Getting Janus-UAE coherence mode working

“quick” guide

http://sourceforge.net/projects/janus-uae/

http://o1i.blogspot.com/

1 Install

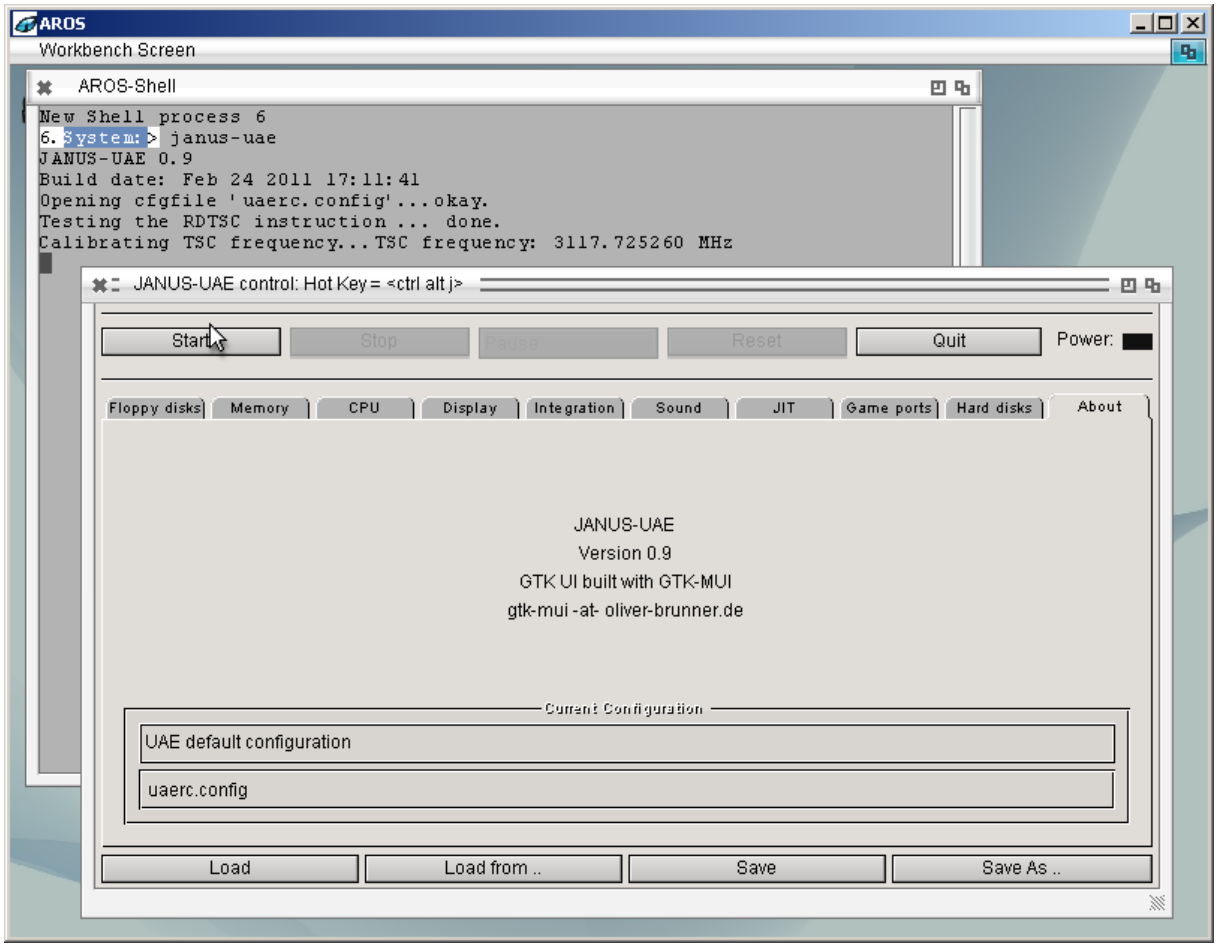
Get the janus-uae.tar.gz from the aros-archives:

http://archives.aros-exec.org/share/emulation/computer/janus-uae.i386.tar.gz

and extract it in your AROS environment. I used “sys:test” for it.

2 First time launch

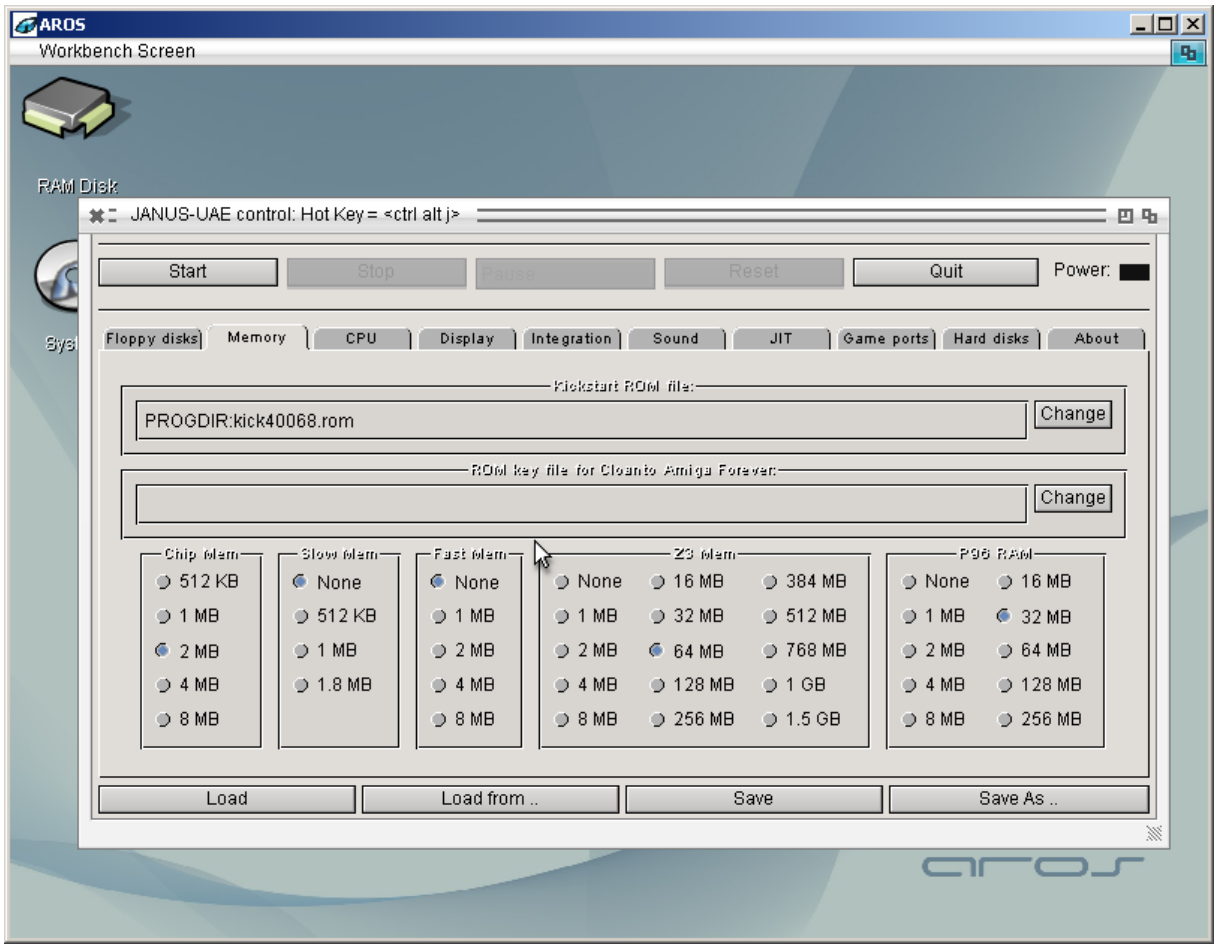
You should find the janus-uae executable in the aros folder of the archive. Now just launch it ;). The archive contains no icons, so you might have to start it from the CLI:



3 Config

The uaerc.config file in the archive already has a lot of the required settings done, but you should at least check and change the following:

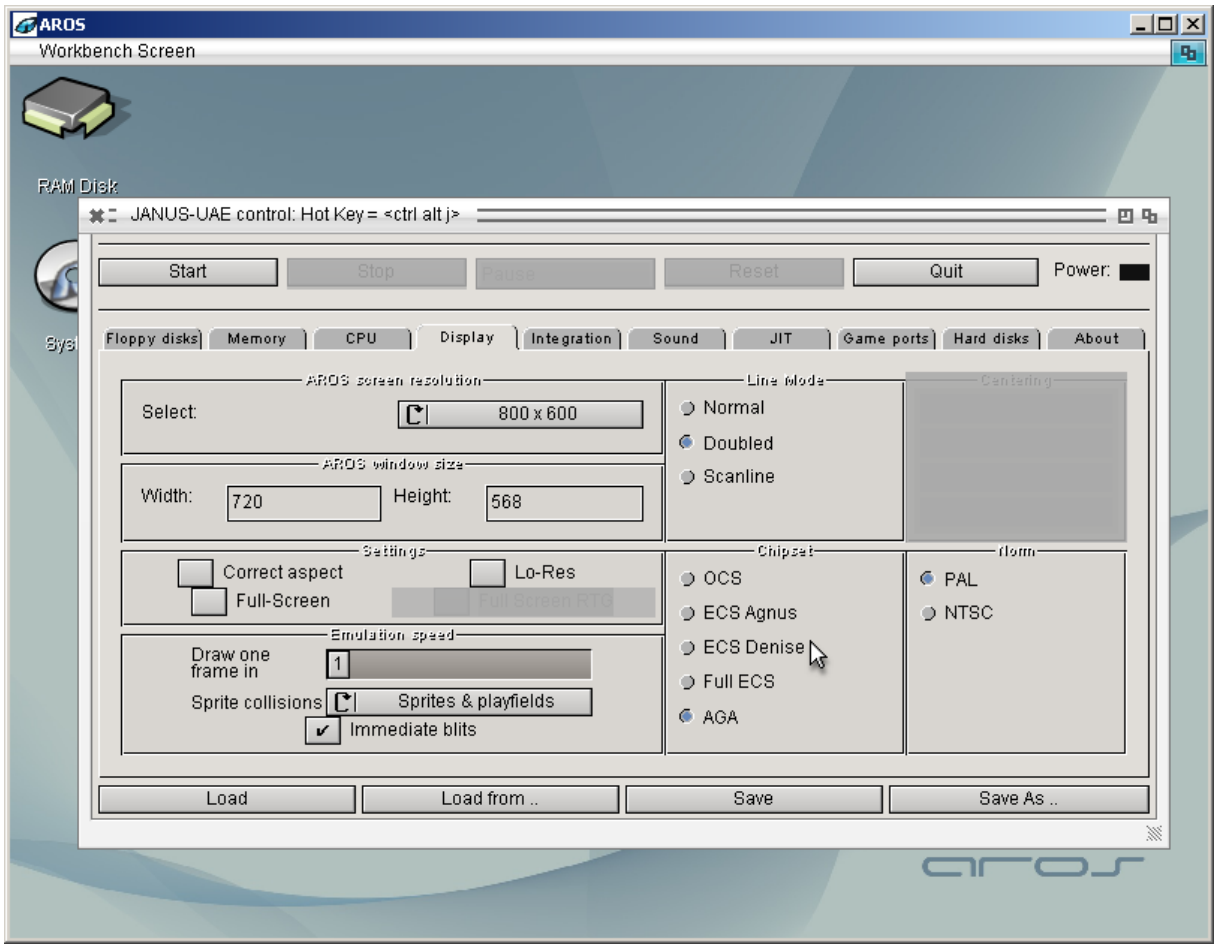
3.1.1 ROM



Please select an os3.1 kickstart rom file with the “Change” button. You can rip it from an old Amiga or get it from Cloanto. Google can help you with that. I got mine from C=, back in the old days.

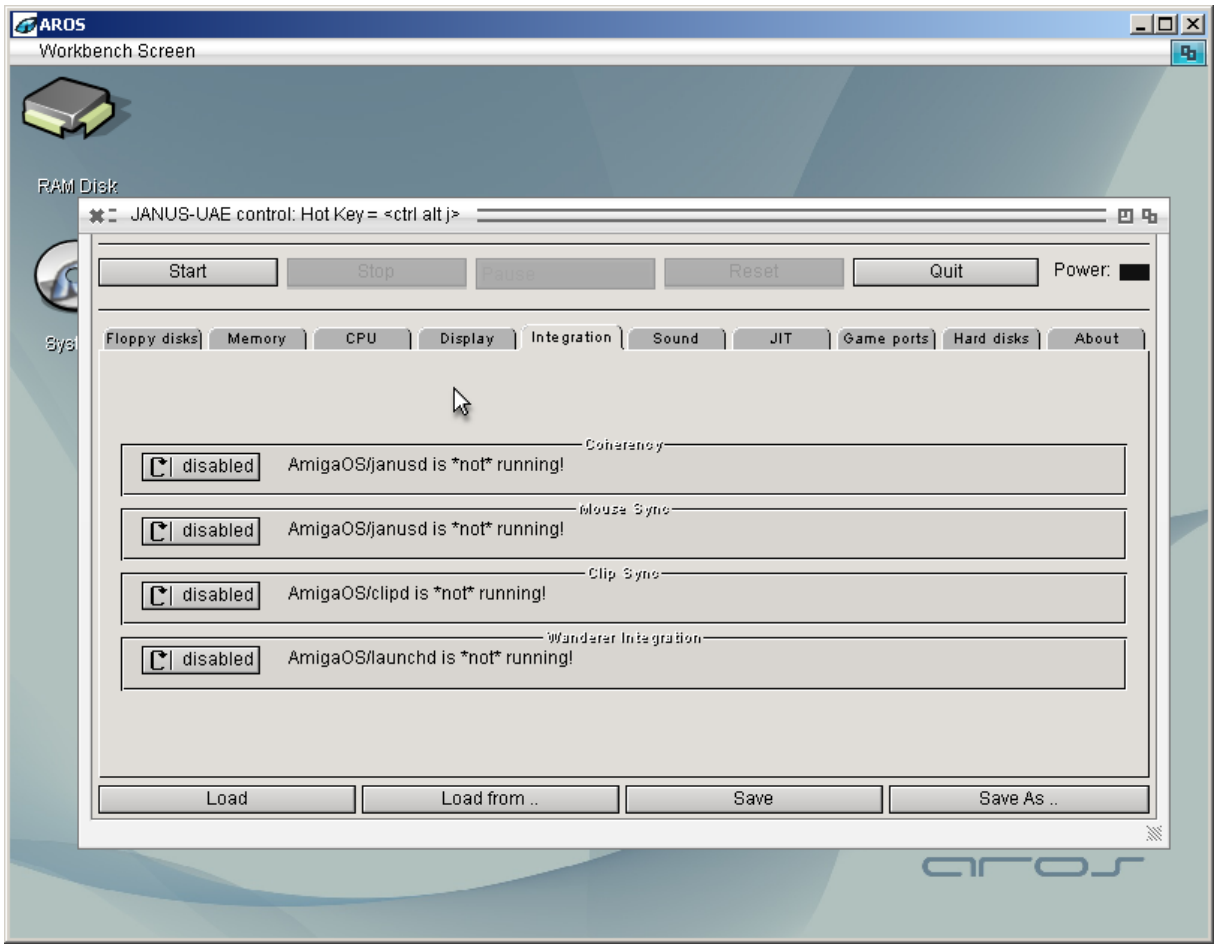
3.1.2 Display

Do not select full screen. The default values should be fine here. Most Resolutions will be set by the coherence mode later on anyways.



