DMBoot 128

Device Manager Boot Menu for the Commodore 128

Written in 2020-2023 by Xander Mol

https://github.com/xahmol/DMBoot

https://www.idreamtin8bits.com/

Changelog release versions

Version v391-20230819-1733:

Link to build of version

- Second public alpha of DMBoot v4 with a completely new filebrowser.
- As I had to rewrite the filebrowser part for this anyway, I have also changed some other things:
 - Removed the option in 80 column mode to show two drives at once. Maybe looked cool, but IMHO showing two dirs at once makes only sense for a copyer, not a browser. More importantly, need for two dirs in memory costs valuable memory space and makes allocation routines way more complicates (especially as I could no longer use simple alloc() and pointers as VDC memory is not directly accesible). Instead of this, in 80 column mode now two columns are used to show the directory of the present drives, doubling the number of items that can be shown. Think this makes way more sense for a browser;
- Previously, cursor right triggers a dir change and cursor left a dir up (if possible). With two columns this is counter intuitive, you just want to move left and right. So changed behaviour of cursor left and right to enable sideway navigation. Of course you can still select directories by the ENTER key to go in a dir, and the DEL key to go back.
- Added a page down (P key) and page up (U key) function to quicker navigate large dirs.
- Sort still works, but as VDC memory management is slower, and also now much larger dirs are supported, beware to use it in large dirs as kit then gets very slow.
- Rest should still work unaltered in browser mode (please let me know otherwise).
- File browser now starts with the device ID of the hyperspeed drive (if active), instead of just 8. For me this makes more sense as in DMBoot most logical use of the filebrowser is selecting things on the hyperspeed device ID. Of course the other devices can still be selected by + and key and F1 for dir refresh.

• Bug fix: Device type detection did not work after passing past a device ID on which no device is active. Solved. Probably this bug has there been a long while, if not from the start. Is actually also present in DraBrowse (made a pull request there as well)

Version v3.91 - 20230627-0852:

Link to build of version

• New version with small bugfix reparing that configuration is not saved after deleting a slot.

Version v391-20230608-1541:

Link to build of version

- First alpha version of v4 of DMBoot.
- Added the possibility to add mounting disk images for both the A and B drives of the UII+ and loading a REU file to every menu slot.
- Disk images and REU files are selectable via the file browser
- Bug fixes
- Memory optimalisations

Known issues and limitations:

In its present form, the program is very close to full memory. Considering a complete rewrite, but that takes more time than I have in the foreseeable future.

Therefore, had to make some sacrifices:

- No validation if the configuration is correct or coherent is done, so setting up valid configurations is the users responsibility
 Only very limited error handling on executing incorrectly configured menu slots is done
- Mounts and REU file can be added or changed (by adding again and overwriting the previous one), but not deleted seperately. To do so, the whole entry needs to be deleted.
- Adding disk images to mount, a REU file and choosing the file to start erquire all seperate
 dirtrace actions in the filebrowser, so setting up a menuslot might take up to four entries to
 the filebrowser and navigating via dirtrace.
- I removed the functionality originiating from DraCopy to view a file in HEX or ASCII, or to perform disk commands from the file browser. As alternative, you can of course add the original DraBrowse/DraCopy as entries in de boot menu.

I personally think these limitations are acceptable as setting up the configiration of the menuslots is not done on a daily basis anyway, you set it up once to use it often.

Version v299-20220812-0958:

Link to build of version

- Added Load in C64 mode option with key '6' in the filebrowser. Works on directly executing
 programs from the filebrowser, as well as adding programs to load in 64 mode as slots in the
 bootmenu. Keeps supporting user defined commands and disk mounts. Requires Device
 Manager ROM API v2, so at least c128dm-200-alpha-20409. Thanks to Bart van Leeuwen
 providing API functionality to his Load 64 program function.
- Minor other improvements / fixes

Version v299-20210909-1708:

