Unofficial PrometheOS 1.4.0 guide
by Bond San

Version: Alpha September 2024

Contents

Main menu

PROMETHEOS

Launch Bank
Bank Management
System
Reboot
Shutdown

IP 192.168.0.101   CPU Temp 58°C   M/B Temp 48°C   Free Mem 109MB

Main menu will display when a BIOS has not been selected to Auto Boot.
Will also display when the Xbox is powered on with the cd-rom eject button.

Shown at the bottom;
 IP address of the LAN adapter
 Temperatures of the CPU and Motherboard
 Available free memory
 (128 Mebibyte modification shown (mebibit=1024, megabit=1000)).

Launch Bank

Please select a bank to launch...
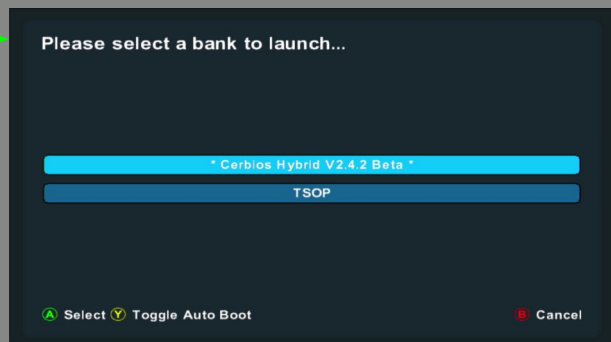
* Cerbios Hybrid V2.4.2 Beta *
TSOP

Ⓐ Select Ⓨ Toggle Auto Boot   Ⓑ Cancel

List of stored BIOS's that can be launched.
BIOS's are added using the Bank Management→Flash Bank menu.

* ... * Stars indicate the selected bank will automatically boot when the Xbox is powered on using the power button.
The default is no bank will auto boot.

TSOP is the BIOS storage chip on the Xbox motherboard.
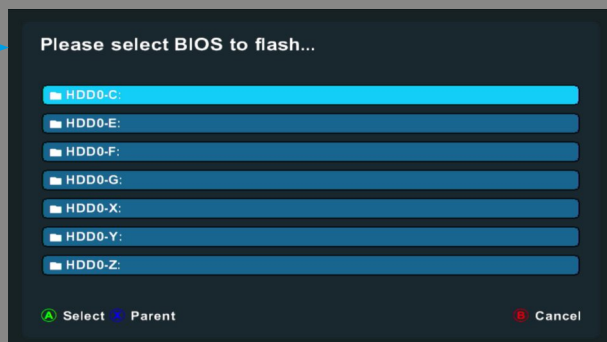By default it is the Microsoft factory BIOS.

Bank Management

Select Bank option...

Flash Bank
Remove Bank
Edit Bank

Ⓐ Select   Free Slots 3   Ⓑ Back
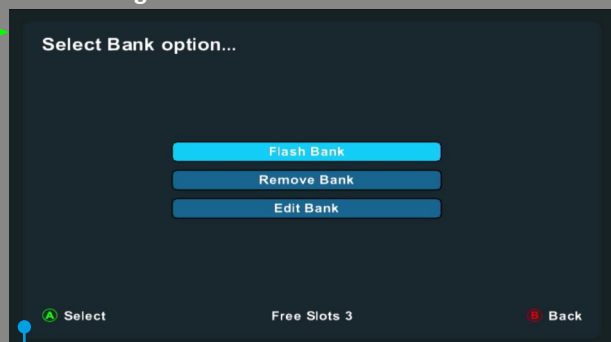
Add BIOS to modchip storage, remove BIOS's and edit a BIOS display name and modchip LED colour.

Displayed at the bottom, the free slots displays the remaining amount of BIOS's that can be stored on the modchip storage.

Flash Bank

Please select BIOS to flash...

HDD0-C:
HDD0-E:
HDD0-F:
HDD0-G:
HDD0-X:
HDD0-Y:
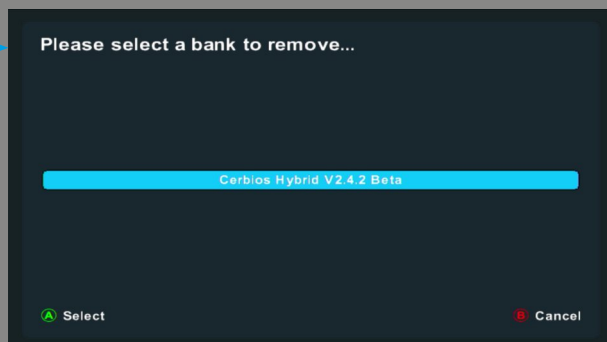HDD0-Z:

Ⓐ Select Ⓧ Parent   Ⓑ Cancel

Select a location of a .bin file to load.
Locations can be a hard drive, DVD or a USB storage device.

