

PC2Amiga

COLLABORATORS

	<i>TITLE :</i> PC2Amiga		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY		July 20, 2024	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

PC2Amiga

1.1 main

```
PC <--> AMIGA TRANSFERER  
VERSION 3.4  
USER DOCUMENTATION
```

For users of old version of PC2Amiga

About, requirements, future, legals

How to install & run program

Miscellaneous notes (not bugs)

Bugs and troubles

Author

1.2 menu1

```
About (Purpose)  
Requirements  
Results  
Files in the package
```

```
Legal stuff  
History
```

```
Planes for future  
PC2Amiga maillist  
Betaversion site
```

1.3 menu2

Cables
Instalation
Running program

Controlling program
Configuring program

1.4 menu3

Used conversions
PC2Amiga under misc. systems
Using PC's printer
PC Programs notes

1.5 menu4

Tips & Hints
Trouble shooting
Known bugs & problems

1.6 important

IMPORTANT CHANGES THAT MAY CONFUSE OLD USERS

- Amiga program is made commodity. So no window will appear after its startup.

- New version uses config file. Command line parameters are no longer used and they are ignored, so your scripts (if you made some) won't work. Run the PC2AMCFG program to set up PC part.

- Be sure to remove old .COM files before you are installing a new version.

1.7 purpose

PROGRAM PURPOSE & ABOUTS

Have you ever transfered something between Amiga and PC? You have three ways how to do it:

1) "floppy net" - copy file to a DD disk in the MS-DOS format and read it by the Amiga

2) Use TWIN or EasyLink. But it has a big disadvantage - it can transfer file, but it does not allow applications on Amiga to directly access PC's drives - it's not a filesystem.

3) Use terminal programs and ZMODEM (or another) file transfer protocol. Disadvantage? As above.

So I decided to write my own filesystem with this feature.

This program uses the master-slave technique (Yes, PC is the slave :-). Transfers are fully independent (it is called the non-context protocol), so if you write "type pc:c/LongFile.txt" and after some time reset PC and run the PC part again, the text will continue scrolling.

P.S.: Feel free to mail me your opinions and/or bugreports and/or suggestions and/or greetings - I would appreciate some feedback :-)

1.8 requirements

REQUIREMENTS

An Amiga with system V 2.0 or higher, a PC with MS-DOS version 6.0 or higher. Both computers must have serial or parallel ports connected with proper cable.

(Actually, PC2Amiga has not been tested on 2.0 very much).

1.9 results

TRANSFER RATES

Average effective transfer rates (for about 0.5MB file). It means when you will copy a file, divide its length by this number and you will get real amount of time it will take to transfer it.

Cable [, Rate]	Direction	Src	Dst	Speed [KB/s]
----------------	-----------	-----	-----	--------------

A1200, Turbo (EC030/40Mhz) <-> 486DX2/80Mhz

4-Wire LapLink	AMIGA -> PC	RAM	HD	35.1
4-Wire LapLink	PC -> AMIGA	HD	RAM	19.5

A500/7Mhz <-> PC 386SX/40MHZ

4-Wire LapLink	AMIGA -> PC	HD	RAM	18.5
4-Wire LapLink	PC -> AMIGA	HD	HD	11.3

Almost all Amigas (serial)

+-----+-----+-----+-----+-----+					
Serial, 57600	AMIGA -> PC	HD	NIL		4.9
+-----+-----+-----+-----+-----+					
Serial, 57600	PC -> AMIGA	HD	HD		4.8
+-----+-----+-----+-----+-----+					

1.10 files

PACKAGE TREE

```

PC2Am (dir)
  L (dir)
    pc2am-handler
  Storage (dir)
    DOSDrivers (dir)
      PC
      PC.Info
  DEVS (dir)
    PCEntry
  Libs
    igs.library
  PutToPC (dir)
    PC2AMIGA.EXE
    PC2AMRES.EXE
    PC2AMDEB.EXE
    PC2AMCFG.EXE
    PC2AMANA.EXE
  Install
  Install.Info
  PC2Am.guide
  PC2Am.guide.info
  PC2AmProblems.guide
  PC2AmProblems.guide.info
  PC2Am.Info

```

1.11 instalation

HOW TO INSTALL THE PROGRAM

Run the install program (Installer required) or copy the files to your directories. But in both cases you have to copy a PC part to PC by floppy , Twin or a terminal program . See PC part notes for more info about PC part files.