Link to build of version

- Complete redesign of internal memory structure creating more working memory space
- This enabled placing eveything in one menu again instead of having to start seperate programs for the NTP time and GEOS utilities.
- The ZIP still contains multiple files as the program now makes use of memory overlays that are dynamically loaded on demand. So still unzip all files in the zip to your /usb*/11/ directory.
- New menu options:
 - F4: Edit configuration settings for NTP time set and GEOS ram boot (used to be dmbconfig.prg)
 - F6: Boot GEOS from REU file using the settings provided with the F4 option
- New functionality:
 - o Maximum device ID in filebrowser is now 30 instead of 11
 - Changing device ID in the filebrowser is now done with + and keys instead of just F2, to avoid having to click F2 a lot if you want to decrease the ID from say 12 to 11.
 - You can now choose to have a disk image mounted on starting a menu slot. The
 program referred to in the slot will still be loaded from the Ultimate drive, but an image
 will be mounted on the chosen ID at the same time. This could be a working disk along
 to the main program, but could also be the program disk if the main executable
 demands to load parts from a disk.
 - For each menu slot you can choose between either a disk to be mounted, or an user defined command. Both is not possible.
 - Set and select this image from the main menu using: F7 > F2 > choose slot > F1 and enter image details (device ID, path and image file name).
 - No changes made to configuration files, so no upgrader needed if you are coming from a 299 version.
- Deleted functionality:
 - Removed the previous F4 Boot from floppy option. Not only did I need this space for the new NTP time and GEOS configuration option on F4, but also this functionality is delivered by the DM ROM itself already at boot.

Version v299-20210726-1019:

Link to build of version

- Changed configuration file for main program from a sequential file to a binary blob, which loads much faster, so shortening boot time.
- Added dmb-confupd-2-3.prg: Utility to migrate the old sequential config file to the new format
- The new autostart.128.prg now sets time from NTP server on boot before starting DMBoot itself;
- Geosramboot.prg starts GEOS from a specified REU file
- Dmb-config.prg is a program to configure NTP time set and GEOS ram boot configuration

Version v199-20210125-2234:

- Menuslots now are stored in bank 1 memory, giving much more available memory, enabling all other changes below
- Increased possible number of memory slots from 10 to 36, accessable via 0-9 and a-z keys (suggested by Bart van Leeuwen). Visible in two columns in 80 column mode, in 40 column mode only the first 15 options are shown (did not go for scrolling, at least not yet). Suggest to use therefore the right column for 80 column suported programs.
- Made the other options available via Function-keys (as the letter keys are now taken by the extra menu slots)
- Added option to add a user defined command to each menuslot (e.g. a partition change, a
 POKE or anything else you can imagine as long as it runs from the BASIC prompt with one
 enter, fits in 100 chars and does not give screen output other than the READY prompt
 (suggested by Bob Grimes)

Instructions

Prerequisites:

- UltimateII+ (U2+) cartridge installed, with firmware at version 3.9 or higher (link to firmware page, scroll down for U2 firmware: https://ultimate64.com/Firmware)
- 128 Device Manager ROM installed as Cartridge ROM on the U2+, version 1.99 or higher. (link: https://www.bartsplace.net/content/publications/devicemanager128.shtml)

Installation:

- Create a directory called '11' on your usb stick, and put the contents of the DMBoot ZIP there. It doesn't really matter if the usb stick is usb0 or usb1 or such, but what is important is the 'default path' setting in the Software IEC menu of the U2+ cartridge is pointing to the proper path for your usb stick. While it doesn't matter if the usb stick is usb0/1 etc, the names of the directory and file are important.
- Unzipping should place these files in the 11 directory:
 - autostart.128.prg: DMBoot main program that will be auto started on boot (and therefore has to have this name, otherwise the Device Manager ROM will not be able to recognise that this needs to be started)
 - dmb-fb.prg: Memory overlay for the file browser (cannot be executed as stand alone program)
 - dmb-geos.prg: Memory overlay for the GEOS RAM Boot code (cannot be executed as stand alone program)
 - dmb-lowc.prg: Memory overlay for shared functions loaded in the \$1300 area (cannot be executed as stand alone program)
 - o dmb-menu.prg: Memory overlay for the DMBoot main menu functions (cannot be executed as stand alone program)
 - dmb-util.prg: Memory overlay for the NTP time set and GEOS configuration settings and UI.
 - dmb-confupd-3-4.prg: Utility to upgrade the configuration file of the DM Boot main program from the 1.99 version to the 2.99 version. Only needed if coming from a previous version.
 - o readme.txt: This readme file.