BIOS's can also be transferred using the HTTP interface, see HTTP interface section.
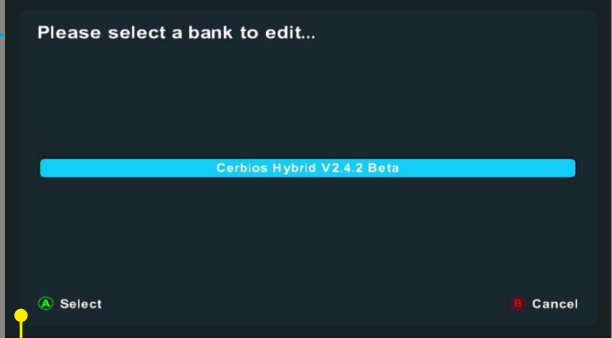
Remove Bank

Please select a bank to remove...

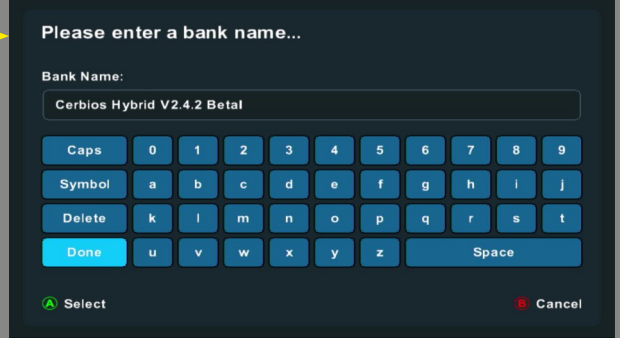Cerbios Hybrid V2.4.2 Beta

Ⓐ Select   Ⓑ Cancel

Remove a BIOS from the stored list.

Edit Bank

Please select a bank to edit...

Cerbios Hybrid V2.4.2 Beta

Ⓐ Select   Ⓑ Cancel

Select a bank to modify the display name and modchip LED colour.

edit bank name

Please enter a bank name...

Bank Name:

Cerbios Hybrid V2.4.2 Betal

Caps	0	1	2	3	4	5	6	7	8	9
Symbol	a	b	c	d	e	f	g	h	i	j
Delete	k	l	m	n	o	p	q	r	s	t
Done	u	v	w	x	y	z	Space

Ⓐ Select   Ⓑ Cancel

Modify the BIOS display name.

select LED colour

Please select a LED Color...

| Off | Red | Green | Yellow |
| Blue | Purple | Turquoise | White |

Ⓐ Select   Ⓑ Cancel
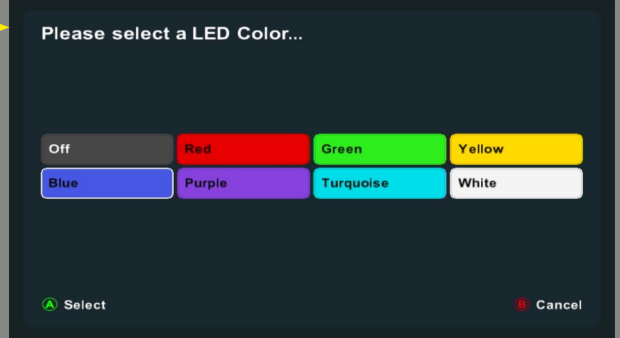
Select onboard modchip LED colour. LED stays active unless the 'Off' option is selected.

System

Select System option...

System Info
Settings
Utilities
Games

Ⓐ Select   Ⓑ Back
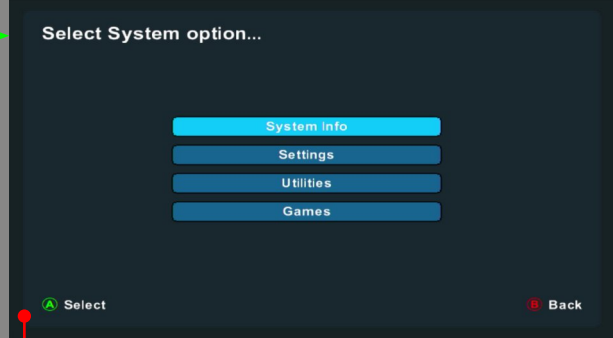
Console information, Xbox region, display modes, HDMI settings, network settings, date and time, Video, audio and HDMI output settings, PrometheOS skin and sound pack

System information

Select System Info option...

Console
Storage
Audio
Video
About

Ⓐ Select   Ⓑ Back
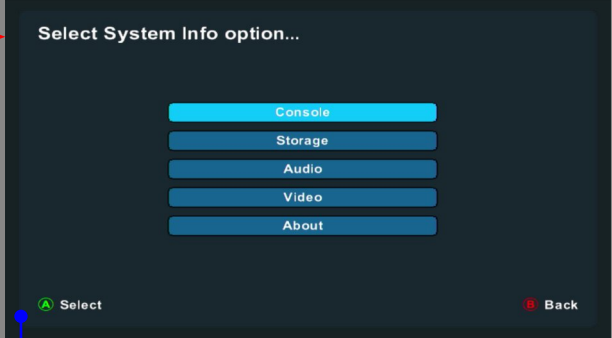
Hardware and settings information.

Console

System Info: Console

CPU: 732.86MHz
Xbox Rev: 1.0
RAM: 128MB
Serial: 310607421103
Mac: 0050F262A106
RTC Expansion: Not Detected

B Back

Xbox revision; can be 1.0, 1.1, 1.2, 1.3, 1.4 or 1.6
(there is no 1.5 revision).
RAM; installed, can be 64, 128 or 256 Mebibytes.
Serial; number stored in the EEPROM, the same as on a
sticker on the bottom of the console.
MAC; address of the network adapater.
Real time clock expansion adapter; project available at
https://github.com/Andr-Zero/X-RTC.

