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# **Contents**

1	Mul	tiCX	1
	1.1	MultiCX-Guide Main	1
	1.2	Installation	2
	1.3	Features	2
	1.4	Notification	4
	1.5	Screen Blanker	4
	1.6	Moire Blanker	5
	1.7	Mouse Accelerator	5
	1.8	Mouse Blanker	6
	1.9	Screen Cycling	6
	1.10	Mouse Shift	6
	1.11	Window Cycling	7
	1.12	SUN-alike Window Activation	7
	1.13	HoldX and HoldY	8
	1.14	Enter ASCII	8
	1.15	Map Umlauts	8
	1.16	CapShift	9
	1.17	NoCapsLock	9
	1.18	CloseZoom	9
	1.19	Window Remember	10
	1.20	CenterScreen	10
	1.21	HotFlush	10
	1.22	PopCLI	11
	1.23	FrontPubScreen	11
	1.24	System Flags	11
	1.25	Trackdisk Parameters	12
	1.26	Public Screen Flags	12
	1.27	Internal and External Preferences	13
	1.28	Advanced EditHook	13
	1.29	Advanced ResetHandler	14

1.30	SetFunction Patches	 14
1.31	AssignWedge	 15
1.32	NewLookMenus	 15
1.33	NewLookProps	 16
1.34	WBExtender	 16
1.35	TagScreens	 17
1.36	LockPens	 18
1.37	FixOpenWB	 18
1.38	NoCloseWB	 18
1.39	NoDisplayBeep	 19
1.40	Drive Protection	 19
1.41	LockPatch	 19
1.42	ShapeShifter Support	 20
1.43	Opaque Windows	 21
1.44	Alert Timeout	 21
1.45	WBGauge	 22
1.46	Notes and Hints	 22
1.47	Author	 24
1.48	History	 25
1.49	To do	 36
1.50	PatchList	 36
1.51	Legal	 36
1.52	Credits	 37
1.53	HandleCX	 38

MultiCX 1 / 40

# **Chapter 1**

# **MultiCX**

## 1.1 MultiCX-Guide Main

MultiCX 2.49 (13.4.96)

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 2 / 40

# !!! MultiCX is SHAREWARE !!!

## 1.2 Installation

MultiCX Installation

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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

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MultiCX Features

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Notification

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

MultiCX 3/40

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!

MultiCX 4 / 40

#### WBGauge

#### ShapeShifter Support

#### HandleCX

#### 1.4 Notification

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Notification

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

#### 1.5 Screen Blanker

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Screen Blanker

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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

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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

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

MultiCX 5 / 40

LIKEWB forces cloning the WB's display mode

SCRMODE=ModeName selects a display mode by name

#### 1.6 Moire Blanker

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Moire Blanker

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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

#### 1.7 Mouse Accelerator

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Mouse Accelerator

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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.)

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ToolTypes:

ACCELERATION=n sets Acceleration factor, 0 means OFF

THRESHOLD=n sets Threshold value, 0 means no Threshold

MultiCX 6 / 40

#### 1.8 Mouse Blanker

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Mouse Blanker

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

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ToolTypes:

KEYBLANK activates MouseBlanking on keypress TIMEBLANK activates MouseBlanking after timeout

## 1.9 Screen Cycling

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Screen Cycling

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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

#### 1.10 Mouse Shift

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Mouse Shift

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 $\label{thm:multiCX} \mbox{MultiCX lets you use the RightMouseButton or MiddleMouseButton as a Shift-Key for extended selection.}$ 

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.

MultiCX 7 / 40

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...

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ToolTypes:

MOUSESHIFT=RMB|MMB sets MouseShift to RMB or MMB

## 1.11 Window Cycling

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Window Cycling

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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

## 1.12 SUN-alike Window Activation

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SUN-alike Window Activation

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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.

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ToolTypes:

SUNKEY activates SunKey

MultiCX 8 / 40

SUNMOUSE activates SunMouse SUNRMB activates SunRMB

## 1.13 HoldX and HoldY

HoldX and HoldY	
defined Qualifier.	u to lock a specific mouse dimension while holding a If both Qualifiers are set to the same it locks all o you are responsible for useful settings
ToolTypes:	
	sets Qualifier for HoldX, none means OFF sets Qualifier for HoldY, none means OFF
1.14 Enter ASCII	
Enter ASCII	
and the numbers	to enter ASCII codes directly by pressing an ALT key in the numeric block, for example: <alt> 65 = A. alue must not be greater than 255.</alt>
ToolTypes:	
ENTERASCII=LALT RAL	T activates EnterASCII using LALT or RALT
1.15 Map Umlauts	<b>;</b>
Map Umlauts	
	be of use for german users or other people writing will convert the german umlauts into the normal
ToolTypes:	

MultiCX 9 / 40

MAPUMLAUTS activates MapUmlauts

1.16 CapShif	CapShift
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CapShift

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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.

