

What are BIOS files and how to add them

BIOS files are files required for some emulators to operate correctly. For example, the PlayStation 1 and the NeoGeo require a BIOS file to work. These files are not packaged together with the system. These are not legally distributed, so you will need to supply your own.

To add BIOS files, you need to connect to your Batocera device from a computer :

1. From your computer directory (or finder on Mac OS), browse the network
2. Find Batocera (or directly type \\batocera (windows) or smb://batocera.local (Linux))
3. Add BIOS files into the BIOS directory

List of BIOS files that are suitable

Use the md5sum command to get the checksum of your files. There is also the ability to check **MISSING BIOS** from the EmulationStation menu.

You can find the versions of the BIOS files required by your system when connecting with SSH, they are listed in the file `/usr/share/batocera/datainit/bios/readme.txt`

Here are the compatible md5 and filenames, per system as of Batocera 5.24:

3DO:

- f47264dd47fe30f73ab3c010015c155b bios/panafz1.bin
- 51f2f43ae2f3508a14d9f56597e2d3ce bios/panafz10.bin
- 8639fd5e549bd6238cfee79e3e749114 bios/goldstar.bin
- 35fa1a1ebaaeea286dc5cd15487c13ea bios/sanyotry.bin
- 8970fc987ab89a7f64da9f8a8c4333ff bios/3do_arcade_saot.bin

Amiga:

- bb72565701b1b6faece07d68ea5da639 bios/CD32 Extended-ROM r40.60 (1993)(Commodore)(CD32).rom
- 89da1838a24460e4b93f4f0c5d92d48d bios/CDTV Extended-ROM v1.0 (1991)(Commodore)(CDTV)[!].rom
- 85ad74194e87c08904327de1a9443b7a bios/Kickstart v1.2 r33.180 (1986)(Commodore)(A500-A1000-A2000)[!].rom
- 68c9c0826f6c0ca20546d588ee77391c bios/Kickstart v1.2 rev 33.166 (1986)(Commodore)(A1000).rom
- 192d6d950d0ed3df8040b788502831c2 bios/Kickstart v1.3 r34.5 (1987)(Commodore)(A500-A1000-A2000-CDTV)[o].rom
- 82a21c1890cae844b3df741f2762d48d bios/Kickstart v1.3 r34.5 (1987)(Commodore)(A500-A1000-A2000-CDTV)[!].rom
- dc10d7bdd1b6f450773dfb558477c230 bios/Kickstart v2.04 r37.175 (1991)(Commodore)(A500+)[!].rom
- 465646c9b6729f77eea5314d1f057951 bios/Kickstart v2.05 r37.350 (1992)(Commodore)(A600HD)[!].rom
- 5f8924d013dd57a89cf349f4cdedc6b1 bios/Kickstart v3.1 r40.60

(1993)(Commodore)(CD32).rom

- 646773759326fbac3b2311fd8c8793ee bios/Kickstart v3.1 r40.68
(1993)(Commodore)(A1200)[!].rom
- 413590e50098a056cfec418d3df0212d bios/Kickstart v3.1 r40.68
(1993)(Commodore)(A3000).rom
- 9bdedde6a4f33555b4a270c8ca53297d bios/Kickstart v3.1 r40.68
(1993)(Commodore)(A4000).rom

Atari 5200:

- 281f20ea4320404ec820fb7ec0693b38 bios/5200.rom
- 06daac977823773a3eea3422fd26a703 bios/ATARIXL.ROM
- 0bac0c6a50104045d902df4503a4c30b bios/ATARIBAS.ROM
- eb1f32f5d9f382db1bbfb8d7f9cb343a bios/ATARIOSA.ROM
- a3e8d617c95d08031fe1b20d541434b2 bios/ATARIOSB.ROM

Atari 7800:

- 397bb566584be7b9764e7a68974c4263 bios/7800 BIOS (E).rom
- 0763f1ffb006ddbe32e52d497ee848ae bios/7800 BIOS (U).rom
- ce6a86574d0c9de9075705f14e99d090 bios/ProSystem.dat

Atari ST:

- b2a8570de2e850c5acf81cb80512d9f6 bios/tos.img

Dreamcast:

- e10c53c2f8b90bab96ead2d368858623 bios/dc_boot.bin
- 0a93f7940c455905bea6e392dfde92a4 bios/dc_flash.bin

Nintendo Family Computer Disk System:

- 7bfe8c0540ed4bd6a0f1e2a0f0118ced bios/NstDatabase.xml
- ca30b50f880eb660a320674ed365ef7a bios/disksys.rom

Game Gear:

- 672e104c3be3a238301aceffc3b23fd6 bios/bios.gg

Game Boy:

- 32fbbd84168d3482956eb3c5051637f5 bios/gb_bios.bin
- dbfce9db9deaa2567f6a84fde55f9680 bios/gbc_bios.bin

Game Boy Advance:

- a860e8c0b6d573d191e4ec7db1b1e4f6 bios/gba_bios.bin
- 32fbbd84168d3482956eb3c5051637f5 bios/gb_bios.bin
- dbfce9db9deaa2567f6a84fde55f9680 bios/gbc_bios.bin
- d574d4f9c12f305074798f54c091a8b4 bios/sgb_bios.bin

Game Boy Color:

- 32fbbd84168d3482956eb3c5051637f5 bios/gb_bios.bin
- dbfce9db9deaa2567f6a84fde55f9680 bios/gbc_bios.bin

Mattel Intellivision:

- 62e761035cb657903761800f4437b8af bios/exec.bin
- 0cd5946c6473e42e8e4c2137785e427f bios/grom.bin
- 2e72a9a2b897d330a35c8b07a6146c52 bios/ECS.bin
- d5530f74681ec6e0f282dab42e6b1c5f bios/IVOICE.bin