Storage

System Info: Storage

HDD Model: WDC WD20EARS-00MVWB0
HDD Serial: WD-WCAZA2869699

B Back

Hard disk drive; model string and serial string.

Audio

System Info: Audio

Audio Mode: Stereo
Dolby digital (AC3): Disabled
DTS: Disabled

B Back

Audio mode; can be one of the following options
Mono, Stereo, Surround.

Dolby digital (AC3); primarily used in games; list of games
that support Dolby digital https://www.mobygames.com/
game/attribute:274/platform:xbox/sort:title/page:1/)

DTS; (Digital Theater Systems) primarily used for video
DVD playback.

Video

System Info: Video

Video Standard: NTSC-M
Game Region: North America
DVD Region: Region 1 (North America)
Encoder: Conexant
HD Mod: V2.3.0

B Back

Video Standard; can be one of the following options;
 NTSC-M, NTSC-J, PAL or PAL-60
DVD Region; can be one of the following options;
1(North America),
Video Encoder; can be Conexant, Focus or Xcalibur

HD Mod; displays the current firmware of a HDMI
modification if one is installed.

About

System Info: About

| |
|---|
| PrometheOS: V1.4.0 |
| Team Cerbios + Team Resurgent |
| Coded By: EqUiNoX |
| Skin Author: |

B Back

PrometheOS; firmware version installed.

Credits of the teams and the devolper responsible for
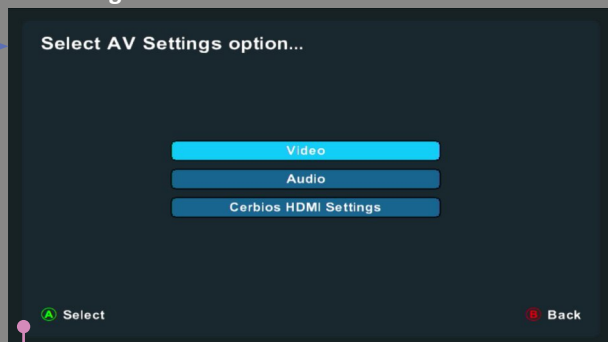creating the PrometheOS operating system.

Credit of current PrometheOS skin author,
selected in the System→Settings→PrometheOS→Skins
menu.

Settings

Select Settings option...

- AV Settings
- Region
- Network
- Date Time
- PrometheOS

Ⓐ Select   Ⓑ Back
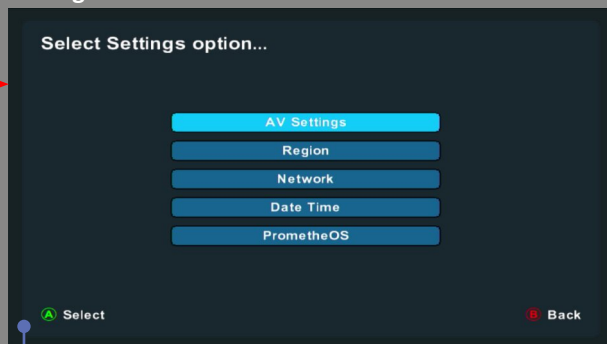
Video, audio and HDMI output settings, region, network settings, date and time, PrometheOS skins and sound packs.

AV Settings

Select AV Settings option...

- Video
- Audio
- Cerbios HDMI Settings

Ⓐ Select   Ⓑ Back

Video, audio and HDMI output settings.

Video

Video settings...

Video Modes
- 480p
- 720p
- 1080i

Aspect Ratio
- Normal
- Letterbox
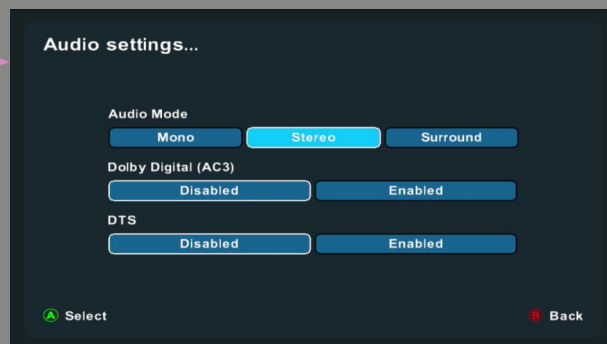- Widescreen

Ⓐ Select   Ⓑ Back

Here video output modes can be enabled or disabled.
The "p" stands for progressive scan, meaning the lines are displayed sequentially from top to bottom rather than "i" interlaced as two separate fields.
480 x 845   progressive
720 x 1280   progressive
1080 x 1920 interlaced

https://consolemods.org/wiki/
Xbox:Games_with_Alternate_Display_Modes

Set the aspect ratio of the output video;
   Normal 4:3
   **Letterbox** 16:9
   Widescreen 16:9

Audio

Audio settings...