This program can use both parallel or serial port to transfer data. With different ports and cables you will get different speeds .

1.12 howtostart

HOW TO START

Configure both sides.

Run program (PC2AMIGA.EXE) on PC and mount device on Amiga. Now you can access PC drives via logical device "PC:". In the main PC: directory there are PC devices stored as directories. So if you want to type file "autoexec.bat" on your PC's C: drive, write type pc:c/autoexec.bat. But the best test if handler is working, type list pc:. It should show all drives that you have on PC.

When you want to access PC devices directly, you may create assigns e.g., "assign PCC: PC:C". (But you must remove them before you exit the handler.)

See also PC part notes for info about PC and Instalation for instalation details.

It is the best to start the not-resident version (PC2AM_NR.EXE) for the first time you run PC2Amiga. It is safer.

1.13 pcnotes

PC PART NOTES

There are two copies of the PC software (PC2AMIGA.EXE & PC2AM_NR.EXE). First is resident but it is not able to remove itself. The PC2AM_NR.EXE file is not resident but may be quit by pressing the BREAK combination or quitting the Amiga part - see Controlling program .

There is also another copy, that is fully working, but prints annoying debug info. t is used when things doesn't work.

1.14 control

Program is commodity and its interface can be popped up by any commodity controller (exchange) or by hotkey (configured in the ConfigPC2Amiga script.

Window contains following gadgets:

Hide - Hides interface

Info - Shows info about transfers

About - Shows copyright information

Abort - Aborts current action. Use it when it seems to be impossible to transfer the packet. WARNING: This command is supposed to be safe only when canceling the attempt of establishing connection. Cancel when doing some

action (opening, reading) may cause unpredictable results. (But does not in the most of cases.)

NOTE: There may be delay between this command and the "CANCELING ACTION" message because handler takes a care of it only when it starts reading from the serial/parallel.

Quit - Will quit handler. All locks to it must be unlocked. After successful 'death' run the 'assign pc: dismount' command to unmount device. Then you can mount it again (e.g., when you have changed the configuration).

NOTE: There may be delay between this command and real quit because handler takes a care of it only when it waits for the packet from DOS.

1.15 config

Amiga
PC

1.16 confamiga

Amiga handler is configured via mount receipt in the DEVS:Dosdrivers/PC file. However, I wrote a configuration script for installer, so I advice you to configure PC2Amiga this way.

In the script, there is always some help under the "Help" gadget.

1.17 confpc

PC side's configuration is stored in the 'PC2Amiga.cfg' file. This file is binary and may be changed using the 'PC2AmCfg.exe' program. This program will pop up some menus, no problem here.

SOME HELP ABOUT THE MENUS

First, you have to select device to communicate via.

If you are using serial port, you must choose IRQ. This is the IRQ the selected port is using. The usual value will be active when the menu is popped, so you have to change it only when program does not receive interrupts. Note that the program does not try to determine which interrupt is the port using. It just shows the most usual value.

If you are using serial port, you must also specify speed.

1.18 conversions

Filename conversion
Protection bits conversion
Date conversion
Error conversion

1.19 filenameconv

FILENAME CONVERSION

You may select when configuring the PC part if you wish to use this conversion.

First part of filename (till first . or /) will be truncated to eight chars if it's longer. Last file of name (after last ., if it exists) will be truncated to three chars.

Example: filename "blablabla.ugh.woodpecker" will be converted to "blablabl.woo"

Note: filenames that don't have the first part (most usual ".backdrop") will not be converted and open or lock call will fail. This is because of MS-DOSS's impossibility to have file with empty first part of name.

1.20 protbitsconv

PROTECTION BITS CONVERSION

PC -> Amiga conversion.

R - converted to W and D amiga flags, because it has both effects on PC

H - This flag is converted to Amiga's H flag, although it has no effect.

S - Ignored

A - Converted to A

Amiga -> PC conversion

H - Converted to H

S - Ignored

P - Ignored

A - Converted to A

R - Ignored

W - Converted to R

E - Ignored

D - Ignored, because MS-DOS is unable to make writable but not deletable file. (Does anyone know system except Amiga which could do it ?)