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ToolTypes:

CAPSHIFT activates CapShift

# 1.17 NoCapsLock

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NoCapsLock

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... simply switches off CAPSLOCK completely.

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ToolTypes:

NOCAPSLOCK activates NoCapsLock

#### 1.18 CloseZoom

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Window Close & Zoom

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

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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

MultiCX 10 / 40

## 1.19 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

#### 1.20 CenterScreen

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CenterScreen

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

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ToolTypes:

CENTERSCR=Qual&Key sets Qualifier and Key for CenterScreen,

none means OFF

AUTOCENTER activates AutoCenterScreen

## 1.21 HotFlush

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HotFlush

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

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ToolTypes:

HOTFLUSH=Qual&Key sets Qualifier and Key for HotFlush,

none means OFF

MultiCX 11 / 40

1	.22	Po	<b>pCLI</b>
		ΓU	POLI

PopCLI		
the PopCLI key.	rShell using the given command string when pressing	
ToolTypes:		
POPCLI=Qual&Key POPCLICMD=Command POPCLISTACK=n	sets Qualifier & Key for PopCLI, none means OFF sets command string for PopCLI, none means OFF sets stacksize for PopCLI (Default: 4096)	
1.23 FrontPubScree	en	
FrontPubScreen		
the actual DefaultPubS	activated the FrontScreen automatically will become Screen, as long as it is public and not private.	
ToolTypes:		
FRONTPUBSCR	activates FrontPubScreen	
1.24 System Flags		
System Flags		
MultiCX lets you set may be set, unset deactivate, 1 or any in brackets (the sar NOT restored when or	t/change some of the internal AmigaOS flags. These or left unchanged, where a parameter of 0 means y value >0 means activate, and putting the ToolType me as removing it) means no change. Old values are quitting/disabling MultiCX, but ication	

ToolTypes:

MultiCX 12 / 40

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

#### 1.25 Trackdisk Parameters

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Trackdisk Parameters

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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!

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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)

## 1.26 Public Screen Flags

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Public Screen Flags

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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  $\frac{1}{2}$ 

System Flags

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ToolTypes:

POPPUBSCR=n changes PopPubScreen flag SHANGHAI=n changes Shanghai flag

LOCKPUBFLAGS locks Public Screen flags set by MultiCX

MultiCX 13 / 40

## 1.27 Internal and External Preferences

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Internal and External Preferences

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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!

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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

#### 1.28 Advanced EditHook

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Advanced EditHook

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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

MultiCX 14 / 40

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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\$)

#### 1.29 Advanced ResetHandler

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Advanced ResetHandler

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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 (Al000 and early A500).

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ToolTypes:

RESETHANDLER activates advanced ResetHandler

#### 1.30 SetFunction Patches

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SetFunction Patches

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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\_AUTOSCROLL SA\_PENS SA\_FONT NOCLOSEWB LOCKPENS FIXOPENWB NODISPLAYBEEP NOFORMAT NOBOOTWRITE LOCKPATCH SHAPEFREEZER ALERTTIME

WBGAUGE EDITHOOK

MultiCX 15 / 40

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

ToolTypes:

PATCH\_DISABLE if set, all Patches will be disabled together

with MultiCX

#### **AssignWedge** 1.31

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AssignWedge

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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:

opens a DirectoryRequester asking for a path Assign...

to assign the requested volume to

Mount tries to mount the volume

denies the request and remembers the Process Deny

> which tried to access that volume, so that it will not ask you again as long as AssignWedge

is active

ToolTypes:

ASSIGNWEDGE AUTOMOUNT=Pattern activates AssignWedge

defines a pattern for volumes which will be

mounted automatically when accessed for the

first time

## 1.32 NewLookMenus

OS 3.x only! NewLookMenus

This patch forces NewLook Menus on all PublicScreens.