Audio Mode
- Mono
- Stereo
- Surround

Dolby Digital (AC3)
- Disabled
- Enabled

DTS
- Disabled
- Enabled

Ⓐ Select   Ⓑ Back

Audio output mode can be,
  Mono; one audio channel,
  Stereo; two audio channels,
  Surround; five surround speakers and one subwoofer channel.

For surround sound a suitable receiver that can accept either Dolby digital or dts is required.

You might not have audio if these are enabled and connected to a receiver that does not support these output methods.

Cerbios HDMI Settings

Select Cerbios HDMI Settings option...

- Video Settings
- Advanced
- Interpolation
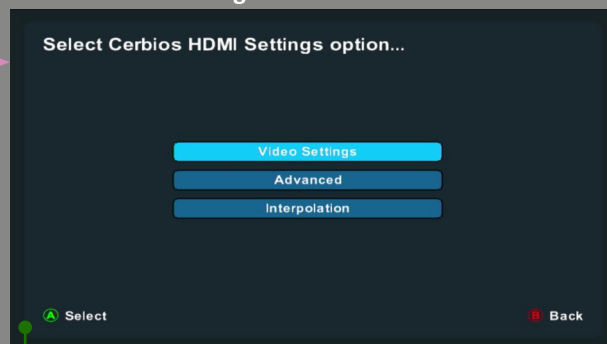
Ⓐ Select   Ⓑ Back

If a HDMI modification is installed, modify the video output settings.

Video Settings

HDMI Video settings...

Target Resolution (Upscale)
[**480p**] [720p]

4:3 Widescreen
[Auto] [Force] [Never]

Other
[Pre-scale 480p: Disabled]
[Assume 16:9 480p: Disabled]

Ⓐ Select   Ⓑ Back

Target Resolution; determines the baseline output resolution. If the Xbox's framebuffer is below this designated resolution, the video output will undergo upscaling.
Output options are 480 or 720 progressive

4:3 Widescreen
 Auto; automatically stretch anomorphic 640 x 480 to 16:9
 Force; always stretch 640 x 480 content to 16:9
 Never; never stretch 640 x 480 content to 16:9

Other
 Pre-scale 480p; The 'prescale correction' setting adjusts the video output for 640x480 4:3 content presented in 480p, ensuring the end image maintains an authentic 4:3 aspect ratio.

 Assume 16:9 480p: Retail NTSC games can request 480P without clearly indicating whether they desire a 16:9 aspect ratio, regardless of whether the resolution is 720x480 or 640x480. Activating this option is generally a sound choice for most retail games. It will default to anamorphic widescreen in such instances, taking into account the '4:3 Widescreen' setting. This adjustment accounts for the typical behavior of many displays that interpret 4:3 480p content without considering AVI Infoframe bar information. This setting is relevant and necessary only when the output target is specified as 480p.

Advanced

HDMI Advanced settings...

HDMI Colorspace
[**YCBCR**] [RGB]

Upscaling Interpolation
[Bilinear] [Truncate]

Other
[Auto Video Blanking: Disabled]
[Auto Region Switching: Enabled]

Ⓐ Select   Ⓑ Back

HDMI Colorspace; the Xbox by default sends the framebuffer as YCbCr to the onboard encoder. With this option you can choose to skip the colorspace conversion and output the framebuffer directly as RGB.

Upscaling Interpolation; controls the scaling algorithm used when the output resolution is not native.

Other
 Auto video blanking; During display mode changes, the GPU output on the Xbox is in an unknown state. This can result in graphical 'garbage' being shortly displayed

 Auto region switching;

Interpolation

HDMI Interpolation settings...

Scale
[X - Bilinear] [X - Truncate]
[Y - Bilinear] [Y - Truncate]
Weight
[X - Bilinear] [X - Truncate]
[Y - Bilinear] [Y - Truncate]

Ⓐ Select   Ⓑ Back

Scale; speratly adjust the vertical and horizontal scaling algorithm
 Bilinear
 Truncate(nearest-neighbor)

Weight; interpolation X and/or Y weight controls the weight of the current pixel when scaling the Xbox's framebuffer horizontally and/or vertically.

Region

Region settings...

Video Standard
[**NTSC-M**] [NTSC-J] [PAL-I (50hz)] [PAL-I (60hz)]
Game Region
[North America] [Japan] [Rest of World]
DVD Region
[Region 1 (North America)]

Ⓐ Select   Ⓑ Back

Video Standard; by selecting PAL-I (50Hz) or PAL-I (60Hz), games will not be able to output 720p or 1080i video resolutions.

Game Region; adjust the region for physical disc games. Most games are region locked.
DVD Region; adjust the region for video disc playback.

Network

Network Settings...

[Mode: Static IP]
[IP Address: 192.168.0.101]
[Subnet Mask: 255.255.255.0]
[Gateway: 0.0.0.0]
[Primary DNS: 0.0.0.0]
[Secondary DNS: 0.0.0.0]

Ⓐ Select   Ⓑ Back

Mode can be one of three options;
 Static IP; manually set the LAN adapter IP address.
 Dynamic IP (Automatic DNS); settings from a DHCP service.
 Dynamic IP (Manual DNS); settings from a DHCP service,
                manually set the DNS addresses.

