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Eboot.PBP

Used on PSP (PSP remaster and PSN content:PS1 classic and Minis), to be loaded with build in PSP emulator on PS3. See Emulation.

With PSP remaster game, you can select either to start the game directly or the NPJA0040/USRDIR/EBOOT.BIN (Ad-Hoc Party folder). An ICON of the game is also loaded on the top left corner on the menu.

Used also for PSP FW from PS3 internet browser (http://www.jp.playstation.com/psp/update/ud_o3.html) correct link if available in English) to transfer on PSP or external storage device.



Selection window

RCO PNG used on PS3 for EBOOT.PBP (http://www.ps3devwiki.com/wiki/File:Psp_update_thumbnail.png)

Header and filetable

Offset	Purpose
0x00	The PBP signature, always is 00 50 42 50 or the string " <null char="">PBP"</null>
0x04	Unknown purpose, possibly the version number. Currently is always 0x00000100 or 0x01000100 (some MINIS, PSP remaster and PSP PlayView).
0x08	Offset of the file PARAM.SFO (?this value should always be 0x28?)
0x0C	Offset of the file ICON0.PNG
0x10	Offset of the file ICON1.PMF or ICON1.PNG
0x14	Offset of the file PIC0.PNG or UNKNOWN.PNG (Value can be repeated)
0x18	Offset of the file PIC1.PNG or PICT1.PNG
0x1C	Offset of the file SND0.AT3
0x20	Offset of the file DATA.PSP
0x24	Offset of the file DATA.PSAR

Usually every .PBP embeds a PARAM.SFO file and PARAM.SFO file starts at offset 0x28.

PARAM.SFO

Basically the information file for the .PBP - has title, parental control level etc.

Fews parameters inside different type of .pbp (psp remaster, psp game, minis, ps1 classic..)

For the external PS3 SFO, see <u>PARAM.SFO</u>. Some parameters such <u>SAVEDATA_DETAIL</u> related but used separately from the eboot.pbp as well.

For PS1 classic, offset .SFO should not be variable on EBOOT.PBP.

(e.g.: Title of the game should start at offset 0x358 with category: ME, not as EG)

Key (Parameters)	Description	Format (DATA TYPE)	Max length	Value example	Used on	Note
APP_VER	Application or Patch Version	utf-8	8	1.00	PSP Remaster PSP	PS1 classic should not have this parameter.
ATTRIBUTE	Various parameter	integer	4	01 00 60 01	minis PSP	PS1 classic do not have attribute.
BOOTABLE	Is bootable or not	integer	4	01 00 00 00	PSP Remaster minis PS PSP	Parameters PS1 classic should start from here.
CATEGORY	Category of Content	utf-8	4		PSP Remaster minis PS PSP	Category of PSF, as per the table above.
					PSP Remaster	

DISC_ID	Product number of the game(?)	integer	16 (0X10)	NPXX12345	minis PS PSP	Equal to Game ID for PS3. See DiscID.
DISC_NUMBER		integer	4	1	PSP Remaster minis PSP	Which disc (out of DISC_TOTAL) is this? (Counts from 1.)
DISC_TOTAL		integer	4	1	PSP Remaster minis PSP	Total number of UMD discs for this game.
DISC_VERSION		utf-8	8	1.00	PSP Remaster minis PS PSP	Version of the game(?), e.g. "1.00"
DRIVER_PATH		utf-8	64 (0x40)		PSP	
HRKGMP_VER		integer	4	0	PSP Remaster PSP	
LICENSE	License information	utf-8	512 (0x200)		PS	
MEMSIZE		integer	4	1	PSP	add extra RAM for eboot (Not for PSP-1000), first used on homebrew: snes TYL
PARENTAL_LEVEL	Parental Lock Level	integer	4	"3"	Minis PS PSP	Minimum parental control level needed to access this file (1-11, 1=general audience, 5=12 years, 7=15 years, 9=18 years) //E.G.:Set as 3 on ModNation Racers
PBOOT_TITLE		utf-8	128 (0x80)		PSP	Used on PBOOT.PBP (Update)
PSP_SYSTEM_VER		utf-8	8	6.35	PSP temaster minis PS PSP	Version of PSP system software required to run the game(?)
REGION		integer	4	00 80 00 00	PSP Remaster minis PS PSP	Bitmask of allowed regions. 0x8000 is region 2?
TITLE	Game Title (Default language)	utf-8	128 (0x80)		PSP Remaster minis PS PSP	Text shown under the "Game" heading in the save game menu.
						Localized version of the TITLE

