MultiCX

Martin Berndt

COLLABORATORS

	TITLE : MultiCX		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY	Martin Berndt	January 18, 2023	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

MultiCX

1.1   MultiCX-Guide Main

```
               ---------------------------------------------------------------- ←

                    MultiCX 2.55 (24.6.96)

               The ultimate Multi-Function-Commodity
               ----------------------------------------------------------------

MultiCX  is the smallest Multi-Function-Commodity for the Amiga, thought
as  a  replacement  for  many  larger  and  sometimes  badly  programmed
programs.  It is a 100% pure commodity, which means that it does not use
interrupts and no special input handlers. Some Patches (SetFunction) are
installed in a very clean  way, so that they do not interfere with other
programs which use the same vectors.
As a result MultiCX can safely be disabled or removed at any time.

If you need a clean Commodity without bad hacks there's no alternative !



               Legal Stuff

               Who did it?

               Installation

                 Features

            Notes~and~Hints

            List of Patches

                 History

                  To~do

                 Credits
               ---------------------------------------------------------------- ←
```

```
                        !!! MultiCX is SHAREWARE !!!
--------------------------------------------------------------------------
```

1.2 Installation

```
--------------------------------------------------------------------------
                           MultiCX Installation
--------------------------------------------------------------------------
```

Here you can install MultiCX automatically. It will be detected which
OS you are using and wether you are installing MultiCX new or wether you
are just updating. In the second case you have to add the new tooltypes
or these functions will be disabled. For more information about new
tooltypes have a look at the history.

Click here to install.

1.3 Features

```
              ----------------------------------------------------------------------- ←

                                MultiCX Features
--------------------------------------------------------------------------


                                 Notification

                                 Localisation

                               Screen~Blanker

                            Moire~Screen Blanker

                              Mouse~Accelerator

                               Mouse~Blanker

                              Screen~Cycling

                                Mouse~Shift

                              Window~Cycling

                         SUN-alike~Window~Activation

                              HoldX~and~HoldY

                               Enter~ASCII

                                Map~Umlauts

                                 CapShift
```

NoCapsLock

Window~Close & Zoom

Window~Remember

CenterScreen

HotFlush

PopCLI

FrontPubScreen

System~Flags

Trackdisk~Parameters

Public~Screen~Flags

Internal~and~External~Preferences

Advanced~EditHook

Advanced ResetHandler

SetFunction~Patches

AssignWedge

NewLookMenus
OS 3.x only!

NewLookProps

WBExtender

TagScreens

LockPens
OS 3.x only!

FixOpenWB
OS 3.x only!

NoCloseWB

NoDisplayBeep

Drive Protection

LockPatch

Opaque Windows

Alert Timeout

```
                             OS 3.x only!

                               WBGauge

                         ShapeShifter Support

                              HandleCX
```

1.4 Notification

```
-----------------------------------------------------------------------
Notification
-----------------------------------------------------------------------
```

MultiCX recognizes any changes of the ToolTypes while running, so
there's no real need for a GUI.

1.5 Locale

```
-----------------------------------------------------------------------
Localisation
-----------------------------------------------------------------------
```

The standard language of MultiCX is english, but if the current locale
language is german, then all MultiCX text outputs are in german, too.

```
-----------------------------------------------------------------------
```

ToolTypes:

FORCE_GERMAN   force usage of german language, may be helpful
                         for WB 2.0 users

1.6 Screen Blanker

```
          --------------------------------------------------------------------------- ←
```

```
Screen Blanker
-----------------------------------------------------------------------
```

MultiCX includes a simple but compatible screen blanker. It always uses
the display mode which fits best to the actual front screen, while
taking the lowest resolution with only one plane.

AVOIDTASK and AVOIDSCREEN fully support AmigaDOS pattern matching and
work case insensitive.
If LIKEWB and SCRMODE are set, SCRMODE is only used if WB is not
available for some reason. But this should never happen...

See also:

                    Moire Blanker
          --- ←

ToolTypes:

SCRBLANK=n   sets number of seconds until screen blanks,
                          0 means OFF
HOTBLANK=Qual&Key   sets hotkey for immediate blanking
CDNOBLANK   do not blank screen if Carrier is detected
                          (currently only supports internal serial port)
CDUNBLANK   unblank screen if Carrier is detected
                          (currently only supports internal serial port)
IGNOREKEY   ignore unblanking keypress
IGNOREMOUSE   do not unblank on mouse movement
IGNOREDISK   do not unblank on disk insertation
AVOIDTASK=Pattern   do not blank screen if OwnerTask of active
                          screen matches pattern
AVOIDSCREEN=Pattern   do not blank screen if title of active screen
                          matches pattern
AVOIDWINDOW=Pattern   do not blank screen if title of active window
                          matches pattern
LIKEWB   forces cloning the WB's display mode
SCRMODE=ModeName   selects a display mode by name

1.7 Moire Blanker

          --- ←

Moire Blanker

MultiCX has a really nice Screen Blanker, too! It steals no processor
time from other tasks, and if it couldn't draw a line for longer than 10
seconds it falls back to a simple black screen.   There are some
parameters to play with...

See also:
          Screen Blanker
          --- ←

ToolTypes:

MOIRE   selects Moire blanker
LINES=n   number of lines, default is 2
TRAIL=n   length of trail, default is 64
XSPEED=n   x offset for next line, default is 4
YSPEED=n   y offset for next line, default is 6
CSPEED=n   color cycling delay, default is 16
COLOR=n   drawing color, range is 1-4095
                          0 means Random, -1 means Color Cycling

1.8 Mouse Accelerator

```
-------------------------------------------------------------------------
Mouse Accelerator
-------------------------------------------------------------------------
```

MultiCX lets you set Acceleration and Theshold (minimum movement to
activate Acceleration) for smooth mouse handling.

SWITCH OFF ALL ALIEN MOUSE ACCELERATORS BEFORE USING THESE OPTIONS!
(Input Prefs "Acceleration" etc.)

```
-------------------------------------------------------------------------
```

ToolTypes:

```
ACCELERATION=n          sets Acceleration factor, 0 means OFF
THRESHOLD=n             sets Threshold value, 0 means no Threshold
```

1.9 Mouse Blanker

```
-------------------------------------------------------------------------
Mouse Blanker
-------------------------------------------------------------------------
```

MultiCX blanks the mouse pointer on keypress and/or after approx. 30
seconds when no mouse movement has occured.

```
-------------------------------------------------------------------------
```

ToolTypes:

```
KEYBLANK                activates MouseBlanking on keypress
TIMEBLANK               activates MouseBlanking after timeout
```

1.10 Screen Cycling

```
-------------------------------------------------------------------------
Screen Cycling
-------------------------------------------------------------------------
```

MultiCX allows you to cycle screens using either MiddleMouseButton or
BothMouseButtons, this is equivalent to LCOMMAND M. Additionally a
hotkey for backward cycling may be defined.

If MOUSESHIFT and SCRCYCLE are both set to MMB, then ScreenCycling will
occur on a Double-MMB-Click.

```
-------------------------------------------------------------------------
```

ToolTypes:

```
SCRCYCLE=MMB|BMB         sets Screen Cycling to MMB or BMB
BACKCYCLE=Qual&Key       sets Qualifier and Key for BackCycle,
                         none means OFF
```

1.11 Mouse Shift

```
-------------------------------------------------------------------------
Mouse Shift
-------------------------------------------------------------------------
```

MultiCX lets you use the RightMouseButton or MiddleMouseButton as a
Shift-Key for extended selection.

And this is how it works with RightMouseButton:

1. Press LeftButton to select first icon and hold it.
2. Press RightButton and hold it.
3. Release LeftButton and keep RightButton pressed.
4. Now select some more icons with LeftButton.
5. To deselect an icon, click on it with LeftButton and keep it
   pressed, then release RightButton and press it again.

