper the expression is nested in fractions, root... This might not always look quit good, and the four submenus allows to override the default choice of font size. Selecting one of the font sizes will change the current part of expression and any level under it accordingly. Try it and you will understand immediately.

### 1.36 EqEd.guide/Set Key

Set Key  
=====

Using the toolbars can be bothersome when having to enter the same symbol or function several times, so it is possible to make your own shortcut keys. Start by selecting the Set Key menu. Now the title of the window changes to "Press key to set". Hold down the shifts, alts and so on that you want to have and press the key you want to program. Note that right shift is different from left shift! Again the title changes to "Choose symbol for key". Now either choose a function, a symbol or press a letter. Title will change back to default. If you selected a symbol or function pressing the shortcut key will enter that symbol or function at the cursor. If you selected a letter, the letter will be entered, but in the

Font  
and  
Mode

which was active when the  
shortcut key was entered!

Example:

You want to enter an expression with lots of phi's, so you want to place that on right alt-f. Start by changing to greek font. Select Set Key. Hold right alt down and press f. Press f to get the phi programmed. Now every time you need a phi just press alt-f.

The shortcut keys are saved using  
Save prefs

.

### 1.37 EqEd.guide/Set Resolution

Set Resolution  
=====

The equations can be rendered to any size, but the program needs to know what size you need, and selecting this menu will open a window where you can do just that.

Screenresolution tells what resolution to use in the window. Most wordprocessors use something like 80x75 DPI, but in order to see the smallfont, something larger might be better.

Printerresolution is for saving in IFF format. This should be set to the same resolution as the maximum of what the printer can handle. If you're not using IFF-format but LaTeX or PostScript this should be set to the same as the screenresolution for faster fontcache saving - see

Save font cache

.

Font point size is the size of the font in the same units as used in most wordprocessors, that's about 1/72 inch. Use the same size as you use in the document.

## 1.38 EqEd.guide/Output Format

EqEd can save in five different formats - see the appropriate submenu:

IFF

Native

LaTeX

IFF+Native

PostScript

## 1.39 EqEd.guide/IFF

IFF

===

The expression is saved as black and white bitplane, for inclusion in all wordprocessors - remember to use

Set Resolution

before saving so

that it is saved in the right resolution.

## 1.40 EqEd.guide/Native

Native  
=====

Saved so that it can be read again by the program, and reedited. It is necessary to save such a file for every expression, if you want to change your expression later - see

IFF+Native  
though.

## 1.41 EqEd.guide/LaTeX

LaTeX  
=====

EqEd tries to save it for inclusion in a LaTeX document so that it will look like the display.

## 1.42 EqEd.guide/IFF+Native

IFF+Native  
=====

As

IFF  
but the  
Native

format is embedded in the file, so that you can reload the file directly. You won't need to save a separate native file, but some programs might not like the file - I haven't met any problems yet.

## 1.43 EqEd.guide/PostScript

PostScript  
=====

Save as an encapsulated postscript file (EPS) for inclusion in

---



modern wordprocessors. Suggested save method for highquality output.

## 1.44 EqEd.guide/Save prefs

```

                Save prefs
=====

    This saves you shortcut keys made with
        Set Key
        and resolution set by

        Set Resolution
        into a file called EqEd.config in EqEd's home directory.
```

## 1.45 EqEd.guide/Save font cache

```

                Save font cache
=====

    This will renderer the fonts once and for all and save them on disk!
    You must set the right resolutions first in
        Set Resolution
        before
    saving. Also make sure to have plenty of free space on the partition
    where EqEd is placed (at least 1MB). After the cache has been saved you
    can delete the file "EqEdCache.printer" if you're not going to save in

        IFF
        format and/or the file "EqEdCache.ps" if you are not going to use

        PostScript
        .
```

It is possible to use EqEd without fontcache but it takes forever to start it (at least if you don't have a couple of extremely fast math-processors in the machine!).

## 1.46 EqEd.guide/AREXX

```
AREXX
=====
```

I'm afraid there doesn't exist any AREXX commands yet, since I don't know which commands is needed to integrate it into a wordprocessor. I need help on this one! Please mail suggestions.

---

## 1.47 EqEd.guide/Future

Future

=====

EqEd is by no means close to being finished. I have a lot of things I want to put in it before reaching the version 1.00, which won't be a betarelease. I'm releasing this as a public betaversion, because I want to get some feedback from people who would actually need to include expressions in the documents.