3.1.3 Integration

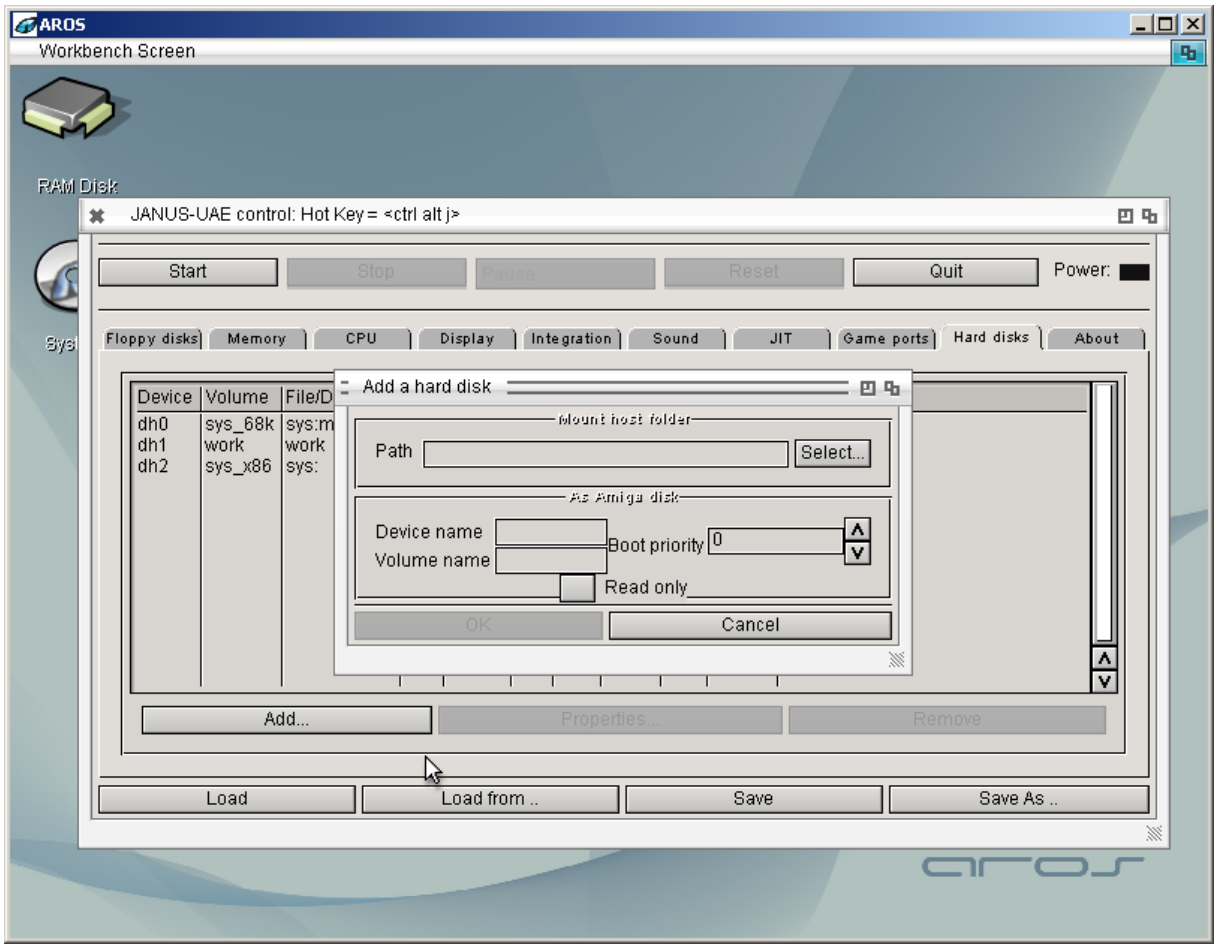
As we are setting it up at the moment, **please disable all options in the integration tab**. We will enable then step by step later.



3.1.4 Hard disks

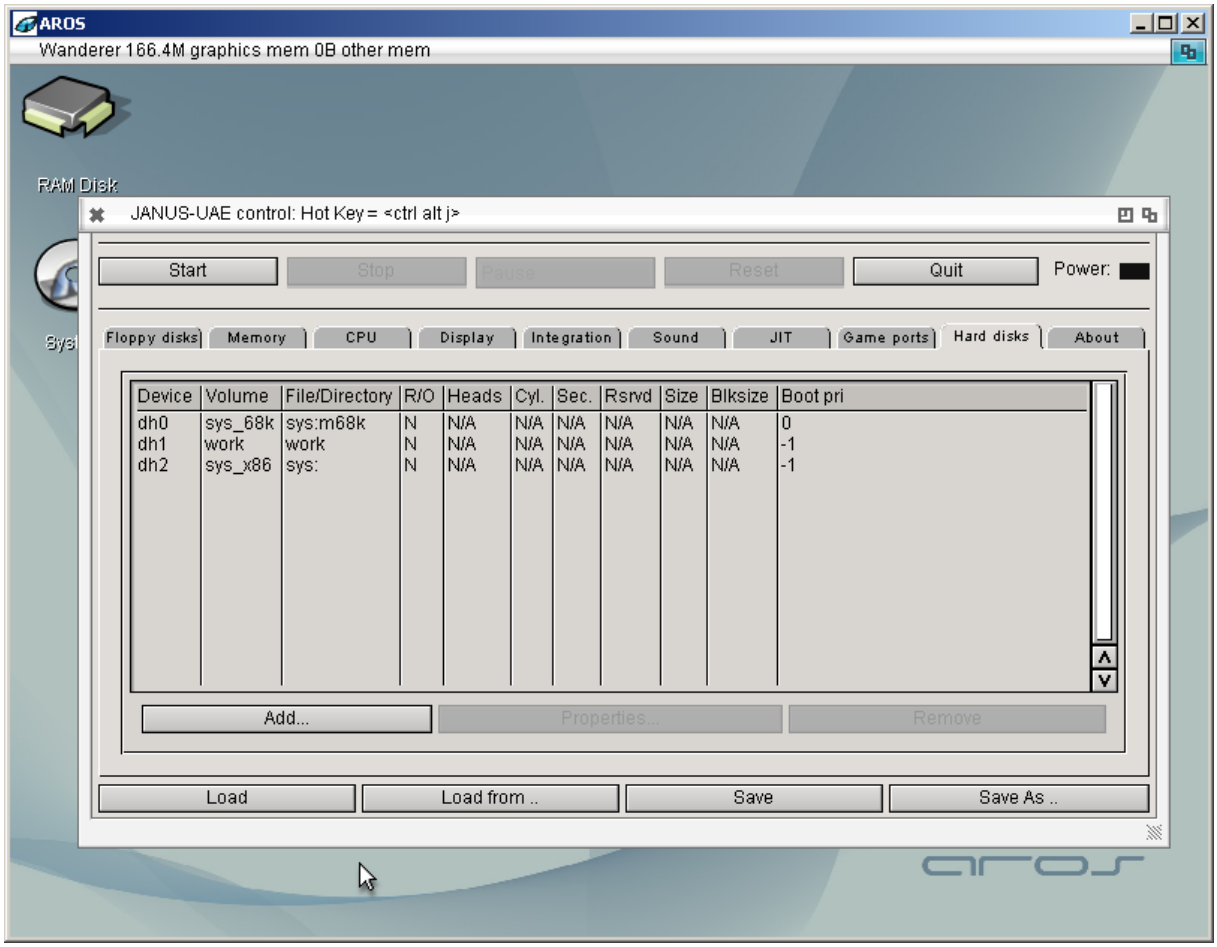
This one is important, as it decides, where the 68k system files go.

ATTENTION: When adding a new partition, please press enter to leave the string gadgets. Otherwise you input will be ignored and the “OK” butten will stay greyed out:



If you have an AROS install with one “work” and one “sys” partiton, we will setup the partitions for amigaos 3.x use:

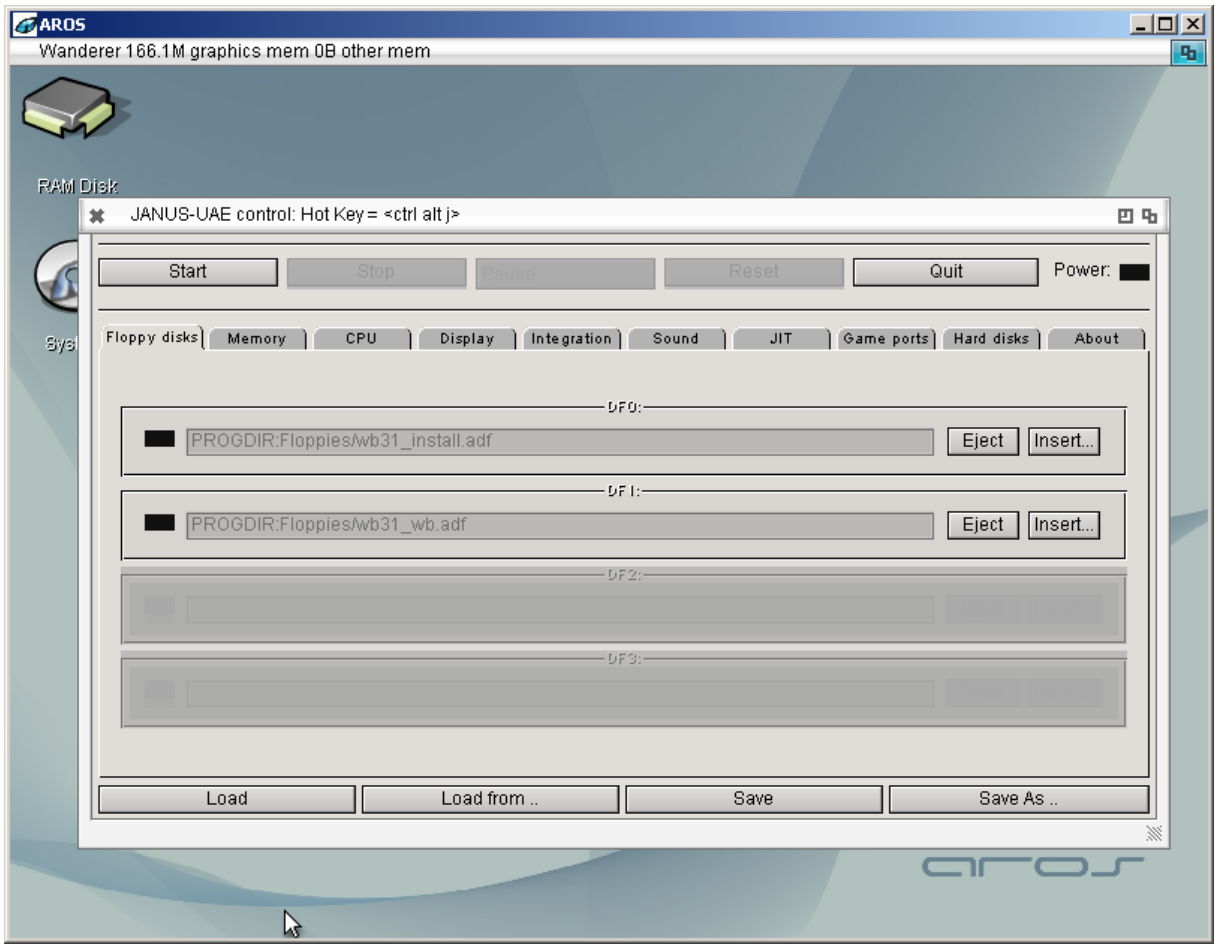
Amigos name	AROS path	Description
sys_68k	sys:m68k	AmigaOS 3.1 native SYS: drive. I placed mine inside the AROS SYS: drive in a m68k directory. Please create this directory first.
work:	work:	Both x86 AROS and m68k AmigaOS can share the same work partition.
sys_x86	sys:	This is optional, but via this drive you can access the AROS SYS: drive from AmigaOS


AROS
Wanderer 166.4M graphics mem 0B other mem
RAM Disk
JANUS-UAE control: Hot Key = <ctrl alt j>
Start
Stop
Pause
Reset
Quit
Power:
Floppy disks
Memory
CPU
Display
Integration
Sound
JIT
Game ports
Hard disks
About
Device Volume File/Directory R/O Heads Cyl. Sec. Rsrvd Size Blksize Boot pri
dh0 sys_68k sys:m68k N N/A N/A N/A N/A N/A N/A 0
dh1 work work N N/A N/A N/A N/A N/A N/A -1
dh2 sys_x86 sys: N N/A N/A N/A N/A N/A N/A -1
Add...
Properties...
Remove
Load
Load from ..
Save
Save As ..