Upgrade instructions from version 1.99 to 2.99:

- If you want to be able to revert to the old version (and also in all other cases as backing up is always a good idea), please backup your present config file as it will be altered/overwritten to the updated format unreadable by the old version.
- The ZIP contains the utility dmb-confupd-2-3.prg to update your present config file to the new format.
- Unzip the ZIP file and transfer first dmb-confupd-2-3.prg to the 11 dir of your UII+ USB drive.
- On your C128, move to the 11 dir and run dmb-confupd-2-3.prg to upgrade the config file.
 Of course you can also opt to start clean: in that case just delete the dmbootconf.seq file and a new empty one will be created on start of the new DMBoot version.
 Starting the new DMBoot version with the old config file however gives unexpected results as I did not program a check on the config file version.
- Only then transfer the new autostart.128.prg to the 11 dir of your USB stick.
- You can now reboot as normal. The upgraded config file should be read correctly now.

Upgrade instructions from version 2.99 to 3.9x:

- FIRST BACKUP YOUR PRESENT CONFIGURATION! This is still an alpha releases, so bugs in for example the configuration file upgrade utility might be present
- Upgrade your configuration file by running the DMB-CONFUP-3-4 program
- Add disk image mounts: Go to the filebrowser via F1, go to the correct device, press 'D' for
 dirtrace, navigate to the desired disk image and press 'A' to mount on drive A or 'B' to mount
 on drive B. Then select the target menuslot, edit the name if desired, and enter the device ID
 for the image.
- Add REU files: Go to the filebrowser via F1, go to the correct device, press 'D' for dirtrace, navigate to the desired REU file and press 'ENTER'. Then select the target menuslot, edit the name if desired, choose the REU size via '+' and '-' and press 'ENTER' to confirm.
- NOTE: The REU file needs to be in the same filepath as the drive image for disk A if that one is present (not storage space available for another path to store).
- Select the file to start from a mounted disk image on drive A (instead of running via the hyperspeed file system): Go to the filebrowser via F1, go to the correct device, press 'D' for dirtrace, navigate to the desired file to start and press 'M'. Then select the target menuslot, edit the name if desired.

First run:

• At first run no configuration file is present yet for the menu, so only the default menu options are visible:

```
DMBoot 128: Device Manager Boot Menu
Welcome to your Commodore 128.

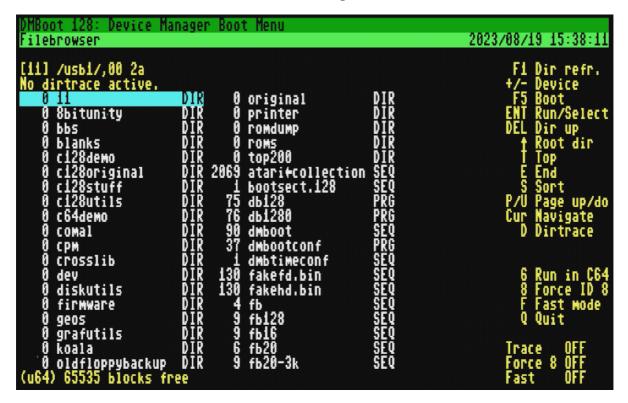
2023/08/19 15:36:43

Pilebrowser
F3 Quit to C128 Basic
F5 C64 mode F6 GEOS RAM boot
Hake your choice.
```

• For instructions of the menu options: see below.

Add start options via the Filebrowser

- Start options can be added to menuslots 0-9 and A-Z via the Filebrowser. This can be either running an executable program, or booting a specific disk image.
- For this, first choose **F1** for filebrowser. You will get a screen like this:



- Full instructions for the filebrowser are below. Here only the quick instructions to add an option to the startmenu.
- Select your desired drive target by switching pressing + or to increase resp. decrease the device number until the desired device number is selected.
- Refresh directory by **F1** if needed (empty column)

