Klock

Table of contents

Introduction	. 3
Welcome	. 3
About	. 4
Getting Started	. 6
System requirements	6
Getting help	. 6
Thingy-ma-bobs	. 6
Fuzzy Time	. 7
Countdown	. 7
Timer	. 9
Events	. 9
Reminder	11
Clipboard Monitor	12
Menu	13
File	14
Time	14
Analogue Klock	15
LED Klock	16
Binary Klock	17
Small Text Klock	18
Info	19
Help	22
System Tray	
Status bar	25
Options	26
Global	26
Time	28
Other Klocks	29
Other Stuff	29
Logging	30
History	
License	
Crodita	75

Klock - A clock with a K

A multifunction timing thingy, where some [but not necessary all] of the functions are useful.

The multifunction timing thingy is split into many Thingy-ma-bobs - Fuzzy Time, Countdown, Timer, Event, Reminder & Clipboard Monitor.

Kevin scott

Klock

A Help gubbins for the time thingy. A Clock with a K. Build 58.

Copyright © <2013 - 2018> by <Kevin Scott>. All Rights Reserved.

2.1.58



The source can be downloaded from - Klock Source

please contact me at Here

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

Welcome

Welcome To Klock

Kevin scott

Klock

A Help gubbins for the time thingy. A Clock with a K. Build 58.

Copyright © <2013 - 2018> by <Kevin Scott>. All Rights Reserved.

2.1.58



The source can be downloaded from - Klock Source

please contact me at Here

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

About

About Klock

Klock - a clock with a k.

A multifunction timing thingy, where some [but not necessary all] of the things are useful.

The multifunction timing thingy is split into many things;

Fuzzy Time, Countdown, Timer, Event, Reminder & Clipboard Monitor.

Klock currently consists of over 6000 lines of Pascal[Lazarus] code. Klock serves as a vehicle by which I learn and tinker with programming. Previous versions of Klock have existed in VB.net, Python, Pascal [Lazarus] and Freebasic - and may again.

Fuzzy Time

Allows the current time to be displayed in a number of different formats.

Countdown

Implements a simple countdown timer [between 1 and 90 minutes].

The time for the countdown can be either entered directly of the up/down controls can be used. The timer can be paused during countdown and stopped before the end is reached. At the end of the countdown, either a sound can be played, a reminder displayed, a system command [system shut down or re-boot] or a external program can be run - or any combination of the four.

Timer

Implements a simple timer, with split time function. The timer can be stopped, paused and resumed. A split function allows for given time to be remembered.

Events

This enables for events to set up and notifications displayed to the user.

Today's date is default, but a future date can also be selected. A time can also be added to the reminder date. If no date is added, the reminder will fire at midnight. When the reminder is due either a sound can be played, a reminder displayed, a system command [system shut down or re-boot] or a external program can be run - or any combination of the four.

Note: Setting the time to 00:00, indicates midnight of the previous day so will not enable the set button. To set a reminder for midnight of today, disable the time and pick tomorrow's date. 00:00 indicates zero minutes into the present day.

Reminder

Implements a reminder option.

This enables for [recurring] Reminders to set up and reminders displayed to the user. A number of predefined events types are already set up.

The button bar contains three buttons -

help - will display a simple help screen, depending upon the tab being currently viewed [not yet implemented].

Close - Quits the application.

Hide - Switches the application to the system area.

When the program is running in the system area, the following options are available.

If hovered over, the current time will be displayed.

Right clicked on the icon will display a pop up menu.

This will allow the application to be restored, the application can be exited or e current time can be displayed.

If the application is in the task bar, any display messages

[i.e. a reminder becoming due] will be displayed in a notification window [as will errors etc.].

The status bar contains [after the time & date] the legend cns.

The c represents caps lock.

The n represents Num Lock.

The S represents Scroll Lock.

The letter will be upper case if the key is activated, otherwise lower case.

The application also contains a options screen [file / Options] which allows various options to be set. NB: If the option is checked to start on windows start up, it only operates for the current user.

Program partially tested on Windows 7 & 10 [both 32 & 64 bit].

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

Getting Started

Klick on Klock.

Created with the Personal Edition of HelpNDoc: Free EPub producer

System requirements

System Requirements

Should just about work on any Microsoft Windows machine - if it can run the help, it should run Klock.

Klock has been tested on Windows 7, 10. [Does anybody use anything else, these days.]

Klock needs at least .NET 4.5, get from your favourite Microsoft site.

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

Getting help

Getting Help

Press help [or press F1] to get this document.

Document also located in the application directory [both chm & pdf formats].

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

Thingy-ma-bobs

There are separate thingy-ma-bobs for

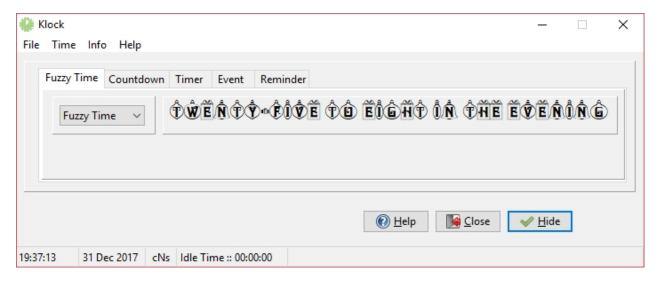
- Fuzzy Time
- Countdown

- Timer
- Events
- Reminder

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

Fuzzy Time

Fuzzy Time



Allows the current time to be displayed in a number of different formats.

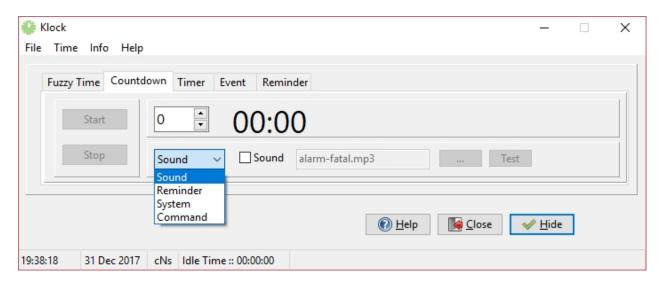
System idle time can also be displayed in the status bar - this is enabled in the time options screens.

See Status Bar for details on the status bar information.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

Countdown

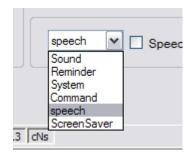
Countdown



Implements a simple countdown timer thingy [between 1 and 90 minutes].

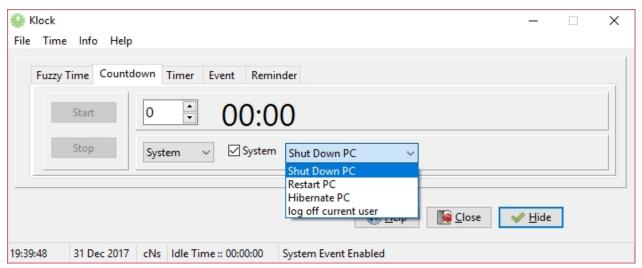
The time for the countdown can be either entered directly of the up/down controls can be used.

The timer can be paused during countdown and stopped before the end is reached.



At the end of the countdown, the following can be selected :-

- A Sound can be played.
- A Reminder can be displayed.
- A System command can be run [System Shut Down, System Re-Start, Log Off current user or the selectable GUI.
- A External Command can be run.

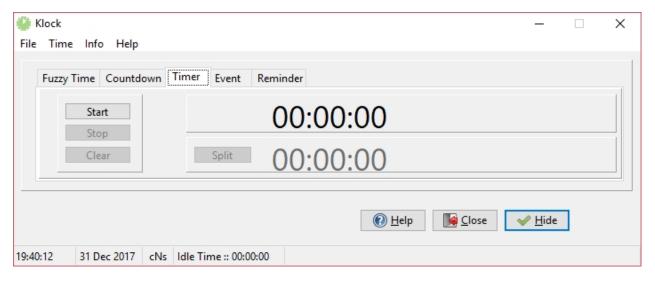


System command menu.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

Timer

Timer



Implements a simple timer thingy, with split time function.

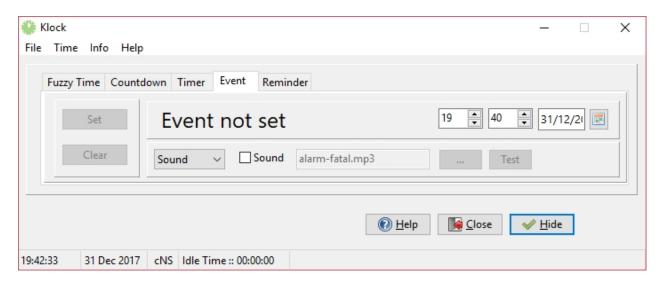
The timer can be stopped, paused and resumed.

A split function allows for a given time to be remembered.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

Events

Events

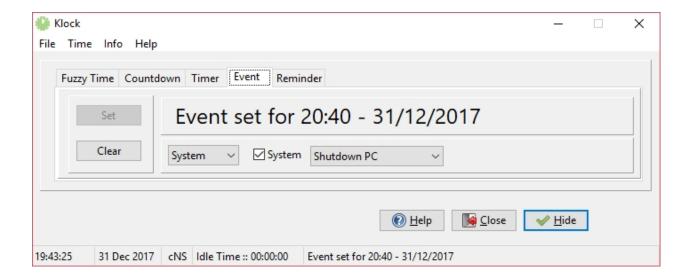


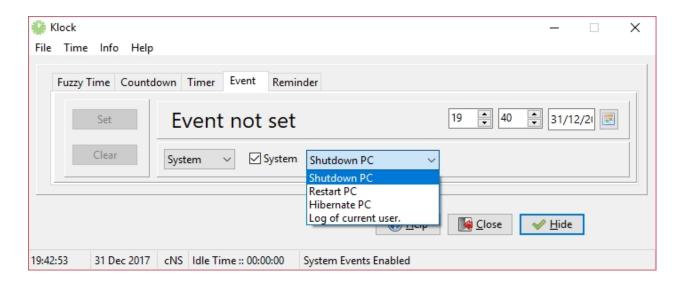
Implements a simple Events database thingy.

This enables for events to set up and notifications displayed to the user.

Today's date is default, but a future date can also be selected. A time can also be added to the reminder date. If no date is added, the reminder will fire at midnight. When the reminder is due either a sound can be played, a reminder displayed, a system command [system shut down or re-boot] or a external program can be run - or any combination of the four.

Note: Setting the time to 00:00, indicates midnight of the previous day so will not enable the set button. To set a reminder for midnight of today, disable the time and pick tomorrow's date. 00:00 indicates zero minutes into the present day.

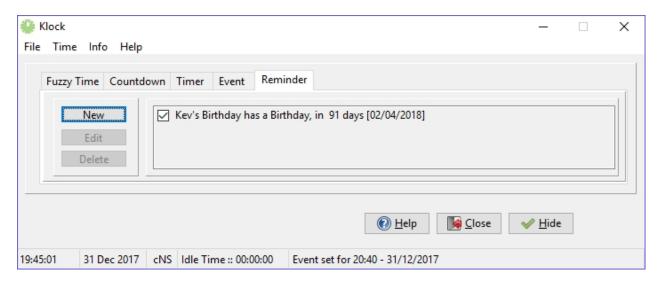




Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

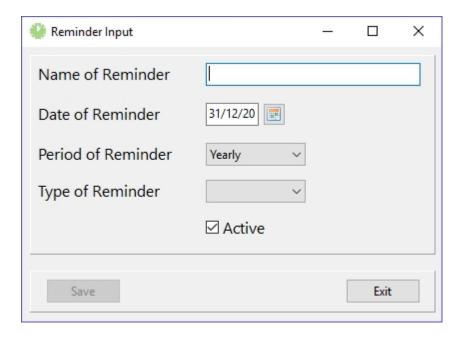
Reminder

Reminder



Implements a reminder option thingy.

This enables for [recurring] Reminders to set up and reminders displayed to the user. A number of predefined events types are already set up.



The Reminder add screen.

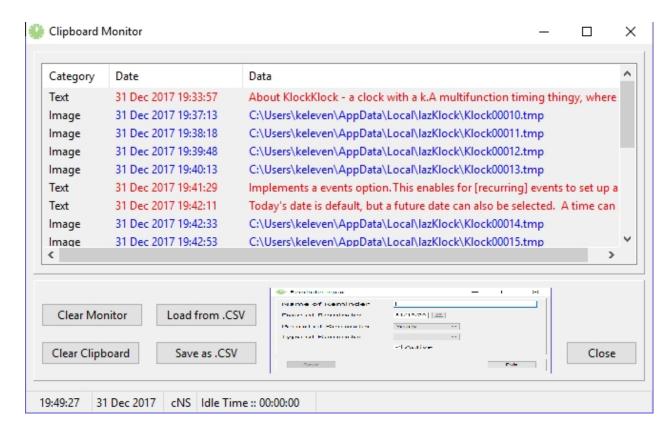
Created with the Personal Edition of HelpNDoc: Free help authoring environment

Clipboard Monitor

Clipboard Monitor

Implements a simple Clipboard Monitor Thingy.

There is not a klock tab for the clipboard monitor, when enabled in options / Global, the below form will be displayed whenever anything is copied to the clipboard.



The Clipboard manager remembers all things copied to the clipboard, remembers the history of the clipboard.

The options are thus.