Sounds much more complicated than it is...

```
-------------------------------------------------------------------------
```

ToolTypes:

```
MOUSESHIFT=RMB|MMB       sets MouseShift to RMB or MMB
```

1.12 Window Cycling

```
-------------------------------------------------------------------------
Window Cycling
-------------------------------------------------------------------------
```

MultiCX lets you put a window to front/back by a configurable number of
LeftButton clicks. Qualifiers can be defined for both functions.
Additionally there are two hotkeys available for TopWindowToBack and
BottomWindowToTop. But only windows with a Depth Gadget are affected by
Window Cycling.

```
-------------------------------------------------------------------------
```

ToolTypes:

```
WINCYCLE=n               sets number of mouse clicks for WindowCycle,
                         0 means OFF
WINFRONTQUAL=Qual        sets Qualifier for WindowToFront
WINBACKQUAL=Qual         sets Qualifier for WindowToBack
FRONT2BACK=Qual&Key      sets hotkey for TopWindowToBack
BACK2FRONT=Qual&Key      sets hotkey for BottomWindowToTop
```

1.13   SUN-alike Window Activation

```
--------------------------------------------------------------------------
SUN-alike Window Activation
--------------------------------------------------------------------------
```

MultiCX has three different options to activate windows automatically.
All of them activate the window under the mouse pointer, SunKey does it
on every keypress, SunMouse does it after mouse movement, and SunRMB
does it   after pressing the right mouse button. So SunKey and SunMouse
together seem to be rather useless. Windows with active Gadgets (like
FileRequesters etc) will never be deactivated by one of these functions.
Additionally specific windows may be excluded from deactivation using
the AVOIDSUN ToolType.

```
--------------------------------------------------------------------------
```

ToolTypes:

```
SUNKEY                    activates SunKey
SUNMOUSE                  activates SunMouse
SUNRMB                    activates SunRMB
AVOIDSUN=Pattern          do not deactivate active window if title matches
                          this pattern
```

1.14   HoldX and HoldY

```
--------------------------------------------------------------------------
HoldX and HoldY
--------------------------------------------------------------------------
```

MultiCX allows you to lock a specific mouse dimension while holding a
defined Qualifier. If both Qualifiers are set to the same it locks all
mouse movements. So you are responsible for useful settings...

```
--------------------------------------------------------------------------
```

ToolTypes:

```
HOLDXQUAL=Qual            sets Qualifier for HoldX, none means OFF
HOLDYQUAL=Qual            sets Qualifier for HoldY, none means OFF
```

1.15   Enter ASCII

```
--------------------------------------------------------------------------
Enter ASCII
--------------------------------------------------------------------------
```

MultiCX allows you to enter ASCII codes directly by pressing an ALT key
and the numbers in the numeric block, for example: <ALT> 65 = A.
Maximum 3 digits, value must not be greater than 255.

ToolTypes:

ENTERASCII=LALT|RALT   activates EnterASCII using LALT or RALT

1.16 Map Umlauts

Map Umlauts

This option might be of use for german users or other people writing
german texts.   It will convert the german umlauts into the normal
character pendants.

ToolTypes:

MAPUMLAUTS   activates MapUmlauts

1.17 CapShift

CapShift

This option changes the way CapsLock works.   Just try activating
CapsLock, and then press some shifted letters to get an idea of it.
Hotkeys etc.   are no longer affected by CapsLock. CapShift is ignored
if NoCapsLock is active.

ToolTypes:

CAPSHIFT   activates CapShift

1.18 NoCapsLock

NoCapsLock

... simply switches off CAPSLOCK completely.

ToolTypes:

```
NOCAPSLOCK                activates NoCapsLock
```

1.19 CloseZoom

```
--------------------------------------------------------------------------
Window Close & Zoom
--------------------------------------------------------------------------
```

MultiCX allows you to close/zoom windows using pre-defined Qualifiers
and Keys.

```
--------------------------------------------------------------------------


ToolTypes:

WINCLOSE=Qual&Key         sets Qualifier and Key for CloseWindow,
                          none means OFF
WINZOOM=Qual&Key          sets Qualifier and Key for ZoomWindow,
                          none means OFF
```

1.20 Window Remember

```
--------------------------------------------------------------------------
Window Remember
--------------------------------------------------------------------------
```

MultiCX remembers the last active window on every screen, and the next
time you go to that screen, this window will be re-activated
automatically.

```
--------------------------------------------------------------------------


ToolTypes:

WINREMEMBER               activates WindowRemember
```

1.21 CenterScreen

```
--------------------------------------------------------------------------
CenterScreen
--------------------------------------------------------------------------
```

The active screen is centered when this hotkey is pressed. Optionally
the frontmost Screen is centered automatically as soon as it becomes
active.

```
--------------------------------------------------------------------------


ToolTypes:
```

```
CENTERSCR=Qual&Key      sets Qualifier and Key for CenterScreen,
                        none means OFF
AUTOCENTER              activates AutoCenterScreen
```

1.22 HotFlush

```
--------------------------------------------------------------------------
HotFlush
--------------------------------------------------------------------------
```

MultiCX frees all unneeded memory when pressing this hotkey, just like
"Avail flush" does.

```
--------------------------------------------------------------------------
```

ToolTypes:

```
HOTFLUSH=Qual&Key       sets Qualifier and Key for HotFlush,
                        none means OFF
```

1.23 PopCLI

```
--------------------------------------------------------------------------
PopCLI
--------------------------------------------------------------------------
```

MultiCX spawns a UserShell using the given command string when pressing
the PopCLI key.

```
--------------------------------------------------------------------------
```

ToolTypes:

```
POPCLI=Qual&Key         sets Qualifier & Key for PopCLI, none means OFF
POPCLICMD=Command       sets command string for PopCLI, none means OFF
POPCLISTACK=n           sets stacksize for PopCLI (Default: 4096)
```

1.24 FrontPubScreen

```
--------------------------------------------------------------------------
FrontPubScreen
--------------------------------------------------------------------------
```

If this option is activated the FrontScreen automatically will become
the actual DefaultPubScreen, as long as it is public and not private.

```
--------------------------------------------------------------------------
```

ToolTypes:

FRONTPUBSCR   activates FrontPubScreen

1.25 System Flags

                      --- ←

System Flags

MultiCX lets you set/change some of the internal AmigaOS flags. These
may be set, unset or left unchanged, where a parameter of 0 means
deactivate, 1 or any value >0 means activate, and putting the ToolType
in brackets (the same as removing it) means no change. Old values are
NOT restored when quitting/disabling MultiCX, but
                Notification
                 may be
used at any time.

ToolTypes:

BLACKBORDER=n   changes BlackBorder flag, ECS Denise needed
NOCLICK=n   changes NoClick flag for all drives,
                         may not work with very old drives
WILDSTAR=n   changes flag for extended WildCarding,
                         if ON "*" may be used instead of "#?"
SNDFILTER=n   switch Sound filter ON/OFF

1.26 Trackdisk Parameters

Trackdisk Parameters

This option is used to set some parameters of trackdisk.device. If used
with care these settings could make your drives faster and less noisy.
Old values are NOT restored when quitting/disabling MultiCX, but default
values are set when disabling these Tooltypes.

ONLY USE THEM IF YOU KNOW EXACTLY WHAT YOU ARE DOING!