Start a directory trace by pressing D

```
MBoot 128: Device Manager Boot Menu
                                                                                    2023/08/19 15:38:11
Filebrowser
No dirtrace active.
                                                                                                Dir refr.
                                                                                                Device
Boot
Run/Select
                             original
      8bitunity
                                          printer
      bbs
                                          romdump
                                                                                                Dir up
     blanks
c128demo
c128original
c128stuff
c128utils
c64demo
                                          roms
top200
                                                                                                 Root dir
                                                                                                Top
End
Sort
                                   2069 atari+collection
i bootsect.128
75 db128
76 db1280
                                                                                           P/U Page up/do
                                                                                         Cur
D
                                                                                                Dirtrace
      comal
                                          dmboot
      CPM
Crosslib
                                          dmbootconf
                                          dmbtimeconf
                                                                                                Run in C64
Force ID 8
Fast mode
      dev
diskutils
                                           fakefd.bin
                                           fakehd.bin
                                          fb
fb128
fb16
fb20
      firmware
                                                                                                Quit
      geos
      grafutils
      koala
                                                                                          Trace
                                          fb20
      oldfloppybackup
(u64) 65535 blocks free
```

This starts a trace of your movements through the directory tree, starting from the root directory of your device. You should see the directory refreshing to this root directory.

You should also see the TRACE toggle switched to ON in the lower right corner of the screen.



Also note the other two toggles Frc 8 and FAST: these are toggled by pressing the 8 and F keys.

DMBoot 128: Device Ma Filebrowser	nager Boot Menu	2023/08/19 15:38:11
Filebrowser [ii] /usbi/,00 2a cd:/usbi/ 0 8il 0 8bitunity 0 bbs 0 blanks 0 ci28demo 0 ci28original 0 ci28stuff 0 ci28utils 0 c64demo 0 comal 0 cpm 0 crosslib 0 dev	DIR 0 original DIR DIR 0 printer DIR DIR 0 printer DIR DIR 0 roms DIR DIR 0 top200 DIR DIR 2069 atari+collection SEQ DIR 1 bootsect.128 SEQ DIR 75 dbi28 PRG DIR 76 dbi280 PRG DIR 90 dmboot SEQ DIR 37 dmbootconf PRG DIR 1 dmbtimeconf SEQ	Fi Dir refr. +/- Device F5 Boot ENT Run/Select DEL Dir up † Root dir T Top E End S Sort P/U Page up/do Cur Navigate D Dirtrace AB Add Mount M Run Mount E Pun in C64
0 firmware 0 geos	DIR 130 fakefd.bin SEQ DIR 130 fakehd.bin SEQ DIR 4 fb SEQ DIR 9 fb128 SEQ DIR 9 fb16 SEQ DIR 6 fb20 SEQ DIR 9 fb20-3k SEQ	8 Force ID 8 F Fast mode Q Vuit
0 grafutils 0 koala 0 oldfloppybackup (u64) 65535 blocks fr	DÎR 9 fb128 SEQ DIR 9 fb16 SEQ DIR 6 fb20 SEQ DIR 9 fb20-3k SEQ ee	Trace ON Force 8 OFF Fast OFF

- Force 8: This forces the device ID to be loaded from to 8 regardless of the device ID the target is located at. Only works for the U2+ Software IEC drive (identified as U64 in the lowest line of the directory column). This enables loading software that is not supporting other parts of the program from other device IDs as 8
- FAST: this starts the program in FAST mode. Only use if the target is started in 80 column mode and the target supports it.
- Browse to your desired target via the Cursor keys: UP/DOWN/LEFT?RIGHT to move within
 the directory, P for page down and U for a page up, ENTER on a directory or disk image to
 enter the selected directory or image, DEL to change to parent directory.
- To choose to have a program executed from the menuslot, select **ENTER** or **F7** on the desired executable
- To have the program executed in C64 mode from the menuslot, select **6** on the desired executable

6 Run in C64

- To choose to boot the image you are now in from the menuslot, select **F5**.
- To select a highlighted disk image (so a directory entry with an .dXX extension), press **A** or **B** to add this image to a menuslot as to be mounted on starting from that slot on the Ultimate emulated drive A resp. B. Then select the target menuslot, edit the name if desired, and enter the device ID for the image.

AB Add mount

• To select the highligihted program file to be started from the disk image mounted in drive A instead of from the hyperspeed drive, select the program by pressing **M** (instead of ENTER). Then select the target menuslot, edit the name if desired.

