

Default

COLLABORATORS

	<i>TITLE :</i> Default		
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WRITTEN BY		February 14, 2023	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

Default

1.1 Main Menu

EmuCPC 0.7 (15-Sep-1996)

Introduction

Requirement

Installation

Utilities

Lite versions

Link to CPC

Bonus Disk

Where can I found CPC programs ?

History

To Do

Important

Distribution

Disclaimer

Thanks to

Author

1.2 Installation of EmuCPC

Assign CPCDISK: where your CPC Disk files could be found

That's all ?

You can now type EmuCPC and enjoy it !

When started, EmuCPC automatically try to select in current directory the CPC Disk file named 'disk'. If not found, then it try to select the CPC Disk file 'CPCDISK:disk'.

If you want to 'connect' expansion roms to it, put your binary rom into a file named EXTnn.ROM, where nn is the decimal value of the expansion rom (0 to 15) Warning, expansion rom 0 is the basic rom and expansion rom 7 is the disk rom.

If you create file with one of this number, your rom vill overwrite standard roms.

Note: Since version 0.7, some options allowed you to set up more easily all differents configurations of the emulator.

```
@{ " CLI options " LINK "CLI_options" }
@{ " Run EMUCPC on workbench " LINK "EMUCPC_workbench" }
```

1.3 Run options

CLI Usage: EmuCPC [options] [<snapshot file>]

If <snapshot file> is specified, then EMUCPC automatically load this snapshot and run it.

options

-a : azerty keyboard

-0 <delay> : wait delay after each screen refresh in 1/50 sec for mode 0

-1 <delay> : wait delay after each screen refresh in 1/50 sec for mode 1

-2 <delay> : wait delay after each screen refresh in 1/50 sec for mode 2

if a screen wait delay is not specified, it is calculated with the speed of your CPU.

-w <delay> : wait delay (to slow down EMUCPC) (0=full speed)

-d <cpc disk>: initial CPC disk to load (default='disk')

-c <cpc disk dir>: CPC disk directory (default='CPCDISK:')

-s <snapshot dir>: Snapshot directory (default='CPCDISK:')

-r <ram size> : Size of CPC ram in k bytes (64 or 128)

-b <rom file> : Bios Rom file to load (défault='bios.rom')

-e<n> <rom file> : Extension Rom file 'n' to load (n=0..15)

default: -e0 basic.rom -e7 disk.rom

-t <type> : CPC type (464, 664 or 6128)

This option overwrite the -r -b -e0 and -e7 options

1.4 Use Tooltypes !

EMUCPC use the following Tooltypes:

```

AZERTY           -> 'azerty' keyboard switch
MODE0=<delay>    -> Screen mode 0 refresh wait delay (1/50 sec)
MODE1=<delay>    -> Screen mode 1 refresh wait delay (1/50 sec)
MODE2=<delay>    -> Screen mode 2 refresh wait delay (1/50 sec)
WAIT=<delay>     -> Emulator Wait delay (0=full speed)
DISK_DIR=<dir>   -> CPC Disks directory path
SNA_DIR=<dir>    -> Snapshots directory path
DISK=<path>      -> Initial disk to load (full path name)
SNA=<path>       -> Initial snapshot to load (full path name)
RAM_K=<ram_size> -> CPC Ram size in k bytes (64 or 128)
BIOS=<rom_file> -> Bios Rom file to load
EXT<n>=<rom_file> -> Extension Rom file 'n' to load (n=0..15)
CPC_TYPE=<type> -> CPC Type {464|664|6128}, this tooltype
                  overwrite options RAM_K, BIOS, EXT0 & EXT7

```

You can use this Tooltypes in the EMUCPC icon or in a project icon (see Def_SNA.info). When you launch a project icon, EmuCPC first look for tooltypes in tool icon (EmuCPC.info), then look for tooltypes in project icon. So, you don't need to re-specify all the tooltype of the tool icon.