ToolTypes:

TDRETRY=n   change TDU_RETRYCNT (Default is 10)
TDSTEP=n   change TDU_STEPDELAY (Default is 3000)
TDSETTLE=n   change TDU_SETTLEDELAY (Default is 15000)
TDCALIBRATE=n   change TDU_CALIBRATEDELAY (Default is 4000)

1.27   Public Screen Flags

```
                    ------------------------------------------------------------------- ←


Public Screen Flags
-------------------------------------------------------------------------------
```

MultiCX also lets you set/change the global Public Screen flags. These
may be locked, so that other tasks cannot change them. The values are
the same as for the

System Flags

.

```
-------------------------------------------------------------------------------


ToolTypes:

POPPUBSCR=n                changes PopPubScreen flag
SHANGHAI=n                 changes Shanghai flag
LOCKPUBFLAGS               locks Public Screen flags set by MultiCX
```

1.28   Internal and External Preferences

```
-------------------------------------------------------------------------------
Internal and External Preferences
-------------------------------------------------------------------------------
```

Normally MultiCX opens a WBInfo Requester on CX_POPUP (OS 3.x only!),
but this may be replaced by an external program like MUI-MCXPrefs by
Jürgen Kempkes.

Thanks for the great work, Jürgen!

```
-------------------------------------------------------------------------------


ToolTypes:

CX_POPUP=Qual&Key      sets Qualifier and Key for WBInfo or ext. Prefs
IGNORE_CLASS           lets all other Qual&Key definitions ignore their
                       ix_Class, normally only RAWKEY is accepted
EXTPREFS=Command       sets Command to execute for external Preferences
```

1.29   Advanced EditHook

```
-------------------------------------------------------------------------------
Advanced EditHook
-------------------------------------------------------------------------------
```

MultiCX contains a comfortable extension for all system StringGadgets.
It is completely inactive as long as the CONTROL qualifier is pressed.

The following keys can be used:

```
        RCOMMAND Q                 undo                                (*)
        RCOMMAND X                 clear                               (*)
        RCOMMAND C                 copy to Clipboard
        RCOMMAND V                 paste from Clipboard (Insert)
        RCOMMAND SHIFT V           paste from Clipboard (Clear)
        RCOMMAND G                 convert contents to upper case
        RCOMMAND H                 convert contents to lower case
        RCOMMAND key               leave Gadget and execute Menu option  ($^1$)
        LCOMMAND (SHIFT) key       execute original RCommand shortcut
        SHIFT CURSOR LEFT          jump to start of line               (*)
        SHIFT CURSOR RIGHT         jump to end of line                 (*)
        SHIFT BACKSPACE            delete to start of line             (*)
        SHIFT DEL                  delete to end of line               (*)
        ALT CURSOR UP              previous Gadget (SHIFT TAB)
        ALT CURSOR DOWN            next Gadget (TAB)
        ALT CURSOR LEFT            jump word left
        ALT CURSOR RIGHT           jump word right
        ALT BACKSPACE              delete word left
        ALT DEL                    delete word right
        ESC                        leave Gadget                        ($^2$)


        (*) function provided by OS
```

```
ToolTypes:

EDITHOOK                activates advanced EditHook
CLIPUNIT=Unit           select Clipboard unit for Copy/Paste (0-255),
                        Default: 0
NOCMDKEY                switch off "execute Menu" option ($^1$)
NOESCKEY                switch off "leave Gadget" option ($^2$)
```

1.30 Advanced ResetHandler

```
--------------------------------------------------------------------------
Advanced ResetHandler
--------------------------------------------------------------------------
```

If this option is enabled NOTHING will survive a Reset (Software Reset
or Keyboard Reset via LCOMMAND-RCOMMAND-CONTROL) in your computer's
memory. This will kill all kinds of virusses and things like the RAD:
device, which can be very useful if you just use it to decrunch disks.

Please note that the Keyboard Reset is not affected by PATCH_DISABLE and
that KBD_RESETHANDLERS will not work on very old machines (A1000 and
early A500).

```
--------------------------------------------------------------------------


ToolTypes:

RESETHANDLER            activates advanced ResetHandler
```

1.31   SetFunction Patches

SetFunction Patches

Using this ToolType it is possible to select whether all patches are
disabled when disabling the Commodity. Patches are always disabled when
MultiCX is removed.

The following MultiCX functions are affected by this ToolType:

        LOCKPUBFLAGS   ASSIGNWEDGE   NEWLOOKMENUS
        NEWLOOKPROPS   WBABOUT   WBTITLE
        SA_PENS   SA_AUTOSCROLL   SA_FONT
        LOCKPENS   FIXOPENWB   NOCLOSEWB
        NODISPLAYBEEP   NOFORMAT   NOBOOTWRITE
        LOCKPATCH   SHAPEFREEZER   ALERTTIME
        WBGAUGE   EDITHOOK

        BLACKBORDER (OS 2.x only)
        RESETHANDLER (SoftReset only)

ToolTypes:

PATCH_DISABLE   if set, all Patches will be disabled together
                           with MultiCX

1.32   AssignWedge

AssignWedge

This ToolType helps you handling "Please insert volume <xyz> in any
drive" requesters. If the system tries to open such a requester, it
will be replaced by a new one with three more gadgets:

Assign...   opens a DirectoryRequester asking for a path
                           to assign the requested volume to

Mount   tries to mount the volume

Deny   denies the request and remembers the Process
                           which tried to access that volume, so that it
                           will not ask you again as long as AssignWedge
                           is active

ToolTypes:

```
ASSIGNWEDGE             activates AssignWedge
AUTOMOUNT=Pattern       defines a pattern for volumes which will be
                        mounted automatically when accessed for the
                        first time
```

1.33 NewLookMenus

```
-------------------------------------------------------------------------
NewLookMenus                                              OS 3.x only!
-------------------------------------------------------------------------
```

This patch forces NewLook Menus on all PublicScreens.

```
-------------------------------------------------------------------------
```

ToolTypes:

```
NEWLOOKMENUS            activates NewLookMenus
```

1.34 NewLookProps

```
-------------------------------------------------------------------------
NewLookProps
-------------------------------------------------------------------------
```

This patch gives all PropGadgets (Sliders etc.) the OS 2.0+ look.
(This will work with GadTools Gadgets only!)

```
-------------------------------------------------------------------------
```

ToolTypes:

```
NEWLOOKPROPS            activates NewLookProps
```

1.35 WBExtender

```
              ------------------------------------------------------------------- ←
WBExtender
-------------------------------------------------------------------------
```

These options replace your WB Titlebar and the "About..." Requester by
more useful information about your system.

This is how the Titlebar will look:

```
AmigaOS~x.x~xxx~ xxxxxxx~(xx%)~Chip~xxxxxxx~(xx%)~Fast~~T:xx~L:xx~S:xx *
~~~~~~~~|~~~| ~~ |~~~~~~~~~~~~~~~~~~|~~~~~~~~~~~~~~~~~~~ ~|~~~~|~~~~|  |
~~~~~~~~|~~~|~~ ~+~free~ChipMem~~~~~+~free~FastMem~~~~~ ~~|~~~~|~~~~|  |
~~~~~~~~|~~~|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ ~~~~~~~~~~~~~~~~ ~|~~~~|~~~~|  |
```

```
~~~~~~~~|~~~+----~ChipSet~used~(OCS,~ECS, AGA or CGX)~  ~~|~~~~|~~~~|   |
~~~~~~~~|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ ~~~~~~|~~~~|~~~~|   |
~~~~~~~~+--------~OS~Version~~~~~~~~~~~~~~~~~~~~~~~ ~ ~~~~|~~~~|~~~~|   |
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ ~|~~~~|~~~~|   |
~~~~~~~~~~~~~~~~~~~Number~of~Tasks~----------------------+~~~~|~~~~|   |
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~|~~~~|   |
~~~~~~~~~~~~~~~~~~~Number~of~Libraries~----------------------+~~~~|   |
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~|   |
~~~~~~~~~~~~~~~~~~~Number~of~Screens~------------------------------+   |
                                                                     |
                 Freezed ShapeShifter ------------------------------+
```

Attention!
The~WB~only~refreshes~display~when~amount~of~free~memory~has~changed!

And~here's~your~new~Workbench/About...