M Run mount

- To add a REU file to be loaded at the start of a menu option: navigate to the desired REU file and press 'ENTER'.
 - Then select the target menuslot, edit the name if desired, choose the REU size via '+' and '-' and press 'ENTER' to confirm.

NOTE: The REU file needs to be in the same filepath as the drive image for disk A if that one is present (not storage space available for another path to store).

- No validation if the configuration is correct or coherent is done, so setting up valid configurations is the users responsibility, Only very limited error handling on executing incorrectly configured menu slots is done. Mounts and REU file can be added or changed (by adding again and overwriting the previous one), but not deleted separately. To do so, the whole entry needs to be deleted. Adding disk images to mount, a REU file and choosing the file to start require all separate dirtrace actions in the filebrowser, so setting up a menuslot might take up to four entries to the filebrowser and navigating via dirtrace.
- After selecting what should be placed in a menuslot option, you should get this screen to select the menuslot position:



• If this slot is already (partly) filled, confirmation is asked. Choose Yes to proceed or No to Cancel.



- Choose **0-9** or **A-Z** key to choose the desired slot.
- Enter the desired name for the menuslot and press **ENTER**
- You now return to the main menu where you should see the menu option appearing.
- Repeat until you have selected all desired menuslot options

F1: Filebrowse menu

The filebrowser based and insprired by the DraBrowse program from https://github.com/doj/drac
opy

```
DMBoot 128: Device Manager Boot Menu
                                                                            2023/08/19 15:38:11
Filebrowser
[11] /usb1/,00 2a
                                                                                       Dir refr.
No dirtrace active.
                                                                                        Device
                           DIR
Dir
Dir
                                                                                        loot
                                    88888
                                      original
     8bitunity
bbs
                                                                                        Run/Select
                                      printer
                                                                                        Dir up
Root dir
                                      romdump
     blanks
c128demo
c128original
c128stuff
                           roms
top200
                                      atari+collection
bootsect.128
db128
                                2069
       128utils
     c64demo
                                                                                         avigate
     comal
                                      dmboot
                                      dmbootconf
                                      dmbtimeconf
     crosslib
                                      fakefd.bin
                                                                                        <u>Run in C6</u>,
     dev
     diskutils
                                                                                        Force ID 8
                                      fakehd.bin
                                                                                        Fast mode
     firmware
                                    9969
                                      fb128
     geos
     grafutils
     koala
                           DIR
                                            ·3k
     oldfloppybackup
                                                                                   Force
      65535 blocks free
```

Menu options are similar, but have diverged in newer DMBoot versions.

Key	Function
F1 / 1	Read directory in current window
+	Increase devicenumber for the current window
-	Decrease devicenumber for the current window
F5 / 5	Boot from present directory / image (added compared to DraBrowse)
RETURN	Enter directory or run the selected program
DEL	Go to parent directory
↑	Go to root directory
Т	Go to the first item in the directory
E	Go to the last item in the directory
S	Show directory entries sorted. WARNING: gets very slow on large dirs
Р	Go a page down in the directory
E	Go a page up in the directory

Key	Function
Cursor keys	Navigate in the directory
D	Toggle Dirtrace: traces the directory movements from root directory to select menuslot option
A	Select the highlighted item as image to be mounted in drive A. Only works in Dirtrace mode, highlighted item should be an image with a .Dxx extention
В	Select the highlighted item as image to be mounted in drive A. Only works in Dirtrace mode, highlighted item should be an image with a .Dxx extention
М	Select the highlighted program to be started from the disk image mounted in drive A (instead of present device of dir)
8	Toggle Force 8, forcing device ID 8 on program execution or boot. Works for menuslot option as well as directly from filebrowser.
F	Toggle FAST, enabling this makes file execution or boot start in FAST mode. Works for menuslot option as well as directly from filebrowser.
Q	Quit to main menu

