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Game Resources / SNES / Mega Man X / RAM Map This is a RAM Map for Mega Man X.

Address	Byte length	Description	
\$7E:0000	16 bytes	Scratch RAM	
\$7E:003B	1 byte	Intro sequence timer for the title screen. Counts down from #\$FF at the title screen. When it reaches 0, there is a fade out and the intro sequence starts again. The counter is reset to #\$EA when a new option is selected.	
\$7E:003C	1 byte	The currently selected option on the title screen. #\$00 = Start Game, #\$01 = Password Screen, #\$02 = Options Menu.	
\$7E:00A7	1 byte	Controller data 1, current frame. Format: $axlr$ $a = A$; $x = X$; $l = L$; $r = R$, $- = unused$.	
\$7E:00A8	1 byte	Controller data 2, current frame. Format: byetUDLR b = B; y = Y; e = Select; t = Start; U = Up; D = Down; L = Left; R = Right.	
\$7E:00A9	1 byte	Controller data 1, previous frame. Format: $axlr$ $a = A$; $x = X$; $l = L$; $r = R$.	
\$7E:00AA	1 byte	Controller data 2, previous frame. Format: byetUDLR b = B; y = Y; e = Select; t = Start; U = Up; D = Down; L = Left; R = Right.	
\$7E:00AB	1 byte	Controller data 1, button press (current frame and not previous frame). Format: $axlr$ $a = A$; $x = X$; $l = L$; $r = R$.	
\$7E:00AC	1 byte	Controller data 2, button press (current frame and not previous frame). Format: byetUDLR b = B; y = Y; e = Select; t = Start; U = Up; D = Down; L = Left; R = Right.	
\$7E:00B3	1 byte	Used as a counter for the screen's level of brightness when fading (bits 0 to 7). #\$0F = full brightness, #\$00 = completely faded.	
\$7E:00B4	2 bytes	Camera X-position, in pixels.	
\$7E:00B6	2 bytes	Camera Y-position, in pixels.	
\$7E:0100	unknown	Sound effects?	
\$7E:0300	512 bytes(?)	Graphics?	
\$7E:0740	unknown	Sound effects?	
\$7E:0B9B	1 byte	Frame counter. Differs from the other two in that this one pauses during loading screens.	
\$7E:0B9C	1 byte	"Effective" frame counter. Stops when the player dies, among other things.	
\$7E:0B9D	1 byte	If the value in it is not zero, run the actual game; otherwise, loop forever. It's set to a non-zero value during NMI, and it's set to zero after the game mode has been run, so that the game runs exactly once a frame - one NMI trigger per frame.	
\$7E:0B9E	1 byte	"True" frame counter. Always increments once per frame.	

\$7E:0BA6	2 bytes	Value of Pseudo-Random Number Generator.	
\$7E:0BAC	1 byte	X's sub-pixel X-position.	
\$7E:0BAD	2 bytes	X's X-position, in pixels.	
\$7E:0BAF	1 byte	X's sub-pixel Y-position.	
\$7E:0BB0	2 bytes	X's Y-position, in pixels.	
\$7E:0BBB	1 byte	X's blink (close and open eyes) animation timer. If X is standing still, begin the following cycle: - Start with #\$50, decrease by one every frame until it reaches 0; - Make X blink once (#\$08-frame-long blink); - Set to #\$30, decrease by one every frame until it reaches 0; - Make X blink twice (#\$04-frame-long blinks); If X is moving, reset the cycle.	
\$7E:0BBF	1 byte	X's sprite (bits 0-7).	
\$7E:0BC2	2 bytes	X's X-velocity, in sub-pixels per frame.	
\$7E:0BC4	2 bytes	X's Y-velocity, in negative sub-pixels per frame.	
\$7E:0BC6	1 byte	X's Y-acceleration, in sub-pixels per frame per frame.	
\$7E:0BCF	1 byte	X's current health.	
\$7E:0BDB	1 byte	Current weapon selected. A list of values can be found here.	
\$7E:0BDD	1 byte	Number of bullets (of any shot type) onscreen.	
\$7E:0BDE	6 bytes	Controller data. Disabled buttons (such as default X and select) are not included.	
\$7E:0BF8	1 byte	Timer for how long to display X's buster after shooting. Set to #\$FF when X's buster isn't out, set to #\$0F and decreases once per frame after shooting. Is reset to #\$0F with each successive shot.	
\$7E:0BFA	1 byte	Dashing timer. Decreases by one every frame. Once it hits 0, X stops dashing. Freezes at the last value it was at if X stop dashing before it reaches 0.	
\$7E:0BFF	1 byte	Timer for the level of X's charge shot, while charging. Starts at #\$95 and decreases once per frame. #\$95 = green shot charged, #\$4F = blue shot charged, #\$01 = pink shot charged.	
\$7E:0C03	1 byte	Level of X's charged shot, while charging. #\$00 = not charging, #\$01 = pink shot charged, #\$02 = blue shot charged, #\$03 = green shot charged.	
\$7E:0C06	1 byte	Bitflags: Standing = #\$04, hanging on left wall = #\$02, right wall = #\$01.	
\$7E:0C11	1 byte	X's direction. $\#\$00 = \text{left}, \#\$40 = \text{right}.$	
\$7E:0C13	1 byte	X's recovery (flashing) time after a hit. Decreases by one every frame.	
\$7E:0C30	96 bytes	Stuff for armor parts (position, type, and so forth). TODO	
\$7E:0E18	1 byte	Ride armor exist flag (#\$00 = ride armor does not exist, #\$01 = ride armor exists).	
\$7E:0E1A	1 byte	Ride armor's current state. (#\$00 = empty, #\$02 = still, #\$04 = walking, #\$06 = punching, #\$08 = jumping, #\$0E = dashing, #\$14 = mount ride armor, #\$16 = dismount ride armor)	
\$7E:0E1C	1 byte	Ride armor's sub-pixel X-position.	
\$7E:0E1D	2 bytes	Ride armor's X-position, in pixels.	
\$7E:0E1F	1 byte	Ride armor's sub-pixel Y-position.	
\$7E:0E20	2 bytes	Ride armor's Y-position, in pixels.	
\$7E:0E32	2 bytes	Ride armor's X-velocity, in sub-pixels per frame.	