```
~~~~~~~~~~~~~~~~~~~~~~~+----------------------------------------+
~OS~Version~-------->~~|~Kickstart~40.70,~Workbench~40.42~~~~~~~~~~~~~|
~~~~~~~~~~~~~~~~~~~~~~~~|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~|
~Copyright~Message~->~~|~Copyright~©~1985-1994~Commodore-Amiga,~Inc.~~|
~~~~~~~~~~~~~~~~~~~~~~~~|~All~Rights~Reserved.~~~~~~~~~~~~~~~~~~~~~~~~~~|
~~~~~~~~~~~~~~~~~~~~~~~~|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~|
~CPU/FPU~type~------>~~|~CPU:~68030,~FPU:~68882~~~~~~~~~~~~~~~~~~~~~~~~|
~Cache~Status~------>~~|~InstCache~ON~(Burst),~DataCache~ON~(Burst)~~~|
~~~~~~~~~~~~~~~~~~~~~~~~|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~|
~Memory~Status~----->~~|~Memory~used:~21% of 22.536.192~Bytes~~~~~~~~~|
~~~~~~~~~~~~~~~~~~~~~~~~|~Largest~free~block:~11.061.448~Bytes Fast~~~~|
~~~~~~~~~~~~~~~~~~~~~~~~+----------------------------------------+
~Gadgets~----------->~~|~~~OK~~~~~~~~~~~~~~Reboot            Flush~|
~~~~~~~~~~~~~~~~~~~~~~~~+----------------------------------------+
```

```
~~~~~~~~~~~OK~~~~~:~just~leave~Requester~as~before
~~~~~~~~~~~Flush~~:~flush~all~inactive~libs,~fonts~etc.
~~~~~~~~~~~Reboot~:~reboots~system,~opens~confirmation~Requester~first
```

```
~~~~~~~~~~~~~~~~~~~~~~~+--------------------------------+
~~~~~~~~~~~~~~~~~~~~~~~|~~~~~~~~---~System~Reboot~---~~~~~~~~~|
~~~~~~~~~~~~~~~~~~~~~~~|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~|
~~~~~~~~~~~~~~~~~~~~~~~|~Wait~for~disk~activity~to~finish.~~|
~~~~~~~~~~~~~~~~~~~~~~~+--------------------------------+
~~~~~~~~~~~~~~~~~~~~~~~|~~~OK~               Cancel~|
~~~~~~~~~~~~~~~~~~~~~~~+--------------------------------+
```

Please read more about Patches under "
              Notes and Hints
              "!

ToolTypes:

WBABOUT~~~~~~~ ~~~~~~~~enables new WB About
WBTITLE~~~~~ ~~~~~~~~~~enables new WB Titlebar
CLOCK   adds a digital clock to the TitleBar, which will
                     be updated regulary
12HRS   12hrs clock display

```
DATE                       adds a date display to the TitleBar
COMPACT                    enables a more compact TitleBar (for people with
                           very big fonts or a very narrow WB screen)
```

1.36 TagScreens

```
--------------------------------------------------------------------------
TagScreens
--------------------------------------------------------------------------
```

Do you remember this old goodie? ;-)

These functions only affect screens which do not set these parameters
themselves, so this should work perfectly together with other TagItem
promoters like MagicCX's TagScreens. Additionally all screens with
supplied TagLists are not changed unless HARDPATCH is set.

```
--------------------------------------------------------------------------
```

ToolTypes:

```
HARDPATCH                  if set, NewScreens with TagLists are also
                           affected by the patch
SA_PENS                    set DRIPens for ugly looking old programs
SA_AUTOSCROLL              enable AutoScrolling
SA_FONT                    use Topaz-8 as default font for old programs
```

1.37 LockPens

```
--------------------------------------------------------------------------
LockPens                                                      OS 3.x only!
--------------------------------------------------------------------------
```

This option is very useful if you use Workbench with many colors. It
locks pens 4-7 and sets the colors according to the actual Palette
Preferences.

```
--------------------------------------------------------------------------
```

ToolTypes:

```
LOCKPENS                   enable LockPens
```

1.38 FixOpenWB

```
--------------------------------------------------------------------------
FixOpenWB                                                     OS 3.x only!
--------------------------------------------------------------------------
```

AmigaOS 3.x has a severe bug when re-opening the Workbench screen,

depending on the task priority of the current task the system will hang
forever. This option is a workaround for the bug.

ToolTypes:

FIXOPENWB   enable FixOpenWB

1.39 NoCloseWB

NoCloseWB

If this option is set, only the IPrefs task is allowed to close your
Workbench screen. The tasks name MUST be "« IPrefs »", which should be
the case since Workbench 2.1.   Otherwise the Workbench could not be
closed by any task.

ToolTypes:

NOCLOSEWB   enable NoCloseWB

1.40 NoDisplayBeep

NoDisplayBeep

This option simply disables Intuition's DisplayBeep() function, thus no
application will flash the display anymore.

ToolTypes:

NODISPLAYBEEP   enable NoDisplayBeep

1.41 Drive Protection

Drive Protection

Using the NOFORMAT option you may Format-protect a specific device, but
remember that writing of tracks is still possible (Format ... QUICK).

NOBOOTWRITE inhibits writing the first 2 blocks of a specific device, so
virusses or any other programs cannot write a BootBlock any longer,
which would otherwise destroy the RDB (Rigid Disk Block) of a harddisk.

If IOALERT is enabled any violation of the above options will cause an
Alert giving you the chance to ignore (LBUTTON) or cancel (RBUTTON) the
operation. If this option is disabled all offending operations are
cancelled.

    DeviceName is CASE-DEPENDENT and the driver must already be loaded
                        when starting MultiCX!

ToolTypes:

NOFORMAT=DeviceName   enable NoFormat for DeviceName
NOBOOTWRITE=DeviceName   enable NoBootWrite for DeviceName
IOALERT   enable IOAlert

1.42 LockPatch

LockPatch

This fixes a small OS-bug in dos.library's Lock function. Without this
patch some programs will not work properly with muFS etc.

ToolTypes:

LOCKPATCH   enable LockPatch

1.43 ShapeShifter Support

ShapeShifter Support

If SHAPEFREEZER is enabled, MultiCX will freeze ShapeShifter when it's
screen is not in front. This will prevent GfxBoard displays from being
trashed by the Mac display.

SHAPECLICKER allows you to use RMB to create a DoubleClick on the Mac.

SHAPESTICK will emulate a Joystick on the Mac side by translating your
Joystick movements to keypresses. Default is SPACE for Fire and CURSOR
keys for the four directions. Diagonal movements are represented by the
corresponding two keypresses. As an example RETURN for Fire and NUMPAD
4,5,6,8 would be correct for F/A-18 and A10-Attack. All Qualifiers

except NUMPAD are ignored. Please note that this option will only
affect ShapeShifter, so it is compatible to all other programs running
on the Amiga side.

Just in case you don't know what the hell I'm talking about...
ShapeShifter is the incredible Macintosh emulator by Christian Bauer.

IMPORTANT NOTES:

- The name of ShapeShifter's main task must be "ShapeShifter", so do not
  rename the program! Newer versions of ShapeShifter (since 3.2) take
  care of this automatically.

- Do NOT use SHAPESTICK if you have anything other connected to your
  Joystick port (Gameport 1) than a digital Joystick!

- SHAPESTICK currently only supports ShapeShifter running on it's own
  screen, it is simply ignored if you run ShapeShifter in a window.

ToolTypes:

SHAPEFREEZER   enable ShapeFreezer
SHAPECLICKER   enable ShapeClicker
SHAPESTICK   enable ShapeStick
S_FIRE=Key   set Key representing the Joystick's fire button
S_RIGHT=Key   set Keys representing Joystick directions
S_LEFT=Key
S_UP=Key
S_DOWN=Key

1.44 Opaque Windows

Opaque Window Movement and Sizing

These options enable you to move/size windows in full, and not only an
ugly frame. But this should not be used on slow machines! If OPAQQUAL
is not set and any Qualifier is pressed while moving/sizing a window
MultiCX will use the old OS routines.

ToolTypes:

OPAQMOVE   enables Opaque Movement
OPAQSIZE   enables Opaque Sizing
NOSMART   use OS routines for SmartRefresh windows
NOSIMPLE   use OS routines for SimpleRefresh windows
WBONLY   use Opaque functions on WB screen only
OPAQLIMIT=Pixels   limits WindowSize for Opaque functions
                          0 means "No Limit"

```
OPAQQUAL=Qual             set Qualifier for Opaque functions
```

1.45   Alert Timeout

```
--------------------------------------------------------------------------
Alert Timeout                                               OS 3.x only!
--------------------------------------------------------------------------


This option allows you to set a timeout (in 1/50 seconds) for all system
alerts.   If  the specified period of time has expired the alert will be
cancelled, just like you would have pressed RBUTTON.