ToolTypes:

NEWLOOKMENUS activates NewLookMenus MultiCX 16 / 40

# 1.33 NewLookProps

NewLookProps	
	all PropGadgets (Sliders etc.) the OS 2.0+ look. with GadTools Gadgets only!)
ToolTypes:	
NEWLOOKPROPS	activates NewLookProps
1.34 WBExtend	der
WBExtender	
	replace your WB Titlebar and the "About" Requester by rmation about your system.
This is how the	Titlebar will look:
	xxxxxxx~(xx%)~Chip~xxxxxxx~(xx%)~Fast~~T:xx~L:xx~S:xx *   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Freezed ShapeShifter+
And~here's~your~	eshes~display~when~amount~of~free~memory~has~changed! new~Workbench/About
~OS~Version~	>~~ ~Kickstart~40.70,~Workbench~40.42~~~~~~~~
~Copyright~Messa	ge~->~~ ~Copyright~©~1985-1994~Commodore-Amiga,~Inc.~~  -~~~~ ~All~Rights~Reserved.~~~~~~~~~~~~~~~~~

MultiCX 17 / 40

~Cache~Status~	>~~ ~CPU:~68030,~FF >~~ ~InstCache~ON~	(Burst),~DataCache~ON	~(Burst)~~~
~Memory~Status~	>~~ ~Memory~used:~2 >~  ~Largest~free~k	21% of 22.536.192~Byt block:~11.061.448~Byt	es~~~~~  es Fast~~~~
	~~~~+		ľ
2	>~~   ~~~OK~~~~~~~~		Flush~
~~~~~Reboot	<pre>~:~just~leave~Request ~:~flush~all~inactive ~:~reboots~system,~op</pre>	e~libs,~fonts~etc. pens~confirmation~Req	
	syst		
	~~~~~ ~Wait~for~disk~		~   -+
~~~~~~~~~~~~~	~~~~~   ~~~OK~	Cancel	
~~~~~~~~~~~~~	~~~~+		-+
	bout Patches under "otes and Hints		
ToolTypes:			
		Titlebar clock to the TitleBa	r, which will
12HRS	be updated regu 12hrs clock dis	<del>-</del>	
COMPACT	enables a more	compact TitleBar (fo or a very narrow WB	
1.35 TagScreens	<b>3</b>		
TagScreens			
Do you remember th	is old goodie? ;-)		
themselves, so t promoters like M	only affect screens his should work perf lagicCX's TagScreens are not changed unles	fectly together with . Additionally all	other TagItem
ToolTypes:			
HARDPATCH	if set, NewScre	eens with TagLists ar	e also

MultiCX 18 / 40

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

## 1.36 LockPens

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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.

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ToolTypes:

LOCKPENS enable LockPens

## 1.37 FixOpenWB

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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

#### 1.38 NoCloseWB

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NoCloseWB

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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.

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MultiCX 19 / 40

ToolTypes:

NOCLOSEWB enable NoCloseWB

## 1.39 NoDisplayBeep

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NoDisplayBeep

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

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ToolTypes:

NODISPLAYBEEP enable NoDisplayBeep

#### 1.40 Drive Protection

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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!

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ToolTypes:

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

#### 1.41 LockPatch

MultiCX 20 / 40

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LockPatch

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

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ToolTypes:

LOCKPATCH

enable LockPatch

## 1.42 ShapeShifter Support

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ShapeShifter Support

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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.

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ToolTypes:

SHAPEFREEZER

enable ShapeFreezer

MultiCX 21 / 40

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

## 1.43 Opaque Windows

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Opaque Window Movement and Sizing

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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.

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#### 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

#### 1.44 Alert Timeout

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Alert Timeout OS 3.x only!

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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)

MultiCX 22 / 40

## 1.45 WBGauge

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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.

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ToolTypes:

WBGAUGE=type enable WBGauge and select gauge type (1-4),

0 means OFF

#### 1.46 Notes and Hints

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#### 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.

MultiCX 23 / 40

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:

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.

MultiCX 24 / 40

- 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... ;-)

#### 1.47 Author

Author

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E-Mail International: m\_berndt@wanderer.gun.de

1. Support BBS: WANDERER +49-211-9441293 +49-211-9441294

+49-211-9441296

147 211 7

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

MultiCX 25 / 40

Online-Menu: Support-Area

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

\_\_\_\_\_

## 1.48 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

MultiCX 26 / 40