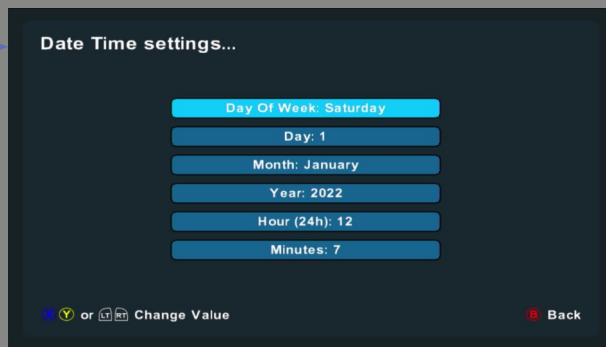**IP Address**; manually set or received from a DHCP service.
Subnet Mask; distinguish the network address and the host address within an IP address.
Gateway; device that connects disparate networks, can be the IP address of a PC LAN adapter with Internet connection sharing.
Primary DNS;
Secondary DNS; 8.8.8.8 is the primary DNS server for Google DNS.

Date Time

Date Time settings...

Day Of Week: Saturday
Day: 1
Month: January
Year: 2022
Hour (24h): 12
Minutes: 7

Y or LT RT Change Value   B Back

Modify the date and time;
Date and time will only be saved while
there is power connected or the clock
capacitor is charged or a RTC
modification is installed.
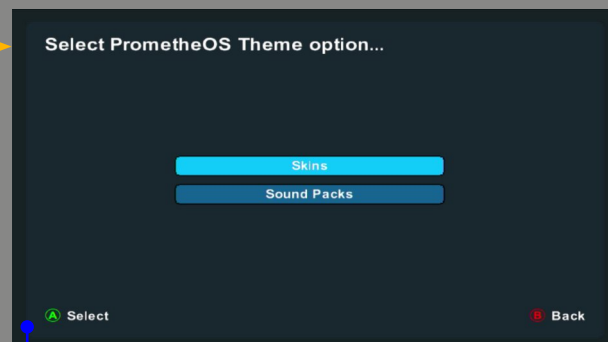The date and time will default to,
01/01/2022 12:00AM

XBox revisions 1.0, 1.1, 1.2, 1.3, 1.4 have
clock capacitors that are more likely than
a 1.6 to leak corrosive materials because
of thier age.

PrometheOS

Select PrometheOS option...

Themes
General Options
Update PrometheOS
Backup PrometheOS

A Select   B Back
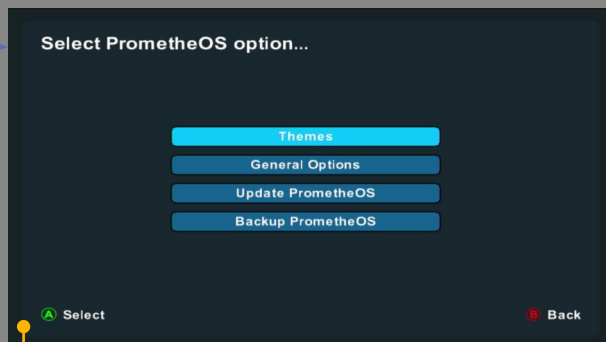
PrometheOS skin and sound pack, boot time
delays, update and backup PrometheOS,
PrometheOS audio and music volumes, LCD
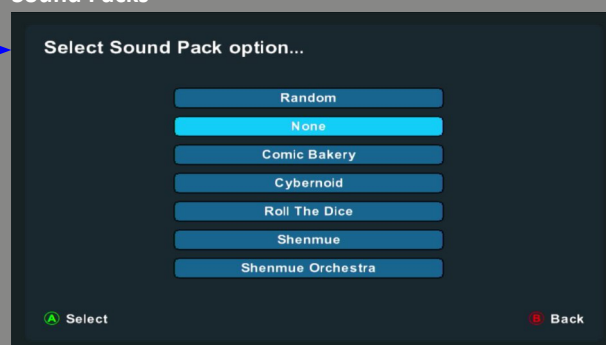modification, fan speed, drives setup, front
panel LED colour.

Themes

Select PrometheOS Theme option...

Skins
Sound Packs

A Select   B Back

Variations of menu colours, backgrounds,
interface audio and music.

Skins

Select Skin option...

Random
Default
ACE
Amiga WB 1.3
Dempsey
EqUiNoX
FamilyPortrait

A Select   B Back

Skins are loaded from;
   E:\PrometheOS\Skins

Sound Packs

Select Sound Pack option...

Random
None
Comic Bakery
Cybernoid
Roll The Dice
Shenmue
Shenmue Orchestra

A Select   B Back

Sound Packs are loaded from;
   E:\PrometheOS\SoundPacks

General Options

General Options...

Boot Options
Audio/Video Options
LCD Options
Miscellaneous Options

Ⓐ Select   Ⓑ Back
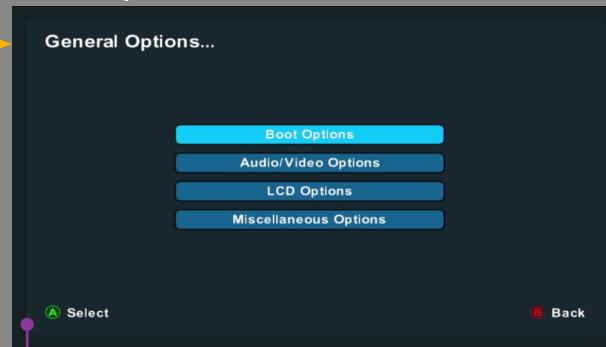
Splash screen and BIOS boot timeouts, music and sound volumes of PrometheOS, LCD modification, fan speed, drives setup, front panel LED colour.