--------------------------------------------------------------------------


ToolTypes:

ALERTTIME=ticks           enable and set Alert Timeout in 1/50 seconds,
                          0 means "No Timeout"
GURUTIME=ticks            set Timeout for Guru messages (Default: 540)
```

1.46   WBGauge

```
--------------------------------------------------------------------------
WBGauge
--------------------------------------------------------------------------


Perhaps you know these gauges from good old OS 1.x times...

If  activated  these  gauges  show you how much the device is filled up,
just like the percent figure in the windows titlebar.

There are 4 different looks available:


            Type 1:   OS 2.x Proportional Gadget
            Type 2:   OS 3.x Proportional Gadget
            Type 3:   Plain Raised
            Type 4:   3D Raised

Just try them all to find out what you like most.

--------------------------------------------------------------------------


ToolTypes:

WBGAUGE=type              enable WBGauge and select gauge type (1-4),
                          0 means OFF
```

1.47   Notes and Hints

-- ←

                              Notes and Hints

- MultiCX must be started from WB, CLI/Shell is not supported.

- MultiCX is 100% compatible to Commodore's specifications, so don't
  complain if some bad-behaving software does not work with it.
  For example: Some bad filesystems do not support Notification, some
  bad gfx-board drivers do not support MouseBlanking etc...

- Not all patch programs are as clean as MultiCX (in reality most are
  really bad hacks!), so you should pay attention to the following
  simple rules:

  1. All lowlevel patches (like CopyMemQuicker, RTPatch etc.) should be
     started between SetPatch and LoadWB! Do not use the User-Startup
     for such programs. This method is preferable for most patches.

  2. Application patches (like ARQ) should have a high start priority if
     started in WBStartup. Simply set a ToolType "STARTPRI=nnn" and use
     a relative high value like 100 to make sure that these tools are
     started before MultiCX. Valid values range is -127 to 127.

  3. Do not try to remove bad patches, not even if they have a option to
     do that! It's simply not possible to do that in a clean way without
     MultiCX's advanced interfacing routines. You have been warned...

- Some bad programs pass invalid parameters to OS functions, for example
  some set WFLG_NW_EXTENDED in the NewWindow structure and do not supply
  a valid TagList in enw_Extension. MultiCX tries to check parameters in
  order to avoid problems when possible, but this will not always work.
  Remember: Things like this are not MultiCX's fault!

- MultiCX's Screen Blanker uses BestModeID to find the best display
  mode.   Because this is impossible under AmigaOS 2.x, MultiCX uses a
  special masking algorythm to find the display mode. But this relies on
  the fact, that a DisplayID with all ModeKeys set to 0 exists.
  Anyway you should use AmigaOS 3.x for best results.

- BlackBorder is not fully supported by AmigaOS 2.x, but should work.

- Some very old drives do not like NoClick, so switch it off at once if
  your drive makes funny noises...

- If you like to toggle some of MultiCX's features using hotkeys, you
  should try ToolManager 2.1 (by Stefan Becker) together with DoIcon (by
  Lars Eilebrecht).

- MultiCX may be enabled, disabled or removed from within scripts by
  using
                  HandleCX
                   (included in this archive). Should always be done when
  starting nasty games...

– External Preferences programs must not use more than 4096 byte stack,
  and should use ReadArgs to get needed arguments. The program is
  responsible for things like protecting itself against being started
  twice, popping it's screen to front etc.

  In order to get the path and name of MultiCX's active icon file a
  Public Semaphore has been implemented. Programs can use FindSemaphore
  to get the base of the following structure:

```
struct MCXSemaphore
{
      struct  SignalSemaphore mcx_Sem;
      BPTR    mcx_Lock;                       /* Copy of my wa_Lock */
      CHAR    *mcx_Name;                      /* Ptr to Icon Filename */
      WORD    mcx_Version;                    /* MultiCX Version */
      WORD    mcx_Revision;                   /* MultiCX Revision */
}
```

  The name of the Semaphore is "MultiCX Path".
  Don't forget to protect all accesses by a Forbid/Permit pair, because
  the Semaphore will be removed if MultiCX ends.

– NEVER try to remove/disable ARQ or other programs that patch the
  EasyRequestArgs function. Most often these bad programs will trash
  the vector, resulting in "Please insert volume NIL: in any drive"
  requesters.

– Do NOT use ReqChange, because every version has serious bugs and
  trashes several OS functions! Simply use RTPatch instead.

– Do NOT use bad hacks like SysIHack, ToolsDaemon, ExecPatch etc.

– Some programs (DOpus5 etc.) call Intuition functions while having the
  IntuiBase locked. So if you encounter any deadlock problems it's
  definitely not MultiCX's fault!

– Some bad KBD_RESETHANDLERs do not preserve registers and do not return
  NULL when finished. This is the case with RebootOff from the Enforcer
  package, so do not complain if it doesn't work correctly!

– Things like Enforcer are only thought for debugging purposes and
  should not be used on every startup!

– Some bad so-called viruskillers do not know the difference between a
  virus and an application, and so report that the DoIO vector has been
  corrupted and must be fixed. If possible you should CANCEL this
  operation!

– Everybody should use SwazInfo by David Swazbrook...   ;-)

1.48 Author

```
------------------------------------------------------------------------
                                Author
------------------------------------------------------------------------
```

```
                        Martin Berndt

                     Fr.-Alfred-Str. 115
                       47226 Duisburg
                          Germany


          E-Mail Germany: m_berndt@wanderer.dssd.sub.org
      E-Mail International: m_berndt@wanderer.gun.de


        1. Support BBS: WANDERER +49-211-9215563
                                 +49-211-9215517
                    Login: MBS

     Use 'download <number>' to get the archive you want


        2. Support BBS: KSB      +49-2151-974740
                                 +49-2151-974758
                                 +49-2151-974923
                                 +49-2151-974961

                    Login: GAST

              Online-Menu: Support-Area


      MultiCX was developed using DevPac v3.14 ©1994 by HiSoft
```

1.49 History

```
             -------------------------------------------------------------------------- ←

                            History
--------------------------------------------------------------------------

1.00 - 1.76      Ancient History

2.0ß (25.6.95)   INTERNAL BETA

                 - renamed public semaphore to "MultiCX Path"
                 - overall code improvements
                 - implemented SetFunction interfacing code
                 - implemented
                 EDITHOOK
                 2.0ß (27.6.95)  INTERNAL BETA

                 - completed SetFunction interfacing code
                 - implemented
                 PATCH_DISABLE
```

```
                        ToolType
                        - improved
                        AUTOCENTER
                                            -
                        BLACKBORDER
                         uses a Patch now with OS 2.x
                        -
                        EDITHOOK
                        's Clipboard Paste now inserts new text
                          instead of replacing the old text
                        - implemented
                        TagScreens
                         function with some ToolTypes:
                          HARDPATCH, SA_PENS, SA_AUTOSCROLL and SA_FONT


2.0ß (28.6.95)   INTERNAL BETA

                        - fixed some bugs
                        -
                        LOCKPUBFLAGS
                         is a Patch now and only locks the Flags
                          which are changed by MultiCX
                        - implemented
                        FORCENEWLOOK
                        2.0ß (30.6.95)   INTERNAL BETA

                        - improved
                        FORCENEWLOOK
                                            - fixed some bugs (only Mario Cattaneo found them ←
                                              ...)


