MultiCX

Martin Berndt

COLLABORATORS

	TITLE :			
	MultiCX			
ACTION	*NAME*	*DATE*	*SIGNATURE*	
WRITTEN BY	Martin Berndt	August 22, 2024		

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

MultiCX

1.1 MultiCX-Guide Main

```
-----------------------------------------------------------------------
                        MultiCX 2.80 (1.1.98)

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

```
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                         Localisation

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                                  Alert Timeout                   OS 3.x only!
                    *                WBGauge
                                   ScreenMenu
                                  PubScreenAlias


                    *          ShapeShifter Support


                                    HandleCX



                    * = Registered Users only !
```

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/SCRMODEID are set, the ScreenMode is only used if
the Workbench is not available for some reason. But this should never
happen...

See also: Moire Blanker and DPMS

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

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 insertion
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
SCRMODEID=ModeID        selects a display ModeID (decimal)
```

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 and DPMS

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
BLANKPRI=n   sets blanker's task priority, default is -120

1.8 DPMS

DPMS   Registered Users only !

DPMS stands for Display Power Management Signaling and needs at least
three things to work properly:

              1. a DPMS compatible monitor
              2. CyberGraphX system v40+
              3. a CyberGraphX Workbench screen

                           WARNING:

Do NOT try to use DPMS if your monitor doesn't support Power Management!

CyberGraphX knows different DPMS levels, but not all graphics cards or
monitors support them all, i.e. Picasso-II users may only use level 3.
The levels are:

Level 0   DPMS_ON   Full operation
Level 1   DPMS_STANDBY   Optional state of minimal power reduction
Level 2   DPMS_SUSPEND   Significant reduction of power consumption
Level 3   DPMS_OFF   Lowest level of power consumption

In order to prevent other screen blankers from doing unneccessary work
while DPMS is active, MultiCX may regulary emulate the pressing of the
left shift key, but MultiCX' own blankers do not need this.

See also: Screen Blanker and Moire Blanker

```
ToolTypes:

DPMS_TIME=n                sets number of seconds until DPMS blanking,
                           0 means OFF (no DPMS)
DPMS_LEVEL=n               sets DPMS operation mode (0-3), 0 means OFF
DPMS_SHIFT=n               sets number of seconds for Shift emitting,
                           0 means OFF
DPMS_KILLKEY               ignore unblanking keypress
DPMS_NOMOUSE               do not unblank on mouse movement
DPMS_NODISK                do not unblank on disk insertation
DPMS_HOTKEY=Qual&Key       sets hotkey for immediate DPMS blanking
```

1.9 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
```

1.10 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
```

1.11 Lefty Mouse

```
--------------------------------------------------------------------------
Lefty Mouse
--------------------------------------------------------------------------
```

If activated this feature will swap the left and right mouse button, ie.
if you hit the left button it will act like the right and vice versa.

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

ToolTypes:

LEFTYMOUSE   activates Lefty Mouse

1.12 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

1.13 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
```

1.14 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
SUPERLAYERS               enables SuperLayers for non-CyberGraphX systems
```

1.15 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. When SUNPOPUP is used windows will be brought to
front when being activated.

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

ToolTypes:

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

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

1.16 Title Activator

```
--------------------------------------------------------------------------
Title Activator
--------------------------------------------------------------------------
```

This option simply allows activation of a screen by clicking on its
title bar, which is quite useful when using dragged screens.

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

ToolTypes:

```
TITLEACTIVATE          activates Title Activator
```

1.17 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
```

1.18 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

1.19 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. If the MAPCAPSLOCK switch is set the conversion
only takes place while CAPSLOCK is active, which is very useful if you
only need this feature with some applications. Please note that this
option is not affected by NOCAPSLOCK, so these switches should be used
together.

ToolTypes:

MAPUMLAUTS   activates MapUmlauts
MAPCAPSLOCK   activates MapCapsLock

1.20 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

1.21 NoCapsLock

NoCapsLock

```
... simply switches off CAPSLOCK completely.
```

```
ToolTypes:

NOCAPSLOCK              activates NoCapsLock
```

1.22 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
```