Clear Clipboard - clears the system clipboard.

Close

- Closes the clipboard, but not stop the clipboard monitor.

Save

- Save the clipboard history to a file [Not yet implemented].

- Loads the clipboard history from a file [Not yet implemented].

Once something has been copied back to the clipboard it can then be pasted into any open application.

Selecting a row with the mouse copied the data to the clipboard.

The clipboard history can be either save as CSV of Binary format, this is selected in user options. If saved as CSV format the file can be edited [amended] easily. In CSV format multiple commas should be okay but line endings could cause a problems. In Binary mode, the file can not be easily edited so should be more secure. Also, in Binary mode multiple commas and line ending are handled better.

NOTE: there seems to be an issue with saving images to the clipboard, the clipboard does not know where the image came from i.e. no file location. The means there is a problem retrieving the image form the clipboard history. One solution is to make a temporary copy of the image for late retrieval. The temporary image is saved in the user applications directory within the users data area. Also the image is saved in the .jpg format at the moment, will change when I can determine a way on detecting the format of the original image:-)

Created with the Personal Edition of HelpNDoc: Free help authoring tool

Menu

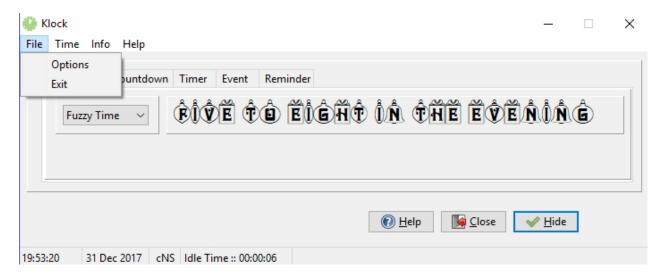
There are separate Menus for

- File
- Time
- Info
- Help

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

File

<u>File</u>



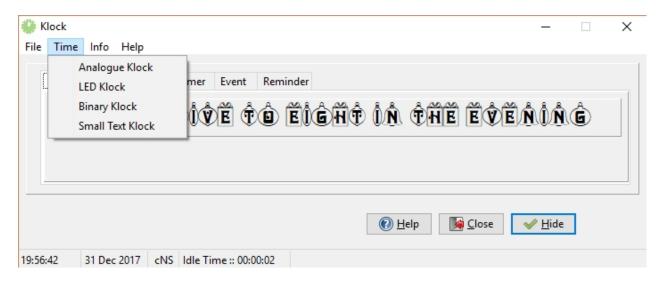
Allows selection of

- Exit exist Klock.
- Options loads the options screen.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

Time

<u>Time</u>



Allows selection of

- Analogue Klock display a Analogue Klock [Time & Date] in a separate window, the moving main Klock to the system tray.
- LED Klock displays aLED Klock in a separate window, moving the main Klock to the system tray.
- Binary Klock displays a Binary Klock in a separate window, moving the main Klock to the system tray.
- Small Text Klock display a Text Klock [Time] in a separate window, moving the main Klock to the system tray..

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

Analogue Klock

Analogue Klock



Selecting the Analogue Klock option from the Time menu, display the above Analogue Klock.

Right clicking on the Analogue Klock, brings up a context menu.



This will allow the Analogue Klock to be exited to the main klock [main Klock is loaded], or the About screen can be loaded.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

LED Klock

Analogue Klock



Selecting the LED Klock option from the Time menu, display the above LED Klock.

Right clicking on the LED Klock, brings up a context menu.



This will allow the LED Klock to be exited to the main klock [main Klock is loaded], or the About screen can be loaded.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

Binary Klock

Big Text Klock

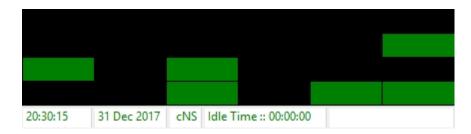
Selecting the Binary Klock option from the Time menu, display the above Binary Klock.

The Binary klock has two modes - BCD or True Binary. This is set in user options

Binary Coded Decimal - takes each two digit number [hours, minutes & seconds] and codes then as two binary string.

True Binary - takes each two digit number [hours, minutes & seconds]and codes then as a single binary string

BCD Klock

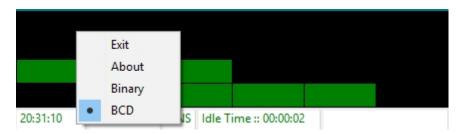


True Binary Klock



See Status Bar for details on the status bar information.

Right clicking on the Binary Klock, brings up a context menu.



This will allow the LED Klock to be exited to the main klock [main Klock is loaded], the About screen can be loaded or the Klock can be toggled between Binary and BCD displays.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

Small Text Klock

Small Text Klock

Selecting the Small Text Klock option from the Time menu, display the above Small Text Klock.



See Status Bar for details on the status bar information.

Right clicking on the Big text Klock, brings up a context menu.



This will allow the Small Text Klock to be exited to the main klock [main Klock is loaded], the About screen can be loaded or the Klock can be toggled between transparent or solid..

Clicking the transparent option.

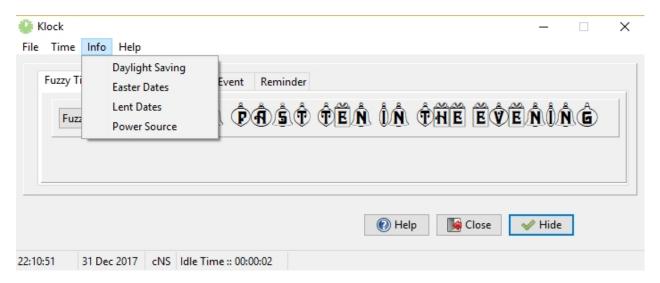
ITWISJUIIRSEESJZZBXS
RMMNCNFIVEABOUTDMXEM
PASTIJGQZROYUYKCQJOQ
RBRPAGFXHPUJFDTTXTEN
JBBRHMSQKCHFBHALISHO
INGTHENDDAYZRWEAICIX
SBCCFXVIXDOPWZANGNVI
EVENINGETHOSNXIHRJPZ

10:03:02 pm 31 Dec 2017 cNS

Created with the Personal Edition of HelpNDoc: Free Kindle producer

Info

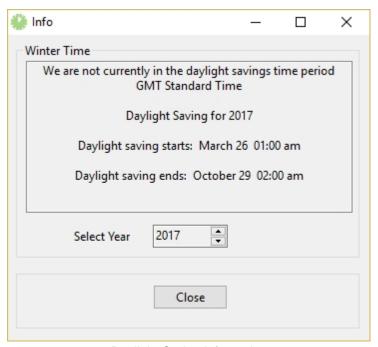
<u>Info</u>



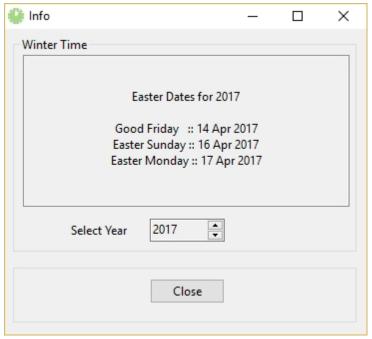
This allows the selection of

- Daylight Saving
- Easter Dates
- Lent Dates
- Power Source

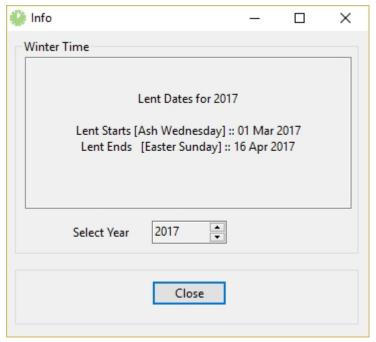
On Daylight Saving, Easter & Lent Dates the year can be changed. This allows the daylight saving, Easter and lent Dates to be displayed for any year.



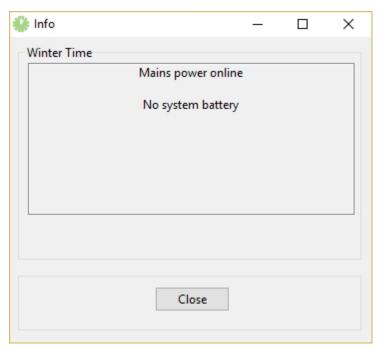
Daylight Saving Information



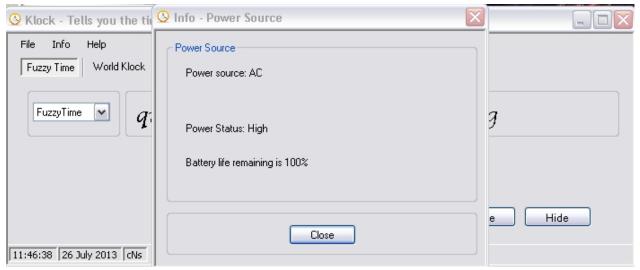
Easter Dates



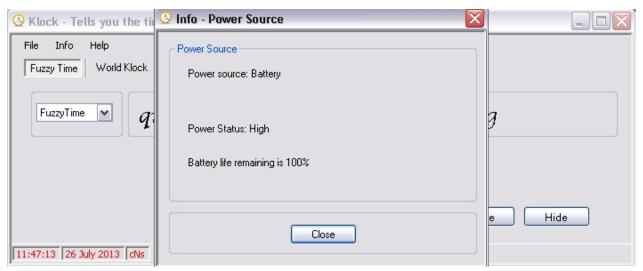
Lent Dates



Power Source information [PC running on mains]



Power Source Information [laptop running on mains]

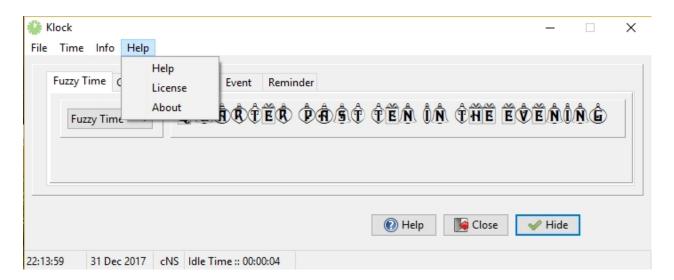


Power Source Information [laptop running on battery] note: red colour of time & date on main form.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

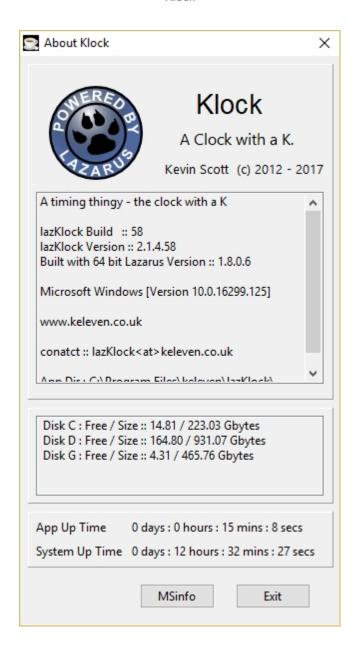
Help

Help



This allows the selection of

- Help Loads this Help document
- Licence loads the License information [GNU General Public License V3].
- About Loads About application information i.e. application version.

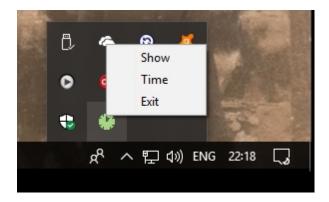


Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

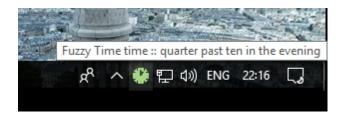
System Tray

System Tray

When the program is running in the system area, the following options are available.



If hovered over, the current time will be displayed. If two time formats are in use, only time one is used.



Right clicked on the icon will display a pop up menu.

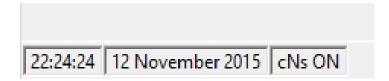
- Show Restore Klock
- Time Toggle the display of time
- Exit Close Klock.

If the application is in the task bar, any display messages [i.e. a reminder becoming due] will be displayed in a notification window [as will errors etc].

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

Status bar

Status Bar



The status bar contains [after the time & date] the legend cns.

The c represents Caps lock.

The n represents Num Lock.

The S represents Scroll Lock.

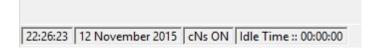
The ON represents connected to the internet. A OFF would indicate disconnected from the internet.

The letter will be upper case if the key is activated, otherwise lower case.



If the running PC [Laptop] is running on battery - the colour will turn to red.

If idles time is being displayed -



Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

Options

The application also contains a options screen [file / Options] which allows various options to be set.

Klock boasts over 90 options to customise klock.

There are separate options for

- Global
- Time
- Other Klocks
- Analogue Klock
- Logging

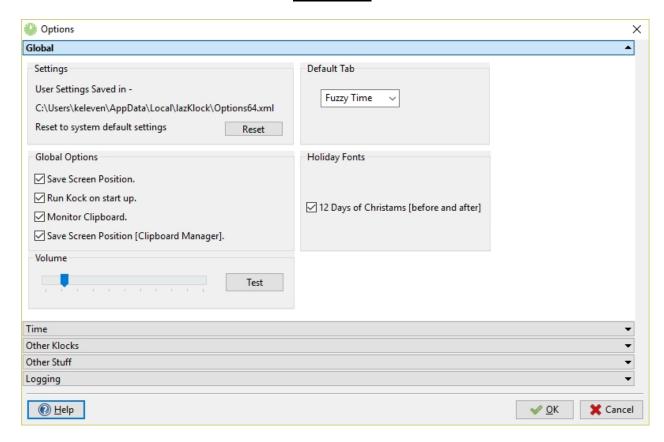
NB: If the option is checked to start on windows start up [in fact most user options], only operates for the current user.