2.0ß (2.7.95)    INTERNAL BETA

                        - fixed some more small bugs
                        - re-improved
                        FORCENEWLOOK
                         because of side effects
                        - improved Intuition access protocoll handling
                        - implemented
                        ASSIGNWEDGE
                        2.0ß (3.7.95)    INTERNAL BETA

                        - fixed bug in
                        ASSIGNWEDGE
                                            - implemented warning message to show up if some
                          resident data structures are incompatible


2.0ß (4.7.95)    INTERNAL BETA

                        - improved
                        ASSIGNWEDGE
                                            - improved
                        FORCENEWLOOK
                        2.0ß (5.7.95)    INTERNAL BETA

                        - implemented
                        WBABOUT
```

```
                   and
                   WBTITLE
                    as a replacement for
                     WBExtender


2.0ß (6.7.95)      INTERNAL BETA


                   -
                   WBABOUT
                    now works correctly with 68040 and 68060
                   - improved
                   WBTITLE
                   2.0ß (7.7.95)    INTERNAL BETA


                   - extended "MultiCX Path" Semaphore
                   - improved some routines


2.0ß (8.7.95)      INTERNAL BETA


                   - SetFunction interfacing code completely rewritten
                   - fixed Enforcer hit in
                   WBTITLE
                   2.0ß (10.7.95)   PUBLIC BETA


                   - fixed bug in
                   ASSIGNWEDGE
                   2.0ß (16.7.95)   INTERNAL BETA


                   - improved
                   Screen~Blanker
                   , it will no longer re-open
                     Workbench when blanking
                   - implemented
                   LOCKPENS
                    and
                   FIXOPENWB
                    (OS 3.x only!)


2.0ß (18.7.95)     INTERNAL BETA


                   - fixed serious bug in SetFunction interfacing code,
                     which caused difficult to trace lockups
                   - improved
                   LOCKPENS
                    and
                   FIXOPENWB
                   2.0ß (27.7.95)   INTERNAL BETA


                   - improved
                   EDITHOOK
                   2.0ß (30.7.95)   PUBLIC BETA


                   - built in some more sanity checks for OpenWindow and
                     OpenScreen patches
                   - improved
                   Moire~Blanker
                   2.0ß (7.8.95)    INTERNAL BETA
```

```
                     - fixed bug in
                     EDITHOOK
                     , Clipboard Paste now always
                       works correctly (ReqTools FileRequester etc.)

2.0ß (11.8.95)  INTERNAL BETA

                     - improved some routines

2.0ß (12.8.95)  INTERNAL BETA

                     - fixed small bugs in
                     SA_PENS
                      and
                     SA_FONT
                                     - extended SetFunction interfacing code

2.0ß (14.8.95)  INTERNAL BETA

                     - fixed a little bug in
                     Notification
                      routine

2.0ß (15.8.95)  INTERNAL BETA

                     - renamed FORCENEWLOOK to
                     NEWLOOKMENUS
                                     - implemented
                     NEWLOOKPROPS
                                     - improved SetFunction interfacing code
                     - made some routines more "hack-friendly"...  ;-)

2.0ß (19.8.95)  INTERNAL BETA

                     - implemented
                     SHAPEFREEZER
                       (ShapeShifter Support)

2.0ß (20.8.95)  INTERNAL BETA

                     - implemented
                     NOFORMAT
                      and
                     LOCKPATCH
                                     - improved documentation (
                     PATCH_DISABLE
                     )

2.0ß (21.8.95)  INTERNAL BETA

                     - improved
                     SHAPEFREEZER
                                     - optimised some routines
                     - fixed nasty bug in SetFunction interfacing code
                       (occured with OS 2.x only)
```

```
2.0ß (22.8.95)   INTERNAL BETA

                 – improved
                 Moire Blanker
                                   (no more funny pixels with CyberGraphX)
                 – MultiCX needs at least 4096 Bytes Stack now!
                 – improved OpenWindow and OpenScreen patches


2.0ß (23.8.95)   INTERNAL BETA

                 – implemented
                 RESETHANDLER
                 2.0ß (26.8.95)   INTERNAL BETA


                 –
                 SHAPEFREEZER
                  completely rewritten
                 – implemented
                 SHAPECLICKER
                   (ShapeShifter Support)
                 – improved
                 EDITHOOK
                 , Clipboard Paste works with MUI now
                 – improved
                 Moire Blanker
                                 – fixed some small bugs


2.0ß (27.8.95)   INTERNAL BETA

                 – improved
                 ASSIGNWEDGE
                 , does more sanity checks now
                 – fixed bug in
                 RESETHANDLER
                 2.0ß (28.8.95)   INTERNAL BETA


                 – improved
                 SHAPEFREEZER
                 , should work always now, even
                   while the Mac is booting up!


2.0ß (29.8.95)   INTERNAL BETA

                 – some minor code improvements


2.0ß (30.8.95)   INTERNAL BETA

                 – reduced stack usage of some routines to avoid problems
                   with other patches


2.0ß (31.8.95)   INTERNAL BETA

                 – added another sanity check
                 – some minor code improvements


2.0ß (6.9.95)    INTERNAL BETA
```

```
                        - fixed small bug in
                        EDITHOOK
                                        - implemented
                        OPAQMOVE
                        ,
                        OPAQSIZE
                        ,
                        OPAQSMART
                        ,
                        OPAQLIMIT
                        2.0ß (7.9.95)    INTERNAL BETA

                        - removed OPAQSMART, added
                        NOSMART
                         and
                        NOSIMPLE
                                        - improved
                        OPAQMOVE
                         and
                        OPAQSIZE
                        2.0 (9.9.95)    FIRST RELEASE VERSION

                        - improved
                        SHAPEFREEZER
                                        - fixed bug in
                        EDITHOOK
                                        - finished AmigaGuide documentation

2.01 (10.9.95)  PUBLIC RELEASE

                        - fixed serious bugs in
                        Moire Blanker
                         and
                        Mouse Blanker
                                        - implemented
                        AVOIDWINDOW
                        2.02 (12.9.95)  PUBLIC RELEASE

                        - improved
                        Screen Blanker
                                        - improved
                        OPAQMOVE
                         and
                        OPAQSIZE
                                        - fixed serious bugs in
                        SHAPEFREEZER
                         and
                        FIXOPENWB
                                        - enhanced and improved
                        EDITHOOK
                        2.03 (14.9.95)  PUBLIC RELEASE

                        - fixed documentation bug (
                        NEWLOOKMENUS
                        )
                        - enhanced
                        EDITHOOK
```

```
                                  -
               OPAQMOVE
                and
               OPAQSIZE
                completely rewritten,
                 works with OS 2.x and OS 3.x now!

2.04 (15.9.95)  PUBLIC RELEASE

                                  -
               OPAQMOVE
                no longer ignores alien BorderGadgets
                  (MUI's Iconify Gadget etc.)

2.05 (15.9.95)  PUBLIC RELEASE

               - improved DragBar recognition in
               OPAQMOVE
                            - fixed small bug in
               OPAQSIZE
               2.06 (16.9.95)  PUBLIC RELEASE

               - improved
               LOCKPATCH
               2.07 (18.9.95)  PUBLIC RELEASE

               - improved
               LOCKPENS
                            - added
               List of Patches
                to documentation

2.08 (19.9.95)  PUBLIC RELEASE

               - fixed serious bug in error cleanup code

2.09 (24.9.95)  PUBLIC RELEASE

                                  -
               POPCLI
                and
               External Preferences
                should work with faked
                 WBStartupMsgs (with empty MP_SIGTASK field) now, but
                 the Path will not be cloned then!