1.21 dateconv

DATE CONVERSION

Works, but there are little problems with Amiga files dated between 1-Jan-76 and 1-Jan-80, because PC cannot have file with this date.

1.22 errconv

ERROR CONVERSION

Error codes are slightly incompatible, so don't wonder when you get inadequate error message. When a drive on PC is empty or unreadable, the DOS error requester will appear in both cases. This happens because it is almost impossible to recognize whether the drive is empty or the disk in it is unreadable without direct drive access (reading a track). Write protected floppies causes usual error requester.

1.23 hints

TIPS AND HINTS

- If you mount device automatically at startup, it is a good idea to set the ACTIVATE tooltype and the Activate entry in the mountlist to 0. It will cause system to load and run handler when it is used for the first time and not when it is mounted. But this is not necessary under WB 2.0, because it does not automatically activate mounted devices.
- If you turn off PC, disconnect computers or exit device on Amiga and type the "avail flush" command unless your system will become slow. It is a "feature" of serial.device, not mine.
- For troubleshooting, read this .

1.24 bugs

KNOWN BUGS AND PROBLEMS

- Although PC2Amiga does not require 7-wire cable (RTS/CTR handshaking), some serial devices (baudbandit) are not able to turn it off, so it won't work with just 3-wires.
 - Renaming directories does not work - MS-DOS is unable to do it.
 - Cannot be used with the 'baudbandit.device', because it doesn't support SCMD_BREAK. (I resourced it and added the "break" command. But it is still not able to work on 115200 on A500 - just 57600.)
 - Notification does not work well with DirectoryOpus. It seems OK from me, but I'll have a look at it again.
 - Returned disk size (and free bytes) is inadequate (it's always the same).
 - Error requesters (Disk is write-protected etc.) doesn't work when PC side ran as a TSR. I suppose it will never work (MS-DOS is a very dirty system).
-

- Printing redirection does not work well with Amiga TeX.
- You cannot lock "pc:prn" etc., so you can't "copy" anything to it (just "type", but it damages binary files). I will improve it.

1.25 planes

PLANES FOR FUTURE

General:

- Write communication routines using another parallel cables that LapLink. I wanted to write routines for some common cable first. Now I realized it was right decision, because now I know which way to go.
- Support long filenames. I will have to rewrite PC part to C and compile it under miscellaneous systems, if possible.

Amiga:

- Divide Amiga part to controlling commodity and the filesystem itself. Commodity will have its own configuration file and it will use MUI.
- Add option that would cause PC2Amiga to make volume for every PC drive. But there will be problems: Whenever a new volume appears, WorkBench tries to open '.backdrop' file from it. And if I added volume for PC's floppy drive, it would end with the 'No disk present in disk PCA:' requester.

PC:

- Configurable buffer size (file will not contain 17KB of junk).
- Special client for Windows (see second 'General plan')

1.26 legal

LEGAL STUFF

This product is freely distributable as long as the archive goes unchanged. It can be included in any non-profit shareware or similar program package without specific permission from the author, but if you do so, please let me know.

The program is provided AS IS, without warranty of any kind, all use is at YOUR OWN RISK. Author is not responsible for ANY data lost or damaged by this software.

PC2Amiga is freeware. You don't have to pay for it. But if you found it useful, you can send me anything you consider as a support for its further development (I would greatly appreciate some more time, if you have any :-).

1.27 author

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(My name is really 'Michal', not 'Michael')

My thanks goes to:

- Johan Eliasson and Eivind Mikkelsen for beta testing and ideas
- Petr Cisar (PCSoft) for ideas and moral support :-)
- Pavouk for hardware support
- Pavel Troller (patrol) for help with testing.
- Stefan Walter for his SIM (Sistem Independent Monitor) which helped me very much with debugging
- All people who sent me ideas and bugreports

1.28 pc2am-handler

This is the main part - filesystem. Written in pure asm.

1.29 mountreceipt

Tells the mount command how to mount the device. Also used for configuration purposes - see Config/Amiga .

1.30 pc2amiga.exe

Not resident PC 'slave' program. See also PC part notes .

1.31 pc2amres.exe

Resident PC 'slave' program. See also PC part notes .

1.32 pc2amdeb.exe

This one is used when there are problems with running PC2Amiga. It is fully working version, but it has turned on debugging output. The output is then passed to PC2AmAna .