If upgrading from a newer version of Klock the new options should be added to the existing options..

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

Global

Global



The global options are as follows.

Settings

where the settings file reside - currently Options64.xml [or possibly Option32 for the 32 bit Klock. This can be re-set to the default settings for the application.

GlobalOptions

Allows klock to remember screen positions on exit.

Will run klock when windows first starts [current user only].

Allows Klock to start in a determined mode. Current modes are Klock, Analogue Klock, Small text Klock or Big text Klock.

Default Tab

Allows Klock to start with a pre-determine tab.

Holiday Fonts.

Allows Klock to use special fonts at certain time of the year.

Volume

The volume of the sound klock makes.

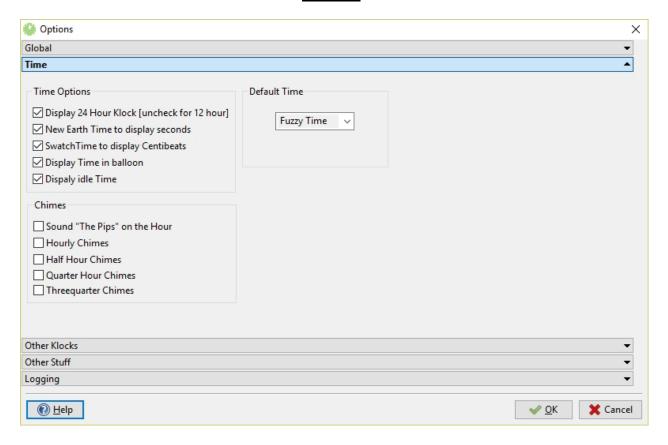
Pressing OK will save the new settings.

Pressing cancel will not save any changes.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

Time

<u>Time</u>



The Time options are as follows.

Settings

12 / 24 Hour

The time in the system tray, time display 1 or time display 2 can all be set to display the time in either 12 or 24 hour format.

NB :: does not affect some of the time formats i.e. Hex time.

The system idle time can be displayed in the status bar.

Chimes

Klock can either sound the "pips" or chimes on the hour.

If chimes are chosen, chimes can also be selected for the quarter and half hours.

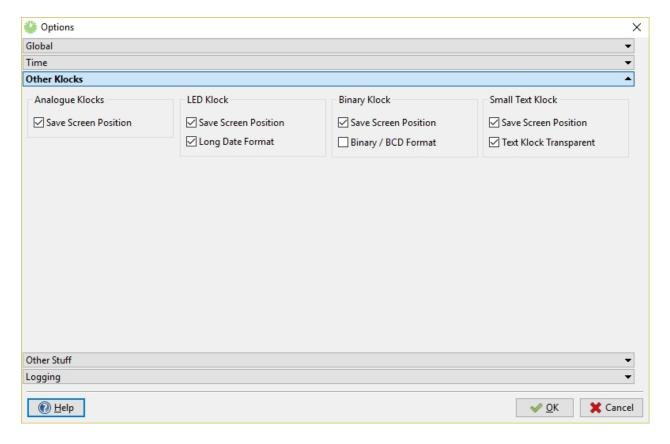
NB: can either have pips or chimes, not both.

Pressing OK will save the new settings. Pressing cancel will not save any changes.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

Other Klocks

Text Klock



The Text Klock options are as follows.

Allows all the secondary Klocks to remember screen positions on exit.

The binary klock has two modes - BCD or true Binary.

BinarcyCoded Decimal - takes each two digit number [hours, minutes & seconds] and codes then as two binary string.

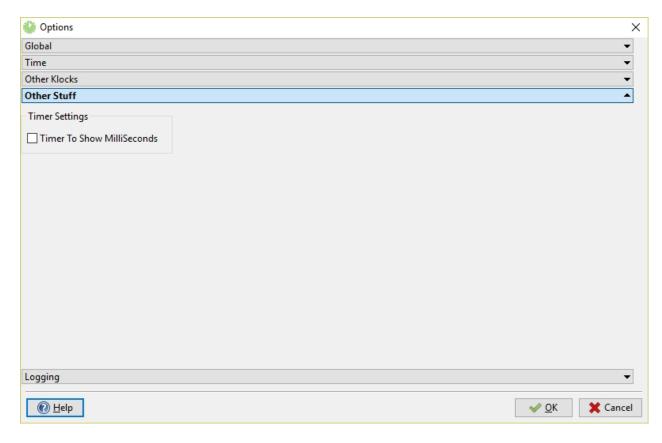
True Binary - takes each two digit number [hours, minutes & seconds]and codes then as a single binary string

Pressing OK will save the new settings. Pressing cancel will not save any changes.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

Other Stuff

Other Stuff



The Other stuff options are as follows.

Timer Settings.

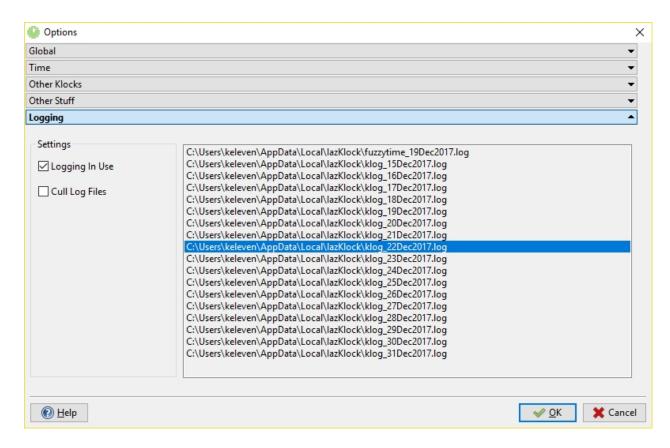
Time will show milliseconds.

Pressing OK will save the new settings. Pressing cancel will not save any changes.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

Logging

Logging



Certain errors and message can be logged to text file for further reading. This facility can be disabled. If enabled, the log files are displayed.

The number of days to keep the log files can be specified, default is 14. After this time, the Klock will delete the older log files.

Clicking the entry for the log file, should log the log file into the default text editor.

```
File Edit View Window Help
klog_31Dec2017.log
         31Dec2017 104005 : Log Created
         31Dec2017 104005
                                     lazklock
         31Dec2017 104005
         31Dec2017 104005
                                     User : keleven
                                             : KELEVEN
          31Dec2017 104005
                                     PC
          31Dec2017 104005
                                     0S
                                               Microsoft Windows [Version 10.0.16299.125]
          31Dec2017 104005
                                      lazKlock Build
                                                              :: 58
          31Dec2017 104005
                                      lazKlock Version :: 2.1.4.58
                                     Built with 64 bit Lazarus Version :: 1.8.0.6
          31Dec2017
                        104005
                                     App Dir : C:\Program Files\keleven\lazKlock\
          31Dec2017
                        104005
          31Dec2017
                        104005
          31Dec2017
                        104005
                                      C:\Users\keleven\AppData\Local\lazKlock\fuzzytime_19Dec2017.log with age 11
          31Dec2017 104005
                                         \Users\keleven\AppData\Local\lazKlock\klog_15Dec2017.log with age 15 16 Dec 2017
          31Dec2017 104005
                                         \Users\keleven\AppData\Local\lazKlock\klog_16Dec2017.log with age 14
                                                                                                                                                16 Dec 2017
                                         \Users\keleven\AppData\Local\lazKlock\klog_17Dec2017.log with age 13
          31Dec2017 104005
                                                                                                                                               18 Dec 2017
                                        :\Users\keleven\AppData\Local\lazKlock\klog_17Dec2017.log with age 13
:\Users\keleven\AppData\Local\lazKlock\klog_18Dec2017.log with age 12
:\Users\keleven\AppData\Local\lazKlock\klog_18Dec2017.log with age 11
:\Users\keleven\AppData\Local\lazKlock\klog_19Dec2017.log with age 11
:\Users\keleven\AppData\Local\lazKlock\klog_20Dec2017.log with age 10
:\Users\keleven\AppData\Local\lazKlock\klog_21Dec2017.log with age 9
:\Users\keleven\AppData\Local\lazKlock\klog_22Dec2017.log with age 8
:\Users\keleven\AppData\Local\lazKlock\klog_23Dec2017.log with age 7
:\Users\keleven\AppData\Local\lazKlock\klog_25Dec2017.log with age 6
:\Users\keleven\AppData\Local\lazKlock\klog_25Dec2017.log with age 5
:\Users\keleven\AppData\Local\lazKlock\klog_25Dec2017.log with age 4
:\Users\keleven\AppData\Local\lazKlock\klog_26Dec2017.log with age 3
         31Dec2017 104005
                                                                                                                                                19 Dec 2017
          31Dec2017 104005
                                                                                                                                               19 Dec 2017
         31Dec2017 104005
                                                                                                                                               20 Dec 2017
                                                                                                                                              21 Dec 2017
         31Dec2017 104005
         31Dec2017 104005
                                                                                                                                              23 Dec 2017
          31Dec2017 104005
                                                                                                                                              24 Dec 2017
         31Dec2017 104005
                                                                                                                                              25 Dec 2017
          31Dec2017 104005
                                                                                                                                              25 Dec 2017
         31Dec2017 104005
                                                                                                                                              27 Dec 2017
                                         \Users\keleven\AppData\Local\lazKlock\klog_27Dec2017.log with age 3
\Users\keleven\AppData\Local\lazKlock\klog_28Dec2017.log with age 2
          31Dec2017 104005
                                                                                                                                                  Dec 2017
                                                                                                                                              28 Dec 2017
         31Dec2017 104005
          31Dec2017 104005
                                         \Users\keleven\AppData\Local\lazKlock\klog_29Dec2017.log with age
                                                                                                                                              30
                                                                                                                                                  Dec
          31Dec2017 104005
                                         \Users\keleven\AppData\Local\lazKlock\klog_30Dec2017.log with age 0
                                                                                                                                              31 Dec 2017
          31Dec2017 104005
                                         \Users\keleven\AppData\Local\lazKlock\klog_31Dec2017.log with age
                                                                                                                                              31 Dec 2017
                                                                                                                                          17 Dec 2017
         31Dec2017 104005
                                         \Users\keleven\AppData\Local\lazKlock\Klock00000.tmp with age 13
                                         \Users\keleven\AppData\Local\lazKlock\Klock00001.tmp with age
         31Dec2017 104005
                                                                                                                                   12
                                                                                                                                          18 Dec 2017
                                        : Users\keleven\AppData\Local\lazklock\Klock000001.tmp with age 12
:\Users\keleven\AppData\Local\lazklock\Klock00002.tmp with age 11
:\Users\keleven\AppData\Local\lazklock\Klock00003.tmp with age 11
:\Users\keleven\AppData\Local\lazklock\Klock00004.tmp with age 10
:\Users\keleven\AppData\Local\lazklock\Klock00005.tmp with age 3
:\Users\keleven\AppData\Local\lazklock\Klock00006.tmp with age 3
:\Users\keleven\AppData\Local\lazklock\Klock00007.tmp with age 0
         31Dec2017 104005
                                                                                                                                         19 Dec 2017
         31Dec2017 104005
                                                                                                                                          19 Dec 2017
         31Dec2017 104005
                                                                                                                                        20 Dec 2017
         31Dec2017 104005
                                                                                                                                        27 Dec 2017
          31Dec2017 104005
                                                                                                                                        27 Dec 2017
          31Dec2017 104005
                                                                                                                                        30 Dec 2017
                                      C:\Users\keleven\AppData\Local\lazKlock\Klock00008.tmp with age 0
C:\Users\keleven\AppData\Local\lazKlock\Klock00009.tmp with age 0
          31Dec2017 104005
                                                                                                                                        30
                                                                                                                                             Dec
                                                                                                                                                  2017
         31Dec2017 104005
                                                                                                                                        30 Dec 2017
                                     Adding C:\Program Files\keleven\lazKlock\fonts\BarCode39.ttf
          31Dec2017
                        104005
          31Dec2017
                        104005
                                      Adding C:\Program Files\keleven\lazKlock\fonts\NancyBlackett.ttf
          31Dec2017
                        104005
                                      Adding C:\Program Files\keleven\lazKlock\fonts\BrailleLatin.ttf
          31Dec2017 104005
                                      Adding C:\Program Files\keleven\lazKlock\fonts\Semaphore.ttf
          31Dec2017 104005
                                      Adding C:\Program Files\keleven\lazKlock\fonts\Christmas.ttf
          31Dec2017 104005
                                      Adding C:\Program Files\keleven\lazKlock\fonts\Hack.ttf
         31Dec2017 104005
                                     FormOptions Create
         31Dec2017 104005
                                     FormAbout Create
         31Dec2017 104006
                                     FormHelp Create
                                     FormLicense Create
FormReminderInput Create
         31Dec2017 104006
         31Dec2017 104006
                                     FormAnalogue Klock Create formClipBoard Create
          31Dec2017 104006
          31Dec2017 104006
          31Dec2017 104006
                                     FormLEDKlock Klock Create
                                     FormBinaryKlock Klock Create
          31Dec2017
                        104006
                                     Binary Klock
formSmallTextKlock Klock Create
          31Dec2017
                        104006
          31Dec2017 104006
          31Dec2017 104006
                                     FormKlock Showing
         31Dec2017 104006
                                     FormKlock SetDefaults
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

History

Build 1

commit a3539dd01031498d3c25c9a5ca3a454e18748aa6 Author: Kevin Scott < lazKlock@keleven.co.uk> Date: Thu Sep 29 20:50:37 2016 +0100

Initial Import.

Most of the GUI structure is complete.

Countdown page complete.