## Boot Options

Boot Options...

Splash Boot Delay: 0 Seconds
Auto Boot Delay: 0 Seconds

Ⓧ Ⓨ or LT RT Change Value   Ⓑ Back
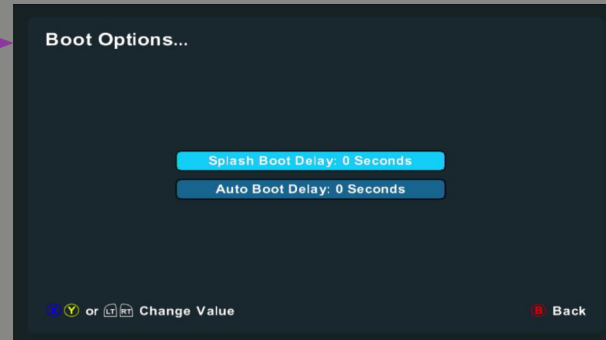
Splash Boot Delay; Amount of time to display the PrometheOS splash screen before loading the PrometheOS interface or auto-booting to a BIOS. Values from 0 to 15 seconds

Auto Boot Delay; If a BIOS has been selected in **Launch Bank** for auto-booting then this adjusts the delay before booting that BIOS. Values from 0 to 30 seconds.
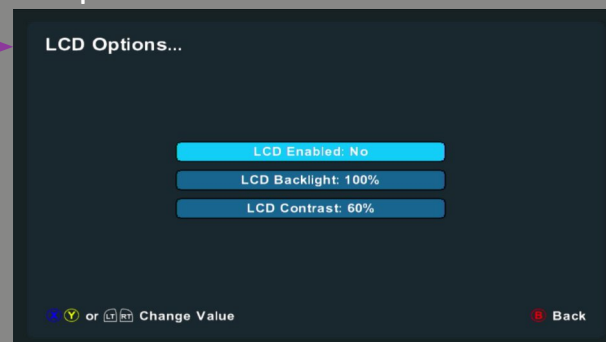
Audio/Video Options

Audio/Video Options...

Music Volume: 100%
Sound Volume: 100%
VGA Enabled: No

Ⓧ Ⓨ or LT RT Change Value   Ⓑ Back
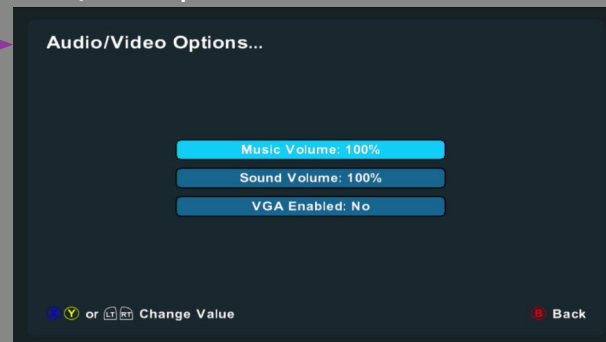
Music Volume; PrometheOS audio pack music volume. Values from 0% to 100% in steps of 5%.

Sound Volume; PrometheOS interface sounds volume. Values from 0% to 100% in steps of 5%.

VGA enabled; Requires a custom built cable that can seperate the Sync-on-Green signal or a monitor that supports Sync-on-Green.
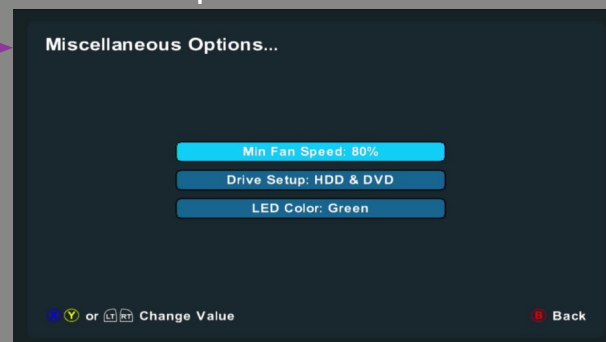
LCD Options

LCD Options...

LCD Enabled: No
LCD Backlight: 100%
LCD Contrast: 60%

Ⓧ Ⓨ or LT RT Change Value   Ⓑ Back

If a front panel LCD modification is installed;

LCD Enabled; either No or Yes.
LCD Backlight; values from 0% to 100% in steps of 4%.
LCD Contrast; values from 0% to 100% in steps of 4%.

Miscellaneous Options

Miscellaneous Options...

Min Fan Speed: 80%
Drive Setup: HDD & DVD
LED Color: Green

Ⓧ Ⓨ or LT RT Change Value   Ⓑ Back

Minimum Fan Speed; set the internal rear fan speed while in PrometheOS. Values from 10% to 100% in steps of 10%.