1.33 pc2amana

Analyses output from PC2AMDEB . Tries to determine what's wrong. Then prints resultcode, which is used in PC2AmProblems.guide TroubleSh}.

1.34 igslibrary

This is my own library that makes use of intuition and gadtools much easier - you just point to extended gadtools' gadget structure that contains pointers to routines and call igsOpenWindow or igsOpenWindowTags. Then you call the igsHandleGMsg function and it will call routines according to gadgets... All is tracked - when you close the library, it will be automatically closed too.

List of routines (from autodoc):

TABLE OF CONTENTS

- igs.library/igsAddTracker
- igs.library/igsAlert
- igs.library/igsCleanup
- igs.library/igsCommandItemAddr
- igs.library/igsControlMsgs
- igs.library/igsCreateGadgets
- igs.library/igsCreateGadgetsDefs
- igs.library/igsEasyRequest
- igs.library/igsEvaluate
- igs.library/igsEvaluateError
- igs.library/igsFreeTracker
- igs.library/igsGetIDCMP
- igs.library/igsHandleGMsg
- igs.library/igsItemAddr
- igs.library/igsMultiRequest
- igs.library/igsOpenScreen
- igs.library/igsOpenScreenTagList
- igs.library/igsOpenWindow
- igs.library/igsOpenWindowTagList
- igs.library/igsPrintErr
- igs.library/igsSetCleanupRoutine
- igs.library/igsSetMenu
- igs.library/igsSimpleRequest
- igs.library/igsStoreGetIDCMP
- igs.library/igsStoreWaitIDCMP
- igs.library/igsText

igs.library/igsWaitIDCMP

Support for C is also available. This library is not on Aminet. If anyone interested, mail me .

1.35 installscript

Script for the CBM's Installer . See also Instalation .

1.36 installer

An instalation utility by Commodore. Can be got from any aminet site e.g., ftp.luth.se.

1.37 history

Version 3.4 (19-Feb-96) (public release)

- Parallel routines made more reliable on fast PCs connected with A1200
- Fixed occasional hazards in parallel routines (not very serious)

Version 3.3 beta (29-Jan-96) (beta release)

- Hotkey is configurable from now.
- Volume node is now added after connecting, WB no longer locks on startup.
- Doc and config script updated

Version 3.3 alpha (1-Jan-96) (alpha release)

- Some minor changes in behavior, mostly because PC2AmParallel.device returns error on timeout, but standart serial.device not.
- When unsuccessful in transferring (four timeouts without success etc.), brings up a request.
- Can be be popped up by CTRL LALT 2.
- Written PC2AmParallel.device, written PC parallel routines

Version 3.2 (15-Dec-95) (public release)

- The message 'Cannot open xxx.device unit n' is now printed correctly
- RTS/CTS requirement removed, can be used with 3-wire cable now (see problems).
- Configuration script now copied into C:
- Main guide divided into four sections to be more lucid.
- Long filenames support added.
- Further changes in serial routine (on PC). Now it can run on 115200 without problems.

Version 3.2 beta (26-Nov-95) (beta release)

- Fixed bug that caused bad printing of messages with some versions of exec.library.
 - Added possibility of using all IRQs from 2 to 7 no matter for which port.
 - Fixed nasty bug I've been hunting for from the beginning, that caused
-

- program to not work on IRQs other than 4 (i.e. COM2, ...).
- Added debugging, written PC2AmigaProblems.guide, written PC2AmAna.
- Some further changes in serial routines.
- A brand new icon set

Version 3.1 beta (29-Sep-95) (beta release)

- Added possibility of slowing down PC->Amiga but not Amiga->PC transfer (just a trial staff, not available for public).
- PC serial routines rewritten to get enough speed performance on slower PCs
- Fixed bug that caused crash of Amiga handler when it was restarted.

Version 3.0 alpha (14-Jul-95) (beta release)

- Program made commodity
- Gopher-like and Background progress indicators implemented
- PC receive interrupt routine rewritten to be faster
- Configuring via config file
- A bug in filename conversion fixed - it badly converted names like 'pc:c/dbase.dat/'. (To the one who reported it: Sorry, I lost your name, e-mail me please).

Version 2.4 (4-May-95) (public release)

- Bug that caused impossibility of reading from write-protected files fixed.
- Locking using the exclusive mode no longer sets file size to 0 (This most often happened when adding to an archive on the PC by LHA)
- Now programming also FIFO register on PC, so I think problems with impossibility to get connection after running TWIN (and other too) are solved.