F2: Information

Shows information screen. Also shouws how much VDC memory is detected. Press key to return to main menu.

```
DMBoot 128: Device Manager Boot Menu
Information and credits

DMBoot 128:
Device Manager Boot Menu for the C128
16KB VDC memory detected.

Version: v391-28230819-1527
Written 2828-2823 by Xander Mol.

Based on DraBrowse:
DraBrowse is a simple file browser.
Original 2809 by Sascha Bader.
Used version adapted by Dirk Jagdmann.

Requires and made possible by:
The C128 Device Manager ROM,
Created by Bart van Leeuwen.

The Ultimate II+ cartridge,
Created by Gideon Zweijtzer.

Press a key to continue.
```

F3: Quit to C128 Basic

Exit the bootmenu to the C128 BASIC Ready prompt. Memory will be erased on exit, SLOW mode will be selected also in 80 column mode for compatibility purposes.

F4: NTP time / GEOS config

Enables editing the settings for:

- automatically obtaining the actual time from an NTP server and setting the internal clock of the Ultimate II+ to this time
- RAM booting GEOS from a specified REU file with specified images mounted on the UII+ drives.

After pressing F4, you arrive at this screen:

```
DMBoot 128: Device Manager Boot Menu
Configuration tool.

Present configuration settings:

Update on boot toggle: On

Offset to UTC in seconds: 7200

NTP server hostname:

pool.ntp.org
GEOS RAM Boot settings:

REU filepath + name:
/usb1/11/geos2128ram2mb.reu

REU file size: (4) 2 MB

Drive A image path+name: 8
/usb1/11/c128-xmas.d64

Drive B image path+name: 0

Make your choice:

Edit NTP time configuration
Edit GEOS RAM boot configuration
Quit configuration tool
```

The screens shows you the present settings and allows you to edit them.

• **F1** Edit the settings for obtaining the time from an NTP server. This gives you this screen:

```
DMBoot 128: Device Manager Boot Menu
Configuration tool.

Present configuration settings:

NTP time update settings:

- Update on boot toggle: On

- Offset to UTC in seconds: 7200

- NTP server hostname:
pool.ntp.org
GEOS RAM Boot settings:

- REU filepath + name:
/usb1/11/geos2128ram2mb.reu

- REU file size: (4) 2 MB

- Drive A image path+name: 8
/usb1/11/c128-xmas.d64

- Drive B image path+name: 0

Make your choice:
Fi Toggle update on boot on/off
Edit time offset to UTC
F5 Edit NTP server host
F7 Back to main menu
```

• **F1** Toggles to enable or disable updating UII+ time from an NTP server at boot. Default: Enabled.

- **F3** Edits the time offset to UTC (Universal standard time). The offset needs to provided in seconds. Automated adjustment for daylight savings ('Summer' and 'Winter' time) is not provided, so you have to adjust your offset on the change from daylight saving time to not. Example: Central Europen Time requires an offset of 3600, Central European Summer Time of 7200. See https://www.timeanddate.com/time/zones/ for all offsets in hours (multiply by 3600 to get to seconds). Default: 0 (=UTC).
- **F5** Edits the NTP time server to be used. It defaults on pool.ntp.org, but you can specify your own if you want.
- F7 Back to main menu
- **F3** Edit the GEOS RAM boot configuration options. This gives you this screen:

```
DMBoot 128: Device Manager Boot Menu
Edit GEOS RAM Boot configuration. 2023/08/19 15:59:48

Make your choice:
F1 Edit REU file path and name
F3 Edit REU size
F5 Edit images to mount
F7 Back to main menu
```

• **F1** Enables editing of the path to and the filename of the REU file to use on your UII+ device. Gives this screen:

```
DMBoot 128: Device Manager Boot Menu
Edit REU file path and name. 2023/08/19 16:00:23
Enter REU file path:
/usb1/11/
Enter REU file name:
geos2128ram2mb.reu
```

• **F3** Enables editing the REU file size to match the image you have chosen. Choose + to increase size, - to decrease.

```
DMBoot 128: Device Manager Boot Menu
Edit REU size. 2023/08/19 16:01:01

REU file size: (4) 2 MB

Make your choice:
    Increase REU size
    Decrease REU size
    Back to previous menu
```

• **F5** Edits the device IDs, paths and the filenames of the images you want to mount.

```
DiBoot 128: Device Manager Boot Menu
Edit images to mount.

Enter image drive A device ID:
8
Enter image drive A file path:
/usb1/11/
Enter image drive A file name:
geoswork.d81
Enter image drive B device ID:
9
Enter image drive B file path:
/usb/11/
Enter image drive B file path:
/usb/11/
Enter image drive B file name:
geosapp.d81
```

- F7 Back to main menu
- **F7** Quit configuration tool. Only at this time new settings will be saved.