1.5 Lite versions

This following executables are a little more faster than the complete version, but with some disabled options.

```

EmuCPC64k        Doesn't implement the extension ram (+3.5%)
EmuCPC128KLite   Simplified multi-resolution (+8.7%)
EmuCPC64kLite    No extension ram & simplified multi-resolution (+12.9%)

```

1.6 Requirement

An @{ " Amiga " LINK "Amiga" }

Kick 3.0+

MC68EC020+ (accelerator and fastram recommended)

You need at least the reqtools.library >= 38.1266

1.7 Distribution of EmuCPC

This program is copyright (c) 1994-1996 by
Stephane TAVENARD

It may be distributed freely under the condition that no profit is gained from its distribution, nor from any other program distributed in the same package.

Permission is granted to distribute this package by Bulletin Board systems or network sites, under the condition that no fee is charged on downloading it.

All files that are part of this package have to be distributed together and none of them may be changed in any way other than archiving or crunching. The only exception to this rule are the icons, including the tooltypes, which may be changed to accommodate them to the rest of the disk it is distributed on.

This program is distributed as freeware.

1.8 IMPORTANT

```
*****
*
*   The ROM images are copyright by Amstrad and Locomotive software
*
*
*****
```

1.9 Utilities of EmuCPC

CreateCPCDisk: Create an empty CPC Disk file (data format)

ListCPCDisk: List the content of a CPC Disk file (like basic CAT)

ReadCPCFile: Read file(s) from a CPC Disk file and copy them to current dir

WriteCPCFile: Write file(s) to a CPC Disk file

LoadCPCDisk: Load your old 3' CPC Disk to Amiga !

ConvertCPCDisk: Convert the CPCEMU disk files (.DSK) in EmuCPC disk format.

Other Utilities

1.10 Transfer a 3' Disk to your Amiga !

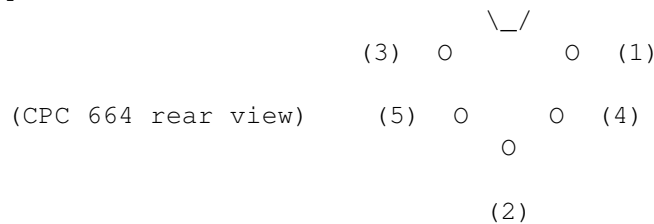
How to copy your old 3' Disk to your Amiga ?

1) Send PARDISC.BAS to your old CPC (on side 0 of bonus disk)

EMUCPC is able to emulate the TAPE SAVE command with help of Amiga audio hardware. You just need to make a cable from any 'headphone' output of amiga (like hifi amplifier) to the CPC tape connector.

```
Amiga audio -----> CPC Tape in (pin 4)
GND               -----> CPC Tape GND (pin 2)
```

The CPC Tape connector look like:



```
1 & 3 -> TAPE motor control relay
2 GND
4 Tape in
5 Tape out
```

To send 'PARDISC.BAS' to your old CPC:

```
on old CPC type: |TAPE
                 LOAD""
```

-> Your old CPC is waiting for something from a tape now

on EMUCPC type:

```
LOAD"PARDISC"
|TAPE
SAVE"PARDISC"
```

-> EMUCPC is going to send the file to your old CPC via audio !

If it doesn't work, check:

- the output level of your 'headphone' is too low or too high.
- your Amiga is too fast, so disable some cpu cache to slow the EMUCPC emulator or increase the wait delay.
- You can rewrite the whole 'PARDISC.BAS' program by hand ! :-)

2) Make a special parallel cable

In order to copy a CPC 3' disk to Amiga, you need to connect your old CPC this your Amiga via parallel ports.

This cable look like this (9 wires):

CPC (PRINTER PORT)		AMIGA (PRINTER PORT)	
PIN	SIGNAL	SIGNAL	PIN
(1)	STROBE ----->	BUSY	(11)
(2)	D0 ----->	D0	(2)
(3)	D1 ----->	D1	(3)
(4)	D2 ----->	D2	(4)
(5)	D3 ----->	D3	(5)
(6)	D4 ----->	D4	(6)
(7)	D5 ----->	D5	(7)
(11)	BUSY <-----	D7	(9)
(14)	GND ----->	GND	(25)

The CPC printer connector is a 2x17 pin connector, the CPC 664 rear view is:

```

17 16 15 14 13 12 11 10  9  8  7  6  5  4  3  2  1
-  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -
-  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -
34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18

```

The Amiga printer connector is a DB25 connector, the Amiga rear view is:

```

13 12 11 10  9  8  7  6  5  4  3  2  1
[] [] [] [] [] [] [] [] [] [] [] [] []

[] [] [] [] [] [] [] [] [] [] [] [] []
25 24 23 22 21 20 19 18 17 16 15 14

```

3) Use some software

- On your Amiga run 'ParLoadCPCDisc'

- On your CPC run 'PARDISC.BAS'

That's all ?