Version 2.3 beta (internal release)

- More than one char device names on PC allowed - now you can use pc:prn for printing via PC.

Version 2.2 (26-Mar-95) (first public release)

Version 2.2 beta (1-Mar-95) (beta release)

- Feature that caused DOpus to re-read directories every time removed
- Notification support added
- Delete and Rename now tests if object is locked
- Minor changes in this guide
- Added progress indicator (LED)
- File transfer slightly rewritten so that you are able to reset PC and re-run PC side when transferring without losing any data
- Startup packet added
- PC2Amiga's second task's priority is now -1
- Not resident version of a PC software is now quited when you quit Amiga part
- Not resident version lists files as quick as the resident one

Version 2.1 beta (25-Feb-95) (beta release)

- Bug that caused crash when changing date with DOpus fixed (wow !!!)
- Fixed some problems with creating directories

Version 2.0 beta (20-Feb-95) (beta release)

- Written installer script
 - Doc rewritten to the AmigaGuide format
-

- Communication packetized
- Added checksums
- Added timeouts
- Added output window and possibility of controlling from it
- Bug that caused assigns don't work fixed
- PC part made also as a resident
- Configurable (speed and comm) PC part
- Configurable speed, packet size and timeouts

Version 1.1 beta (End of Jan-95, unreleased)

- Added possibility of using another device than serial (via mountlist)

Version 1.0 (Jul/Aug-94, unreleased)

First version: no packets, no timeouts, no checksums, no config, ...

1.38 copyfloppy

Format a DD floppy disc on the PC ("format A: /F720") and then mount the PC0: device on Amiga. Copy desired file(s) to this device and then read it by PC. You may also use HD disk, but you must have a HD drive in your Amiga.

1.39 copytwin

Download the package (I think it is on the Aminet) and copy it using this program.

1.40 copyterm

Connect PC and Amiga with serial cable and run a terminal program on both machines. Select "download" on PC and then "upload" on Amiga.

NOTE: Be sure you have chosen the same protocol and speed on both machines. And please note that there may be incompatibility between PC and Amiga protocols. (I recommend you ZMODEM, it is the best available protocol I know.)

1.41 cables

To decide which cable will you use, you can see transfer speeds .

PARALLEL CABLES

4-Wire LapLink

SEAIAL CABLES

NullModem
Three-wire

1.42 laplink4

LAPLINK

Four-wire parallel LapLink cable is also known as parallel-nullmodem cable. It can be bought in computer store (it is commonly used between PCs, e.g., Microsoft InterLnk/InterSvr can use it).

=== AMIGA ===		===== PC =====
25PIN	SIGNAL	SIGNAL 25PIN
02	D0 <->	~ERROR 15
03	D1 <->	SEL 13
04	D2 <->	POUT 12
05	D3 <->	~ACK 10
06	D4 <->	BUSY 11
10	~ACK <->	D3 05
11	BUSY <->	D4 06
12	POUT <->	D2 04
13	SEL <->	D1 03
15	NC <->	D0 02
24	GND <->	GND 24
25	GND <->	GND 25
SHIELD	<->	SHIELD

For those of you, who does not like characters, I've got a graphic scheme , but this link works only on 3.0+. If you don't have an A1200, look at the file PC2Am/Doc/LapLink4.iff manually.

Connector is always 25-pin female.

1.43 nullmodem

NULLMODEM CABLE

Cable can be bought in a computer store or made from a 7-wire (or more-wire) cable and 2 connectors. You will find below how the different signals are wired along with the pinout in use on cable connectors having 9 or 25 pins:

=== AMIGA ===		===== PC =====
25PIN	SIGNAL	SIGNAL 9PIN 25PIN
07	GND <->	GND 05 07
02	TD <->	RD 02 03
03	RD <->	TD 03 02
05	CTS <->	RTS 07 04
04	RTS <->	CTS 08 05
06	DSR <->	DTR 04 20
20	DTR <->	DSR 06 06

On Amiga there is always 25-pin connector.
 On PC you may have either 9-pin or 25-pin connector.

1.44 threewire

3-WIRE SERIAL CABLE

This is especially useful for long-distance transfers. But it cannot be bought (I think) and there may be also some problems when used with not-standard serial device.