1.23 Window Movement

```
Window Movement
```

```
This  group  of hotkeys enables you to center the active window, to move
it  to the top left corner of the screen or to align it with it's parent
window.
```

```
ToolTypes:

WINCENTER=Qual&Key      sets Qualifier and Key to center window
WINPARENT=Qual&Key      sets Qualifier and Key to align a window with
                        it's parent window
WINTOPLEFT=Qual&Key     sets Qualifier and Key to move window to the
                        top left corner of the screen
```

1.24 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

1.25 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

1.26 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

1.27 ForceAmiga

```
------------------------------------------------------------------------
ForceAmiga
------------------------------------------------------------------------
```

This Hotkey lets you force switching to native Amiga modes when using
CyberGraphX and is especially useful for some nasty games.

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

ToolTypes:

```
FORCEAMIGA=Qual&Key       sets Qualifier and Key for ForceAmiga,
                          none means OFF
```

1.28 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)
```

1.29 PrtSc Hotkeys

```
------------------------------------------------------------------------
PrtSc Hotkeys
------------------------------------------------------------------------
```

MultiCX executes the given command strings when pressing the left or
right ALT key and PrtSc (NUMERICPAD *), which might be useful to print
or snapshot a screen.

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

ToolTypes:

```
PRTSC_LEFT=Command        sets command string for LALT NUMPAD *
PRTSC_RIGHT=Command       sets command string for RALT NUMPAD *
```

1.30 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

1.31 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
```


1.32 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)
```

1.33 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
```

1.34 Clock Check

```
-----------------------------------------------------------------------
Clock Sanity Check
-----------------------------------------------------------------------
```

When this option is activated MultiCX tests the actual date/time on
startup and if something seems to be wrong the Time Preferences program
is started automatically.

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

```
ToolTypes:
CHECK_CLOCK                activates Clock Sanity Check
```

1.35 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

1.36 Advanced EditHook

Advanced EditHook   Registered Users only !

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 ($^2$)
```

1.37   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
```

1.38   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          OLDTOOL           NEWTOOL
    EDITHOOK         PUBSCREENALIAS

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

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

ToolTypes:

```
PATCH_DISABLE               if set, all Patches will be disabled together
```

```
                              with MultiCX
```

1.39 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
```

1.40 NewLookMenus

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

This patch forces NewLook Menus on all PublicScreens.

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


ToolTypes:

NEWLOOKMENUS            activates NewLookMenus
```

1.41 NewLookProps

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

This patch gives all PropGadgets (Sliders etc.) the OS 2.0+ look, if
they are at least 4x4 pixels wide.

(This will work with GadTools Gadgets only!)

ToolTypes:

NEWLOOKPROPS   activates NewLookProps

1.42 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, CGX or P96)|~~~~|~~~~|  |
~~~~~~~~|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ ~~~~~~|~~~~|~~~~|  |
~~~~~~~~+--------~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, SetPatch 43.6~|
~~~~~~~~~~~~~~~~~~~~~|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~  |
Copyright~Message~->~|~Copyright~©~1985-1997~Amiga International, Inc.~|
~~~~~~~~~~~~~~~~~~~~~|~All~Rights~Reserved.~~~~~~~~~~~~~~~~~~~~~  ~~~|
~~~~~~~~~~~~~~~~~~~~~|~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~  |
CyberGraphX ------> | CyberGraphX System v2 (40.113)                |
                    |                                               |
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~         More... |
~~~~~~~~~~~~~~~~~~~~~~+----------------------------------------------+


~~~~~~~~~~~~OK~~~~~:~just~leave~Requester~as~before
~~~~~~~~~~~~Flush~~:~flush~all~inactive~libs,~fonts~etc.
~~~~~~~~~~~~Reboot~:~reboots~system,~opens~confirmation~Requester~first
           More...: some additional information (OS 3.x only!)


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

When WBMENU is activated some options will be added to WB's Tools menu:

```
            MCX About          some information about MultiCX
            MCX Config         calls MCX Preferences
            MCX Flush          flushes memory (like above)
            MCX Reboot         reboots system (like above)
            MCX Shell          calls MCX PopCLI function
```

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

ToolTypes:

```
WBABOUT~~~~~~~  ~~~~~~~~enables new WB About
WBTITLE~~~~~  ~~~~~~~~~~enables new WB Titlebar
WBMENU                 enables new WB AppMenu options
CLOCK                  adds a digital clock to the TitleBar, which will
                       be updated regulary
12HRS                  12hrs clock display (AM/PM)
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)
WIDE                   enables XXL TitleBar for very wide WB screens
```

1.43 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

1.44 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

1.45 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

1.46 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

1.47 NoDisplayBeep

NoDisplayBeep

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

ToolTypes:

NODISPLAYBEEP   enable NoDisplayBeep

1.48 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
```

1.49 ToolAlias

```
-----------------------------------------------------------------------------
ToolAlias
-----------------------------------------------------------------------------
```

This very simple ToolAlias option allows you to intercept and replace
one or more programs specified by a wildcard pattern by another one, ie.
setting "OLDTOOL=#?more" and "NEWTOOL=SYS:Utilities/MultiView" means
that MultiView will be used instead of all programs which names end with
"more".

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

```
ToolTypes:
```

```
OLDTOOL=Pattern          sets pattern for tools to be replaced
NEWTOOL=Command          sets replacement command
```

1.50 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
```

1.51 ShapeShifter Support

```
-----------------------------------------------------------------------------
ShapeShifter Support                             Registered Users only !
-----------------------------------------------------------------------------
```

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
```

1.52 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
```

1.53   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)
```

1.54   WBGauge

```
------------------------------------------------------------------------
WBGauge                                            Registered Users only !
------------------------------------------------------------------------
```

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
```

1.55 ScreenMenu

```
------------------------------------------------------------------------
ScreenMenu
------------------------------------------------------------------------
```

Using this option the depth gadget of a PublicScreen gets a new meaning.
If you click it with the right mouse button MultiCX presents a menu from
which you may select a screen, which will be brought to front when the
mouse button is released. Public screens are marked by "<PUB>" in front
of their public name, all others by "<SCR>" followed by the screen's
title (if present).

Please note that this function is limited to public screens because a
visitor window on a custom screen would never be safe enough.

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

ToolTypes:

SCREENMENU   enables ScreenMenu

1.56 PubScreenAlias

```
------------------------------------------------------------------------
PubScreenAlias
------------------------------------------------------------------------
```

Many programs can only access a PubScreen using its name but not the
frontmost or default PubScreen. MultiCX offers two alias names to access
these screens: _FRONT_ for the frontmost and _DEFAULT_ for the default
PubScreen.

Example: MultiView MyPicture pubscreen _FRONT_

Sometimes you may have to edit a programs prefs file using a Hex-Editor.

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

ToolTypes:

PUBSCREENALIAS   enables PubScreenAlias

1.57 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 3.0 (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 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...   ;-)

1.58 Author


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



                               Martin Berndt

                             Fr.-Alfred-Str. 115
                               47226 Duisburg
                                   Germany


                           Phone: +49-2065-73904


                       E-Mail: m_berndt@wanderer.gun.de



                       Support BBS: WANDERER +49-211-226223
```

```
                      Login: MBS

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


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


----------------------------------------------------------------------
                      Have you tried AmiCDFS already ?
----------------------------------------------------------------------
```