Drive Setup; determines how volume and partition labels are associated in a dashboard. Values can be HDD & DVD, HDD & No DVD (Legacy), HDD & No DVD (Modern), Dual HDD.
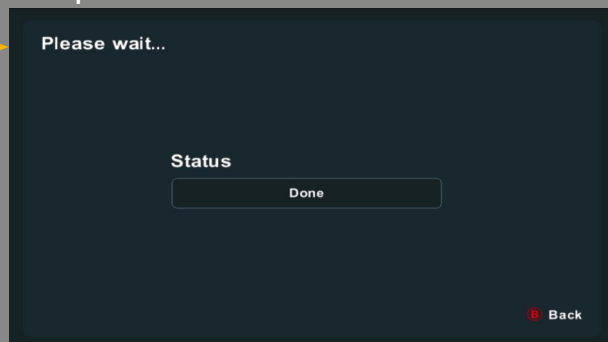
LED colour; the front panel colour that surrounds the eject button.
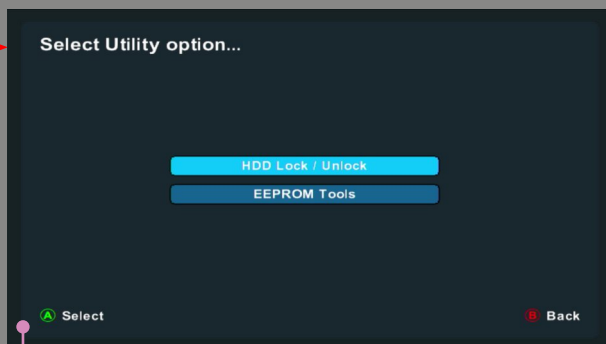
Update PrometheOS
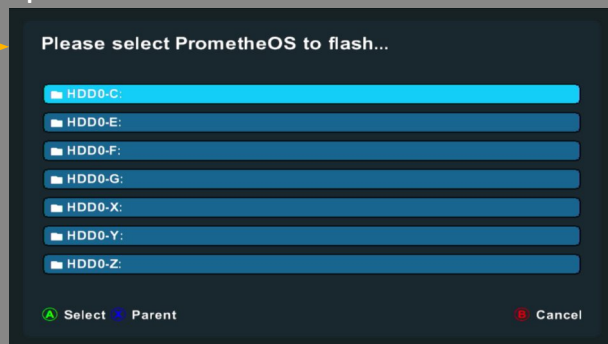
Location of a PrometheOS .bin file to replace on modchip storage.
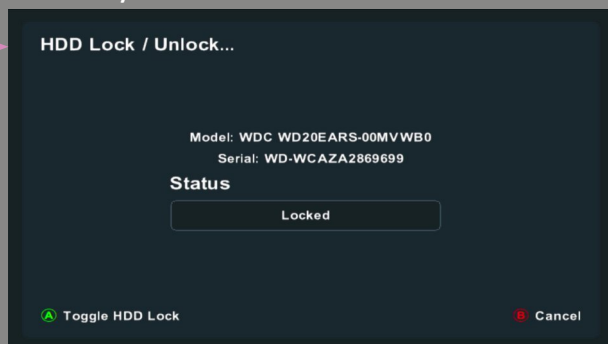
Backup PrometheOS

Saves PrometheOS-Xenium.bin file to the E:\PrometheOS\Backup folder

Utilities

Unlock or lock a HDD generated from XBox serial number from EEPROM.
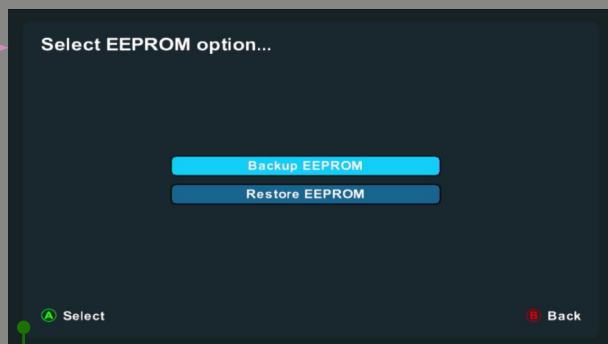
HDD Lock / Unlock

A unlocked HDD will be unable to boot from a Microsoft BIOS into the default dashboard.
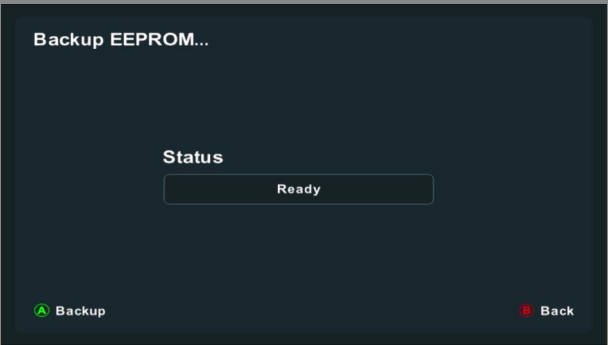
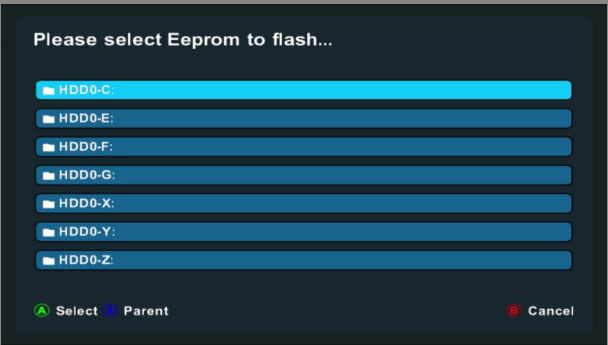Unlock a HDD to easily modify it's contents from a computer.