2.10 (25.9.95)  PUBLIC RELEASE

               - implemented Deadlock Protection System for some very
                 nasty programs

2.11 (26.9.95)  PUBLIC RELEASE

               - implemented
               NOBOOTWRITE
                and
               IOALERT
```

                                              – implemented
                        NODISPLAYBEEP
                        2.12 (28.9.95) PUBLIC RELEASE

                        – implemented
                        ALERTTIME
                                     – modified behaviour of
                        IOALERT
                        2.13 (29.9.95) PUBLIC RELEASE

                        – enhanced and optimised
                        NOFORMAT
                         and
                        NOBOOTWRITE
                        ,
                          now ETD commands are detected as well

2.14 (2.10.95) PUBLIC RELEASE

                        – hopefully solved deadlock problems with some very
                          nasty programs (DOpus5 etc.)

2.15 (4.10.95) PUBLIC RELEASE

                        – made
                        NEWLOOKMENUS
                         more waterproof, some bad programs
                          tried to define NULL-MenuStrips

2.16 (8.10.95) PUBLIC RELEASE

                        – fixed bug in
                        ASSIGNWEDGE
                        , so IDCMP_DISKINSERTED will
                          be handled correctly now
                        – added some
                        Notes and Hints
                        2.17 (9.10.95) PUBLIC RELEASE

                        – improved StringGadget recognition routine

2.18 (10.10.95) PUBLIC RELEASE

                        – fixed bug in
                        SHAPEFREEZER
                        2.19 (24.10.95) PUBLIC RELEASE

                        – added some sanity checks for
                        ASSIGNWEDGE
                        2.20 (25.10.95) PUBLIC RELEASE

                        – improved
                        LOCKPENS
                        2.21 (27.10.95) PUBLIC RELEASE

                        – implemented Joystick emulation for
                        ShapeShifter

```
                                      - improved some routines


2.22 (7.11.95)  PUBLIC RELEASE

                - fixed small bug in
                SHAPEFREEZER
                            - some internal improvements


2.23 (10.11.95) PUBLIC RELEASE

                - implemented
                OPAQQUAL
                            - included fixed version of
                RebootOff
                  (Enforcer)


2.24 (11.11.95) PUBLIC RELEASE

                - improved
                ASSIGNWEDGE
                 and implemented workaround
                   for some nasty programs like TheAnswer3


2.25 (17.11.95) PUBLIC RELEASE

                - implemented
                WBONLY
                             - implemented SMARTWB
                - updated Support BBS number


2.26 (1.12.95)  PUBLIC RELEASE

                - implemented
                WBGAUGE
                2.27 (3.12.95)   PUBLIC RELEASE

                - fixed stupid bug in
                WBGAUGE
                2.28 (4.12.95)   PUBLIC RELEASE

                - fixed and improved
                FRONTPUBSCR
                2.29 (4.12.95)   INTERNAL TEST VERSION


2.30 (5.12.95)  PUBLIC RELEASE

                - improved and enhanced
                EDITHOOK
                :
                  - is now controlled by
                PATCH_DISABLE
                              - implemented
                CLIPUNIT
                 ToolType
                  - RCOMMAND SHIFT V clears gadget before inserting string
                  - works with applications that do their own Copy/Paste now
                  - is 100% compatible to MUI now
```

```
                        - overall code cleanup


2.31 (11.12.95) PUBLIC RELEASE


                        - improved
            OPAQMOVE
             and
            OPAQSIZE
                                   - fixed (harmless) Enforcer hit in
            NEWLOOKMENUS
            2.32 (15.12.95) PUBLIC RELEASE


                        - hopefully fixed some problems with v39 Workbench
                        - minimised stack usage of some routines


2.33 (16.12.95) PUBLIC RELEASE


                        - improved and extended
            WBABOUT
             and
            WBTITLE
                                   - fixed nasty bug in
            SHAPEFREEZER
            2.34 (16.12.95) PUBLIC RELEASE


                        - Arrggghhhh! v2.33 introduced a MEGA-BUG!


2.35 (19.12.95) PUBLIC RELEASE


                        -
            WBGAUGE
             should work with all languages now


2.36 (20.12.95) PUBLIC RELEASE


                        - optimised some routines
                        -
            WBGAUGE
             really works with all languages now,
              including German...   ;-)


2.37 (26.12.95) PUBLIC RELEASE


                        - implemented
            CLOCK
                                   - added
            12HRS
             and
            COMPACT
             ToolTypes


2.38 (31.12.95) PUBLIC RELEASE


                        - implemented
            IGNORE_CLASS
                                   - implemented
            NOCMDKEY
```

```
                  and
                  NOESCKEY
                  2.39 (1.1.96)   PUBLIC RELEASE


                  - implemented
                  GURUTIME
                                  - implemented some more Magic in
                  WBABOUT
                                  A Happy New Year to all of you!


2.40 (7.1.96)     PUBLIC RELEASE

                  - fixed a global WB deadlock problem

2.41 (8.1.96)     PUBLIC RELEASE

                  - fixed small bug in
                  WBTITLE
                                  -
                  ENTERASCII
                   now works with LALT or RALT


2.42 (23.1.96)    PUBLIC RELEASE

                  - implemented
                  AUTOMOUNT
                                  - improved
                  EDITHOOK
                  2.43 (23.1.96)  PUBLIC RELEASE

                  - improved
                  ASSIGNWEDGE
                  2.44 (26.1.96)  PUBLIC RELEASE

                  - improved
                  ASSIGNWEDGE (AUTOMOUNT)
                   behaviour


2.45 (12.2.96)    PUBLIC RELEASE

                  - removed SMARTWB, because it would never work properly
                  - removed a sanity check from
                  ASSIGNWEDGE
                  2.46 (18.3.96)  PUBLIC RELEASE

                  - implemented
                  NOCLOSEWB
                                  - implemented
                  IGNOREKEY
                                  - improved
                  IOALERT
                  ,
                    Multitasking is inhibited now while displaying the
                    alert to give the chance for a emergency reset
                  -
                  WBTITLE
                   now detects CyberGraphX
```

```
                    – easier access to
                    Support BBS
                    2.47 (24.3.96)  PUBLIC RELEASE

                    – fixed
                    ASSIGNWEDGE
                    's Mount to work properly with
                      some 3rd party command shells (WShell etc.)