Lynx:

- fcd403db69f54290b51035d82f835e7b bios/lynxboot.img

MasterSystem:

- 840481177270d5642a14ca71ee72844c bios/bios_E.sms
- 840481177270d5642a14ca71ee72844c bios/bios_U.sms
- 24a519c53f67b00640d0048ef7089105 bios/bios_J.sms

MSX:

- 364a1a579fe5cb8dba54519bcfcdac0d bios/MSX.ROM
- ec3a01c91f24fbddcbcab0ad301bc9ef bios/MSX2.ROM
- 2183c2aff17cf4297bdb496de78c2e8a bios/MSX2EXT.ROM
- 847cc025ffae665487940ff2639540e5 bios/MSX2P.ROM
- 7c8243c71d8f143b2531f01afa6a05dc bios/MSX2PEXT.ROM
- 80dcd1ad1a4cf65d64b7ba10504e8190 bios/DISK.ROM
- 6f69cc8b5ed761b03afd78000dfb0e19 bios/FMPAC.ROM
- 6418d091cd6907bbcf940324339e43bb bios/MSXDOS2.ROM
- 403cdea1cbd2bb24fae506941f8f655e bios/PAINTER.ROM
- febe8782b466d7c3b16de6d104826b34 bios/KANJI.ROM

Nintendo 64:

- 8d3d9f294b6e174bc7b1d2fd1c727530 bios/64DD_IPL.bin

Naomi:

- 3bffafac42a7767d8dcecf771f5552ba bios/naomi.bin
- e63d892cdb8b532351dc7020bb60b6f4 bios/naomi.zip

Nintendo DS:

- 145eaef5bd3037cbc247c213bb3da1b3 bios/firmware.bin
- df692a80a5b1bc90728bc3dfc76cd948 bios/bios7.bin
- a392174eb3e572fed6447e956bde4b25 bios/bios9.bin

NeoGeo:

- roms/neogeo/neogeo.zip

NeoGeo CD:

- bios/neogeo.zip
- bios/neocdz.zip
- bios/ng-lo.rom
- bios/neocd_z.rom

Odyssey 2:

- 562d5ebf9e030a40d6fabfc2f33139fd bios/o2rom.bin
- f1071cdb0b6b10dde94d3bc8a6146387 bios/c52.bin
- c500ff71236068e0dc0d0603d265ae76 bios/g7400.bin
- 279008e4a0db2dc5f1c048853b033828 bios/jopac.bin

PC Engine:

- ff1a674273fe3540cce576376407d1d bios/syscard3.pce

PC-FX:

- 08e36edbea28a017f79f8d4f7ff9b6d7 bios/pcfx.rom

Nintendo Pokemon Mini:

- 1e4fb124a3a886865acb574f388c803d bios/bios.min

Doom (PrBoom):

- roms/prboom/prboom.wad

PS2:

- 28922c703cc7d2cf856f177f2985b3a9 bios/SCPH30004R.bin
- 3faf7c064a4984f53e2ef5e80ed543bc bios/SCPH30004R.MEC
- d5ce2c7d119f563ce04bc04dbc3a323e bios/scph39001.bin
- 3faf7c064a4984f53e2ef5e80ed543bc bios/scph39001.MEC
- 9a9e8ed7668e6adfc8f7766c08ab9cd0 bios/EROM.BIN
- 44552702b05697a14ccbe2ca22ee7139 bios/rom1.bin
- b406d05922dac2eaf3c2e68157b1b468 bios/ROM2.BIN

PSX:

- 6e3735ff4c7dc899ee98981385f6f3d0 bios/scph101.bin
- dc2b9bf8da62ec93e868cfd29f0d067d bios/scph1001.bin
- 8dd7d5296a650fac7319bce665a6a53c bios/scph5500.bin
- 490f666e1afb15b7362b406ed1cea246 bios/scph5501.bin
- 32736f17079d0b2b7024407c39bd3050 bios/scph5502.bin
- 1e68c231d0896b7eadcad1d7d8e76129 bios/scph7001.bin

Satellaview:

- fed4d8242cfbed61343d53d48432aced bios/BS-X.bin

Sega Saturn:

- af5828fdff51384f99b3c4926be27762 bios/saturn_bios.bin
- 85ec9ca47d8f6807718151cbcca8b964 bios/sega_101.bin
- 3240872c70984b6cbfda1586cab68dbe bios/mpr-17933.bin
- 255113ba943c92a54facd25a10fd780c bios/mpr-18811-mx.ic1
- 1cd19988d1d72a3e7caa0b73234c96b4 bios/mpr-19367-mx.ic1
- 53a094ad3a188f86de4e64624fe9b3ca bios/stvbios.zip

Sega 32x:

- e66fa1dc5820d254611fdcdba0662372 bios/bios_CD_E.bin
- 854b9150240a198070150e4566ae1290 bios/bios_CD_U.bin
- 278a9397d192149e84e820ac621a8edd bios/bios_CD_J.bin

Sega CD:

- e66fa1dc5820d254611fdcdba0662372 bios/bios_CD_E.bin
- 854b9150240a198070150e4566ae1290 bios/bios_CD_U.bin
- 278a9397d192149e84e820ac621a8edd bios/bios_CD_J.bin

Sufami:

- d3a44ba7d42a74d3ac58cb9c14c6a5ca bios/STBIOS.bin

Supergrafx:

- ff1a674273fe3540cce576376407d1d bios/syscard3.pce
- bios/syscard2.pce
- bios/syscard1.pce
- bios/gexpress.pce

Sharp x68000:

- bios/keropi/iplrom.dat
- bios/keropi/iplrom30.dat
- bios/keropi/iplromco.dat
- bios/keropi/iplromxv.dat
- bios/keropi/cgrom.dat

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