

ScreenClock

Thomas Igracki

COLLABORATORS

	TITLE : ScreenClock		
ACTION	NAME	DATE	SIGNATURE
WRITTEN BY	Thomas Igracki	July 20, 2024	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

1	ScreenClock	1
1.1	ScreenClock Documentation	1
1.2	ScreenClock/What should be in the archive?	1
1.3	ScreenClock/What is this program for?	1
1.4	ScreenClock/How to start	2
1.5	ScreenClock/Argument	2
1.6	ScreenClock/Argument	3
1.7	ScreenClock/Argument	4
1.8	ScreenClock/Argument	4
1.9	ScreenClock/Argument	4
1.10	ScreenClock/Argument	5
1.11	ScreenClock/Argument	5
1.12	ScreenClock/Argument	5
1.13	ScreenClock/Errormessages	5
1.14	ScreenClock/Programhistory	6
1.15	ScreenClock/How to contact me?	8

Chapter 1

ScreenClock

1.1 ScreenClock Documentation

```
ScreenClock v1.71 / by Thomas Igracki
-----/

A F D - C O P Y R I G H T

What should be in the archive?   The history of the program
What is it for?                 How to contact me?
How to start?                   Possible error messages

-----

This software is subject to the "Standard Amiga FD-Software Copyright Note"
It is GIFTWARE as defined in paragraph 4g. [...]
For more information please read "AFD-COPYRIGHT" (Version 1 or higher).
```

1.2 ScreenClock/What should be in the archive?

The following files should be in the archiv:

```
env/ScreenClock           --> example environment variable
help/deutsch/ScreenClock.guide --> german documentation, AmigaGuide-Format
help/deutsch/AFD-COPYRIGHT.de --> german COPYRIGHT-Note
help/english/ScreenClock.guide --> english documentation, AmigaGuide-Format
help/english/AFD-COPYRIGHT   --> english COPYRIGHT-Note
ScreenClock                --> the program for OS >= v38 (2.1)
ScreenClock.info            --> the wb-icon for ScreenClock
```

1.3 ScreenClock/What is this program for?

This program displays the date, time and optional the free memory in your current screen's titlebar (left to the depth-gadget) in the actual language.

The features are:

- configurable date and time format
- optional showing of the free memory
- in-/excluding screens to be used or not used
- adjustable update-rate in which the display should be updated
- using a notified environment variable, named SCREENCLOCK, which will be read at startup and on changing
- observing ENV:SYS/locale.prefs to get informed, if the language changed
- optional working only on public-screens, see OPS=OnlyPubScreens/T
- adjustable task priority, see Pri=TaskPriority/K/N
- supporting autoscroll screen, see AV=AlwaysVisible/T

To remove ScreenClock simple start it again.

1.4 ScreenClock/How to start

Start from a shell:

```
[Run] ScreenClock DF=DateFormat/K,MF=MemoryFormat/K,  
Screens/K,D=Delay/K/N,Mem=Memory/T,  
OPS=OnlyPubScreens/T,Pri=TaskPriority/K/N,  
AV=AlwaysVisible/T
```

Start from Workbench:

Just double-click the icon. There is no tooltype-support, use the env-var instead! This may change in future.

1.5 ScreenClock/Argument

DF=DateFormat/K

This option specifies the format in which the date & time should be displayed.

The available parameters are (see Locale.FormatDate()):

```
%a - abbreviated weekday name  
%A - weekday name  
%b - abbreviated month name  
%B - month name  
%c - same as "%a %b %d %H:%M:%S %Y"  
%C - same as "%a %b %e %T %Z %Y"  
%d - day number with leading 0s  
%D - same as "%m/%d/%y"  
%e - day number with leading spaces  
%h - abbreviated month name  
%H - hour using 24-hour style with leading 0s  
%I - hour using 12-hour style with leading 0s  
%j - julian date  
%m - month number with leading 0s  
%M - the number of minutes with leading 0s
```

```

%n - insert a linefeed
%p - AM or PM strings
%q - hour using 24-hour style
%Q - hour using 12-hour style
%r - same as "%I:%M:%S %p"
%R - same as "%H:%M"
%S - number of seconds with leadings 0s
%t - insert a tab character
%T - same as "%H:%M:%S"
%U - week number, taking Sunday as first day of week
%w - weekday number
%W - week number, taking Monday as first day of week
%x - same as "%m/%d/%y"
%X - same as "%H:%M:%S"
%y - year using two digits with leading 0s
%Y - year using four digits with leading 0s

```

Default: "%A %d-%h-%y %T".

The result is: Monday 09-Jan-95 18:22:57.

If you set this option to "" while ScreenClock is running, the default setting will be used again!

1.6 ScreenClock/Argument

MF=MemoryFormat/K

This option specifies the format of the memory display.