4 Install AmigaOS 3.1

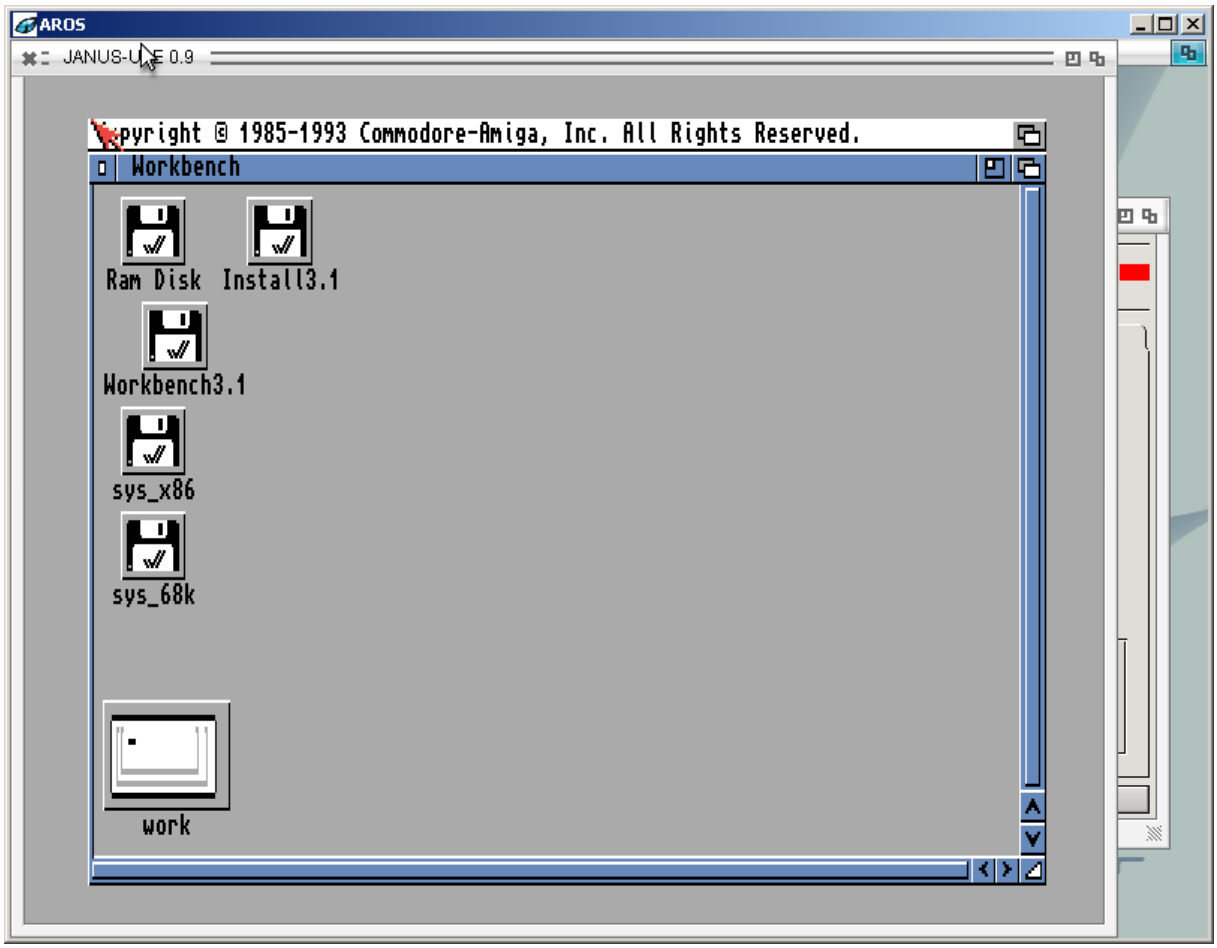
Of course you need OS3.1 floppy images in ADF format. Get them from Cloanto.

Insert the install disk in DF0: (and the workbench disc in DF1:):

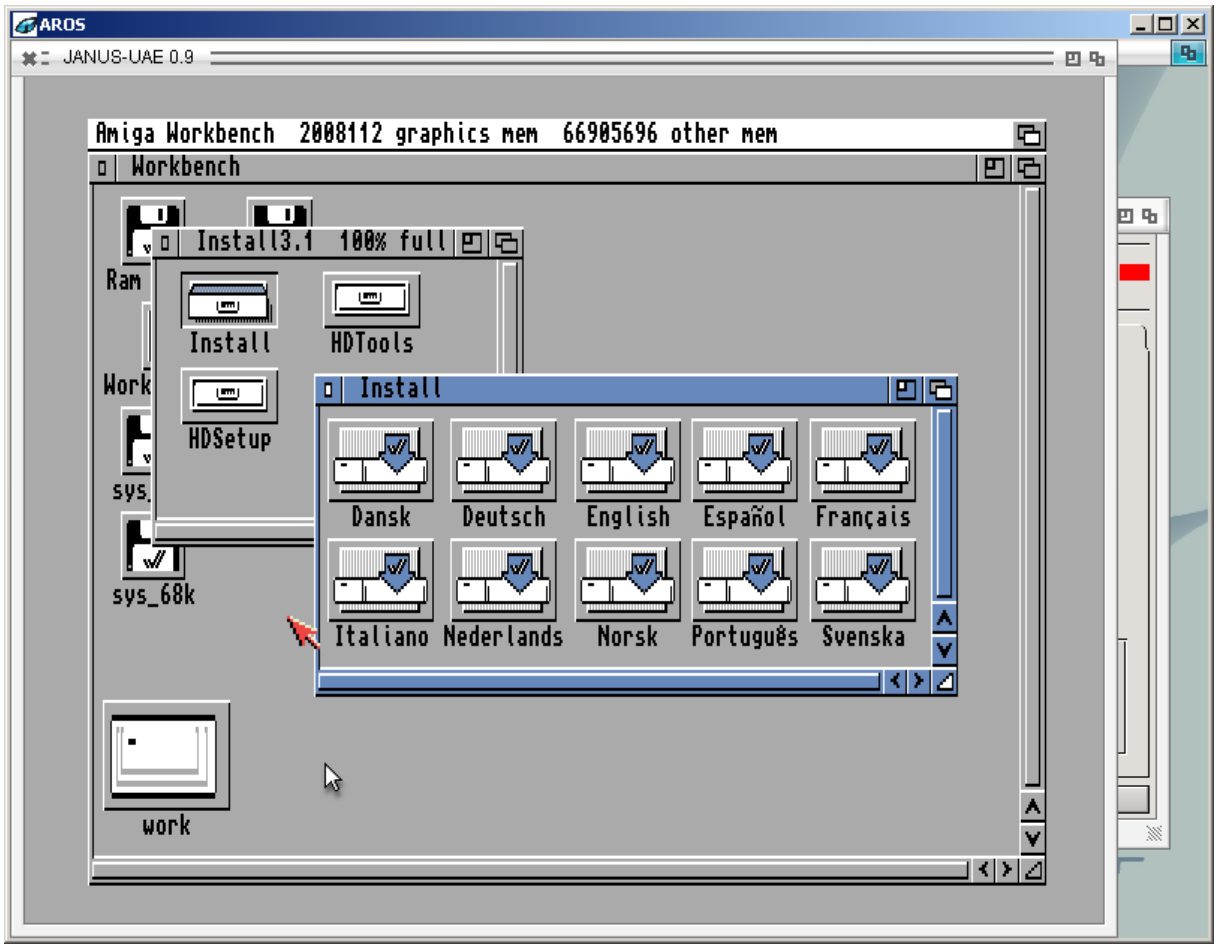


And press the “Start” button! If the GUI flickers too much, either select the “About” tab or hide it via “Ctrl Alt j”.

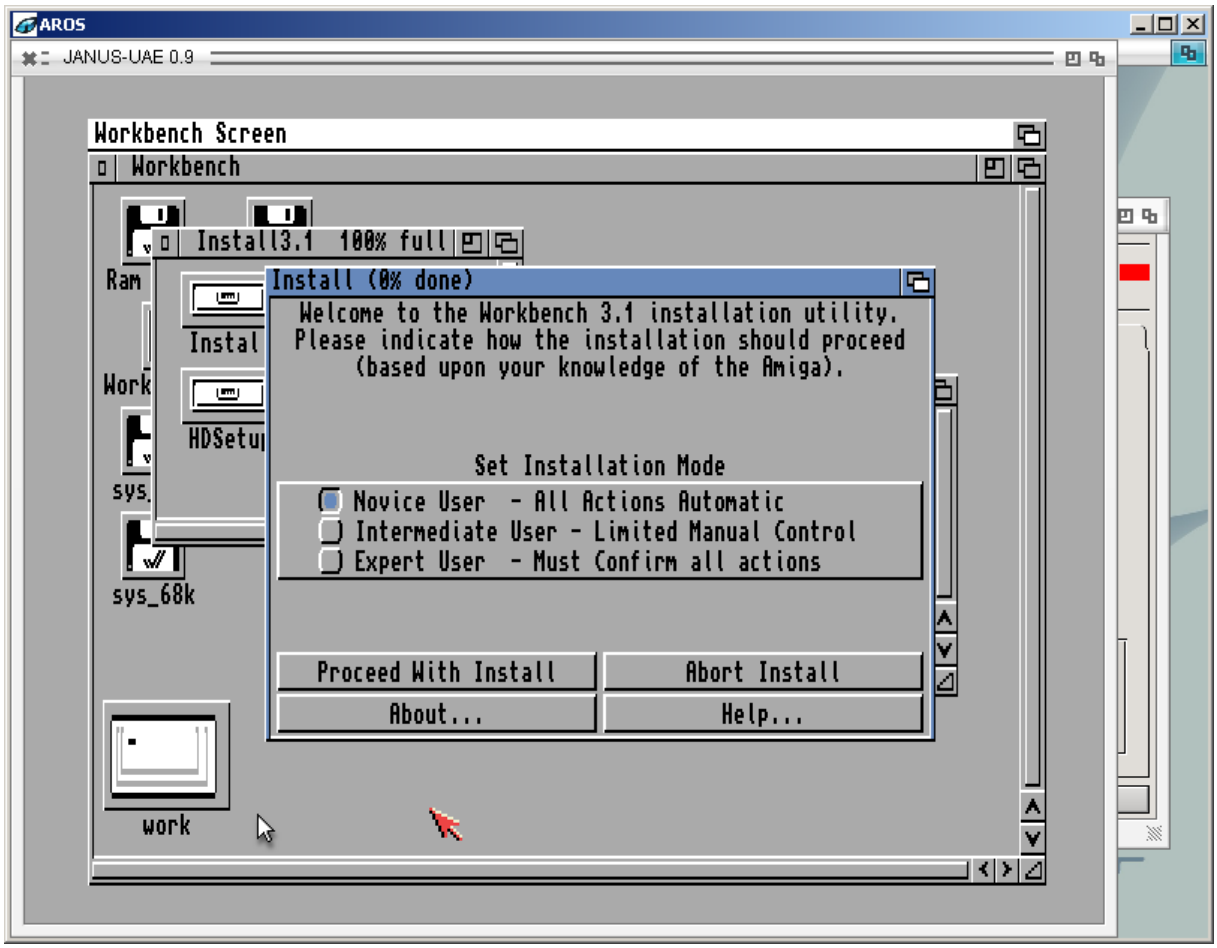
Once finished booting, you should now see os3:



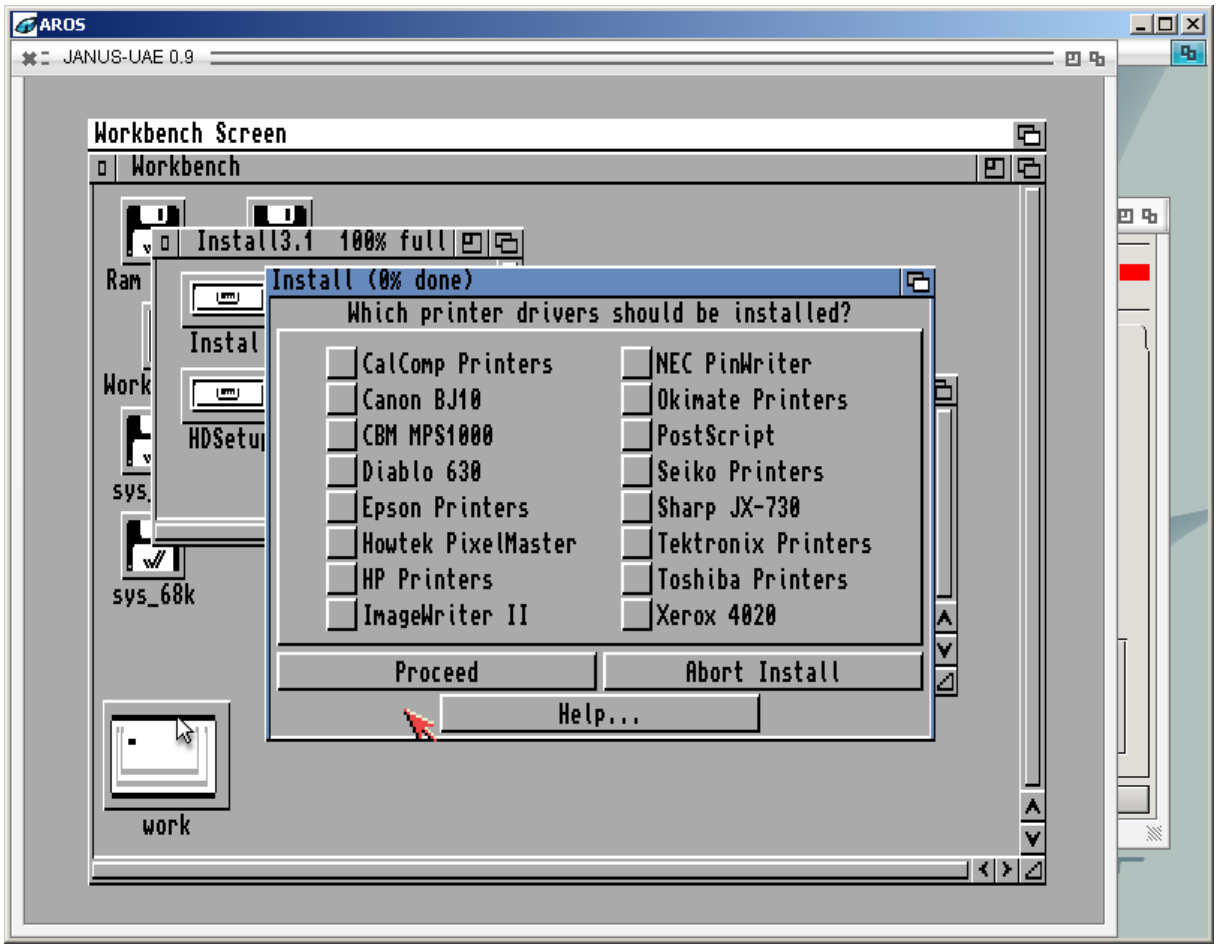
Open the install disc and the install folder. The mouse is not at sync, be patient please. Now choose you favourite language to start the installer.