1.11 Bonus Disk

EmuCPC comes with a CPC Disk file named 'disk'.

Side A:

SORCERY Game (You don't know it ?)

BOMBJACK Game
 TMS Music editor (4 songs on disk)
 SPEED Utility (run it to evaluate the emulation speed vs a real CPC 664)
 PARDISC Utility (Transfer your old CPC 3" disk to your Amiga !)

Side B:

ARKANOID Game
 BATMAN Game (no comment)
 BOULDER Game (boulder dash !)
 FRUITY Game (a CPC classic)
 GRAPH Math utility (one of my CPC programs)

1.12 Where can I found CPC Programs ?

There are lot of FTP or WEB sites where we can found snapshots or CPC disk .
 I recommend you the FTP site <ftp.nvg.no/pub/cpc> with pratically all the CPC games.

1.13 History of EmuCPC

V0.2B	17-Mar-1995	First beta release (not public)
V0.4B	02-Jan-1996	First aminet beta release - Emulate CPC664 - Handles snapshot files (A-CPC, CPCEMU and CPE ↔ compatible format)
V0.5	03-Mar-1996	Second aminet release - New Screen refresh algorithm (speed up with acc. board ↔ + fastram)
V0.6	12-May-1996	Third aminet release - Utility to copy your old CPC 3' disk to Amiga ! - Tooltypes supports & more options - Programmable wait delay (for faster CPUs)
V0.7	15-Sep-1996	Fourth aminet release - Handle 128k Ram CPC (CPC6128) - Multi-resolution screens - Improved Z80 & CPC Hardware emulation

1.14 To Do

. CPC664 BIOS routines 680x0 coded ? (all of the Z80 rom code is emulated)

1.15 Thanks to

- Kevin Thacker for its A-CPC emulator doc about snapshot files formats.
- Nico François for its great reqtools library.
- John Girvin for the cpc disk converter.

- Dámaso Domínguez Estévez for its spanish translation of EmuCPC.guide
- All other CPC fans.
- @{" Amiga " LINK "Amiga" }, the best computer never made.

1.16 Disclaimer

This package is provided "as is" without warranty of any kind. The author assumes no responsibility or liability whatsoever for any damage or dataloss caused by using this package.

1.17 Introduction to EmuCPC

This is an @{" Amstrad " LINK "Important" } CPC 464/664/6128 emulator ;-)

Main features:

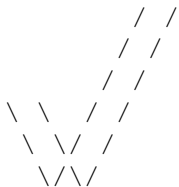
- Full Multitasking (why not...)
- Emulates sound
- Emulates the #?@*% CPC floppy disk drive (one file = one 3' disk)
- Emulates multi-resolution screens
- Handles snapshot files (A-CPC, CPCEMU and CPE compatible format)
- Some utilities to handle disk files

This emulator has been developped on A1200/A1230TurboI/68882/40MHz/4MoFastram, the relative speed vs real CPC 664 is 0.85 (a little bit slower)
Now, happy owner of a A1200/Blizzard 1260/64MHz/16MoFastram, I assume the total compatibility with 68060 CPU, and I've just noticed that the relative speed vs real CPC664 is 5.5 (a little bit faster) :-)

1.18 Other Utilities for EmuCPC

cpconv V1.01: various cpc disks formats converter by John Girvin, can be found on aminet: misc/emu

1.19 About me !



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Note: It's the Email of my brother Raphaël (I'm not connected yet !) ;-(

1.20 My Friend

```
===== |T
| ~~~~~ | [
| _____ | [
| I == _____ . /' _ . _ T |
| |[_j L_I_I_I_I_j L_I_I_I_I_j /|/V|| (g/| == l |
| I _____ I ]
| [_____] [_____] |
| [_____] I _____ [_____] |
| [_____] _____ [_____] |
| [_____] [_____] [_____] |
| [_____] I L ] |
| | |
|_____ j
```