TITLE_XX	Game Title	utf-8	128 (0x80)		PSP	attribute. See Languages (http://www.ps3devwiki.com/wiki/Content_Information_Files#Languages).
UPDATER_VER		utf-8	8	6.60	PSP	Used by the firmware updater program to denote the version it upgrades the firmware to. Category MG, on PSP_GAME: SYSDIR/UPDATE/PARAM.SFO if not empty
USE_USB		integer	4	0	PSP Remaster minis PSP	

*LANGUAGE category MG Language of the game. "JP" indicates Japanese.

Attribute

■ MINIS used are for X1 category <u>ATTRIBUTE_In_Bootable_content</u> (http://www.ps3devwiki.com/wiki/PAR AM.SFO#ATTRIBUTE_In_Bootable_content)

Category

PSP	PS3 SFO related	Note
EG	MN	PSP Essentials or Extended or External (or Episode) Games? Minis
EG	PE	PSP remaster (and in others only PSP released games?)
EG	PP	Not bootable on PS3
MA	No	Apps
ME	1P	PS1 Classic
MG	No	MemoryStick Game?. For update FW :MSTKUPDATE, Apps game and Game data (for param.pbp , not as save data). PP on PS3 is possible.
MS	No	MemoryStick Save for Game&apps (PSP remaster also)
UG	No	UMD Disc Game
PG	PP	Game update

DISC_ID (or TITLE_ID ?)

Some special titles from SCE utility apps:

NPIA00013 (SensMe) http://www.playstation.com/psp-app/sensme/en/download_pc.html

Update for Game (PBOOT.PBP): some values

APP_VER: 1.01 or more

ATTRIBUTE: 01 00 00 00

CATEGORY: PG

PBOOT TITLE

Content Information Files

For PS3 see: Content Information Files.

ICON0.PNG

The little icon in 32bit colour PNG format. Max resolution is 144x80.

minis: 80x80

: 80x80 (same used on savedata)

PSP

PSP Remaster: 144x80

ICON1.PMF or ICON1.PNG

The little animated icon in PSMF format or image in PNG.

:ICON1.PNG or ICON1.PMF (310x180)

:ICON1.PNG or ICON1.PMF (310x180)

PSP

PIC₀.PNG

"Information" image in PNG format. Max resolution is 480x272.

minis:

PS

PSP

PIC1.PNG or PICT1.PNG

The background image in 32bit colour PNG format. Max resolution is 480x272.

minis :PICT1.PNG (480x272)

:PICT1.PNG (480x272)

PSP

PSP Remaster: PIC1.PNG (480x272)

SND₀.AT₃

The sound which is played when the icon is highlighted, in ATRAC3 format.

minis

: not present.

PSP

PSP Remaster: not present.

DATA.PSP

More information, except more targeted at the executable portion (contains info such as ELF size):

Boot and Warning image:

minis:

"minis"boot logo (visual content is similar than the file located on dev_flash/pspemu/flasho/logo/minis_logo/)

Display on Screen from PS3 side might be altered according to the FW.

PNG format (480x272)

Not all Minis games have the second

PS

Offset	Length	Name	Description
0x00	16	-	~PSP (7E 50 53 50 00 02 01 00 01 01 20)
0x2C	-	Size	Length first part / offset second part (40 25)

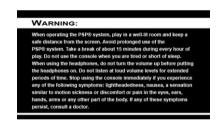
PSP Remaster

Menu screen selection image for PSP Remaster located in PSP_EMU.

See Emulator settings.



Logo screen from eboot.pbp



Minis warning logo



Menu screen bin

Other

• When the eboot is signed as free demo (PSP 6.60 OFW might block it, 6.39 FW no).