F5: C64 mode

Go to C64 mode (no confirmation will be asked)

F6: GEOS RAM boot

Boot GEOS from RAM with the specified settings. Those settings need to be configured first (via the F4 option in the main menu) for this to work.

Demonstration of booting GEOS via DMBoot (click picture to see video on Youtube):

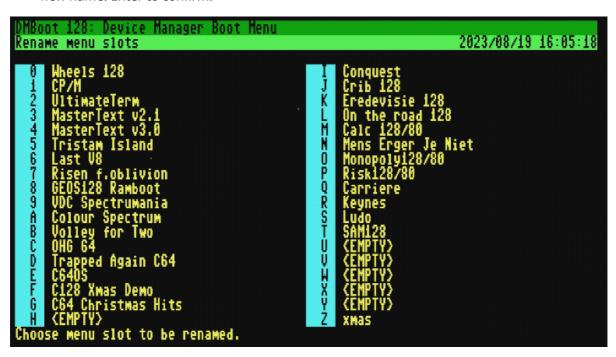


F7: Edit / re-order / delete

Enables to rename menuslots, re-order the slots or delete a slot. Selecting provides this menu:

```
Device Manager Boot Menu
                                                                                                    2023/08/19 16:04:28
Edit/Re-order/Delete menu slots
         heels 128
         lltimateTerm
lasterText v2.1
lasterText v3.0
ristam Island
ast V8
                                                                                  Erger Je Niet
             en f.oblivion
S128 Ramboot
  89
                                                                            arriere
         DC Spectrumania
olour Spectrum
olley for Two
                                                                           evnes
          rapped Again C64
       Č128 Xmas Demo
C64 Christmas Hits
(EMPTY)
       Édit menuslot name
Re-order menuslot
Quit to main menu
                                                                          Edit userdefined command
                                                                          Delete menuslot
```

• **F1** enables renaming a menuslot. Choose slot to be renamed by pressing **0-9** or **A-Z**. Enter new name. Enter to confirm.



• **F2** enables to add a user defined command. This gives this screen:

```
DMBoot 128: Device Manager Boot Menu
Edit user defined command 2023/08/19 16:06:33

Chosen slot:
Z xmas

Enter command (empty=none):
```

F1 will then enable to add an image to be mounted before the slot executable is started. Enter device ID (8 or 9 for the emulated drives, or 0 to cancel), path on the USB stick to the image and the image name.

F2 will enable to add a user defined command to be executed before the program in the slot is started. Can be any valid BASIC command.

• **F3** enables re-ordering menu slots. Choose slot to be re-ordered by pressing **0-9** or **A-Z**. Selected menu slot is highlighted white. Move option by pressing **UP** or **DOWN**. Confirm by **ENTER**. Cancel with **F7**.

```
DMBoot 128: Device Manager Boot Menu
Re-order Menu slots

| Conquest | Conque
```

• **F5** enables deleting a menu slot. Choose slot to be re-ordered by pressing **0-9** or **A_Z**. Confirm by pressing **Y** for yes, or **N** for no.

• **F7** takes you back to main menu. Changes made are saved only now.

Screenshot from real device



Credits

Based on DraBrowse:

DraBrowse (db*) is a simple file browser, originally created 2009 by Sascha Bader.

Used version adapted by Dirk Jagdmann (doj)

https://github.com/doj/dracopy

Uses code from:

Ultimate 64/II+ Command Library

Scott Hutter, Francesco Sblendorio

https://github.com/xlar54/ultimateii-dos-lib

Requires and made possible by the C128 Device Manager ROM, created by Bart van Leeuwen.

https://www.bartsplace.net/content/publications/devicemanager128.shtml

Requires and made possible by the Ultimate II+ cartridge, created by Gideon Zweijtzer.

https://ultimate64.com/

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