There are 3 parameters (%ld or %lD) supported:

- the 1. is for the free chip-memory in KB,
- the 2. is for the free fast-memory in KB and
- the 3. is for the total free memory in KB.

Default: " - C:%lD F:%lD".

The result is: " - C:1.737 F:3.538".

If you set this option to "" while ScreenClock is running, the default setting will be used again!

You should use a space as the first character, because the created string is appended to the created date/time string!

You could also append a space to the date/time string;-)

Tip:

If you like to change the order of the memory type, you have to place a <Position>\$ command between the % and the ld or lD chars!

<Position> is the number of the memory type, see above.

Example: MF = " Total: %3\$lD (FAST = %2\$lD, CHIP = %1\$lD) "

And If you only want to display the total free memory you have to do this:

MF = "%0.0ld%0.0ld Total: %lD"!

See also Locale/FormatString().

The difference between %ld and %lD, is that the second uses locale format.

1.7 ScreenClock/Argument

Screens/K

This option specifies the screens on which ScreenClock should appear or should NOT appear by an AmigaDOS pattern!

Because ScreenClock compares with the screen's defaulttitle, it displays the date/time/mem even if a program changed the used screen title!

If this option is not used ScreenClock uses all screens which have a titlebar.

If you set this option to "" while ScreenClock is running, the default setting (no matching) will be used again!

Tip2:

You should use a #? instead of a *, because the wild star has also some other meaning under DOS (i.e. *")!

Tip2:

If you want that some screens aren't used, than try this pattern:
~(<TitelName>|<TitelName>)

Example: SCREENS = "~(DosControl#?)"

Action : The 'DosControl'-Screen won't be used.

1.8 ScreenClock/Argument

D=Delay/N

This number specifies the update-rate in which ScreenClock updates the display.

Number of 1/50 seconds. Minimal value is 10, maximal 100.

Default 50.

1.9 ScreenClock/Argument

Mem=Memory/T

This toggle option specifies if the free memory should be appended to the date & time string.

ON : Memory = ON or Mem = ON

OFF: Memory = OFF or Mem = OFF

Default is OFF.

The "=" is optional!

1.10 ScreenClock/Argument

OPS=OnlyPubScreens/T

This is the option to specify, if only (non-private) public screens should be used.

ON : OnlyPubScreens = ON or OPS = ON

OFF: OnlyPubScreens = OFF or OPS = OFF

Default is OFF.

The "=" is optional!

1.11 ScreenClock/Argument

Pri=TaskPriority/K/N

This option specifies then priority of ScreenClock.

Only priorities between -3 and +3 will be accepted.

Default is 0.

1.12 ScreenClock/Argument

AV=AlwaysVisible/T

This option specifies if the date/time/mem should be written relative to visible right side of the screen (ON) or left to depth-gadget (OFF).

AlwaysVisible = ON or AV ON -> always visible!

AlwaysVisible = OFF or AV OFF -> always left to the depth-gadget

Default is ON!

The "=" is optional!

1.13 ScreenClock/Errormessages

Possible error messages during startup:

```
1 : Failed to create the msg-port.  
2 : Dos.AllocDosObject(Dos.rdArgs) failed.  
3 : Notify to ENV:ScreenClock failed.  
4 : Notify to ENV:SYS/locale.prefs failed.
```

If the env-var or the shell arguments couldn't be parsed an appropriate error message will be displayed.

1.14 ScreenClock/Programhistory

Release 1.71:

38.20 (30.04.95):

Chg: The Env-Var can contain multiple lines, they will be concated.

38.19 (26.04.95):

Chg: Scr.defaultTitle AND Scr.title have to be NIL, to display nothing.

[Wish by Rodney Hester, so he can use Klondike V1.8 ;-]

IF .defaultTitle = NIL and .title # NIL, then .title will be used for ←
matching.

Release 1.7:

38.18 (04.03.95):

Doc: Node What is it for? improved.

Doc: Node How to contact me? corrected.

Fix: If the new string is shorter than the old, the display wasn't cleared.

[Reported by J.Frede]

[I have used "<" instead of ">";-]

Chg: Under OS v38, I now use color 0 on 1.

That should be the last change;-)

If it doesn't, I probaly will add 2 new options (front-, backpen)
in the next version;-)

[Reported by T.Schwarz]

Release 1.6:

38.17 (01.03.95):

Chg: Error messages are displayed as numbers.

Doc: Possible error messages explained.

38.16 (26.02.95):

Fix: Pubscreens couldn't be recognized if OPS = ON. [reported by Hanno]

Release 1.5:

38.15 (16.02.95):

Chg: The bars layer will get locked only direct around Int.PrintIText().

Doc: Start from Workbench explained.

Doc: Icon added!