\$7E:0E34	2 bytes	Ride armor's Y-velocity, in negative sub-pixels per frame.	
\$7E:0E36	1 byte	Ride armor's Y-acceleration, in sub-pixels per frame per frame	
\$7E:0E4B	1 byte	Ride armor's heading (#\$00 = facing left, #\$40 = facing right).	
\$7E:0E4E	6 bytes	Controller data, if ride armor is nearby. Disabled buttons (such as default X and select) are not included. Data for previous frame not included.	
\$7E:0E68	64*15 bytes	Enemy data. Each enemy is given 64 bytes.	
\$7E:1228	64*8 bytes	X's shot/bullet data. Each shot is given 64 bytes.	
\$7E:1428	64*8 bytes	Enemy shot/bullet data. Each shot is given 64 bytes.	
\$7E:1628	48*16 bytes	Misc. data (such as item drops). Each item is given 48 bytes.	
\$7E:1928	Unknown	Unknown data (possibly including shot impact and explosion sprites). Each part is given 32 bytes.	
\$7E:1ED2	1 byte	Current item selected on the pause menu. #\$00 = X Buster #\$01 = Homing Torpedo #\$02 = Chameleon Sting #\$03 = Rolling Shield #\$04 = Fire Wave #\$05 = Storm Tornado #\$06 = Electric Spark #\$07 = Boomerang Cutter #\$08 = Shotgun Ice #\$09 = Escape Unit #\$0A = Sub Tank 1 #\$0B = Sub Tank 2 #\$0C = Sub Tank 3	
\$7E:1F7A	1 byte	Current level ID. #\$00 = Highway/intro stage #\$01 = Launch Octopus #\$02 = Sting Chameleon #\$03 = Armored Armadillo #\$04 = Flame Mammoth #\$05 = Storm Eagle #\$06 = Spark Mandrill #\$07 = Boomer Kuwanger #\$08 = Chill Penguin #\$09 = Sigma Stage 1 #\$0A = Sigma Stage 2 #\$0B = Sigma Stage 3 #\$0C = Sigma Stage 4	
\$7E:1F7E	1 byte	Increases by one each time you visit the Hadoken capsule location. It's used when determining whether or not to make the capsule appear.	
\$7E:1F80	1 byte	Life counter. Capped at #\$09.	
\$7E:1F87	16 bytes	Weapon Energy. Each weapon's energy is stored as two bytes. First byte: Subunit amount. Second byte (bits 0 to 5): Unit amount. Once unit amount is 0, sub-unit amount cannot be used even if it is not 0.	

		Usage: Homing Torpedo and Chameleon Sting: 1/2 unit; Fire Wave: 1/16 unit; Everything else: 1 unit.	
\$7E:1F99	1 byte	Bitflags for upgrades and sub-tanks collected. Format: dcbaZYXW Upgrades: W = Head; X = Arm (Buster); Y = Body (Armor); Z = Leg (Dash). Sub-tanks: a = Eagle; b = Armadillo; c = Mandrill; d = Mammoth.	
\$7E:1F9A	1 byte	X's maximum health. Increases by 2 per heart tank.	
\$7E:1F9C	1 byte	Bitflags for heart tanks collected. Format: hgfedcba a = Penguin; b = Armadillo; c = Eagle; d = Chameleon; e = Mammoth; f = Kuwanger; g = Mandrill; h = Octopus.	

Enemy/Object data

Offset	Byte length	Description
#\$0	1 byte	Object in memory flag. #\$00 = No object in memory. #\$01 = Object exists in memory.
#\$1	1 byte	Object's action 1.
#\$2	1 byte	Object's action 2.
#\$4	1 byte	Object's sub-pixel X-position.
#\$5	2 bytes	Object's X-position, in pixels.
#\$7	1 byte	Object's sub-pixel Y-position.
#\$8	2 bytes	Object's Y-position, in pixels.
#\$A	1 byte	Object ID.
#\$13	1 byte	Animation countdown (animates and reset when zero).
#\$17	1 byte	Object sprite (bits 0-7).
#\$1A	2 bytes	Object X-velocity, in sub-pixels per frame.
#\$1C	2 bytes	Object Y-velocity, in negative sub-pixels per frame.
#\$1E	1 byte	Object Y-acceleration, in sub-pixels per frame per frame.
#\$22	2 bytes	Object X-position, in pixels.
#\$24	2 bytes	Object Y-position, in pixels.
#\$27	1 byte	Object's current health.
#\$28	24 bytes	Unknown. Contains further data about the object, such as recovery timers for bosses. Data may not be fixed.

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