```
.gitignore
                       33 ++
blue-letters/!.ico
                       | Bin 0 -> 119149 bytes
blue-letters/A.ico
                         | Bin 0 -> 133106 bytes
                          Bin 0 -> 130770 bytes
blue-letters/B.ico
blue-letters/C.ico
                          Bin 0 -> 136698 bytes
blue-letters/D.ico
                          Bin 0 -> 129097 bytes
blue-letters/Dot.ico
                         | Bin 0 -> 118524 bytes
blue-letters/E.ico
                         | Bin 0 -> 124688 bytes
blue-letters/F.ico
                        | Bin 0 -> 124147 bytes
                         | Bin 0 -> 135767 bytes
blue-letters/G.ico
blue-letters/H.ico
                         | Bin 0 -> 126025 bytes
blue-letters/l.ico
                        | Bin 0 -> 120077 bytes
blue-letters/J.ico
                        | Bin 0 -> 126758 bytes
                          Bin 0 -> 132202 bytes
blue-letters/K.ico
blue-letters/L.ico
                        | Bin 0 -> 123843 bytes
blue-letters/M.ico
                         | Bin 0 -> 132420 bytes
blue-letters/N.ico
                         | Bin 0 -> 128936 bytes
blue-letters/O.ico
                         Bin 0 -> 135070 bytes
blue-letters/P.ico
                          Bin 0 -> 127568 bytes
blue-letters/Q.ico
                          Bin 0 -> 138504 bytes
blue-letters/Question.ico
                           | Bin 0 -> 122752 bytes
blue-letters/R.ico
                          Bin 0 -> 131815 bytes
blue-letters/S.ico
                         | Bin 0 -> 138950 bytes
blue-letters/T.ico
                        | Bin 0 -> 123861 bytes
blue-letters/U.ico
                         | Bin 0 -> 126431 bytes
blue-letters/V.ico
                         | Bin 0 -> 133394 bytes
                          Bin 0 -> 137393 bytes
blue-letters/W.ico
blue-letters/Xico
                        | Bin 0 -> 133641 bytes
blue-letters/Y.ico
                         | Bin 0 -> 130920 bytes
blue-letters/Z.ico
                        | Bin 0 -> 129292 bytes
blue-letters/readme.txt
                           | 26 ++
blue-letters/sA.ico
                         | Bin 0 -> 894 bytes
blue-letters/sB.ico
                         | Bin 0 -> 894 bytes
blue-letters/sC.ico
                          Bin 0 -> 894 bytes
                          Bin 0 -> 894 bytes
blue-letters/sD.ico
info.txt
                     | 15 +
klock.ico
                       | Bin 0 -> 3262 bytes
klock.lpi
                      | 268 ++++++++++++
klock.lpr
                      | 22 ++
random/random1.ico
                            | Bin 0 -> 151787 bytes
random/random10.ico
                             | Bin 0 -> 161228 bytes
random/random11.ico
                             Bin 0 -> 179933 bytes
                              Bin 0 -> 173332 bytes
random/random12.ico
random/random2.ico
                             Bin 0 -> 161370 bytes
random/random3.ico
                             Bin 0 -> 154710 bytes
random/random4.ico
                             Bin 0 -> 176679 bytes
random/random5.ico
                             Bin 0 -> 132648 bytes
random/random6.ico
                             Bin 0 -> 149826 bytes
random/random7.ico
                             Bin 0 -> 155776 bytes
random/random8.ico
                             Bin 0 -> 156516 bytes
random/random9.ico
                             Bin 0 -> 151106 bytes
```

```
random/readme.txt
                          | 17 ++
sounds/alarm-fatal.wav
                            Bin 0 -> 1359604 bytes
sounds/chimes.wav
                           | Bin 0 -> 55776 bytes
sounds/chord.wav
                          | Bin 0 -> 97016 bytes
sounds/ding.wav
                         | Bin 0 -> 80856 bytes
                         | Bin 0 -> 119384 bytes
sounds/notify.wav
sounds/recycle.wav
                          | Bin 0 -> 25434 bytes
sounds/ringin.wav
                         | Bin 0 -> 10026 bytes
sounds/ringout.wav
                          | Bin 0 -> 5212 bytes
sounds/start.wav
                         | Bin 0 -> 1192 bytes
sounds/tada.wav
                         | Bin 0 -> 171100 bytes
uabout.lfm
                       | 204 ++++++++++
uabout.pas
                       | 62 ++++
uhelp.lfm
                      | 159 ++++++++
uhelp.pas
                       | 68 ++++
uklock.lfm
                       | 376 ++++++++++++++++++
uklock.pas
                       | 295 ++++++++++++++
uoptions.lfm
                       | 42 +++
uoptions.pas
                        | 47 +++
71 files changed, 2308 insertions(+)
```

Build 2

commit dc39233aeaa2191988890a6964d7d721e78d3bf0

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 20:56:56 2016 +0100

Nearly completed timer page - just an issue with the pause/resume.

Changed icon to clock.ico

Changed message to popup notification.

```
blue-letters/!.ico
                     | Bin 119149 -> 0 bytes
blue-letters/A.ico
                        Bin 133106 -> 0 bytes
blue-letters/B.ico
                        Bin 130770 -> 0 bytes
blue-letters/C.ico
                        Bin 136698 -> 0 bytes
blue-letters/D.ico
                        Bin 129097 -> 0 bytes
blue-letters/Dot.ico
                       | Bin 118524 -> 0 bytes
blue-letters/E.ico
                        Bin 124688 -> 0 bytes
blue-letters/F.ico
                        Bin 124147 -> 0 bytes
blue-letters/G.ico
                        Bin 135767 -> 0 bytes
blue-letters/H.ico
                        Bin 126025 -> 0 bytes
blue-letters/l.ico
                     | Bin 120077 -> 0 bytes
blue-letters/J.ico
                       Bin 126758 -> 0 bytes
blue-letters/K.ico
                        Bin 132202 -> 0 bytes
blue-letters/L.ico
                      | Bin 123843 -> 0 bytes
blue-letters/M.ico
                       | Bin 132420 -> 0 bytes
blue-letters/N.ico
                        Bin 128936 -> 0 bytes
blue-letters/O.ico
                        Bin 135070 -> 0 bytes
blue-letters/P.ico
                        Bin 127568 -> 0 bytes
blue-letters/Q.ico
                        Bin 138504 -> 0 bytes
blue-letters/Question.ico | Bin 122752 -> 0 bytes
blue-letters/R.ico
                        Bin 131815 -> 0 bytes
blue-letters/S.ico
                        Bin 138950 -> 0 bytes
blue-letters/T.ico
                      | Bin 123861 -> 0 bytes
blue-letters/U.ico
                        Bin 126431 -> 0 bytes
blue-letters/V.ico
                        Bin 133394 -> 0 bytes
blue-letters/W.ico
                       | Bin 137393 -> 0 bytes
blue-letters/Xico
                      | Bin 133641 -> 0 bytes
```

```
blue-letters/Y.ico
                 | Bin 130920 -> 0 bytes
blue-letters/Z.ico
                 | Bin 129292 -> 0 bytes
blue-letters/readme.txt | 26 -
blue-letters/sA.ico
                 | Bin 894 -> 0 bytes
blue-letters/sB.ico
                 | Bin 894 -> 0 bytes
                 | Bin 894 -> 0 bytes
blue-letters/sC.ico
blue-letters/sD.ico
                 | Bin 894 -> 0 bytes
clock.ico
                | Bin 0 -> 67646 bytes
              | 10 +-
info.txt
klock.ico
               | Bin 3262 -> 67646 bytes
               | 129 ++-
klock.lpi
random/random1.ico
                   | Bin 151787 -> 0 bytes
random/random10.ico
                    | Bin 161228 -> 0 bytes
random/random11.ico
                     Bin 179933 -> 0 bytes
random/random12.ico
                    | Bin 173332 -> 0 bytes
random/random2.ico
                     Bin 161370 -> 0 bytes
random/random3.ico
                     Bin 154710 -> 0 bytes
random/random4.ico
                     Bin 176679 -> 0 bytes
random/random5.ico
                     Bin 132648 -> 0 bytes
random/random6.ico
                   | Bin 149826 -> 0 bytes
random/random7.ico
                     Bin 155776 -> 0 bytes
random/random8.ico
                     Bin 156516 -> 0 bytes
random/random9.ico
                   | Bin 151106 -> 0 bytes
random/readme.txt
                   | 17 -
uabout.lfm
                  30 +-
uabout.pas
                | 2+-
uhelp.lfm
                  6 +-
uhelp.pas
                  2 +-
uklock.lfm
                | 92 +-
uklock.pas
57 files changed, 2361 insertions(+), 221 deletions(-)
Build 3
commit d16134c3bd9b03fee717a13f51b75ca79be2ed4d
Author: Kevin Scott <lazKlock@keleven.co.uk>
Date: Thu Sep 29 21:12:48 2016 +0100
Timer page completed.
Reminder page started.
3 files changed, 163 insertions(+), 56 deletions(-
Build 4
commit 2bb295ab57abacd842d99879a21a46feeec62d8c
Author: Kevin Scott <lazKlock@keleven.co.uk>
Date: Thu Sep 29 21:15:59 2016 +0100
Fuzzy time page completed.
Still working on reminder page.
klock.lpi
         klock.lpr
         1 2 +-
```

Build 5

commit 012c8dcaa5ef6569b178c9263e8553b0208f46aa

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 21:22:06 2016 +0100

All four pages [fuzzy, countdown, time & reminder] are all complete.

Added logic to change status bar on page change.

Tidied up code.

Build 6

commit 04bbd3f4d9c7fbff3d493f570177b9c422f8fbbd Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 21:26:21 2016 +0100

All four pages now work - maybe an issue with reminders.

Added option record, that is passed between option form and the main form. Added first option - colour of the main labels.

```
history.txt
         | 37 ++++++++++
klock.iss
          | 54 +++++++++++++++
klock.lpi
         | 2+-
klock.lpr
uabout.lfm
          | 4+-
uhelp.lfm
          | 4+-
uklock.lfm
          | 59 +++++++++
uklock.pas
          | 38 +++++++++--
uoptions.lfm
          | 69 ++++++++++++
           uoptions.pas
uoptionsrecord.pas | 32 ++++++++
11 files changed, 399 insertions(+), 123 deletions(-
```

Build 7

commit 3a979b66d0e3fad03dfb79aef2b207025db3784f Author: Kevin Scott <lazKlock@keleven.co.uk>

Date: Thu Sep 29 21:29:35 2016 +0100

Added NET & UNIX time to fuzzypage. Added extra buttons to the radio group.

```
info.txt
        | 6+--
klock.lpi
         | 2+-
klock.lpr
          | 2 +-
uabout.pas
ufuzzytime.pas | 66 ++++++++++++++
uhelp.lfm
         | 4+-
         | 5+-
uhelp.pas
uklock.lfm
          | 30 ++++++
uklock.pas
          | 35 ++++++
uoptions.lfm | 4 +-
uoptions.pas | 2 +-
11 files changed, 191 insertions(+), 125 deletions(-)
Build 8
commit fd88525ca99a09df732c03859b5e963c91c4679f
Author: Kevin Scott < lazKlock@keleven.co.uk>
Date: Thu Sep 29 21:32:24 2016 +0100
Corrected bugs in fuzzytime & net time.
Added UTC time.
klock.iss
          | 4 +-
klock.lpi
         uabout.lfm
         | 4+-
ufuzzytime.pas | 19 +++++--
uhelp.lfm
         | 4 +-
uklock.lfm
          | 11 ++---
          | 4++
uklock.pas
uoptions.lfm | 4 +-
8 files changed, 104 insertions(+), 86 deletions(-)
Build 9
commit 2aad4c41fb6f0410f6ff7f69c952e660a5c96f2d
Author: Kevin Scott <lazKlock@keleven.co.uk>
Date: Thu Sep 29 21:35:59 2016 +0100
Changed the way to select the time format from a radio group to a combo box.
Added Swatch time.
info.txt
        | 6+--
klock.lpi
         uabout.pas
          | 2 +-
ufuzzytime.pas | 42 +++++++++++++
uhelp.pas
         | 2+-
uklock.lfm
         | 37 +++++
uklock.pas | 22 +++++
uoptions.lfm | 4 +-
uoptions.pas | 2 +-
10 files changed, 164 insertions(+), 123 deletions(-
Build 10
commit 53193a6c8825b941b4b2d9648e40eb1552d8a87b
Author: Kevin Scott <lazKlock@keleven.co.uk>
Date: Thu Sep 29 21:38:26 2016 +0100
```

Changed the data input on the reminder page from spin edits [one for hours and one for minutes] to a floating spin edit to handle both hours and minutes. Still working on the logic to make it work in 24 hours and 60 minutes.

Also added a date picker to the reminder page.