```
- improved
                FORCENEWLOOK
                                 - fixed some bugs (only Mario Cattaneo found them \hookleftarrow
                                    ...)
2.08 (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
2.08 (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
                2.08 (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
```

MultiCX 27 / 40

```
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
```

MultiCX 28 / 40

```
- 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)
2.08 (20.8.95)
               INTERNAL BETA
                - implemented
                NOFORMAT
                 and
                LOCKPATCH
                                - improved documentation (
                PATCH_DISABLE
2.08 (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
```

MultiCX 29 / 40

```
- 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
                OPAOSIZE
                2.0 (9.9.95)
                                FIRST RELEASE VERSION
                - improved
                SHAPEFREEZER
                                - fixed bug in
```

MultiCX 30 / 40

```
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
                OPAOSIZE
                2.06 (16.9.95) PUBLIC RELEASE
                - improved
                LOCKPATCH
                2.07 (18.9.95) PUBLIC RELEASE
```

MultiCX 31 / 40

```
- 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
```

MultiCX 32 / 40

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

MultiCX 33 / 40

```
- 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
```

MultiCX 34 / 40

```
- 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
```

MultiCX 35 / 40

```
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
```

MultiCX 36 / 40

# 1.49 To do

Planned features for later versions:

- some more small patches...

## 1.50 PatchList

	Li:	st of Patches			
Name		Library	needed for		
OpenScreen,	OpenScreenTagList	intuition	SA_PENS SA_AUTOSCROLL SA_FONT LOCKPENS	(05	3.x)
			BLACKBORDER SHAPEFREEZER	,	2.x)
OpenWindow,	OpenWindowTagList	intuition	NEWLOOKMENUS WBTITLE	•	3.x)
			FIXOPENWB SHAPEFREEZER	(OS	3.x)
CloseWindow	- N. G 1	intuition	WBGAUGE		
SetPubScree		intuition	LOCKPUBFLAGS	/ O.G	2 \
SetMenuStrip EasyRequest	•	intuition intuition	NEWLOOKMENUS ASSIGNWEDGE WBABOUT	(05	3.x)
SetWindowTitles		intuition	WBTITLE WBGAUGE		
LockPubScre	en	intuition	FIXOPENWB	(OS	3.x)
OpenWorkBen	ch	intuition	FIXOPENWB	(OS	3.x)
CloseWorkBe		intuition	NOCLOSEWB		
CreateGadget	tΑ	gadtools	NEWLOOKPROPS		
WBenchToFro	-	intuition	SHAPEFREEZER		
ScreenToFro	nt, ScreenToBack	intuition	SHAPEFREEZER		
ScreenDepth		intuition	SHAPEFREEZER	(OS	3.x)
DoIO, SendIO	0	exec	NOFORMAT NOBOOTWRITE		
Format		dos	NOFORMAT		
Lock		dos	LOCKPATCH		
ColdReboot		exec	RESETHANDLER		
DisplayBeep		intuition	NODISPLAYBEEP		
DisplayAler	t	intuition	ALERTTIME	(OS	3.x)
ModifyIDCMP		intuition	WBGAUGE		

# 1.51 Legal

MultiCX 37 / 40

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.	52	Cred	dits
	~ <u>~</u>	$\mathbf{c}$	

Credits ----- MultiCX 38 / 40

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 ;-)

## 1.53 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.

Hanga

Usage -----

The syntax of the HandleCX command is:

The parameters are:

CX\_NAME name of a commodity, case-indepentent,

MultiCX 39 / 40

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 like "Hide Interface" in Exchange HIDE or H 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 <b>:</b>	MultiCX	ACTIVE	GUI
\$071460B0:	Arq 1.79	ACTIVE	NOGUI
<b>\$07146138:</b>	Magic Menu	ACTIVE	GUI
\$071461C0:	CycleToMenu	ACTIVE	GUI
\$07146248:	Exchange	ACTIVE	GUI
\$071462D0:	DynamiCache	ACTIVE	GUI
<b>\$07146730:</b>	MFS	ACTIVE	GUI
\$071467B8:	CrossDOS	ACTIVE	GUI
<b>\$07146840:</b>	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		
l	Address of Structure		
	Commodity is ACTIVE	_	
	Commodity has a GUI or n	ot	_

Verbose list format:

MultiCX 40 / 40

\_\_\_\_\_

History

1.0 - initial release

- 1.3 implemented TOGGLE option

\_\_\_\_\_\_