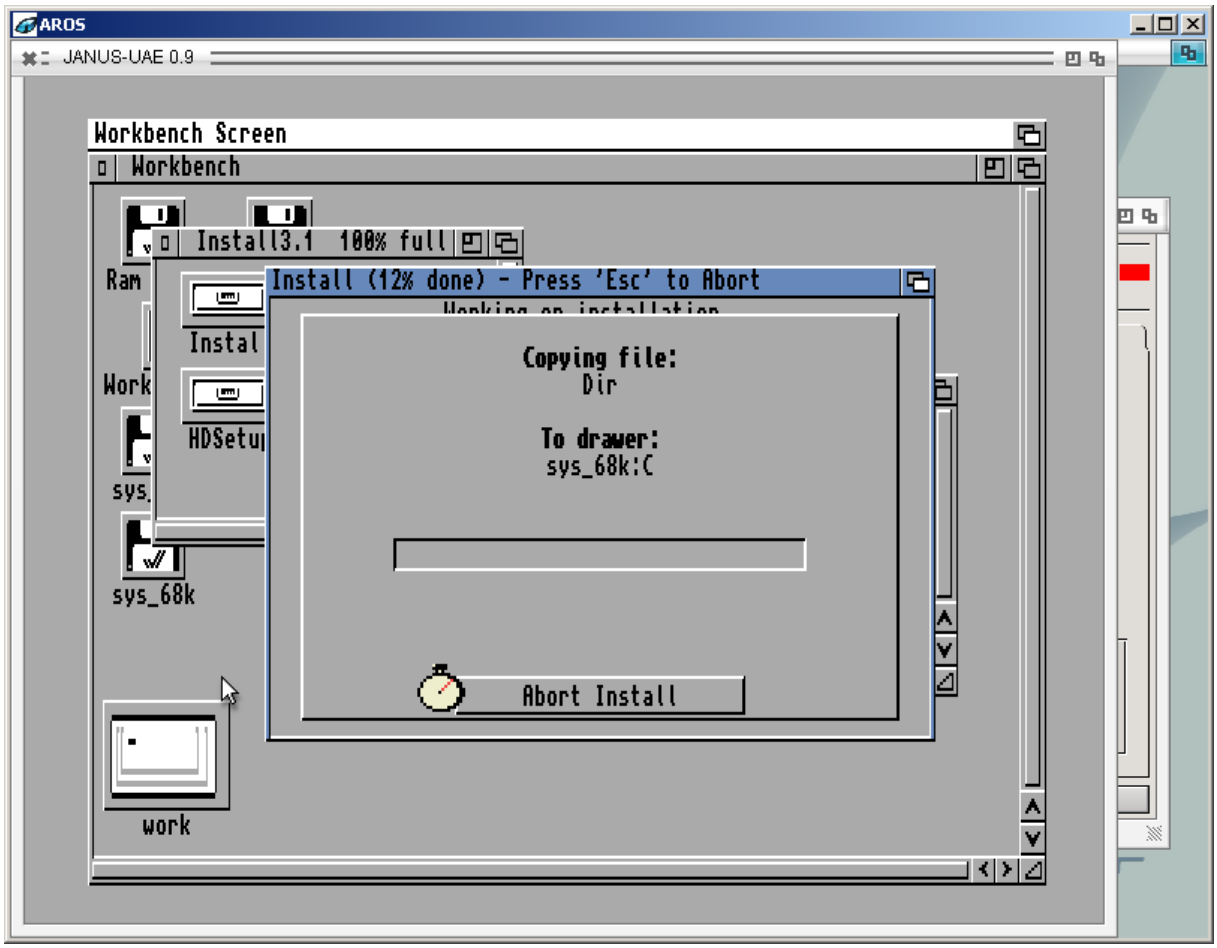
Even if we are no “Novice User”, we select it, as it will work fine:



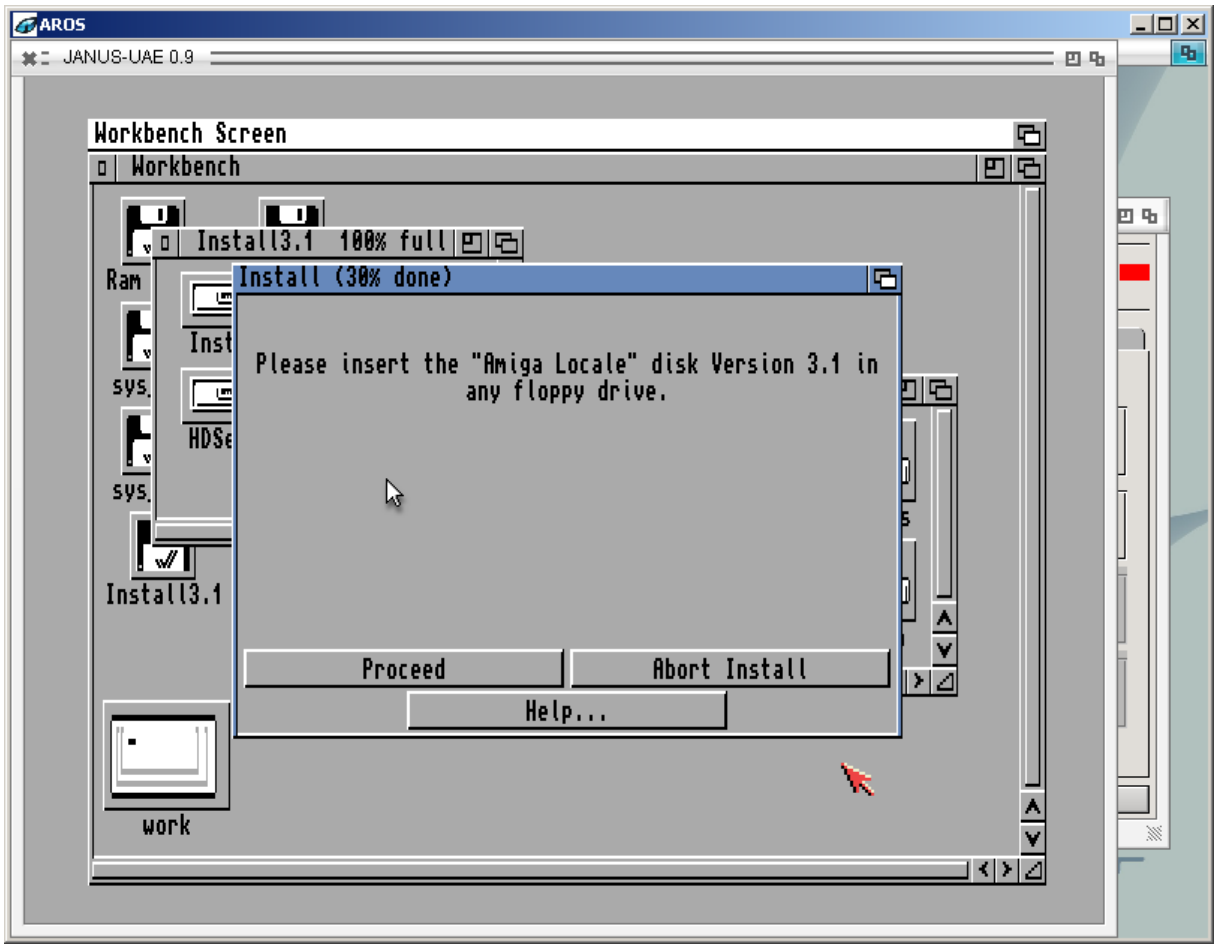
No need to select a printer:



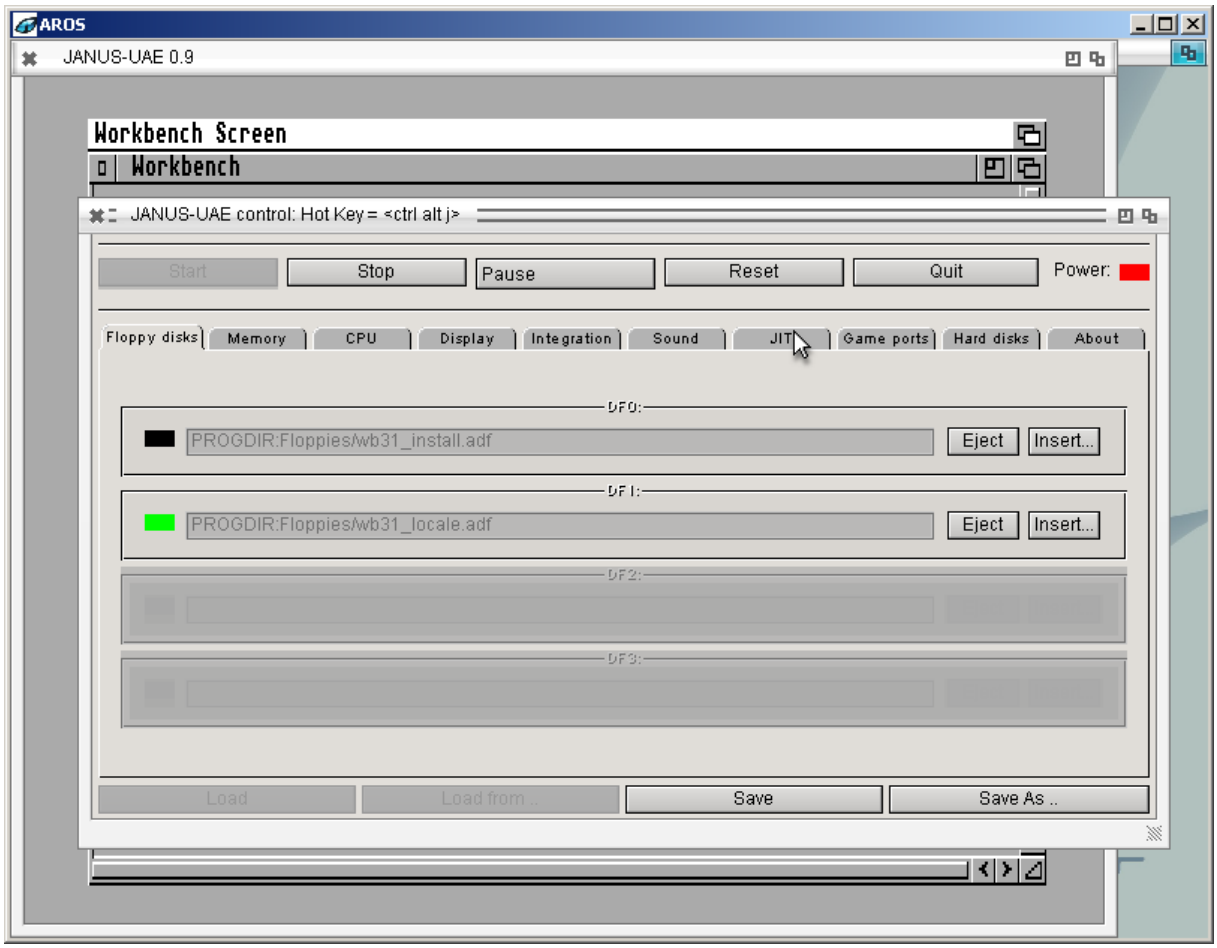
Just accept all other settings (or change them to your needs (keymap settings etc)) and watch the installation progress:

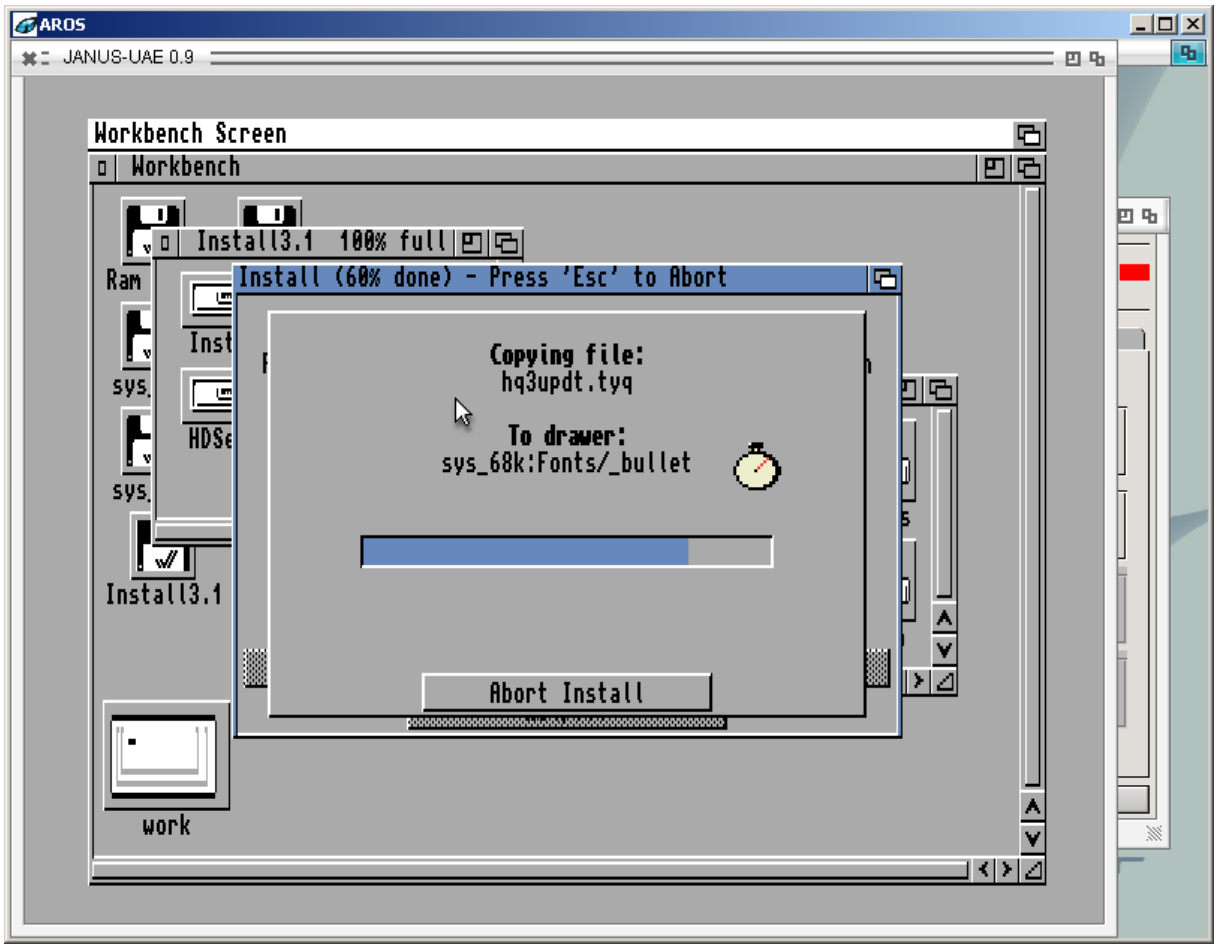


If you are asked to insert a different disc, insert it with the help of the Floppy tab:

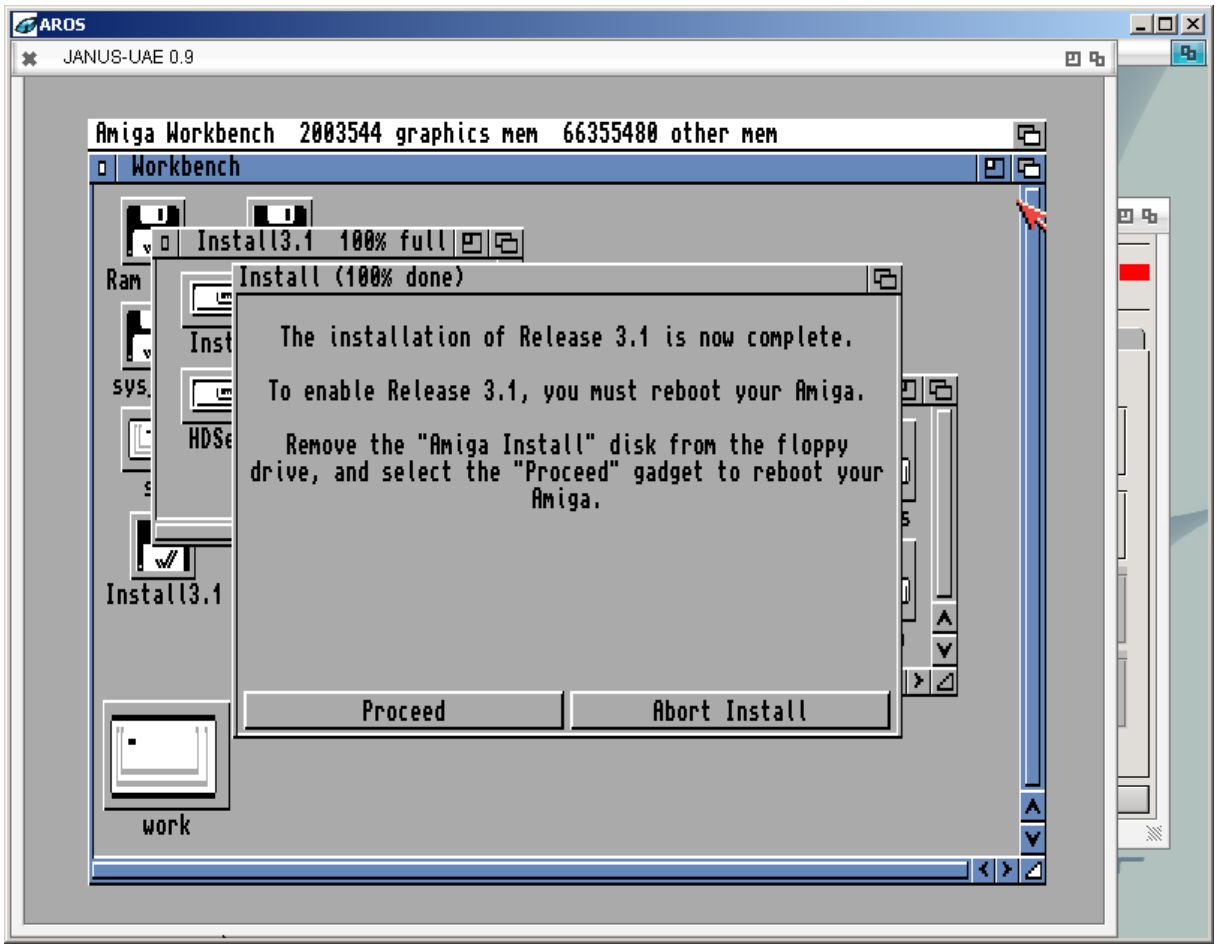


No need to click on “Proceed”, AmigaOS detects automatically, if a new disc is inserted.

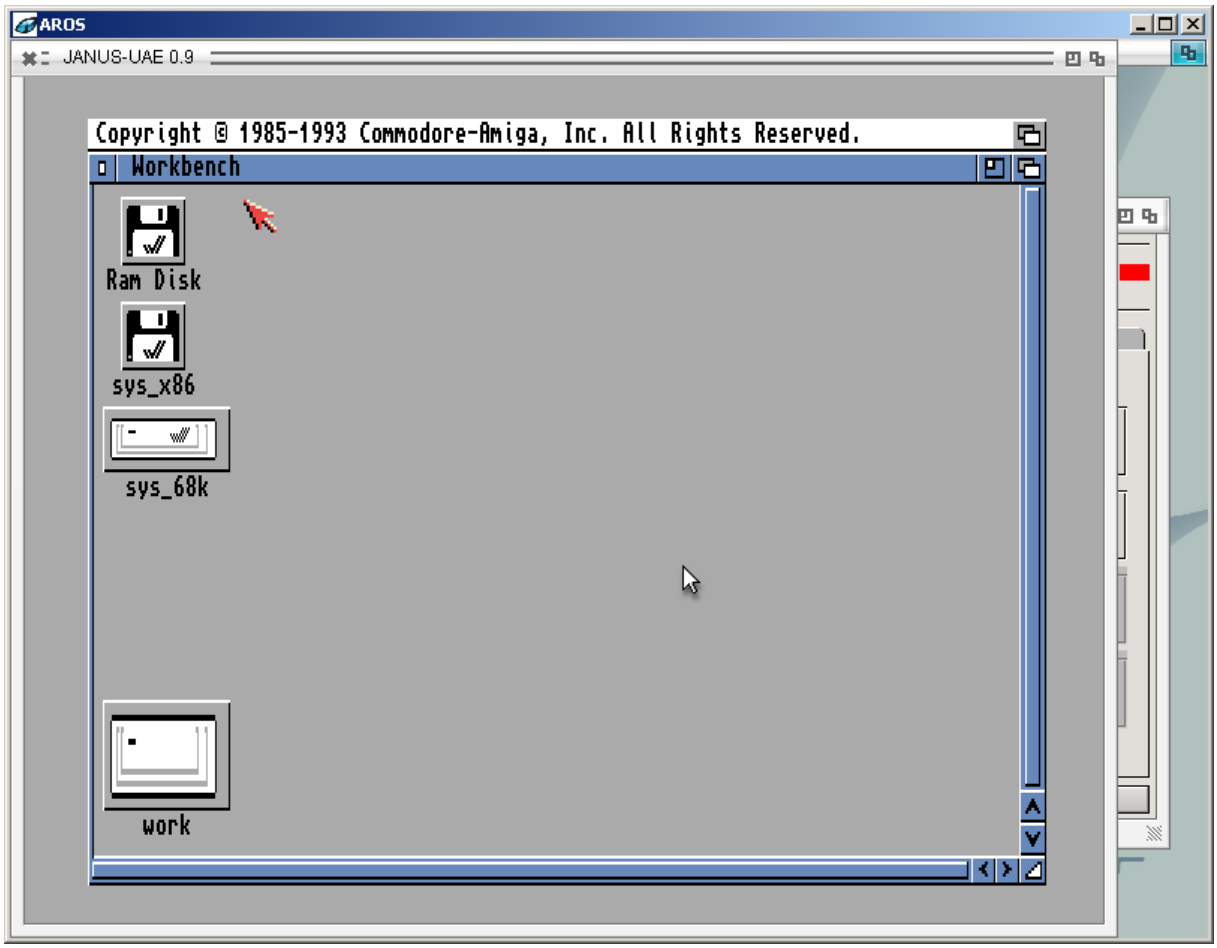

AROS
JANUS-UAE 0.9
Workbench Screen
Workbench
JANUS-UAE control: Hot Key = <ctrl alt j>
Start
Stop
Pause
Reset
Quit
Power:
Floppy disks
Memory
CPU
Display
Integration
Sound
JIT
Game ports
Hard disks
About
DF0:
PROGDIR:Floppies/wb31_install.adf
Eject
Insert...
DF1:
PROGDIR:Floppies/wb31_locale.adf
Eject
Insert...
DF2:
DF3:
Load
Load from ..
Save
Save As ..



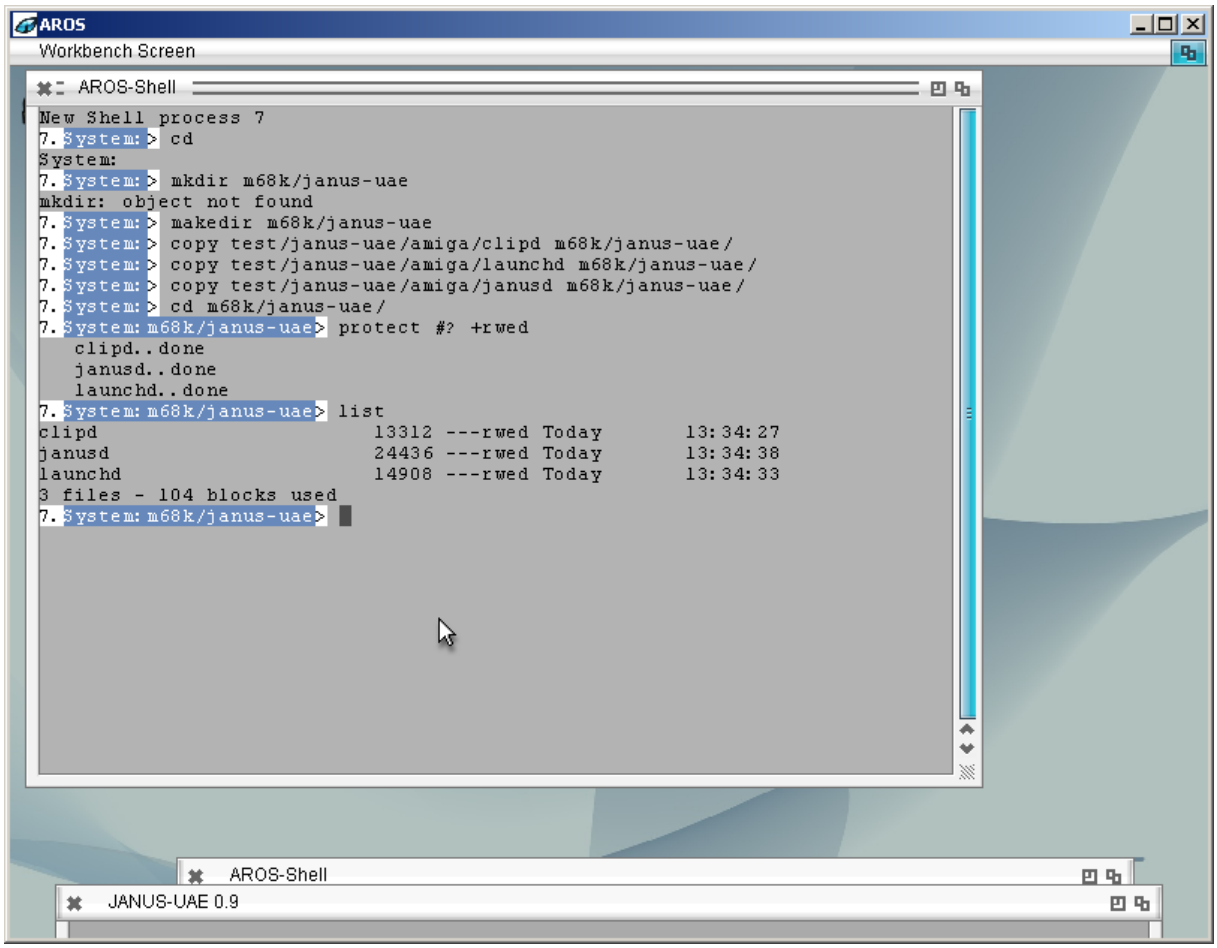
And finally, we reach the end:



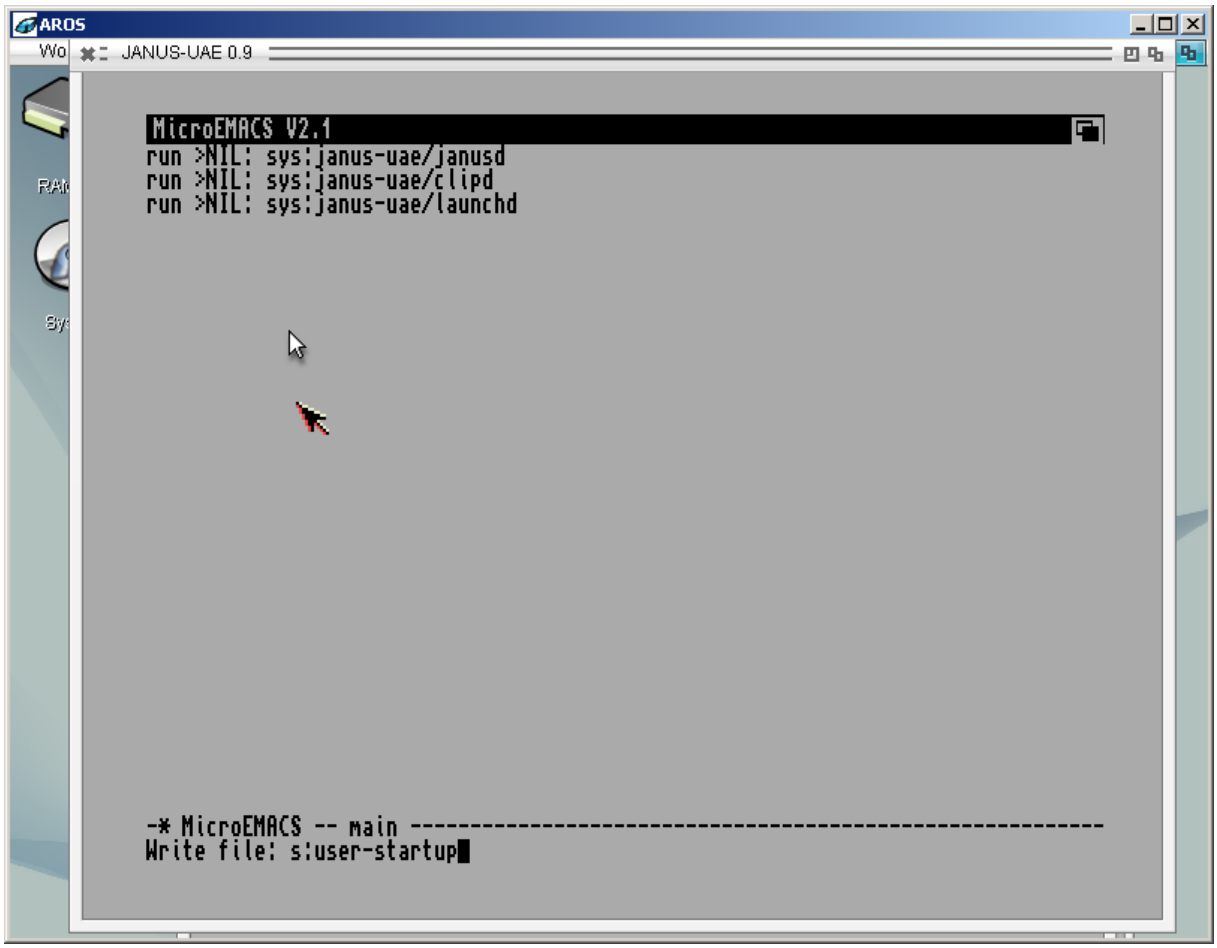
So after the reboot, we see our clean os3.1 install:



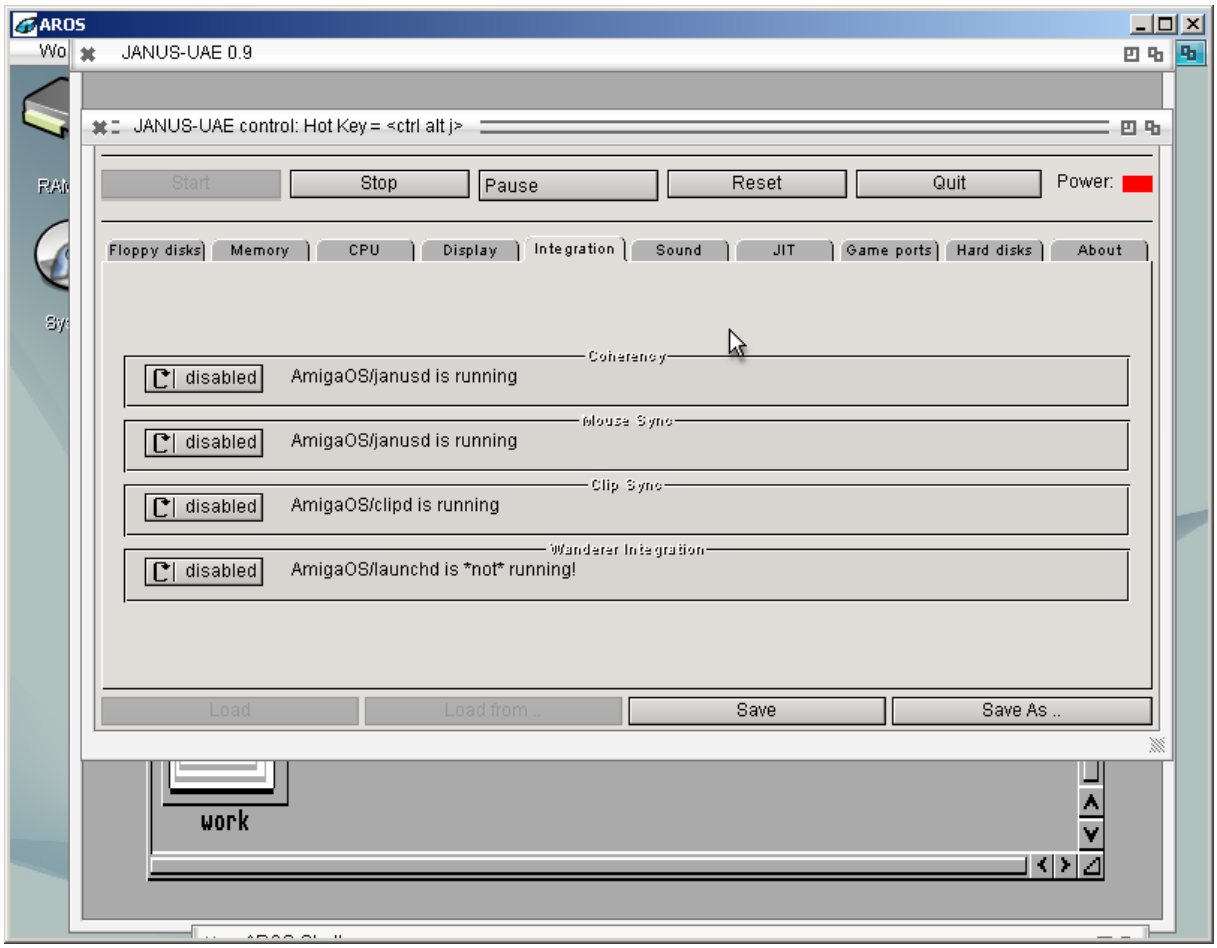
Now we return to AROS and copy our j-uae helper programs to our AROS installation. I had the j-uae archive extracted to “test” and I will create a directory sys:m68k/janus-uae for the daemons. We also ensure, that those helpers can be executed:



Now we need to add them to the AmigaOS user-startup. I used MicroEMACS of os3.1 for that.

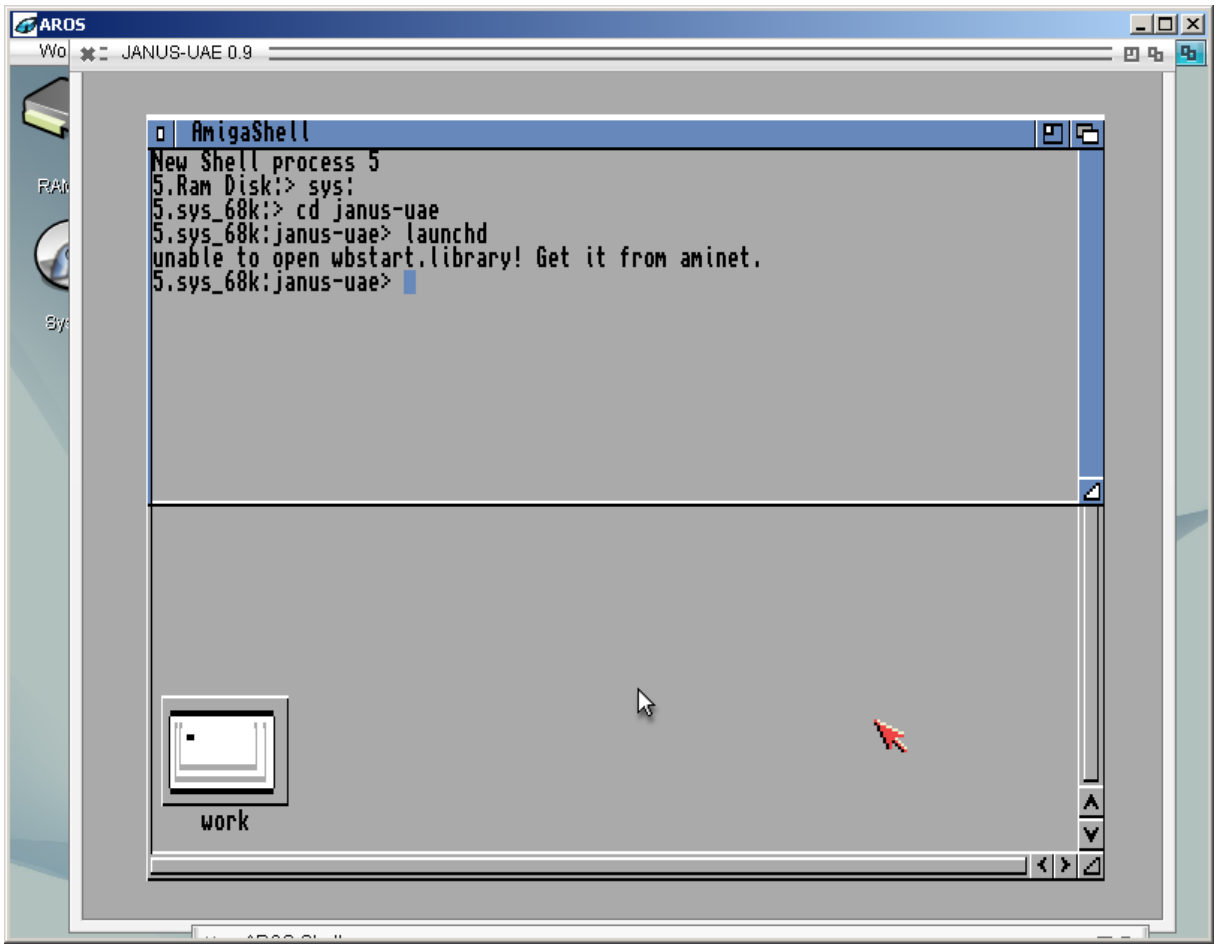


Now we reset AmigaOS with the help of the janus-uae GUI and we see some of our daemons running:

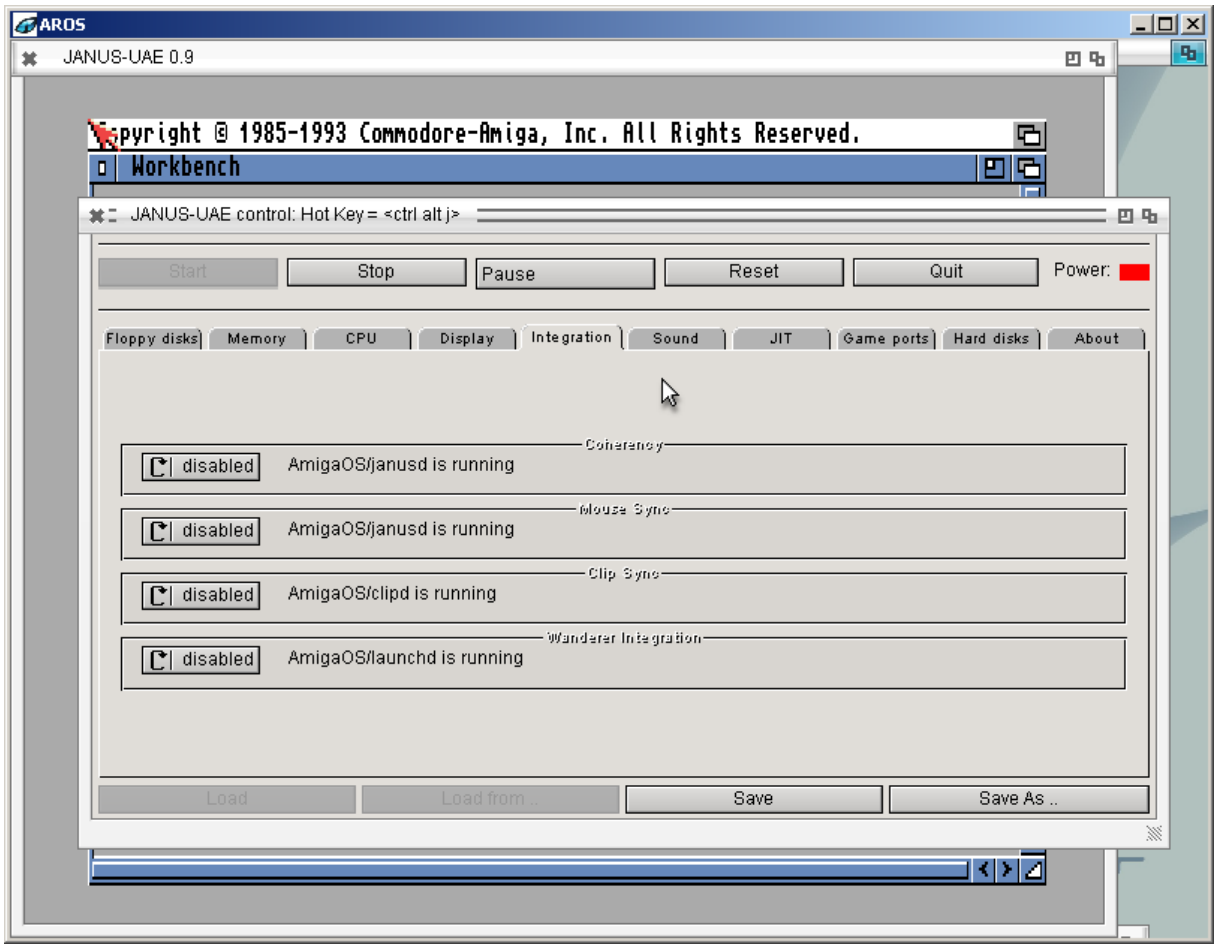


Launchd is not yet running, as it needs a library from aminet:

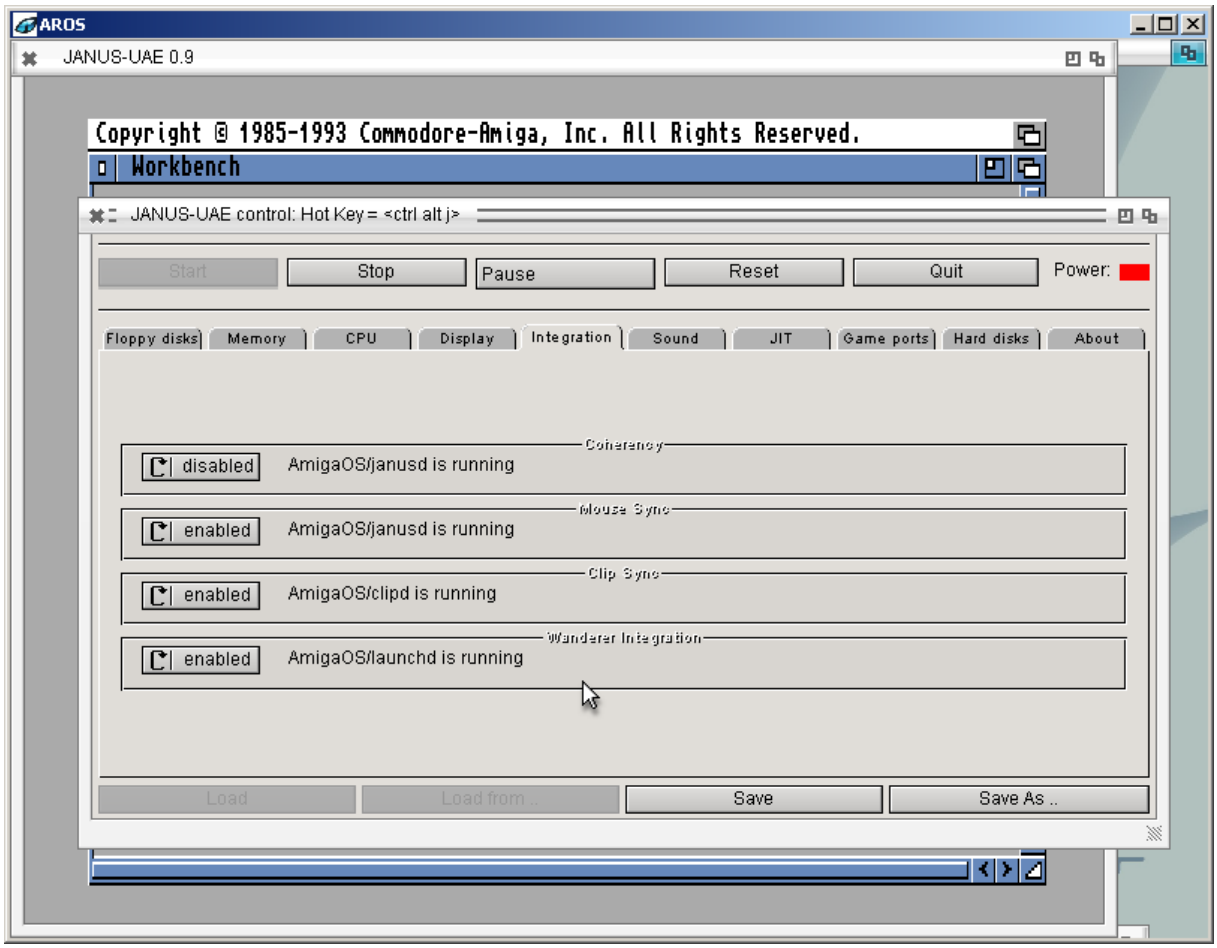
http://aminet.net/package/util/libs/WBStart



After you installed wbstart.library and you reboot, all daemons should be running. Sometimes janusd refuses to launch after a reset, please quit j-uae and start it again in this case.



Enable all but the first one:

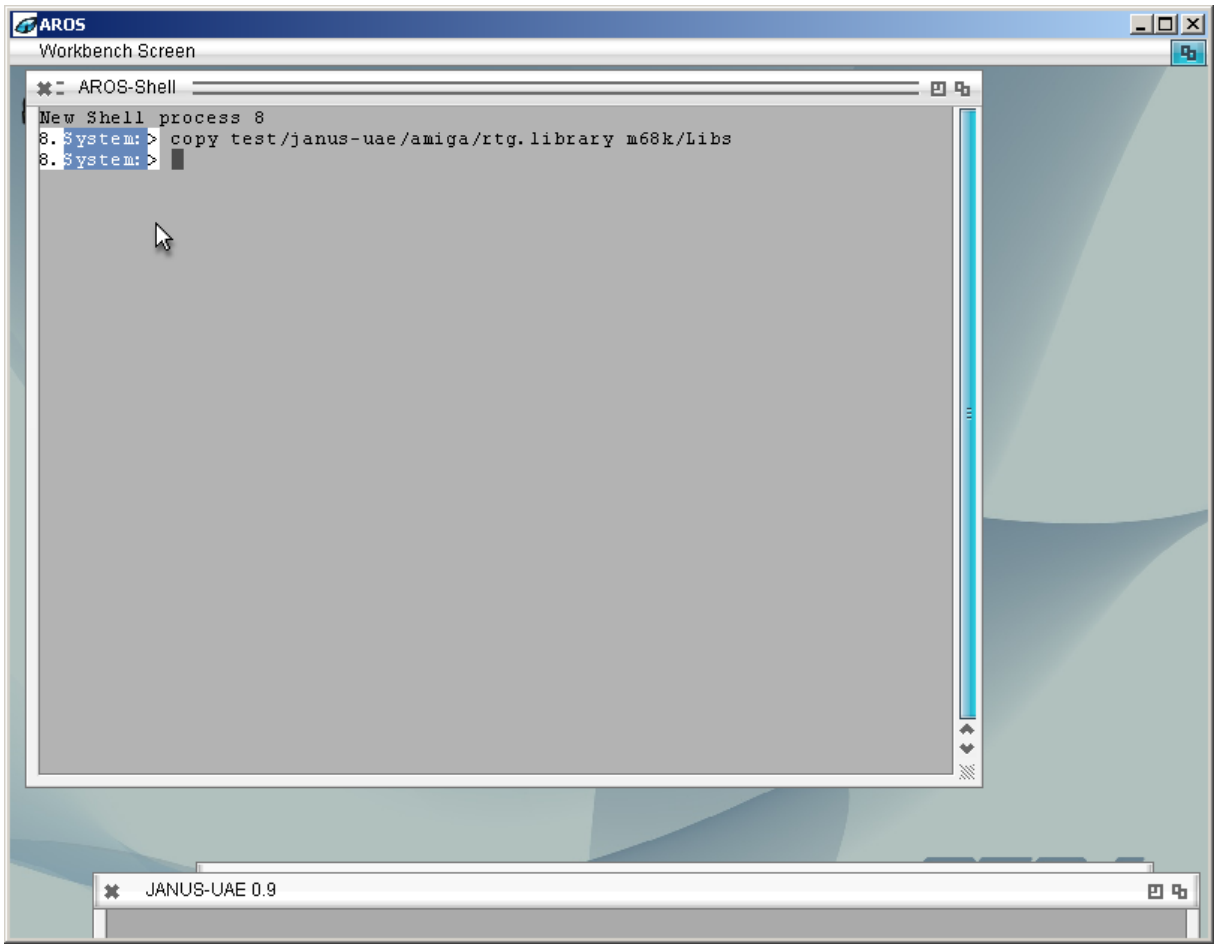


Now we have at least some mouse sync and we already can launch AmigaOS executeables with wanderer. We also share the Clipboard with the AROS clipboard.

4.1.1 Picasso96

Now we need to install Picasso96, which I won't describe here, sorry. But you can see the necessary steps in http://www.pcguru.plus.com/uae_p96.html for example (Steps 3 to 21).

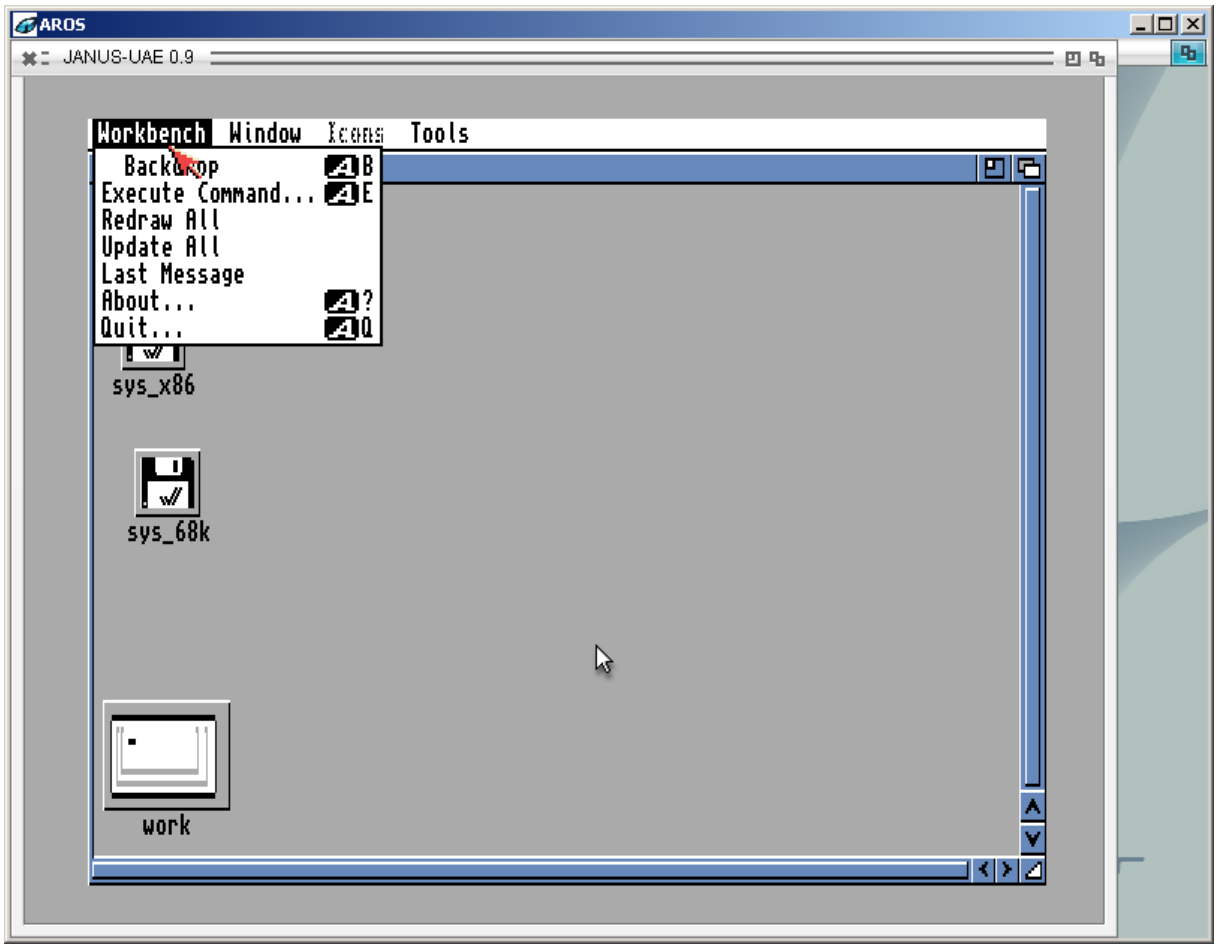
Now we need to replace the rtg.library with the one in the j-uae archive. Otherwise we get ugly mouse trails sometimes.


AROS
Workbench Screen
AROS-Shell
New Shell process 8
8.System:> copy test/janus-uae/amiga/rtg.library m68k/Libs
8.System:>
JANUS-UAE 0.9

5 AmigaOS configuration

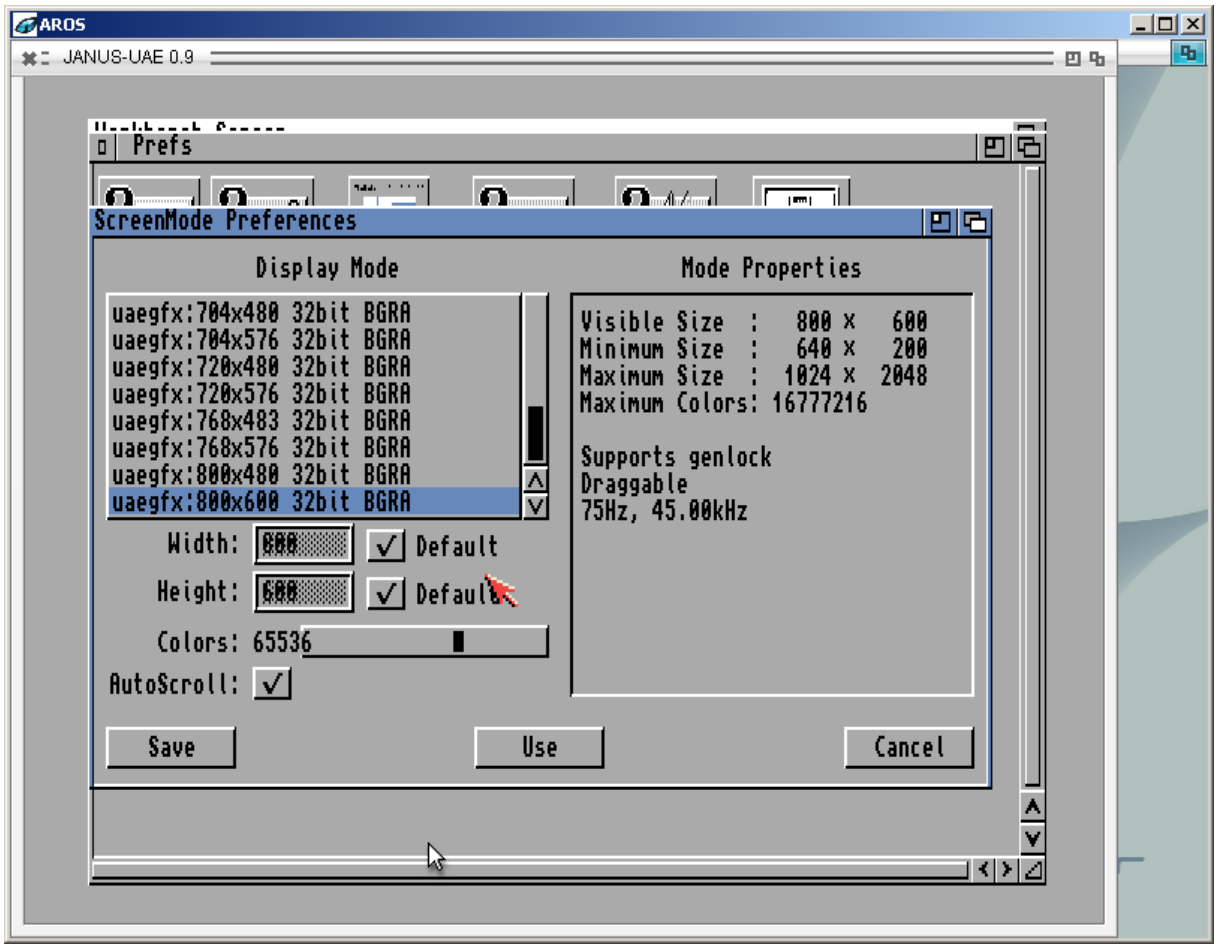
5.1.1 Workbench

Workbench must not be backdrop in order to get coherency working:



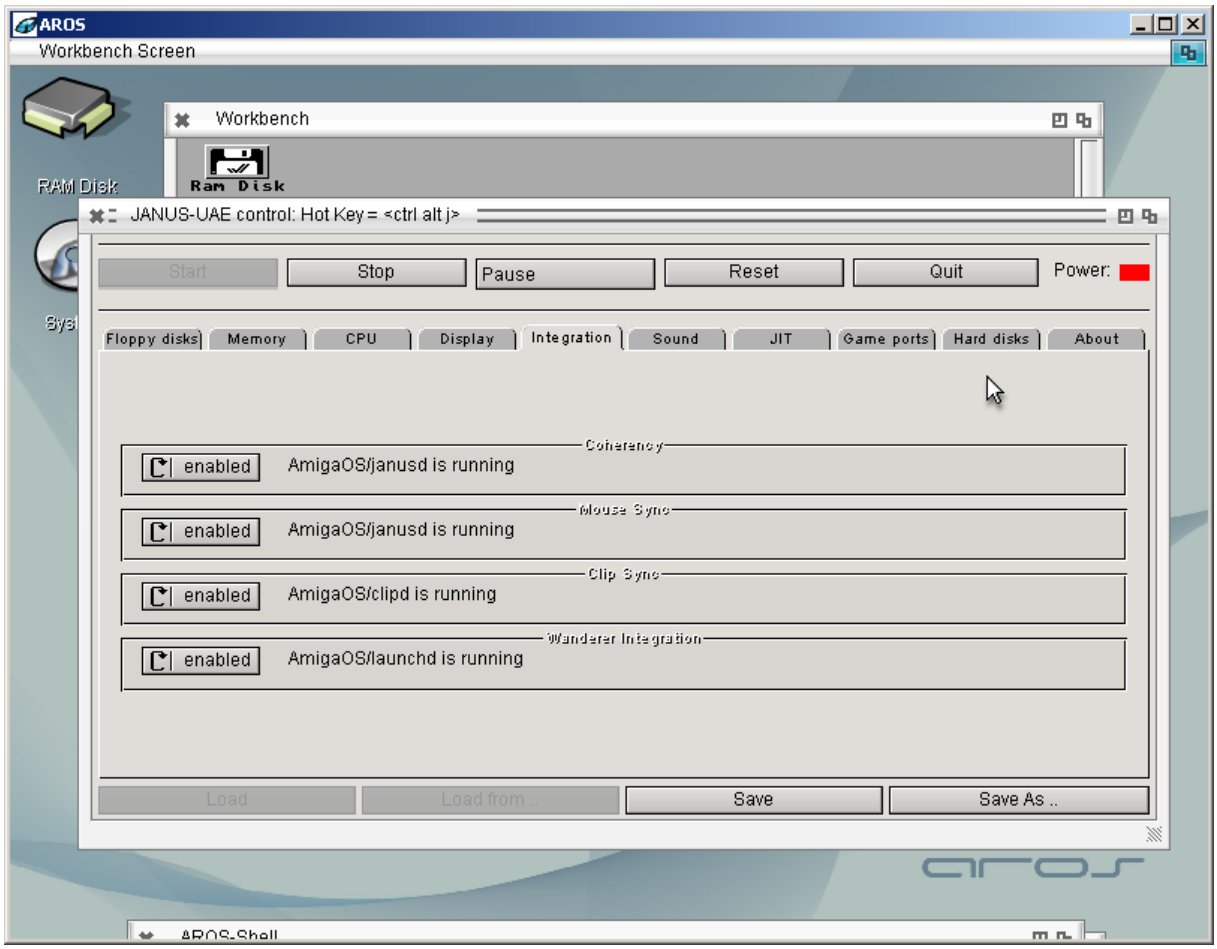
5.1.2 Screenmode

It is also necessary, to choose the exact same resolution as your AROS one (I was using 800x600 as it is enough for the screenshots):

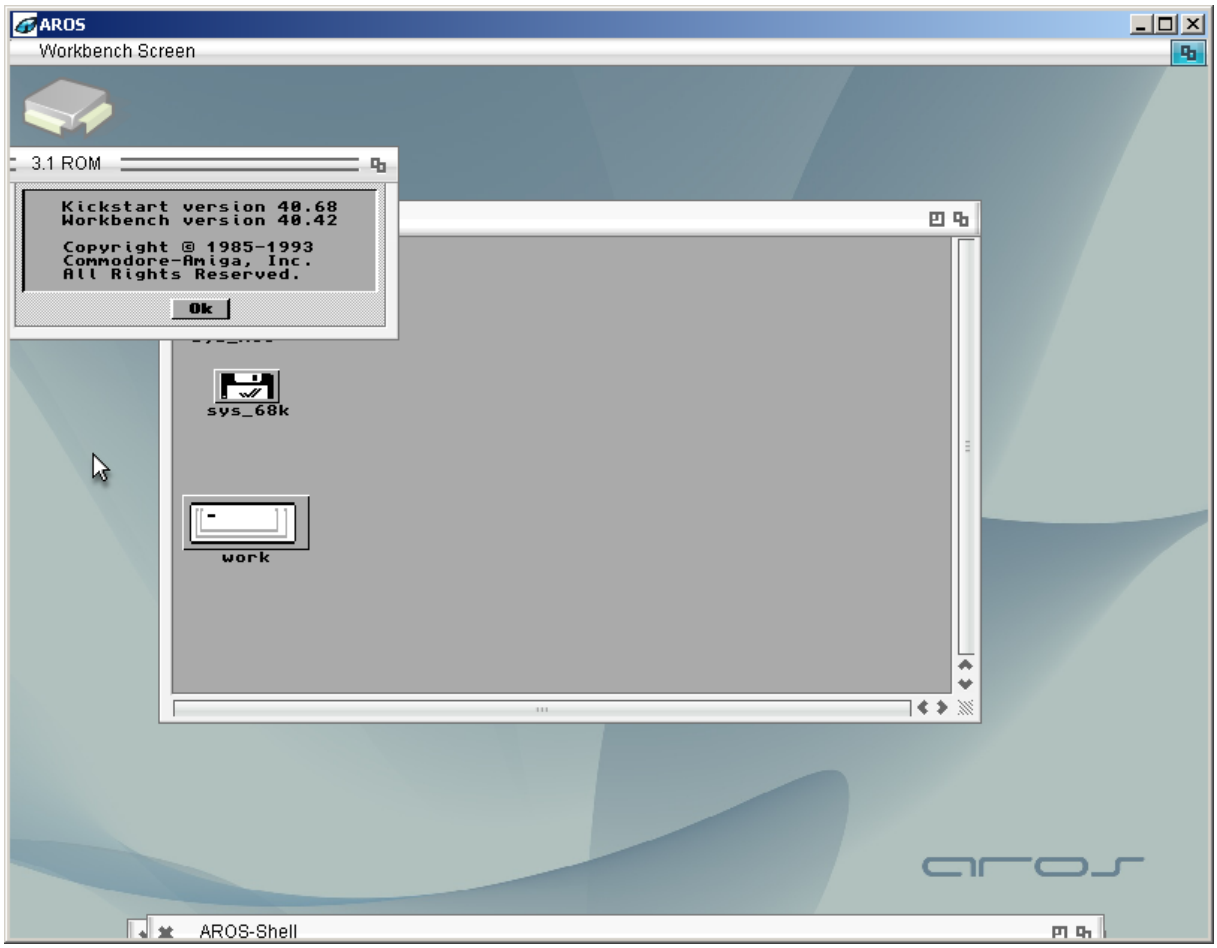

AROS
JANUS-UAE 0.9
Prefs
ScreenMode Preferences
Display Mode
Mode Properties
uaegfx:704x480 32bit BGRA
uaegfx:704x576 32bit BGRA
uaegfx:720x480 32bit BGRA
uaegfx:720x576 32bit BGRA
uaegfx:768x483 32bit BGRA
uaegfx:768x576 32bit BGRA
uaegfx:800x480 32bit BGRA
uaegfx:800x600 32bit BGRA
Visible Size : 800 x 600
Minimum Size : 640 x 200
Maximum Size : 1024 x 2048
Maximum Colors: 16777216
Supports genlock
Draggable
75Hz, 45.00kHz
Width: 800
Default
Height: 600
Default
Colors: 65536
AutoScroll:
Save
Use
Cancel

6 Enable

Now enable all the Integration features!



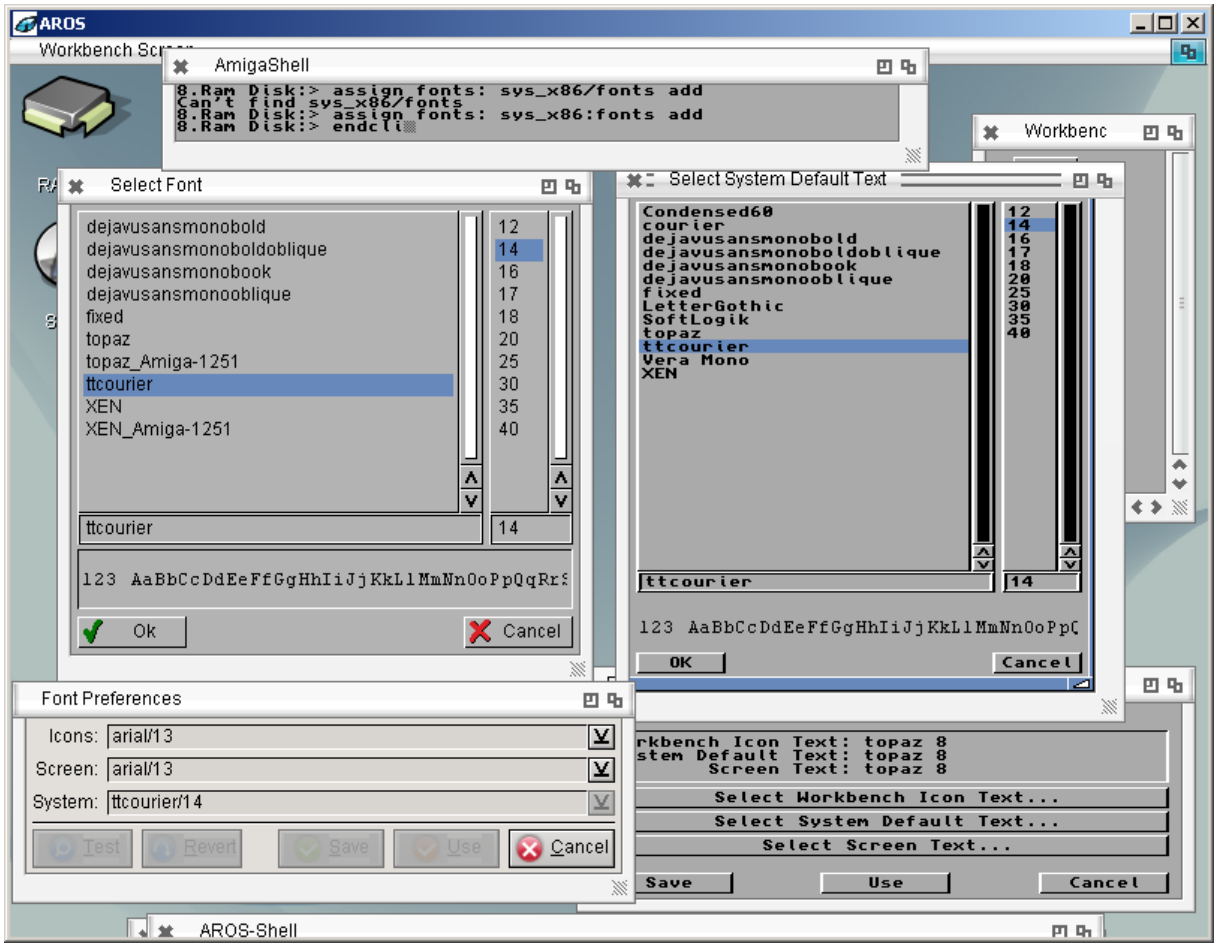
And we get all AmigaOS windows as real AROS windows:


AROS
Workbench Screen
3.1 ROM
Kickstart version 40.68
Workbench version 40.42
Copyright © 1985-1993
Commodore-Amiga, Inc.
All Rights Reserved.
Ok
sys_68k
work
AROS-Shell

7 Fonts

As AmigaOS fonts and AROS fonts use the same format, we also use the AROS fonts in AmigaOS. Add
“assign fonts: sys_x86:fonts add”

to your AmigaOS S:user-startup and reboot. Now select in (AmigaOS) Prefs/Fonts the same fonts as in AROS:



And now you are .. **DONE** ☺!

PS: I am a coder, no manual writer. Feel free to do a better one (and send it to me).

21.4.2011 o1i