=== AMIGA ===			===== PC =====	
25PIN	SIGNAL		SIGNAL	9PIN 25PIN
07	GND	<->	GND	05 07
02	TD	<->	RD	02 03
03	RD	<->	TD	03 02

On Amiga there is always 25-pin connector.
 On PC you may have either 9-pin or 25-pin connector.

1.45 printing

HOW TO PRINT ON PRINTER CONNECTED TO PC VIA PC2AM

A guy (sorry, I forgot who was it) suggested to learn my "network" to print on printer connected to the remote computer. I didn't want to do this, because PC2Am is a filesystem and not real network. But then I realized that it is simple. The solution is to make "devices" on PC such as CON, AUX, COM and PRN accessible from Amiga.

So if you write "Type TextFile.txt to pc:con", you will see the text scrolling on the PC's console. You may even type "Type pc:c/autoexec.bat to pc:con" which will type on PC it's own autoexec.bat. But how to print the files:

If you want to print a text file, type "Type ThatFile to pc:prn".

If you want to print binary file, don't use copy - it will fail. The "pc:prn" device cannot be locked (yet). So the only way how to print something another than a text is to redirect the parallel device using the CMD tool (it is on WB disk, call it "sys:tools/CMD parallel pc:prn") and then print it (e.g., from Multiview if you want to print the picture).

WARNING: Don't play with reading from PC devices, it can lock up the PC side (e.g., never type "type pc:aux") !!!

1.46 troublesh

TROUBLE SHOOTING

As I got many letters from people that PC2Amiga doesn't work and because it is very hard to debug, I have written a whole guide of PC2Amiga troubleshooting. It asks you questions and you answer by clicking on buttons. It also uses the PC2AmAna program to process debugging output, which may tell what's wrong.

If you click [here](#) , you can look at it.

1.47 systems

Amiga
Linux
Mac (Apple)
MS-DOS
OS/2
Windows (MS-DOS 7.0)

1.48 amiga

I'm not thinking about writing a client for Amiga. ParNet, SerNet or ParBench are better, because they don't have to bother with inter-system problems.

1.49 mac

No serious information available. It should work under some emulator, but maybe you will have some trouble making cable (MAC does not use RS-232).

1.50 ms-dos

PC2Amiga has been developped under MS-DOS, so there should not be a problem. I repeat that it requires version 6.0.

1.51 windows

Betatesters reported that PC2Amiga works under Windows 95 without problems, but just the not-resident version.

When running under Windows 3.x, there's a problem, because my task cannot get interrupts unless its window is activated...

1.52 linux

It can be run under Linux, but you must use MS-DOS emulator. I tried it by myself. It works even better than under a real MS-DOS :-). Of course, there is a problem with accessing files that are under Linux.

1.53 os2

Eivind Mikkelsen reported that the non-resident version works well under OS/2.

1.54 maillist

PC2AMIGA MAILLIST

There is a maillist for PC2Amiga that is run by one of PC2Amiga users. It is not very active yet, because almost no one knows about it. I want it to be both PC2Amiga news maillist (sent by me) and discuss forum about PC2Amiga problems and future.

The maillist address itself `pc2amiga@megalith.miami.fl.us`, send messages there.

Address for subscribing/unsubscribing and getting infos is `pc2amiga-request@megalith.miami.fl.us`. If you want to subscribe, send message with the text:

ADD YourEmailAddress

in the body. Replace the text `YourEmailAddress` with your real e-mail address you want to send maillist messages to. If you want to get help on the list, send message with the word `HELP` in the body (adjusted to the left margin, like previous example).

1.55 betas

WHERE TO GET PC2AMIGA BETAVERSIONS

Before I make it available to public, I put up new versions to our local anonymous ftp site for betatesters. In the PC2Am directory there is always last released and last beta version. In the most of cases, betaversion is just an update only containing updated files.

WARNING: BETAVERSIONS MAY NOT WORK ON YOUR COMPUTER EVEN WHEN OLDER VERSIONS WORKED OK. KEEP ORIGINAL ARCHIVE. USING BETAVERSIONS IS AT YOUR VERY OWN RISK.

The anonymous site is `k332.feld.cvut.cz`, PC2Amiga files are in the directory `pub/local/lemming/PC2Am`.