Here is a list of some of the things on my ToDo-list.

Improve LaTeX output.

Finish the scalable parentheses.

Include previewimages in postscript output - I know FinalWriter supports this.

Different spacewidth depending on the chars it is between - like in LaTeX.

Mores symbols and different "lines" over characters, for instance a vector line.

Better errorhandling - saving and especially the fontrenderer can give some strange errors.

Make it possible to make real tables with left/right justifiing and lines between the columns.

More functions which operate on blocks.

Look at the lengths and thickness of lines in fractions and roots.

Userdefineable toolbar or toolwindow.

Clip with often used subexpression or just a simple macrofunction.

A function to list userdefined keys.

Make it respond to commodity commands.

AREXX commands.

Undo function. Might just be simple undo or it might remember whole sequences

Improve the overall speed.

Localize all texts and perhaps manuals.

Use Installer to handle installation of fontcache and such.

Improve manual.

Please mail me any suggestion I can add to the list.

## 1.48 EqEd.guide/Register

Register

=====

As this is a betarelease there is no shareware fee, and currently I have no intention of putting one on the final version. I do, however, ask you to register by sending me (see

The Author

) your name, address,

machine and most importantly your opinions, suggestions and bugreports. This allows me to see if anybody at all is interested and gives me maximum amount of feedback. Please write as much as you can, ranging from hating MUI, wanting exponents a pixel higher to new output formats and AREXX-commands.

## 1.49 EqEd.guide/The Author

The Author

=====

I, Brian Aagaard Petersen, has written most of the program. The fontrenderer was taken from the X11 - see

Copyright

- and the IFF-save

routines were taken from the "newiff.lha" package on Aminet. It also uses

MUI

.

My email adress for those who is able to send mail on internet is:

aagaard@fys.ku.dk

and if you are not so fortunate, my snailmail adress is:

Brian Petersen Brydes Alle 23, room 434 2300 Copenhagen S Denmark

All email will certainly be answered, but snailmail it might take some time.

Mail received during Christmas, 22. December to 1. January, might not be answered until after the 1. January.

## 1.50 EqEd.guide/MUI

MUI

===

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

Note that it is not necessary to register MUI to use EqEd, but you should consider it as being able to save change will let EqEd look a lot nicer. In my opinion MUI is worth it also without my superb ( :- ) program!

## 1.51 EqEd.guide/Program history

Program history

=====

This describes the changes made to EqEd between the different releases:

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EqEd v0.91 released mid December 1994 - betaversion, public release

New features:

Added progress indicator to fontrenderer - now you know the machine is working.

Added Set resolution and cachesave when starting without a config-file.

Updated:

Bugfixes:

Fixed placement of symbol limits.

Changed the background of symbols to colour 0. Now the symbols doesn't disappear with some MUI-settings.

Hardcoded the background of editing area to be SHINE.

Fixed error in Latex output of scalable parentheses.

Changed nativeformat a bit - the old gave errors in LaTeX-output.

Fixed placement of cursor at end of scalable parenthesis.

Fixed display error when line began with empty exponent/index.

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EqEd v0.90 released beginning of December 1994 - betaversion  
internal release

New features:

Editing window scrolls when cursor reaches border.

Added scalable parenthesis - not finished yet.

Added movement to shift-up/down and alt-left/right.

Postscript output.

Use adobe type 1 fonts instead of intellifont. This increased requirements considerably, but allowed postscript output and speedimprovement.

Added fontcache to avoid waiting on the fontrender.

Added online help. Pressing help on gadget or menu brings up this manual.

Added a real manual.

Updated:

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Fractions, roots and exponents moved from hardcoded key to toolbar.

Set key expanded to include functions and keys.

Added menu which allows to change the line size.

Toolbar symbols was implemented as pictures instead of font.

Removed bold italics mode.

Changes resolution window. Now screenresolution is entered in DPI.  
It can now look nice on both hires and medres screens.

Linesizes in roots and fractions scales with the resolution.

Moved exponents up a bit.

Bugfixes:

Mouse can now place cursor at the rightmost character in a root.

Fixed Latex output errors with specialsymbols as \$ \ ...

Removed serious bug in Cut function.

Might have fixed enforcer hit from functions-popup (I have an  
68EC030 so I cannot check)

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EqEd first release had version 1.0 at someplaces and 0.5 at others.  
This was an fault has changed. It was released October 1994 as preview  
version to a few people. Things changing before this wasn't written  
down!