```
info.txt
      | 6+--
      klock.lpi
uabout.lfm
       | 28 +++++
uabout.pas
       | 2+-
ufuzzytime.pas | 21 ++++++
uhelp.lfm
      | 4+-
uhelp.pas
       | 2+-
uklock.lfm
       | 73 +++++++++++
9 files changed, 218 insertions(+), 178 deletions(-)
```

Build 11

commit e1da1e2a4a2bdb103668b2bab9a084b2bb8df54d

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 21:42:20 2016 +0100

More work done on the reminder page.

Finally decided to use two normal spin edits for the hours and mins.

Not too pretty, but simple and it works.

Also added a date picker and added the date into the reminder logic.

Added a clear button to the reminder page, to cancel the running reminder.

Build 12

commit 00b786ab517dc5c7833ace39a7cb35187d9fa811

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 21:59:53 2016 +0100

Tidied up the code for the radio group - select time.

```
info.txt | 6 +++---
klock.lpi | 20 ++++++++-----
uabout.pas | 2 +-
uhelp.pas | 2 +-
uklock.pas | 48 +++++++++++------------------
5 files changed, 29 insertions(+), 49 deletions(-)
```

Build 13

commit 9cdc03d6cb236ae91a3b997d203371a6849910a6

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 22:02:36 2016 +0100

Reduced the height of most of the components, to make the overall application more sleek - I think it looks better.

Added a new form for the license [same as the help form], hangs off the help menu. Help & Licence forms now load their text from text files.

Build 14

commit daaa17da01956208064528a5eaad527547f31994

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 22:06:24 2016 +0100

Date. The Oop 25 22:00:24 2010 10100

Added split time button to time page.

Removed the function ItoS, which converted integer to two digit strings and use internal format functions instead.

Build 15

commit f69334f878d9b7451b21fb5811aaa45203ea1a8d Author: Kevin Scott <lazKlock@keleven.co.uk>

Date: Thu Sep 29 22:25:08 2016 +0100

Added try..except clause to all file operations.

Another attempt to fix noon bug in fuzzytime.

```
uhelp.pas
            | 14 ++++++
uklock.lfm
            | 16 ++++----
ulicense.lfm | 6 ++--
ulicense.pas | 14 ++++++--
uoptions.lfm | 9 +++---
12 files changed, 134 insertions(+), 87 deletions(-)
Build 16
commit b2a0dc26bb2192179201688d36afd76500aedb9f
Author: Kevin Scott <lazKlock@keleven.co.uk>
Date: Thu Sep 29 22:27:24 2016 +0100
Recompiled to check for Lazarus 0.9.30.4
```

history.txt | 12 +++++++++ | 8 ++++---info.txt klock.iss | 8 ++++---klock.lpi | 10 ++++---uabout.lfm | 26 +++++++++ uabout.pas | 2 +uhelp.lfm | 2 +uhelp.pas | 2 +ulicense.lfm | 2 +ulicense.pas | 2 +-10 files changed, 43 insertions(+), 31 deletions(-)

Build 17

commit 7d528975e17fb50a1b14fc38e5a585c25bcd2a38 Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 22:28:56 2016 +0100

Licence window made read only - thanks Zach. Reminders can now not be set in the past - thanks Zach.

Start of code for saving options in a .ini file.

```
info.txt | 9 +--
klock.ini | 21 +++++
uabout.lfm | 24 +++----
uabout.pas | 2 +-
uhelp.pas | 2 +-
uklock.lfm | 11 +--
uklock.pas | 49 ++++++
ulicense.lfm | 1+
ulicense.pas | 2 +-
12 files changed, 500 insertions(+), 168 deletions(-)
```

Build 18

commit eb8bb66d933973ec2915c68f5be9a78ac921a6c1

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 22:38:52 2016 +0100

Further work completed on the .ini file

Extended the GUI on the options screen.

Build 19

commit 6258d4478adef926ad45e166503e3a9e47b46bb4

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 22:41:08 2016 +0100

Further work on the ini file stuff.

Timer can now run either second / milli seconds.

Default page control can now be set.

Both saved to ini file.

Build 20

commit d6208a7f77b04de861eac0154dc886be990c34b4

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 22:43:24 2016 +0100

All modules now load version info from options record.

Build 21

commit 9f04e9dd7a8ad1106d10310a6f9933d40b297faa

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 22:46:44 2016 +0100

Added unit uOptionsUtils.pas, which contains the functions StringToFont & FontToString - enables font information to be saved to the ini file.

Added code to save and load fonts from the ini file - to be tested.

Build 22

commit d74e9710c48371a8e92a440c372b15ae673e6119

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 22:50:15 2016 +0100

Further work on font options.

Removal of colour buttons in the options screen. The colour can be changed in the font page, so making these buttons redundant.

Build 23

commit 2f4a695fc917e80fa463ee1726e62eb95c253ac0

Author: Kevin Scott <lazKlock@keleven.co.uk>

Date: Thu Sep 29 23:01:23 2016 +0100

Removed colour buttons, duplicated in font dialogue screen.

Finished font stuff.

Will save screen position if desired.

```
| 12 ++--
info.txt
klock.ini
          | 22 ++++---
klock.iss
           | 7++-
klock.lpi
          | 117 ++++++++++++
           | 4+-
uhelp.lfm
           | 47 ++++++
uklock.lfm
uklock.pas
            | 53 ++++++
uoptions.lfm
           | 164 +++++++++++++++++
            | 179 ++++++++++++++
uoptions.pas
uoptionutils.pas | 15 +----
10 files changed, 255 insertions(+), 365 deletions(-)
```

Build 24

commit 0d76e07735779d51ae2e12853badf8d9ca57a8d5

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Sep 29 23:04:34 2016 +0100

Added option for net time to count in 1 or 15 seconds.

[15 seconds net time = i second real time]

Added option for Swatch time to display centibeats.

Added option for default time display.

Changed both default time & tab to be drop down lists.

Added option for countdown to trigger sound, event command or pop up message. event is a system event i.e. PC shut down or reboot. command is the ability to run an external application.

```
| 14 ++--
info.txt
klock.ini
     | 11 ++-
klock.lpi
     | 146 +++++++++++++
uabout.lfm
     | 35 ++++---
     | 1+
uabout.pas
ufuzzytime.pas | 28 +++++--
uhelp.pas
     | 1+
uklock.lfm
     uklock.pas
      ulicense.pas | 1+
12 files changed, 757 insertions(+), 279 deletions(-)
```

Build 25

commit 35b26cb97e749407f6b120ca4c0bcc4c853e4a2e

Author: Kevin Scott <lazKlock@keleven.co.uk>

Date: Fri Sep 30 21:34:21 2016 +0100

Over 1000 lines of meaningless code :0)

Renamed UOptionsUtils.pas to UKlockUtils.pas - a more general utils unit. Moved doSystemEvent & doComand procedures into this unit.

Corrected several bugs with the countdown event procedures.

Change AProcess.CommandLine [depreciated] to AProcess.Executable & Aprocess.Parameters.

Corrected bug; screen would reset to saved screen co-ordinates, even though the screen saved not clicked in options. Now checks option when resets main form.

Options; changed around the NET time and Swatch time to be a common checkbox list, instead of two check boxes.

Finally got around to the case statement, converted most nested IF statements.

Added Julian Time - needs checking.

```
| 2+-
help.txt
info.txt
                        | 8 +-
                        | 10 +-
klock.ini
                        | 141 ++++----
klock.lpi
                        | 2 +-
klock.lpr
ufuzzytime.pas
                            | 108 +++----
uklock.lfm
                         | 228 ++++++++++
uklock.pas
                          | 551 ++++++++++++++++++++++
uoptionutils.pas => uklockutils.pas | 101 +++++-
uoptions.lfm
                          | 128 +++--
                          | 39 ++-
uoptions.pas
11 files changed, 842 insertions(+), 476 deletions(-)
```

Build 26

```
commit 730fffd5076edbf3267f54ae52616ca06a94a043
Author: Kevin Scott <lazKlock@keleven.co.uk>
Date: Fri Sep 30 21:50:20 2016 +0100
Added Julian time.
Added Decimal Time.
Added Hexadecimal Time.
Added Binary Time.
info.txt
klock.lpi
         uklock.lfm | 41 ++++++
uoptions.lfm | 42 ++++++
uoptions.pas | 2 +-
6 files changed, 222 insertions(+), 131 deletions(-)
Build 27
commit 82242ff21bab25c4919463bdde34d3f8c335f4d2
Author: Kevin Scott <lazKlock@keleven.co.uk>
Date: Fri Sep 30 21:55:00 2016 +0100
Bug with the ini file, could not create in Windows 7. Not enough permissions, I think.
Use GetAppConfigDir, it retrieves the correct place to store the ini file.
Store in something like c:\Users\user\AppData\local\kloc\ in Windows 7.
And c:\D&S\usr\Local Settings\Application Data|Klock\ on Windows XP.
info.txt
       | 6 ++--
klock.ini | 4 +--
klock.iss | 7 +++--
klock.lpi | 32 ++++++++
uoptions.pas | 8 ++++--
6 files changed, 126 insertions(+), 24 deletions(-)
Build 28
commit 1c4daa3d9c873b3bf2feea83630b46e4e9ef2ee3
Author: Kevin Scott <lazKlock@keleven.co.uk>
Date: Fri Sep 30 21:58:57 2016 +0100
Removed local Klock.ini, not now needed - will create on start up.
Problem with the screen position of main form after options screen closed
  - Corrected [thanks Zach].
         | 10 ++--
info.txt
         | 25 -----
klock.ini
         klock.lpi
ufuzzytime.pas | 18 +++----
         | 83 +++++++++++++++
uklock.lfm
uklock.pas
          | 25 +++++++
uoptions.lfm | 36 +++++
uoptions.pas | 2 +-
8 files changed, 185 insertions(+), 160 deletions(-)
```

Build 29

commit 8453f000a73e627323eef4c51971a9cce65e09d3

Author: Kevin Scott <lazKlock@keleven.co.uk>

Date: Fri Sep 30 22:03:36 2016 +0100

Corrected bug; Setting the date on the reminder did not enable the set button - the time needed changing as well - [thanks Zach].

Build 30

commit 0e1fc4257b6bdde90a8282545b24531a7e3ea83a

Author: Kevin Scott <lazKlock@keleven.co.uk>

Date: Fri Sep 30 22:08:30 2016 +0100

Added tray icon to klock.

Added button, that hides the main form to a tray icon.

Added pop-up menu to tray icon, that gives the following options -

- 1 Show main form.
- 2 Show current selected time as a pop-up notification.
- 3 Exit Klock.

Changed the way the pop-up notification is called. Now uses a global array to hold different messages from time, countdown and reminder.

Added some new comments to procedures [which where their all the time ;o)]

Build 31

commit 1d6bf1d7c014e3575f62223afeb9729d5bcfbeb8 Author: Kevin Scott keleven.co.uk

Date: Fri Sep 30 22:14:03 2016 +0100

Recompiled to check for lazarus 1.0 RC1 [although showing 0.9.31 in about box].

Also turned off generate debugging info GDN in linking options.

This creates a lot smaller executable.

Build 32

commit f73c566840d177dadc0dc09013bab2422c7ab883

Author: Kevin Scott <lazKlock@keleven.co.uk>

Date: Fri Sep 30 22:17:23 2016 +0100

Recompiled to check for Lazarus 1.0 RC2 [now showing 1.0.1.2 in about box].

Tidied up the logic that checks that a reminder has been set in the future date.

If a system shut down is chosen in reminder or countdown and the application is being displayed in the system tray, switch to normal mode - allows the abort button to be selected.

Added a display to the status bar that indicates the status of the cap, numlock & scroll lock [in real time].

Build 33

commit 03c22837daa680df290ed247314cca7b33ce18a3

Author: Kevin Scott <lazKlock@keleven.co.uk>

Date: Fri Sep 30 22:22:17 2016 +0100

Ran source through a spell checker - many changes.

Changed reminder tab to event tab.

Changed all existing references of reminder to event.

This is to allow a new reminder tab, which will remind on birthdays, anniversaries etc.

Added new reminder tab.

Added new form to add reminders.

Added logic to save reminders to csv file.

Added logic to load csv file and display date on reminder tab.

There is a bug with Icl, the pop-up notifier timeout does not seem to work.

Added a timer, that will kill the notifier after ten seconds.