38.14 (15.02.95):

Chg: Under OS v38, background color is 2, foreground color is 1.

That should be the right combination!?

Fix: If an autoscroll-screen with leftedge = 0 is used, the x pos.
was calculated as if it was a normal screen.

38.13 (14.02.95):

New: If the layer and the pub-screen was locked at the end of the program,
they will be unlocked.

This could (!) occure, if ScreenClock gets breaked during the ←
calculating

of a new date/time/mem-string by an error.

This should avoid the rarely occurred 'hanger'.

38.12 (13.02.95):

New: Some NIL-checks added.

New: The actual screen will be compared with the screen which was actual
before calculating a new date/time/mem-string.

This should make the program a little more stable with non-public- ←
screens.

38.11 (12.02.95):

Chg: Under OS v38, the shadow-pen (instead of the shine-pen) will be used
as the background color.

38.10 (11.02.95):

New: Option 'AV=AlwaysVisible' -> date/time/mem always visible?

Default is ON!

38.9 (09.02.95):

New: The date/time/mem is always visible!

Usefull for oversized (autoscroll) screens!

Doc: Examples for the option Screens

Release 1.4:

38.8 (29.01.95):

Fix: Screens with a title but no titlebar won't be used anymore!

Chg: The screen will be written with `Intuition.PrintIText()`, so the rare 'color-changes' of the titlebar shouldn't appear anymore! Because this proc. sets the front- and backPen!

Chg: Therefore ScreenClock doesn't needs a special version for OS v39! Also it won't be check anymore if OS is \geq v38 (2.1)!

Fix: `FreeScreenDrawInfo()` forgotten;-()

Chg: It doesn't checks anymore before writing if a non-public screen is closed!

Release 1.3a:

38.7 (28.01.95):

Fix: Check, if the barLayer is allready locked.

If so then don't wait until its free!

Release 1.3:

38.6 (27.01.95):

New: 'OPS=OnlyPubScreens/T' -> use only public screens?

New: If the actual screen is public, it will be locked during writing, to prevent it of beeing closed!

If not, it will be checked if its not closed yet before `Gfx.Text()`.

Fix: 'Ugly' displays should be the past.

New: 'Pri=TaskPriority/K/N' -> Priority of the task. $-3 \leq \text{pri} \leq +3$

New: Notify on 'ENV:sys/locale.prefs'

38.5 (26.01.95):

Fix: Screen.barLayer is locked during the action.

Release 1.2:

38.4 (13.01.95):

New: The right pens (like the titlebar) should (!) be used now.

New: Two different versions for OS2.x (\geq v38) and O3.x (\geq v39) It will be checked during start.

Fix: `CloseLocale()` have been forgotten at the end;-()

Fix: `Locale.FormatDate()` appends one 0X too many on some formats (the abbreviated!), therefore the date could be one char too short.

Fix: If the notify fails, has been `Dos.EndNotify()` called though. Some cleaning ups.

Release 1.1:

38.3 (12.01.95):

Fix: The reloading of the parameters didn't acts like it should.

New: If MF = "" or DF = "" the defaults will be set again.

38.2 (11.01.95):

New: The env var will be reloaded on changes!

Chg: Option 'Memory' changed to a toggle option, s. docs

38.1 (09.01.95):

Chg: `Locale.FormatDate()` instead of `Dos.DateToStr()` and `Sprintf()` used. Therefore the version bumps to 38!

Chg: 'Seconds/S' isn't supported anymore.

New: Option 'DF=DateFormat/K' -> Format of the date/time

New: Option 'MF=MemoryFormat/K' -> Format of the memory

New: Environment variable (ScreenClock) for the parameters

Release 1.0:

37.3 (05.01.95):

New: Option 'Memory/S' -> show the memory too.

Chg: Some internal changes -> less time needed!?

37.2 (03.01.95):

New: Option 'Screen/K' - pattern for screens to use.

New: A msg-port added to quit if double started.

37.1 (02.01.95):

Beginning, because I realised that the clock is the only cause for KCX running;-)

Abbreviations:

New: Something new added.

Chg: Something has changed.

Fix: Some bugs removed.

Doc: Documentation changed/improved.

1.15 ScreenClock/How to contact me?

If you have suggestions, bug reports or any question you can reach me by the following addresses, e-mail preferred!

Z-Netz: T.Igracki@BAMP.berlinet.de

FIDO : Thomas_Igracki%2:2410/103.40

UseNet: lokai@cs.tu-berlin.de -or-

t.igracki@bamp.berlinet.de (preferred!)

Mail : Thomas Igracki (c/o Lind), Siegener Str. 34, Germany-13583 Berlin

If you want to send me some money for my work on ScreenClock, then contact me, and I'll give you my bank-account!

Have fun with my program!