DATA.PSAR

The bulk of the EBOOT.PBP, and the portion which contains the executable code.

Offset	Length	Name	Description
0x00	16 bytes (0x10)	magic	PSP Remaster : NPUMDIMG (4E 50 55 4D 44 49 4D 47 03 00 00 01 10 00 00 00) (used also on PSP game)
			: PSISOIMG0000 (50 53 49 53 4F 49 4D 47 30 30 30 30 xx xx xx xx)
			See PSISOIMG0000.
			See Iso.bin.edat_Disc_map.



• Note: this "identifier" seems to be separated in: 8 + 4 + 4 bytes:

For PS1 Classic the last 4 bytes give the size of the first part of the PSAR, which also means it's the offset (DATA.PSAR file) for part 2 (string as: STARTDAT)

- PSTITLEIMG000000: Not present on all PS1 Classic and followed also by 4 bytes giving length of first part. After one .pgd part and padding, "PSISOIMG0000" + 4bytes as 00.
- PGD

See PGD wiki page on PSP Dev wiki (https://playstationdev.wiki/pspdevwiki/index.php?title=PGD).

■ STARTDAT: header contain the header size (50) and .png size (e,g,:"A5 2F" when similar MINIS Warning logo (http://www.ps3devwiki.com/wiki/File:Minis_Warning_logo.png) or 06 26 for PSP remaster).

Last part is another .PGD section.

PARAM.PBP

PSP XMB referenced it as "game data". Used by: PlayView, DLC/add on.

Offset	Length	Value	Notes
0x00	4	00 50 42 50	Magic (".PBP")
0x04	4	01 00 01 00	Unknown purpose, possibly the version number. Currently is always similar (also on 1.00 or 1.02 disc_version)
0x08	4	28 00 00 00	Offset of the file PARAM.SFO (this value should always be 0x28)
0x0C	4	DC 01 00 00	Offset of the file ICON0.PNG 144x80 (similar since same parameters are used)
0x10	4	xx xx 00 00	Offset of the file ICON1.PNG or ICON1.PMF 310x180 ("information")
0x14	4	xx xx 00 00	repeat Offset of the file ICON1.PNG or ICON1.PMF
0x18	4	xx xx 00 00	Offset of the file PIC1.PNG 480x272 ("Background") not all Playview have it (and so, offset second part)
0x1C	4	xx xx xx 00	Offset second part of the file
0x20	4	xx xx xx 00	repeat second part of the file
0x24	4	xx xx xx 00	repeat second part of the file

PARAM.SFO starts at offset 0x28 with following parameters (see above for length or purpose):

■ BOOTABLE: 00 00 00 00

■ CATEGORY: "MG"

DISC_ID:

DISC_VERSION: "1.00", "1.02"

PARENTAL_LEVEL

■ PSP_SYSTEM_VER: 1.00

■ REGION: 00 00 80 00

TITLE

■ USE_USB: 00 00 00 00

Then the ICONo.PNG starts usually at offset ox1DC

ICONo.PNG and PIC1.PNG:

After the 2 or 3 .png, the second part of the file start (length is always 0x20 bytes).

Links and Tools

- PSARdumper
 - [1] (http://dl.qj.net/psp/homebrew-applications/psardumper-for-ofw-660.html)

- Note: This PSAR dumper is only for PSP firmware packages.
- PRXdecrypter
 - [2] (http://dl.qj.net/psp/homebrew-applications/prxdecrypter-v26b.html)
 - Note: PRXdecrypter is a modification of PSARdumper that can decrypt other files as MODULES.PRX or EBOOT.BIN.
- PBP Unpacker
 - [3] (http://dl.qj.net/psp/tools-utilities-on-pc/pbp-unpacker-v094.html)
 - Source code: []
 - Note: There is a bug in PBP Unpacker version <=0.94 where .PBP with size bigger than 1MB are not supported.
- psnpkgdecryptor-extractor by TLM for PKG and KEYS.BIN
 - [4] (https://sites.google.com/site/theleecherman/psnpkgdecryptor-extractor)
 - Note: Some feature (KEYS.BIN is used by PS1 classic on PSP):