```
kReminder.txt
            | 16 ++
klock.lpi
           | 201 +++++++
klock.lpr
           | 3+-
ufuzzytime.pas | 2 +-
          | 6+-
uhelp.lfm
uhelp.pas
            | 2 +-
uklock.lfm
            | 227 ++++++++++
uklock.pas
            uklockutils.pas | 252 +++++++++++++
            | 6+-
ulicense.lfm
            | 55 +++---
uoptions.lfm
            | 115 +++++
uoptions.pas
ureminderinput.lfm | 193 ++++++++++++++
ureminderinput.pas | 175 +++++++++++++
14 files changed, 1256 insertions(+), 554 deletions(-)
```

Build 34

commit 0a457f25b2170992c563062f8a5ee4d8084ba82f

Author: Kevin Scott <lazKlock@keleven.co.uk>

Date: Fri Sep 30 22:57:59 2016 +0100

Converted SVN repository to GIT. Uploaded this to GitHub.

Recompiled to check for Lazarus 1.6 [showing 1.6.0.4 in about box].

Build 35

Recompiled to check for Lazarus 1.8.0.4.

Added VI backup files to .gitignore.

Amended klock.iss [inno setup script] to either install 32 or 64 bit executable, depending on target machine.

Increased version number of 35 in uOptions.pas.

Tidied up history.txt

Build 36 [1.0.0.36]

commit c607cfc8110893a99bc89120532a1f1f34c6955c

Author: Kevin Scott <lazKlock@keleven.co.uk>

Date: Thu Sep 7 22:36:38 2017 +0100

Renamed all form files from uxxx.pas to formxxx.pas. i.e. uKlock.pas -> formKlock.pas.

So, all source files that contain GUI elements will start with form.

All none GUI source files will start with u - a unit file.

Currently 2968 lines of source code. 1549 statements 14.6% comments

```
uabout.lfm => formAbout.lfm
                                    | 38 +++----
uabout.pas => formAbout.pas
                                     | 4 +-
uhelp.lfm => formHelp.lfm
                                 | 2+-
                                    | 4+-
uhelp.pas => formHelp.pas
uklock.lfm => formKlock.lfm
                                    | 0
uklock.pas => formKlock.pas
                                    | 20 ++--
ulicense.lfm => formLicense.lfm
                                     | 2 +-
                                     | 4 +-
uoptions.lfm => formOptions.lfm
                                      | 2+-
uoptions.pas => formOptions.pas
ulicense.pas => formlicense.pas
ureminderinput.lfm => formreminderinput.lfm | 39 +++----
ureminderinput.pas => formreminderinput.pas | 2 +-
                             | 168 +++++++++
klock.lpi
klock.lpr
                             | 4+-
                              | 4+
klock.xml
                                | 2+-
ufuzzytime.pas
uklockutils.pas
                                | 2 +-
```

Build 37 [2.0.0.37]

commit 3d7a9e43522baac7af8adea345307b107d33a228

Author: Kevin Scott keleven.co.uk Date: Mon Oct 16 22:15:32 2017 +0100

Added config file for SourceMonitor.

Added uOptions.pas, an options record that uses XML files. Hopefully this will replace the existing .ini file based options.

Amended all references in formKlock.pas that used the old .ini options to use the new .xml options record.

NOTE :: formOptions has not been touched yet and still point to the old style options records - this will be stripped out next.

Currently

3450 lines of source code.

1802 statements

15.5% comments

```
formKlock.lfm
                | 6+-
                | 57 +-
formKlock.pas
formOptions.Ifm
                 | 2+-
formreminderinput.lfm | 6 +-
history.txt
            | 1364 +++++++++++++++++++++
               | 8+-
klock.iss
klock.lpi
              | 141 +++--
              | 3+-
klock.lpr
lazKlock.smproj | Bin 0 -> 10684 bytes
powered_by_lazarus.png | Bin 0 -> 15189 bytes
            | 467 ++++++++++++
uoptions.pas
11 files changed, 1310 insertions(+), 744 deletions(-)
```

Build 38 [2.0.0.38]

commit c35513fb5200d949b4d7a01cb63240000e00073b

Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Wed Oct 18 22:18:09 2017 +0100

Amended formLicence, formHelp & formAbout to use new user Options.

Added to formAbout disk size and free space for all disks on the system

Added to formAbout system and application up time.

Added to formAbout to display if compile to either 32 or 64 bit.

Added to formAboout powered by Lazarus logo.

Tidied up formAbout.

Amended klock.iss to use lazKlock instead of Klock - should that be lazKlock.iss.

reloaded licence.txt from web site.

Currently
3567 lines of source code.
1856 statements
16.0% comment

```
GNU GENERAL PUBLIC LICENSE.txt | 880 ++++++++
formAbout.lfm
               | 652 ++++++++++++++++++++++++++++
formAbout.pas
                      | 114 +++++
formHelp.lfm
                     | 47 ++-
formHelp.pas
                     | 24 +-
                      | 44 ++-
formKlock.pas
formLicense.lfm
                      | 64 ++-
formlicense.pas
                      | 13 +-
history.txt
                    | 35 +-
                    | 4+-
klock.iss
                   | 160 ++++----
klock.lpi
lazKlock.smproj
                      | Bin 10684 -> 21721 bytes
12 files changed, 1166 insertions(+), 871 deletions(-)
```

Build 39 [2.0.0.39]

commit b9e05ca031036a4a64abf128859f401e10fab5f2 Author: Kevin Scott <lazKlock@keleven.co.uk> Date: Thu Oct 19 21:21:15 2017 +0100

Removed all references to the old .ini in formOptions, fromKlock & ufuzzyTime.

Also removed all non-visual components from formOptions.

We now build the new options screen.

```
Currently
3112 lines of source code.
1615 statements
16.4% comment
           | Bin 67646 -> 0 bytes
clock.ico
formAbout.pas | 2 +-
formKlock.pas | 21 +--
formOptions.lfm | 319 +-----
formOptions.pas | 465 +-----
formlicense.pas | 2 +-
history.txt | 36 +++++
           | 10 +-
klock.iss
klock.lpi
           | 153 +++++++
lazKlock.smproj | Bin 21721 -> 32884 bytes
ufuzzytime.pas | 12 +-
uoptions.pas | 11 ++
12 files changed, 149 insertions(+), 882 deletions(-)
```

Build 40 [2.0.0.40]

commit 98eeea8d6afdab62fc0bfc23bd0cc52fbc703883

Author: Kevin Scott <github@keleven.co.uk> Date: Fri Oct 27 21:40:30 2017 +0100

Started building the new options screens - using an accordion.

Although all options are written to the xml file has strings, amended the Options class so that all options are presented to lazKlock has native type i..e. Integers and Boolean. The conversions are not his within the options class and not the main program.

Changed the logic in formOptions, when the options form loads a backup options record is created and this is amended, it is only copied to the main options records if OK is clicked.

If cancel is click the amendments are discarded.

Added the logic to uKlockUtils to amend the registry for starting the app with windows.

Removed self from variable references in uFuzztTime - not sure why they where there.

```
Currently
3338 lines of source code.
1738 statements
17.4% comment
formKlock.lfm
           | 17 ++--
formKlock.pas
            | 57 +++++
formOptions.pas
            history.txt
          | 31 ++++++
klock.lpi
          | 203 ++++++++++++++++++++++
          | 5+-
klock.lpr
lazKlock.smproj | Bin 32884 -> 41764 bytes
ufuzzytime.pas | 38 +++++---
uklockutils.pas | 42 ++++++
options.pas
          | 178 ++++++++++++++++++++++
uoptionsrecord.pas | 32 -----
12 files changed, 762 insertions(+), 266 deletions(-)
```

Build 41 [2.0.0.41]

commit 57332b6a2300cb489eee6d399318876c9519575e

Author: Kevin Scott <github@keleven.co.uk> Date: Mon Oct 30 22:14:19 2017 +0000

Added a separate form to house an Analogue Klock - frmAnalogueKlock.pas.

Made this form transparent, just leaving the form.

Added logic to make this draggable, with just the Klock visible.

Added User Options to remember the Analogue Klock screen position.

Added to main Klock to display the idle time.

Added percent Time to FuzzyTime.

```
formKlock.lfm
             | 19 ++++-
formKlock.pas
             | 48 +++++++
             | 13 +--
formOptions.Ifm
formanalogueklock.lfm | 78 ++++++++++++++
history.txt
           | 45 ++++++++
klock.lpi
           | 3+-
klock.lpr
lazKlock.smproj
             | Bin 41764 -> 51298 bytes
ufuzzytime.pas
             | 21 ++++-
uoptions.pas
            | 61 ++++++++++
11 files changed, 549 insertions(+), 117 deletions(-)
```

Build 42 [2.0.0.42]

commit 7b3781a898da3a2f69387a5eca5eae372c198112

Author: Kevin Scott <github@keleven.co.uk> Date: Mon Nov 6 13:39:29 2017 +0000

The shutdown command seems to have changed in windows 10.

Parameters are now preceded with a / and not a -.

Also, having problems passing parameter's with spaces, removed for now.

Corrected bug where if no action was selected, an index out of bounds could be created.

Build 43 [2.0.0.43]

commit 92d89f0d1125dd1f4aa33a102f38c94de928ef13

Author: Kevin Scott <github@keleven.co.uk> Date: Mon Nov 6 15:03:59 2017 +0000

Passed all source files through a spell checker - mainly for comments.

Passed all source through JEDI source checker.

Bumped up a minor version point.

```
Currently
3693 lines of source code.
1874 statements
16.7% comment
```

```
formAbout.pas
               | 53 ++-
formHelp.pas
              | 12 +-
formKlock.pas
               formOptions.Ifm
               | 2 +-
               | 53 ++-
formOptions.pas
formanalogueklock.pas | 76 ++--
               | 12 +-
formlicense.pas
formreminderinput.pas | 73 ++--
          | 6+-
help.txt
klock.lpi
            | 139 ++++----
            | 25 +-
klock.lpr
ufuzzytime.pas
               | 333 ++++++
uklockutils.pas
              | 115 +++---
uoptions.pas
              14 files changed, 1451 insertions(+), 1360 deletions(-)
```

Build 44 [2.0.1.44]

commit d0ffe89eb2885a8226c87d2b274fe099ce0684cc

Author: Kevin Scott <github@keleven.co.uk> Date: Fri Nov 10 20:15:11 2017 +0000

Added time displayed as barcode, Semaphore, Nancy Blackett Semaphore & Braille. Theses are achieved my font substitution.

Added a new unit uFont.pas - to load custom fonts.

Added logic to formKlock to use new fonts when required.

Added two new directories fonts & sounds.

Added a number of mp3 files to play the hourly chimes and The pips.

Currently

ufuzzytime.pas

Amended to procedure doPlaySound in uKlockUtils.pas to play all sound files and not just .wav files. Also, made this procedure more robust. Also added to this unit to play the hourly chimes.

Added user options for sound volume, sound the pips on the hour or hourly chimes. Also added the option for the analogue klock to save screen position.

```
4080 lines of source code.
2120 statements
16.4% comment
fonts/BarCode39.ttf
                        | Bin 0 -> 22492 bytes
fonts/BrailleLatin.ttf
                      | Bin 0 -> 30204 bytes
fonts/Hack-Regular.ttf
                        | Bin 0 -> 394336 bytes
                         | Bin 0 -> 41836 bytes
fonts/NancyBlackett.ttf
fonts/Semaphore.ttf
                         | Bin 0 -> 12344 bytes
formKlock.lfm
                       | 12 ++-
formKlock.pas
                        | 240 ++++++++++++++++++++
                        | 158 +++++++++++++++++++++++
formOptions.Ifm
formOptions.pas
                        | 116 ++++++++++++++++
formanalogueklock.pas
                           | 1+
history.txt
                     | 56 +++++++
klock.iss
                     | 2 +-
klock.lpi
                     | 229 ++++++++++++++++
klock.lpr
                     | 2+-
                        4 -
klock.xml
lazKlock.smproj
                        | Bin 51298 -> 61875 bytes
sounds/alarm-fatal.mp3
                          | Bin 0 -> 311378 bytes
sounds/alarm-fatal.wav
                          | Bin 1359604 -> 0 bytes
sounds/chimes.wav
                          | Bin 55776 -> 0 bytes
sounds/chord.wav
                         | Bin 97016 -> 0 bytes
sounds/ding.wav
                        | Bin 80856 -> 0 bytes
sounds/eight.mp3
                         | Bin 0 -> 979530 bytes
sounds/eleven.mp3
                          | Bin 0 -> 1162381 bytes
sounds/five.mp3
                        | Bin 0 -> 801223 bytes
sounds/four.mp3
                        | Bin 0 -> 739385 bytes
sounds/halfchime.mp3
                           | Bin 0 -> 319514 bytes
sounds/nine.mp3
                         | Bin 0 -> 1040899 bytes
sounds/notify.wav
                        | Bin 119384 -> 0 bytes
sounds/one.mp3
                         | Bin 0 -> 559035 bytes
sounds/quarterchime.mp3
                            | Bin 0 -> 241462 bytes
sounds/recycle.wav
                         | Bin 25434 -> 0 bytes
sounds/ringin.wav
                        | Bin 10026 -> 0 bytes
                         | Bin 5212 -> 0 bytes
sounds/ringout.wav
sounds/seven.mp3
                          | Bin 0 -> 919940 bytes
sounds/six.mp3
                         | Bin 0 -> 862013 bytes
sounds/start.wav
                        | Bin 1192 -> 0 bytes
sounds/tada.wav
                         | Bin 171100 -> 0 bytes
                         | Bin 0 -> 1101951 bytes
sounds/ten.mp3
                          | Bin 0 -> 40874 bytes
sounds/thepips.mp3
sounds/three.mp3
                         | Bin 0 -> 679164 bytes
sounds/threequarterchime.mp3 | Bin 0 -> 383064 bytes
sounds/twelve.mp3
                          | Bin 0 -> 1223752 bytes
sounds/two.mp3
                         | Bin 0 -> 620614 bytes
ufonts.pas
                      | 69 ++++++++++
```

| 43 +++----

Build 45 [2.0.1.45]

commit a9296bca47a258c567d6d096bca416709e943c63

Author: Kevin Scott <github@keleven.co.uk> Date: Tue Nov 14 14:57:13 2017 +0000

Added the ability for Klock to write Info and Debug information to log files. Logging can be enabled / disabled by a user options. Also the ability to delete log files older then a certain age. This is also specified by user options.

An extra tab was added to the options form for the logging options, the log files are also displayed here.

Added a new unit, uLoggingUtils. The unit contains the helper routines to read and delete log files.

Started to sprinkle debug entries all over.

Cleaned up the calling process for the chimes.

Added doubleTime to uFuzzyTime.

Added a new unit, uOptionsUtils. This unit contains helper routines to read and write XML entries.

Changed the Klock icon.