2.48 (11.4.96)  PUBLIC RELEASE

                    – implemented
                    ASSIGNWEDGE
                     workaround for WBStartup+
                      (bug in launcher.library)
                    – fixed small bug in
                    NOCAPSLOCK
                                  – improved SetFunction interfacing code
                    – optimised some routines
                    – included german documentation

2.49 (13.4.96)  PUBLIC RELEASE

                    – fixed a nasty bug in new SetFunction interfacing code

2.50 (29.4.96)  PUBLIC RELEASE

                    – fixed bug in
                    SCRMODE
                    , ToolType was simply ignored

2.51 (8.6.96)   INTERNAL TEST VERSION

2.52 (10.6.96)  PUBLIC RELEASE

                    – improved
                    Drive Protection
                     routines
                    – implemented
                    IGNOREMOUSE
                     and
                    IGNOREDISK
                                  – implemented
                    AVOIDSUN
                                  – implemented
                    DATE
                     display for extended TitleBar

2.53 (11.6.96)  PUBLIC RELEASE

                    – fixed small bug in
                    DATE
                     routine

2.54 (18.6.96)  PUBLIC RELEASE

                    – fixed bug in
```

```
              AVOIDSUN
                              - improved InputEvent killing routine


2.55 (24.6.96)  PUBLIC RELEASE

              - implemented
          German Localisation
                              - improved some routines
```

1.50 To do

```
-------------------------------------------------------------------------
                  Planned features for later versions:
-------------------------------------------------------------------------

              - some more small patches...
```

1.51 PatchList

```
-------------------------------------------------------------------------
                  List of Patches
-------------------------------------------------------------------------


Name                          Library         needed for
-------------------------------------------------------------------------
OpenScreen, OpenScreenTagList  intuition       SA_PENS
                                               SA_AUTOSCROLL
                                               SA_FONT
                                               LOCKPENS       (OS 3.x)
                                               BLACKBORDER    (OS 2.x)
                                               SHAPEFREEZER
OpenWindow, OpenWindowTagList   intuition       NEWLOOKMENUS   (OS 3.x)
                                               WBTITLE
                                               FIXOPENWB      (OS 3.x)
                                               SHAPEFREEZER
CloseWindow                    intuition       WBGAUGE
SetPubScreenModes              intuition       LOCKPUBFLAGS
SetMenuStrip                   intuition       NEWLOOKMENUS   (OS 3.x)
EasyRequestArgs                intuition       ASSIGNWEDGE
                                               WBABOUT
SetWindowTitles                intuition       WBTITLE
                                               WBGAUGE
LockPubScreen                  intuition       FIXOPENWB      (OS 3.x)
OpenWorkBench                  intuition       FIXOPENWB      (OS 3.x)
CloseWorkBench                 intuition       NOCLOSEWB
CreateGadgetA                  gadtools        NEWLOOKPROPS
WBenchToFront                  intuition       SHAPEFREEZER
ScreenToFront, ScreenToBack    intuition       SHAPEFREEZER
ScreenDepth                    intuition       SHAPEFREEZER   (OS 3.x)
DoIO, SendIO                   exec            NOFORMAT
                                               NOBOOTWRITE
Format                         dos             NOFORMAT
```

```
Lock                            dos             LOCKPATCH
ColdReboot                      exec            RESETHANDLER
DisplayBeep                     intuition       NODISPLAYBEEP
DisplayAlert                    intuition       ALERTTIME        (OS 3.x)
ModifyIDCMP                     intuition       WBGAUGE
```

1.52 Legal

```
-------------------------------------------------------------------------
                              Legal Stuff
-------------------------------------------------------------------------


                    MultiCX 2.x is SHAREWARE !!!


    If you use it permanently please send me a donation of US$ 15 (DM 20).
      Please add $5 when you send me a cheque to cover clearing charges.

    All users who have sent a gift for MultiCX 1.x may use this and all
              further coming updates without paying anything.

            Bank Account for money transfer (German users only):

       R.Berndt   Konto 393439-438   BLZ 36010043   Postbank Essen


                      THANK YOU FOR YOUR SUPPORT !


-------------------------------------------------------------------------


Copyright
---------
MultiCX is written and copyright © 1994-1996 by Martin Berndt.  No parts
of  this  program  may  be  altered by any means (this includes editing,
reprogramming, crunching, resourceing etc.), except archiving.

Disclaimer
----------
The  author  is in no way liable for any changes made to any part of the
program,  or  consequences thereof as he is in no way liable for damages
or loss of data directly or indirectly caused by this software.

Distribution
------------
Neither fees may be charged nor profits may be made by distributing this
piece  of  software.  Only a nominal fee for costs of magnetic media may
be  accepted,  the  amount  of  US  $5  shouldn't be exceeded for a disk
containing  MultiCX.  CD Manufactures are specifically granted the right
to  include  this program on CD collections, as long as they are for the
Public Domain. But the user still has to pay the Shareware fee!

-------------------------------------------------------------------------
```

1.53 Credits

```
                    ----------------------------------------------------------------------- ←

                              Credits
-------------------------------------------------------------------------
```

The following persons deserve special thanks from me as they made a
significant contribution to the development of MultiCX:

- Olaf "Olsen" Barthel   for his good advice in many cases

- Jürgen Kempkes   for
                MUI-MCXPrefs
                - Christian Bauer   for
                ShapeShifter
                , the best Mac-Emulator

- Frank Mariak   for making CyberGraphX

- Kai Iske   for WBGauge artwork

- Niels Görs   for the german documentation

- all my Beta-Testers   for reports and constructive criticism

- the MCP authors   for the worst programming example ever

- Mike Oldfield   for the best music on this little planet

- the TNG crew   for the greatest adventures in universe

- my son Daryl   for moral support

- my coffee machine   for coffee support   ;-)

1.54 HandleCX

```
-------------------------------------------------------------------------
                        HandleCX 1.3 (19-Mar-95)
-------------------------------------------------------------------------
```

HandleCX is a CLI-replacement for Exchange to help you handling your
commodities.   In many cases it is useful to have full control over all
running commodities in scripts, e.g. to start a game which does not
like screenblankers.

```
-------------------------------------------------------------------------
                                Usage
-------------------------------------------------------------------------
```

The syntax of the HandleCX command is:

```
   HandleCX CX_NAME/M,L=LIST/S,V=VERBOSE/S,P=POPUP/S,H=HIDE/S,E=ENABLE/S,
            D=DISABLE/S,R=REMOVE/S,T=TOGGLE/S
```

The parameters are:

```
    CX_NAME          name of a commodity,
                     case-indepentent,
                     must be quoted if it contains spaces,
                     multiple names and wildcarding are allowed

    LIST    or L     lists all or selected commodities,
                     may be combined with other commands

    VERBOSE or V     like LIST, but with more infos

    POPUP   or P     like "Show Interface" in Exchange

    HIDE    or H     like "Hide Interface" in Exchange

    ENABLE  or E     like "Active" in Exchange

    DISABLE or D     like "Inactive" in Exchange

    REMOVE  or R     like "Remove" in Exchange

    TOGGLE  or T     toggles Active/Inactive status


    Only ONE command is allowed at a time!
    That means only the first command found will be executed.
```

List format:

```
        $07146028: MultiCX                   ACTIVE    GUI
        $071460B0: Arq 1.79                  ACTIVE    NOGUI
        $07146138: Magic Menu                ACTIVE    GUI
        $071461C0: CycleToMenu               ACTIVE    GUI
        $07146248: Exchange                  ACTIVE    GUI
        $071462D0: DynamiCache               ACTIVE    GUI
        $07146730: MFS                       ACTIVE    GUI
        $071467B8: CrossDOS                  ACTIVE    GUI
        $07146840: AlertPatch                ACTIVE    GUI
        $071468C8: CrossMac                  ACTIVE    GUI
        $07146950: PowerSnap                 ACTIVE    GUI
        $071469D8: ClipHistory 0             ACTIVE    GUI
        $07146A60: Clipbook                  ACTIVE    GUI
        $07146AE8: SwazInfo                  ACTIVE    GUI
        $07146B70: ToolManager               ACTIVE    NOGUI
        $07146BF8: PrinterManager            ACTIVE    GUI
        $07146D08: DragIt                    ACTIVE    GUI
        ^          ^                         ^         ^
        |          |                         |         |
        |          CX_Name                   |         |
        |          |                         |         |
        |_____  Address of Structure      |         |
```

```
                                            |           |
                      Commodity is ACTIVE _____|           |
                                                        |
                      Commodity has a GUI or not _____|
```

Verbose list format:

```
  $07157418: MultiCX                    ACTIVE   GUI
   : MultiCX 2.0 - ©1995 by Martin Berndt (Adds many nice features)
```

                                History

1.0   - initial release

1.1   - implemented wildcarding
          Some AmigaShell replacements need quotes around wildcards!

1.2   - changed command template,
          verbose list implemented

1.3   - implemented TOGGLE option