Extract & Decrypt & Dump all PSP PKG files (Games & Minis, DLCs & Addons, NeoGeo, PC Engine, PSOne Classic Games, ISO, EBOOT, EDAT/PGD files to Decrypt (Version 1.3), Dump, Verify ISO Generate KEYS.BIN for PSOne Game from PSOne EBOOT.PBP

- Guide Running homebrew on PS3 via PSP emulator (minis)
 - [5] (http://www.ps3hax.net/showthread.php?t=54596)
- PSP homebrew libLZR v0.11
 - [6] (https://qj.net/psp-homebrew-liblzr-v0-11/)
 - Note: The library de- and encodes LZR streams (as used in the Sony PSP firmware). ?Used in PGD only?
- psxtract
 - [7] (http://www.ps3hax.net/showthread.php?t=70512)
 - Note: PSXtract is a tool to convert PS1 PBP (coming from PKG) to ISO
- Document.dat (manual) resource:
 - [8] (http://www.psxpspmanuals.com/)
- More information about the PSAR: http://www.ps3devwiki.com/files/documents/-sony/20PS3%20SDK%20Documentation/360.01/cell/en/html/file-access/PSARC-Users-Guide-e.htm
- For structure (and history of research): http://lan.st/showthread.php?t=258
- For files related to EBOOT.PBP (keys.bin, document.dat etc...), basic infos on the talk page also.
- For history of the page: original link for PBP structure)
 http://endlessparadigm.com/forum/showthread.php?tid=13

SCE File Types	NPDRM NPDRM · App Types · ACT.DAT · RIF			
	PKG PKC	G files · PKG DIGEST.DAT		
	EDAT EDAT files			
	Resource Contain	er (RCO) Rcomage · GimConv · Graphic Image Map (GIM) · MFAudio · Languages · XMB Fonts · XMB Layouts		
RCOXML	RCOXMI	RCOXML Script · RCOXML Images · RCOXML Fonts · RCOXML Texts · RCOXML Models · RCOXML Sounds · RCOXML Objects · RCOXML Animations		
	RCOXML E	xamples RCOXML ofw animations · RCOXML ofw sounds		
	Qt Resource Cor	Canyon.qrc · Earth.qrc · Icons.qrc · Icontex.qrc · Lines.qrc · Raf.qrc · Rhm.qrc · Store.qrc		
CXML	PlayStation 3	Theme (P3T) 01.p3t · raf_debug.p3t		
	Rich Appearance	Format (RAF) coldboot.raf · mustache.raf · PlayStation JavaScript · VSMX		
	XMB Config	XMB-Users · XMB-Settings · XMB-Photo · XMB-Music · XMB-Video · XMB-TV · XMB-Game · XMB-Network · XMB-PSN · XMB-Friends		
XMBML	DB Config	registory.xml · upload_list.xml · download_list.xml · playlist.xml · videodownloader_list.xml · savedata_list.xml		
	XMBML Coding	XMBML Functions		
	XMBML Examples	XMBML Folder Trees · XMBML module-action · XMBML Mountpoints · XMBML Database Access		
Databases	XRegistry.sys · XMB	database · Project Database (PDB) · MMS · XIL		
		ntent Information Files · PARAM.HIS · PARAM.PFD · PARAM.SFO · B_DISC.SFB		
	LIC.DAT · LICENSE.DAT · LICENSE.INFO			
System Data	Game Data ·			
	Game Saves PS3 Savedata · PS2 Savedata · PS1 Savedata · PSP Savedata			
	Trophy Data Trophy livelist · TROPHY.TRP · Trophy			
Games/Apps	PS3 BDem	u Drive Format · PlayStation archive (PSARC)		
Gaines/Apps	Emulators Eboot.	PBP · PSISOIMG0000 · ISO.BIN.EDAT		
Web	SILKPADD			
Unsorted	archive.dat · bootflag.dat · lv0ldr · lv0 · lv1.self · SIG File Format · PS2bootparam.dat · vm0			

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