```
Currently
4303 lines of source code.
2199 statements
16.7% comment
```

```
formKlock.lfm
                  | 5994 +++++++++++++
formKlock.pas
                  | 78 +-
formOptions.Ifm
                   | 105 +-
                   | 58 +-
formOptions.pas
formanalogueklock.pas | 1 +
history.txt
                | 82 +-
klock.ico
                | Bin 67646 -> 0 bytes
               | 212 +-
klock.lpi
                9 +-
klock.lpr
lazKlock.smproj
                   | Bin 61875 -> 73456 bytes
                  | Bin 0 -> 67646 bytes
time-13-128.ico
                  | 41 +-
ufuzzytime.pas
uklockutils.pas
                  | 44 +-
uloggerutils.pas
                  | 90 +
uoptions.pas
                  | 374 ++-
uoptionsutils.pas
                 | 99 +
16 files changed, 2749 insertions(+), 4438 deletions(-)
```

Build 46 [2.0.1.46]

commit 2a0201bd0094f867199523c53545e03695adb89f

Author: Kevin Scott <github@keleven.co.uk> Date: Mon Nov 20 14:11:16 2017 +0000

Added formCipboard and uformClipboardUtils which implements a clipboard manager.

Added various options for the clipboard manages to formOptions and uOptions.

```
| 18 ++--
README.md
         | 1 -
formKlock.lfm
         | 13 ++-
formKlock.pas
formOptions.Ifm
          | 50 ++++----
formOptions.pas
          | 15 +++
formanalogueklock.lfm | 8 +-
formanalogueklock.pas | 3 +-
formclipboard.pas
          | 43 ++++---
help.txt
       | 55 +++++++
history.txt
klock.ico
         | Bin 0 -> 67646 bytes
klock.iss
         | 5+-
klock.lpi
         | 5+-
klock.lpr
lazKlock.smproj | Bin 73456 -> 100949 bytes
uoptions.pas
       | 26 ++++-
18 files changed, 966 insertions(+), 180 deletions(-)
```

Looks like I have messed up and corrupted the sources somewhere along the line. It would compile but would error when loading with Access Violation. What ever I did, I could not see what I had done wrong. The happened at both 32 & 64 bit. It did happen at the same time as I had tried a new couple of components, maybe I had mixed up the 32 and 64 bit things. Or, more probably, trying to access an object that had not been initialised. I gave up.

Lazarus then released the final V1.8 - So I decided to try and fix it.

The first build that would compile and run was build 41. So branch V2.1 starts for there.

I will try apply the changes gradually and see if I can spot the erorr[s].

Build 47 [2.1.1.47]

commit 6cd165f08dbdf1636c5e595ab623e35d89a5efb4

Author: Kevin Scott <github@keleven.co.uk> Date: Tue Dec 12 21:22:21 2017 +0000

[This is a duplication of build 42]

The shutdown command seems to have changed in windows 10.

Parameters are now preceded with a / and not a -.

Also, having problems passing parameter's with spaces, removed for now.

Corrected bug where if no action was selected, an index out of bounds could be created.

Currently
3611 lines of source code.
1851 statements
17.2% comment

formAbout.pas | 2 +formKlock.lfm | 2 +-

Build 48 [2.1.2.48]

commit e6d03bec376307cbf63b324ea64f181d8a03867b

Author: Kevin Scott <github@keleven.co.uk> Date: Wed Dec 13 10:00:24 2017 +0000

[This is a duplication of build 43]

Passed all source files through a spell checker - mainly for comments.

Passed all source through JEDI source checker.

Bumped up a minor version point.

Currently 3703 lines of source code. 1863 statements 16.7% comment

Build 49 [2.1.3.49]

commit f7b1216f1f682f9a2f28593dffbda45ca84521d0 Author: Kevin Scott <github@keleven.co.uk> Date: Wed Dec 13 20:12:19 2017 +0000

[This is a NEARLY duplication of build 43]

Added time displayed as barcode, Semaphore, Nancy Blackett Semaphore &

Braille. Theses are achieved my font substitution.

Added a new unit uFont.pas - to load custom fonts.

Added logic to formKlock to use new fonts when required.

Added two new directories fonts & sounds.

Added a number of mp3 files to play the hourly chimes and The pips.

Amended to procedure doPlaySound in uKlockUtils.pas to play all sound files and not just .wav files. Also, made this procedure more robust. Also added to this unit to play the hourly chimes.

Added user options for sound volume, sound the pips on the hour or hourly chimes. Also added the option for the analogue klock to save screen position.

Currently

4077 lines of source code.

2113 statements 16.4% comment

```
fonts/BarCode39.ttf
                        | Bin 0 -> 22492 bytes
fonts/BrailleLatin.ttf
                       | Bin 0 -> 30204 bytes
fonts/Hack-Regular.ttf
                         | Bin 0 -> 394336 bytes
fonts/NancyBlackett.ttf
                         | Bin 0 -> 41836 bytes
fonts/Semaphore.ttf
                         | Bin 0 -> 12344 bytes
formHelp.pas
                        | 12 +-
formKlock.lfm
                       1 7 +-
formKlock.pas
                        | 284 ++++++++++++++++++++++++
formOptions.Ifm
                        139 ++++++++++++++
                        | 125 ++++++++++++++
formOptions.pas
                           | 29 ++---
formanalogueklock.pas
history.txt
                     | 53 ++++++
klock.iss
                     | 6+-
klock.lpi
                     195 +++++++++++++
klock.lpr
                     | 2+-
                        | Bin 61799 -> 83961 bytes
lazKlock.smproj
sounds/alarm-fatal.mp3
                          | Bin 0 -> 311378 bytes
sounds/alarm-fatal.wav
                          | Bin 1359604 -> 0 bytes
sounds/chimes.wav
                          | Bin 55776 -> 0 bytes
sounds/chord.wav
                         | Bin 97016 -> 0 bytes
                        | Bin 80856 -> 0 bytes
sounds/ding.wav
sounds/eight.mp3
                         | Bin 0 -> 979530 bytes
sounds/eleven.mp3
                          | Bin 0 -> 1162381 bytes
sounds/five.mp3
                        | Bin 0 -> 801223 bytes
sounds/four.mp3
                        | Bin 0 -> 739385 bytes
sounds/halfchime.mp3
                           | Bin 0 -> 319514 bytes
sounds/nine.mp3
                          | Bin 0 -> 1040899 bytes
sounds/notify.wav
                        | Bin 119384 -> 0 bytes
sounds/one.mp3
                         | Bin 0 -> 559035 bytes
sounds/quarterchime.mp3
                            | Bin 0 -> 241462 bytes
sounds/recycle.wav
                         | Bin 25434 -> 0 bytes
sounds/ringin.wav
                        | Bin 10026 -> 0 bytes
                         | Bin 5212 -> 0 bytes
sounds/ringout.wav
                          | Bin 0 -> 919940 bytes
sounds/seven.mp3
sounds/six.mp3
                         | Bin 0 -> 862013 bytes
sounds/start.wav
                        | Bin 1192 -> 0 bytes
sounds/tada.wav
                         | Bin 171100 -> 0 bytes
sounds/ten.mp3
                         | Bin 0 -> 1101951 bytes
                          | Bin 0 -> 40874 bytes
sounds/thepips.mp3
                         | Bin 0 -> 679164 bytes
sounds/three.mp3
sounds/threequarterchime.mp3 | Bin 0 -> 383064 bytes
sounds/twelve.mp3
                         | Bin 0 -> 1223752 bytes
sounds/two.mp3
                         | Bin 0 -> 620614 bytes
ufonts.pas
                      | 78 +++++++++
                        | 42 +++----
ufuzzytime.pas
uklockutils.pas
                       156 ++++++++++++++++
uoptions.pas
                       | 90 +++++++++
47 files changed, 895 insertions(+), 323 deletions(-)
```

Build 50 [2.1.3.50]

commit ce387521eca09467d8a50d3617c9b0d79254acd5

Author: Kevin Scott <github@keleven.co.uk> Date: Wed Dec 13 22:06:13 2017 +0000

[This is a part duplication of build 45 - mainly the options stuff.] Cleaned up the calling process for the chimes.

Added doubleTime to uFuzzyTime.

Added a new unit, uOptionsUtils. This unit contains helper routines to read and write XML entries.

Changed the Klock icon.

```
Currently
4051 lines of source code.
2051 statements
16.9% comment
formAbout.pas | 4 +-
formKlock.pas
              | 15 +-
formOptions.lfm |
                 4 +-
formOptions.pas | 7 +-
history.txt
           | 57 +-
klock.ico
            | Bin 67646 -> 67646 bytes
            | 6+-
klock.iss
klock.lpi
            | 172 +-
klock.lpr
           | 2+-
lazKlock.smproj | Bin 83961 -> 96029 bytes
time-13-128.ico | Bin 0 -> 67646 bytes
ufuzzytime.pas | 38 +-
uklockutils.pas | 39 +-
uoptions.pas
             | 285 +-
uoptionsutils.pas | 100 +
16 files changed, 5059 insertions(+), 5034 deletions(-)
```

Build 51 [2.1.3.51]

commit 22135ab71701bcf61cedef606c118d34eae6ab28

Author: Kevin Scott <github@keleven.co.uk> Date: Sat Dec 16 18:56:37 2017 +0000

[This is a part duplication of build 45 - mainly the options stuff.] Added the ability for Klock to write Info and Debug information to log files. Logging can be enabled / disabled by a user options. Also the ability to delete log files older then a certain age. This is also specified by user options.

An extra tab was added to the options form for the logging options, the log files are also displayed here.

Added a new unit, uLogging.pas. The unit contains the helper routines to read and delete log files.

Started to sprinkle debug entries all over.

I started to get the Access Violation again, especially in the 32 bit application. This seemed to be either the logging not being thread safe and a problem in loading the fonts. I changed the method that loads the faults and stopped using TEvent and wrote a simple logging class of my own that just appends to a text file. [The logging class resides in uLogging.pas]

All seems to be okay.

Added a routine that retrieves the version of Windows, this is displayed in the About form and the header of the log file.

Also removed the option to install the sources from the inno installer, they can download them from GitHub.

```
Currently
4402 lines of source code.
2228 statements
17.2% comment
formAbout.Ifm
                | 41 +++++
formAbout.pas
                 | 44 ++-----
formHelp.pas
                12+
formKlock.pas
                 formLicense.lfm
                 | 2 +-
formOptions.Ifm
                 | 78 ++++++++++++++
formOptions.pas
                 | 55 ++++++++++++
formanalogueklock.pas |
                      3+
formlicense.pas
                 | 2+
formreminderinput.lfm | 2 +-
formreminderinput.pas | 7++
history.txt
              | 73 +++++++++++++++
klock.lpi
              | 192 ++++++++++++++++++++++
              | 2 +-
klock.lpr
lazKlock.smproj
                 | Bin 96029 -> 108871 bytes
               | 98 ++++++++++++++++
ufonts.pas
uklockutils.pas
                | 97 +++++++++++++++++++++
ulogging.pas
                93 +++++++++
uoptions.pas
                | 3 -
uoptionsutils.pas
20 files changed, 805 insertions(+), 304 deletions(-)
Build 52 [2.1.3.52]
commit 955ef8502453ccbc89da6a283ef28ff39acb7f7a
Author: Kevin Scott < github@keleven.co.uk>
Date: Sun Dec 17 21:37:49 2017 +0000
[This is a NEARLY duplication of build 46]
Added formCipboard and uformClipboardUtils which implements a clipboard manager.
Added various options for the clipboard manages to formOptions and uOptions.
Currently
4946 lines of source code.
2517 statements
16.6% comment
formAbout.lfm
                | 41 +++++
                 | 44 ++---
formAbout.pas
formHelp.pas
                | 2+
formKlock.pas
                 160 ++++++++++++++
formLicense.lfm
                 1 2 +-
formOptions.Ifm
                 | 78 +++++++++++++++
formOptions.pas
                 | 55 ++++++++++++
formanalogueklock.pas | 3 +
formlicense.pas
                 | 2+
formreminderinput.lfm | 2 +-
formreminderinput.pas | 7 ++
history.txt
              | 73 +++++++++++++++
klock.lpi
              | 192 +++++++++++++++++++++
klock.lpr
              | 2 +-
                 | Bin 96029 -> 108871 bytes
lazKlock.smproj
ufonts.pas
               | 98 +++++++++++++++++++
```

Build 53 [2.1.4.53]

commit a8fcda0f1df54159f605d1241fbcdec9aed1f45b

Author: Kevin Scott <github@keleven.co.uk> Date: Mon Dec 18 13:04:20 2017 +0000

Added an info screen it display information about Easter & lent dates, Power Source and Daylight Saving. These are called from an Info menu from the main Klock screen. ulnfoUtils was added and this contains the routins which do the heavy lifting.

Added Time in words, Morse time and Roman Numerals Time to uFuzzyTime.

Added Application directory to formAbout and log file header.