EEPROM Tools

Save the EEPROM contents to a file and flash .bin file to the motherboard EEPROM IC. Modifications will be required to enable the EEPROM to be written to [note 3].

Backup EEPROM

Backup EEPROM...

Status

Ready

(A) Backup   (B) Back

Saves the EEPROM contents to a file .bin file in the E:\PrometheOS\Backup\EEPROMs folder.

Restore EEPROM

Please select Eeprom to flash...

- HDD0-C:
- HDD0-E:
- HDD0-F:
- HDD0-G:
- HDD0-X:
- HDD0-Y:
- HDD0-Z:

(A) Select (X) Parent   (B) Cancel
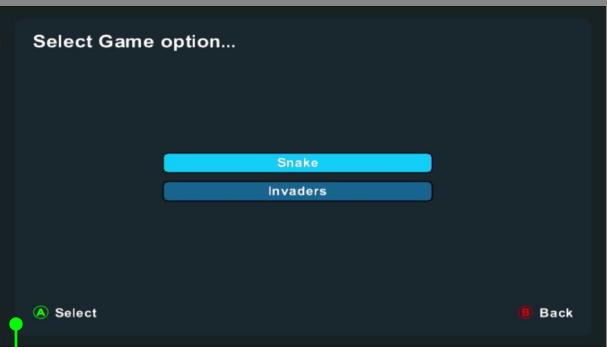
Locate a .bin file with the size of 256 bytes.

The motherboard needs adjustments to enable writing of the EEPROM.

Games

Select Game option...

Snake

Invaders

(A) Select   (B) Back

Games installed on the modchip storage.

Snake

Snake

Hi-Score: 0, Score: 0   (B) Back
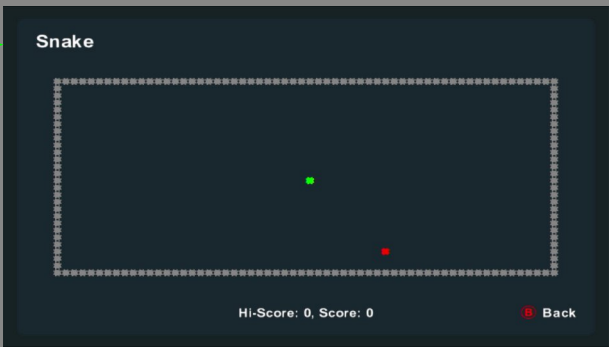
Controlls are; direction pad up, down, left and right.

Invaders

Invaders - Level 1

Hi-Score: 0, Score: 0   (B) Back

Controlls are; direction pad left, right and A button to fire.

Cerbios restart button combinations

Using the Cerbios V2.4.2 Beta BIOS, gamepad button combinations can be used to restart to a certain start-up stage.

To restart to the dashboard, for example back to the Xbox4Gamers dashboard;

LT	+	**RT**	+	◀	+	▶
Left trigger		Right trigger		Back		Start

To restart the current game or application;

LT	+	**RT**	+	●	+	▶
Left trigger		Right trigger		Black		Start

To restart to the BIOS;

LT	+	**RT**	+	●	+	◀
Left trigger		Right trigger		Black		Back

To power cycle / soft reboot the Xbox;

LT	+	**RT**	+	●	+	▲
Left trigger		Right trigger		Black		D-pad up

To power off the Xbox;

LT	+	**RT**	+	◀	+	▲
Left trigger		Right trigger		Back		D-pad up

Game and Xbmc4Gamers graphical issues

If there are games with any graphical issues try loading the game with a different video mode. While the game is selected in the carousel, press the white gamepad button ⬜ to display the context menu.
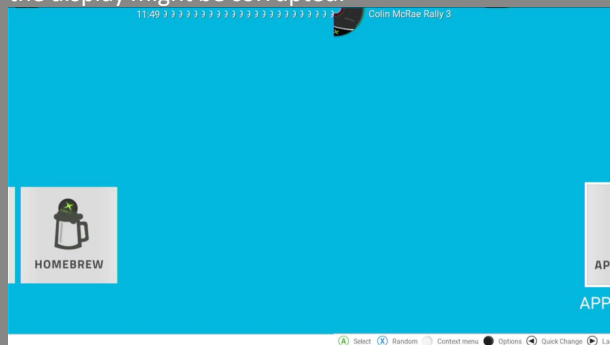

Use the d-pad to move down to 'Launch in..' menu option and press the A button.

The default video mode is NTSC-M, launching the game in PAL or PAL-60 video mode, might resolve any graphical issues.

Sometimes after rebooting a game back to the Xbmc4Gamers dashboard, using the button combination, LT + RT + ◄ + ► the display might be corrupted.

A soft reboot using, LT + RT + ● + ⬟ will be required to clear the issue.