The SMBX1...64 *.SAV file specification

Reverse-engined by Wohlstand 04/29/2014

This is a saved game file. This file is a TEXT file. All parameters are written sequentially with separating by CRLF new-line character (This file format requires CRLF line feed only and LF-only file will cause crash of SMBX).

This file is creating automatically on each attempting to save a game.

In the SMBX64 standard, this file is saved in the same folder along with the world files of an episode. The files are named in the following manner: "save1.sav", "save2.sav" and "save3.sav". SMXB64 only allows three game-save files in an episode folder.

Introduction

Limits for world map objects:

20000
2000
1000
5000
400

File Format Specification

Structure:

- [Header and character's attributes]
- [Visibility of levels objects, associated by array index in World map]
- "next"
- [Visibility of paths, associated by array index in World map]
- "next"
- [Visibility of scenery, associated by array index in World map]
- "next"
- [gotten stars, pointers to the level section with gotten star]
- "next"
- [Number of stars (parameter, gotten from world map)]

The reference designations:

- standard parameter
- Comment title
- Comment description
- loop
- variable
- Special option, only used under special conditions, differently is absent
- File format version limit
- Data type

File format description	
D .	First 31 lines (Header and character's attributes):
Parameter	Description
64	(unsigned int) File format version (Last in SMBX is 64)
8	(unsigned int) number of lives (0-99)
84	(unsigned int) number of coins (0-99)
96	(long) Player's position on world map X
448	(long) Player's position on world map Y
1	(unsigned int) Mario's power-up (1-7)
2.4	1-small, 2-big, 3-fire, 4-racoon, 5-tanooki, 6-hammer, 7-ice
34	(unsigned long) Item slot contains (NPC-ID)
1	(unsigned int) Mount type $(0,1,3)$ (>= 56)
2	0 - none, 1 - shoe, 3 - yoshi
3	(unsigned int) Mounted object ID (0 if mounts are absence)
	shoes: 1 – green, 2 – red, 3 – blue
0	Yoshis: 1 – green, 2 – blue, 3, 4, 5, 6, 7, 8
0	(unsigned int) Mario's health (not allowed for Mario by SMBX64)
5	(>= 56)
3	(unsigned int) Luigi's power-up (1-7)
0	1-small, 2-big, 3-fire, 4-racoon, 5-tanooki, 6-hammer, 7-ice
0	(unsigned long) Item slot contains (NPC-ID)
	(unsigned int) Mount type $(0,1,3)$ (>= 56)
0	(unsigned int) Mounted object ID (0 if absence, 1-3 shoes, 1-8 yoshis)
0	(unsigned int) Luigi's health (not allowed for Luigi by SMBX64)
6	(>= 56) (unsigned int) Peach's power-up (1-7) (>= 56)
O	
0	1-small, 2-big, 3-fire, 4-racoon, 5-tanooki, 6-bombs, 7-ice (unsigned long) Item Slot contains (>= 56)
U	(unsigned long) Item Slot contains (>= 56) (not allowed for Peach by SMBX64)
1	(unsigned int) Mount type $(0,1,3)$ (>= 56)
1	(Yoshis not allowed for Peach by SMBX64, 3 will not give effects)
3	(unsigned int) Mounted object ID (0 if mounts are absence)
]	shoes: 1 – green, 2 – red, 3 – blue (>= 56)
3	(unsigned int) Peach's health (>= 56)
3	(unsigned int) Teach's nearth (>= 30) (unsigned int) Toad's power-up (1-7) (>= 56)
5	1-small, 2-big, 3-fire, 4-racoon, 5-tanooki, 6-boomerang, 7-ice
0	(unsigned long) Item Slot contains (>= 56)
U	(not allowed for Toad by SMBX64)
1	(unsigned int) Mount type $(0,1,3)$ (>= 56)
1	(Yoshis not allowed for Toad by SMBX64, 3 will not give effects)
2	(unsigned int) Mounted object ID (0 if mounts are absence)
2	shoes: 1 – green, 2 – red, 3 – blue (>= 56)
3	(unsigned int) Toad's health (1-3) (>= 56)
2	(unsigned int) Link's power-up (1-7) (>= 56)
0	(unsigned long) Item Slot contains
	(not allowed for Link by SMBX64) (>= 56)
0	(unsigned int) Mount type (not allowed for Link by SMBX64)(>= 56)
0	(unsigned int) Mounted object (not allowed for Link by SMBX64)
	(v= 56)
2	(unsigned int) Link's health (>= 56)
12	(unsigned long) Current world music ID
#FALSE#	(bool) Game was completed (>= 56)
H111LOLπ	(2001) Gaine was completed (2001)

	Visibility of level objects	
(Loop = number of level objects on the world map, or while current!="next")		
#TRUE#	(bool) Visibility of level object in world array by Index=CurrentLoop	
	(Loop end)	
Marker between level objects visibility and paths visibility		
"next"		
	Visibility of paths	
	f paths objects on the world map, or while current!="next")	
#TRUE#	(bool) Visibility of path in world array by Index=CurrentLoop	
(Loop end)		
	er between paths visibility and scenery visibility	
"next"		
	Visibility of scenery	
(Loop = number of scenery on world map, or while current!="next")		
#TRUE#	(bool) Visibility of scenery in world array by Index=CurrentLoop	
	(Loop end)	
Marker between scenery visibility and gotten stars list		
"next"		
Gotten stars		
	(Loop = while current !="next") (>= 7)	
"level 1-3.lvl"	(string) Level file	
2	(unsigned int) level section with gotten star (0-20) (>= 16)	
	(Loop end)	
Marker between gotten stars and stars quantity		
"next"	(>= 16)	
10	(unsigned long) number of stars (parameter, gotten from world map)	

(unsigned long) number of stars (parameter, gotten from world map)
(>= 21)

--End of file--