```
Currently
5514 lines of source code.
2903 statements
15.8% comment
formAbout.lfm | 43 +++++
formAbout.pas | 2 +
formKlock.lfm | 25 ++++-
formKlock.pas | 67 ++++++++++
formOptions.lfm | 4 +-
history.txt | 28 +++++
     | 2+-
klock.iss
klock.lpi
     | 3+-
klock.lpr
uklockutils.pas | 1+
14 files changed, 920 insertions(+), 167 deletions(-)
```

Build 54 [2.1.4.54]

commit d4c4e3ef6602799b13f2e93f662ee9d86002df5a

Author: Kevin Scott <github@keleven.co.uk> Date: Wed Dec 20 20:10:32 2017 +0000

Added a Christmas font and an option to automatically use this font for the 12 day of christmas - 12 days before and 12 days after.

Other holiday fonts will be added when found.

formAbout - Removed info labels and added a listbox to display Klock about stuff.

formKlock - Tidied up the setting of main timer interval when using NET time.

- Added logic to use Christmas font.
- First attempt at auto sizing main fuzzy time label depending upon size.

formOptions - Added checkbox for Christmas font.

formClipboard - Added the start of culling tmp files.

formInfo - Removed info labels and added a listbox to display Info stuff.

uFonts - Added loading and removal of Christmas font.

uFuzzyTime - Added logic for fuzzyTime to write out it's own debug log.
- Corrected bug[s] in fuzzyTime.

uKlockUtils - Added getTextWidth & isChristams helper functions.

```
Currently
5654 lines of source code.
2984 statements
15.7% comment
```

```
fonts/Christmas.ttf | Bin 0 -> 57012 bytes
formAbout.lfm
                  | 79 +-
                  | 38 +-
formAbout.pas
formKlock.lfm
                  | 166 ++--
                  | 47 +-
formKlock.pas
formOptions.Ifm
                  | 36 +-
                   | 15 +-
formOptions.pas
formanalogueklock.pas | 7 -
formclipboard.lfm | 5 +
                  | 26 +-
formclipboard.pas
              | 70 +-
forminfo.lfm
forminfo.pas
                 | 58 +-
history.txt
               | 2243 +++++++++++++++++++++
               | 2+-
klock.iss
               | 228 ++---
klock.lpi
lazKlock.smproj
                  | Bin 123852 -> 140380 bytes
                | 6+-
ufonts.pas
                  | 51 +-
ufuzzytime.pas
uinfoutils.pas
                | 13 +-
                 | 35 +-
uklockutils.pas
uoptions.pas
                    6+
21 files changed, 1636 insertions(+), 1495 deletions(-)
```

Build 55 [2.1.4.55]

commit 3721a3e5d078a2ae0c14b5cb17fc7370ed747d51

Author: Kevin Scott <github@keleven.co.uk> Date: Thu Dec 21 14:12:46 2017 +0000

Added a LED Klock, this hangs off the Time menu on the main Klock. Added formLEDKlock to the project.

formKlock - Added menu item to call the LED Klock.

formOptionss - Added options for LED Klock [save screen position]. uOptions - Added above options.

uFuzzyTime - Added Flow Time and Metric Time.

```
Currently
5917 lines of source code.
3091 statements
15.8% comment
formKlock.lfm
                 | 8+-
formKlock.pas
                  | 42 ++++---
formOptions.Ifm
                  | 43 +++++--
                  | 29 ++++--
formOptions.pas
formanalogueklock.lfm | 6 +-
formanalogueklock.pas | 12 +--
formclipboard.lfm
                 | 5+
                  | 23 +++--
formclipboard.pas
                  | 45 +++++++
formledklock.lfm
                  | 146 +++++++++++++++++++++++
formledklock.pas
history.txt
               | 49 +++++++
                | 2+-
klock.iss
klock.lpi
               | 258 +++++++++++++++++++++++
               | 3+-
klock.lpr
lazKlock.smproj
                  | Bin 140380 -> 174874 bytes
ufuzzytime.pas
                  | 51 +++++++
uoptions.pas
                 | 34 ++++++
17 files changed, 592 insertions(+), 164 deletions(-)
Build 56 [2.1.4.56]
commit 16b49360bd2f6cb5c60385c86662c27817c0829d
Author: Kevin Scott < github@keleven.co.uk>
Date: Tue Dec 26 22:14:24 2017 +0000
Added a Binary Klock, this hangs off the Time menu on the main Klock.
Added formBinaryKlock to the project.
The Klock can display time in either Binary or BCD format.
formKlock - Added menu item to call the Binary Klock.
formOptions - Added options for LED Klock [Use long date format].
       - Added options for Binary Klock [save screen position].
       - Added options for Binary Klock [Binary/BCD format].
uOptions - Added above options.
formAnalogueKlock - Changed method of moving [draggiing] the klock,
            it now mirrors the LED Klock.
formLEDKlock - Added use long date option.
       - Fixed a bug in screen save logic.
Currently
6514 lines of source code.
3437 statements
15.4% comment
                  | 6+-
formAbout.pas
                  | 8+-
formKlock.lfm
formKlock.pas
                   | 10 +-
formOptions.Ifm
                   | 42 ++++-
formOptions.pas
                   | 54 ++++--
formanalogueklock.lfm | 16 +-
formanalogueklock.pas | 81 +++++----
```

```
| 16 +-
formledklock.lfm
                  | 24 ++-
formledklock.pas
history.txt
              | 71 +++++--
klock.iss
                | 2 +-
klock.lpi
               | 296 +++++++
               | 4+-
klock.lpr
lazKlock.smproj
                  | Bin 174874 -> 193883 bytes
                 | 16 +-
uklockutils.pas
                 | 60 +++++
uoptions.pas
                | 2+-
uoptionsutils.pas
19 files changed, 1108 insertions(+), 321 deletions(-)
Build 57 [2.1.4.57]
commit 0c32a35cbb44ae3e11875382adb185a32ec9f074
Author: Kevin Scott < github@keleven.co.uk>
Date: Thu Dec 28 13:47:14 2017 +0000
  Developing Small Text Klock.
fonts/{Hack-Regular.ttf => Hack.ttf} | Bin
formKlock.lfm
                          | 8+-
formKlock.pas
                             8 +-
formOptions.Ifm
                           | 31 +-
formOptions.pas
                           | 22 +-
formledklock.lfm
                             4 +-
formsmalltextklock.lfm
                            | 58 ++
formsmalltextklock.pas
                             | 25 +
history.txt
klock.lpi
                         214 +++++--
klock.lpr
                           3 +-
ufonts.pas
                           2 +-
uklockutils.pas
                          | 11 +-
uoptions.pas
                            45 +-
14 files changed, 1411 insertions(+), 53 deletions(-)
Build 58 [2.1.4.58]
commit 8c72e195366d5433a2a37e10d3122f7113a1d94b
Author: Kevin Scott < github@keleven.co.uk>
Date: Fri Dec 29 22:51:21 2017 +0000
Added a Small Text Klock, this hangs off the Time menu on the main Klock.
Added formSmallTextKlock to the project.
The Klock can either have a transparent or solid background.
formKlock - Added menu item to call the Binary Klock.
formOptions - Added options for Binary Klock [save screen position].
       - Added options for Binary Klock [Transparent background].
uOptions - Added above options.
Renamed hack-Regular.ttf to Hack.ttf.
uFonts - Added loading of hack.ttf.
Currently
7636 lines of source code.
4140 statements
```

14.1% comment

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

License

License

GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. http://fsf.org/

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the

works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all

versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation,

use the GNU General Public License for most of our software; it applies also to any other work released this way by its

authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to

make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you

receive source code or can get it if you want it, that you can change the software or use pieces of it in new free

programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights.

Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients

the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you

must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:

- (1) assert copyright on the software, and
- (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software.

For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems

will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although

the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the

software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely

where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those

products. If such problems arise substantially in other domains, we stand ready to extend this provision to those

domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict

development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger

that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that

patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "vou".

"Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission,

other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work

"based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily

liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy.

Propagation includes copying, distribution (with or without modification), making available to the public, and in some

countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction

with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and

prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no

warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this

License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as

a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means

any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body,

or, in the case of interfaces specified for a particular programming language, one that is widely used among developers

working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in

the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to

enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is

available to the public in source code form. A "Major Component", in this context, means a major essential component

(kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a

compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and

(for an executable work) run the object code and to modify the work, including scripts to control those activities.

However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs

which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding

Source includes interface definition files associated with source files for the work, and the source code for shared

libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data

communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the

Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided

the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program.

The output from running a covered work is covered by this License only if the output, given its content, constitutes a

covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license

otherwise remains in force. You may convey covered works to others for the sole purpose of having them make

modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with

the terms of this License in conveying all material for which you do not control copyright. Those thus making or

running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that

prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling

obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or

restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the

extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you

disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users,

your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you

conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating

that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices

of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source

code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added

under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy.

This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work,

and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any

other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program

has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of

the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or

distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the

access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work

in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the

machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium).

accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium),

accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or

customer support for that product model, to give anyone who possesses the object code either (1) a copy of the

Corresponding Source for all the software in the product that is covered by this License, on a durable physical

medium customarily used for software interchange, for a price no more than your reasonable cost of physically

performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source.

This alternative is allowed only occasionally and non commercially, and only if you received the object code with

such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent

access to the Corresponding Source in the same way through the same place at no further charge. You need not

require recipients to copy the Corresponding Source along with the object code. If the place to copy the object

code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)

that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying

where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain

obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and

Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library,

need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used

for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In

determining whether a product is a consumer product, doubtful cases shall be resolved in favour of coverage.

particular product received by a particular user, "normally used" refers to a typical or common use of that class of

product, regardless of the status of the particular user or of the way in which the particular user actually uses. or

expects or is expected to use, the product. A product is a consumer product regardless of whether the product has

substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of

the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information

required to install and execute modified versions of a covered work in that User Product from a modified version of its

Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code

is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the

conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to

the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding

Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not

apply if neither you nor any third party retains the ability to install modified object code on the User Product (for

example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide

support

service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product

in which it has been modified or installed. Access to a network may be denied when the modification itself materially

and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format

that is publicly documented (and with an implementation available to the public in source code form), and must require

no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of

its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were

included in this License, to the extent that they are valid under applicable law. If additional permissions apply only

to part of the Program, that part may be used separately under those permissions, but the entire Program remains

governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or

from any part of it. (Additional permissions may be written to require their own removal in certain cases when you

modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have

or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by

the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License;
 or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the

Appropriate Legal Notices displayed by works containing it; or

- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or

modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If

the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along

with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits re licensing or conveying under this License, you may add to a covered work material governed by

the terms of that license document, provided that the further restriction does not survive such re licensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a

statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as

exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise

to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent

licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated

- (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and
- (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days

after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you

of the violation by some reasonable means, this is the first time you have received notice of violation of this License

(for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or

rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not

qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of

a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not

require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered

work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a

covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original

licensors, to run,

modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third

parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or

subdividing an organization, or merging organizations. If propagation of a covered work results from an entity

transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work

the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with

reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For

example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License,

and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent

claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the

Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already

acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or

selling its contributor version, but do not include claims that would be infringed only as a consequence of further

modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent

sub licenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential

patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its

contributor version.

against the party.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not

to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement).

To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not

available for anyone to copy, free of charge and under the terms of this License, through a publicly available network

server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so

available, or

(2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients.

"Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in

a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in

that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring

conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing

them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is

automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of.

or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License.

You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of

distributing software, under which you make payment to the third party based on the extent of your activity of conveying

the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a

discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from

those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered

work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defences to

infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this

License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to

satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence

you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further

conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License

would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work

licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the

resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special

requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply

to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time.

Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or

concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the

GNU General Public License "or any later version" applies to it, you have the option of following the terms and

conditions either of that numbered version or of any later version published by the Free Software Foundation. If the

Program does not specify a version number of the GNU General Public License, you may choose any version ever published

by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used.

that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are

imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN

WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER

EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM

PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO

MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL,

INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO

LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM

TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect

according to

their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil

liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program

in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve

this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to

most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer

to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.

Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer"

for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see http://www.gnu.org/licenses/.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with

the library. If this is what you want to do, use the GNU Lesser General Public License instead of this

License.
But first, please read
http://www.gnu.org/philosophy/why-not-lgpl.html>.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

Credits

Credits

- Convert based on article in http://www.dreamincode.net/forums/topic/121316-an-updatable-unitconversion-calculator/
- . Most of the time formats where found on the internet clever minds then me out there
- Nancy Blackett Semaphore Font curtsey of ©2006 Roland B. Harris
- www.allthingsransome.net/downloads/nbsemaphore.html
- Christmas, Semaphore & BrailleLatin font curtsey of www.creamundo.com/en
- Images from http://www.customicondesign.com/free-icons/
- Font for the Text Klock etc., Hack http://sourcefoundry.org/hack/

Created with the Personal Edition of HelpNDoc: Produce electronic books easily