1.59 History

```
----------------------------------------------------------------------
                             History
----------------------------------------------------------------------


1.00 - 1.76     Ancient History

2.0 (9.9.95)    FIRST RELEASE VERSION

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


2.56 (24.7.96)  PUBLIC RELEASE

                    - improved NEWLOOKPROPS
                    - fixed bug in WBGAUGE (Type 1)
                    - fixed bug in AVOIDSUN which affected Window Cycling
                    - implemented FORCEAMIGA


2.57 (10.9.96)  PUBLIC RELEASE

                    - improved and extended WBABOUT and WBTITLE
                    - improved German documentation


2.58 - 2.59     INTERNAL TEST VERSIONS


2.60 (10.1.97)  PUBLIC RELEASE

                    - implemented SCREENMENU
                    - SUNxxx functions no longer disable MUI Stringgadgets
                    - fixed some small bugs
                    - changed account number for money transfer


2.61 (15.1.97)  PUBLIC RELEASE

                    - fixed stupid bug in SCREENMENU


2.62 (16.1.97)  PUBLIC RELEASE

                    - fixed another stupid bug in DATE ToolType handling
                    - improved SCREENMENU routine


2.63 (5.2.97)   PUBLIC RELEASE

                    - added Window Movement options
                    - added AM/PM display to clock's 12HRS mode
                    - WBTITLE now detects Picasso96


2.64 - 2.69     INTERNAL TEST VERSIONS


2.70 (14.4.97)  PUBLIC RELEASE
```

```
                        – implemented TITLEACTIVATE
                        – implemented SUNPOPUP
                        – implemented WBMENU
                        – implemented LEFTYMOUSE
                        – implemented MAPCAPSLOCK
                        – implemented SCRMODEID
                        – implemented PRTSC_LEFT and PRTSC_RIGHT
                        – implemented simple ToolAlias option
                        – extended WBABOUT to show CyberGraphX version
                        – added SUPERLAYERS support for CyberGraphX v3
                        – fixed bug in Qualifier handling code
                        – improved some routines
                        – included HandleCX source
                        – changed registration details
                        – sorry, german documentation not finished yet


2.71 (24.4.97)  PUBLIC RELEASE

                        – fixed some very small bugs


2.72 (12.5.97)  PUBLIC RELEASE

                        – added WIDE option for extended TitleBar
                        – improved SCREENMENU to be PowerWindows compatible


2.73 (20.5.97)  PUBLIC RELEASE

                        – added DPMS for CyberGraphX


2.74 (4.6.97)   PUBLIC RELEASE

                        – WBABOUT now works with SetPatch 43.6


2.75 (15.8.97)  PUBLIC RELEASE

                        – added PUBSCREENALIAS
                        – added Reboot option to WBMENU
                        – MultiCX now automatically handles Executive, so it
                          should be removed from Executive's Tasklist.


2.76 (22.8.97)  PUBLIC RELEASE

                        – added BLANKPRI in order to avoid problems with
                          some badly programmed software


2.77 (27.8.97)  PUBLIC RELEASE

                        – hopefully fixed deadlock problem in SCREENMENU


2.78 (3.9.97)   PUBLIC RELEASE

                        – improved SCREENMENU and TITLEACTIVATE
                        – WBABOUT 'More...' now works with Kickstart 3.0


2.79 (23.10.97) PUBLIC RELEASE
```

```
                   - implemented CHECK_CLOCK
                   - WBABOUT now displays type and speed of PowerPC if present
                   - Screen Blanker no longer blanks when Time/Date is changed
                   - some minor cosmetic changes

2.80 (1.1.98)   PUBLIC RELEASE

                   - SUPERLAYERS switch now only needed for non-CyberGraphX
                     systems using some kind of SuperLayers
                   - EDITHOOK should now always work properly with other
                     global EditHooks (i.e. Storm Wizzard)
                   - FEATURES list now shows up all restrictions for
                     unregistered users

                   A HAPPY NEW YEAR TO ALL OF YOU !!!
```

1.60 To do

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

                   - some more small patches...


                   Please send me your suggestions!
```

1.61 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)
                                                PUBSCREENALIAS
                                                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)
                                            PUBSCREENALIAS
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
LoadSeg, NewLoadSeg          dos            OLDTOOL
                                            NEWTOOL
```

1.62 Legal

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



                      MultiCX 2.x is SHAREWARE !!!


   If you use it permanently please send me a donation of US$ 20 (DM 30).
     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:

  Martin Berndt   Konto 4185180009   BLZ 35060386   Vereinsbank Duisburg

                     Registered users should contact me
                  to get rid of some strange new features...


                      THANK YOU FOR YOUR SUPPORT !


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


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reprogramming, crunching, resourceing etc.), except archiving.
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Disclaimer
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program,  or  consequences thereof as he is in no way liable for damages
or loss of data directly or indirectly caused by this software.

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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!

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1.63 Credits

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                                Credits
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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

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- Christian Bauer   for ShapeShifter, the best Mac-Emulator

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- my sons Daryl and Joey   for moral support

- my coffee machine   for coffee support   ;-)

1.64 HandleCX

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

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