

# Field RAM

This is a list of the RAM locations used by the field program (i.e. the main program that controls all non-world maps). The majority of the code that uses this data is in bank C0.

## \$0000-\$00FF: Field Direct Page

```

+$00 Always #$0000
+$02 Always #$FFFF
+$04 Buttons Pressed this Frame (unmapped)
+$06 Buttons Pressed this Frame (mapped based on button config)
+$08 Buttons Pressed this Frame but not Last Frame
+$0A Buttons in Repeat Mode
+$0C Buttons Pressed Last Frame
    axlr----
    a: A button down
    x: X button down
    l: L button down
    r: R button down
    byetudlr
    b: B button down
    y: Y button down
    e: Select button down
    t: Start button down
    u: Up direction down
    d: Down direction down
    l: Left direction down
    r: Right direction down
$0E-$3F Scratchpad RAM
$40-$44 -
    $45 Frame Counter (gets incremented every NMI, never gets cleared)
    $46 VBlank Counter (gets incremented every NMI, can be cleared for frame
counting)
    $47 Event Counter (gets incremented every VBlank, never gets cleared)
+ $48 Pointer to Current Location in Object Animation Queue (+$10F7)
$4A i--ffff
    i: Fade In/Out Toggle (0 = fading out, 1 = fading in)
    f: Fade Speed
$4B icccccc
    i: Fixed Color In/Out Toggle (0 = fading out, 1 = fading in)
    c: Fixed Color Speed
$4C Current Screen Brightness (upper 4 bits active)
$4D Current Screen Fixed Color Intensity (upper 5 bits active, goes to
$2132)
$4E shbo4321 Current Color Add/Sub Designation (goes to $2131)
    s: enable color subtraction
    h: enable half color add/sub
    b: affect backdrop

```

```
o: affect objects
4: affect bg4
3: affect bg3
2: affect bg2
1: affect bg1
$4F Saved Color Add/Sub Designation (goes to $4E after color saturation
is complete)
$50 ccm--sd Color Addition Select (goes to $2130, always #$22)
c: Clip colors to black before math (00 = Never, 01 = Outside Color
Window only, 10 = Inside Color Window only, 11 = Always)
m: Prevent color math (00 = Never, 01 = Outside Color Window only,
10 = Inside Color Window only, 11 = Always)
s: Add subscreen (instead of fixed color)
d: Direct color mode for 256-color BGs
$51 ---o4321 Main Screen Designation (goes to $212C)
o: objects enabled in subscreen
4: bg4 enabled
3: bg3 enabled
2: bg2 enabled
1: bg1 enabled (always set for main screen)
$52 ---o4321 Current Sub Screen Designation (goes to $212D)
$53 Saved Sub Screen Designation (goes to $52 after color saturation is
complete)
$54 bgriiiii Fixed Color Add/Sub Data
b: affect blue
g: affect green
r: affect red
t: target color intensity (5 bits, low 2 bits always set)
$55 VBlank Disable (gets set every VBlank)
$56 Battle Enable
$57 Random Battles Enabled
$58 Re-load the same map
$59 Open Menu
$5A -----321
3: bg3 map needs to be flipped
2: bg2 map needs to be flipped
1: bg1 map needs to be flipped
+++ $5B tttttttt ttttpppp xxxxxxxx
t: BG1 Horizontal Scroll Position (in tiles)
p: BG1 Horizontal Scroll Position (in pixels)
x: BG1 Horizontal Scroll Position (in pixels/256)
+++ $5F tttttttt ttttpppp xxxxxxxx
t: BG1 Vertical Scroll Position (in tiles)
p: BG1 Vertical Scroll Position (in pixels)
x: BG1 Vertical Scroll Position (in pixels/256)
+++ $63 tttttttt ttttpppp xxxxxxxx
t: BG2 Horizontal Scroll Position (in tiles)
p: BG2 Horizontal Scroll Position (in pixels)
x: BG2 Horizontal Scroll Position (in pixels/256)
```

```

+++ $67 tttttttt ttttpppp xxxxxxxx
      t: BG2 Vertical Scroll Position (in tiles)
      p: BG2 Vertical Scroll Position (in pixels)
      x: BG2 Vertical Scroll Position (in pixels/256)
+++ $6B tttttttt ttttpppp xxxxxxxx
      t: BG3 Horizontal Scroll Position (in tiles)
      p: BG3 Horizontal Scroll Position (in pixels)
      x: BG3 Horizontal Scroll Position (in pixels/256)
+++ $6F tttttttt ttttpppp xxxxxxxx
      t: BG3 Vertical Scroll Position (in tiles)
      p: BG3 Vertical Scroll Position (in pixels)
      x: BG3 Vertical Scroll Position (in pixels/256)
+ $73 Movement BG1 X Scroll Speed (in pixels/frame/256, signed)
+ $75 Movement BG1 Y Scroll Speed
+ $77 Movement BG2 X Scroll Speed
+ $79 Movement BG2 Y Scroll Speed
+ $7B Movement BG3 X Scroll Speed
+ $7D Movement BG3 Y Scroll Speed
+ $7F Obj Vertical offset for Shake Screen
$81 Set to zero and used to clear Sprite Graphics (fixed address DMA to
VRAM)
+ $82 Current Map Index
$84 Enable Map Load
$85 Enable Entrance Triggers
$86 BG1 Map Horizontal Clip ($0F, $1F, $3F, $7F, $FF)
$87 BG1 Map Vertical Clip
$88 BG2 Map Horizontal Clip
$89 BG2 Map Vertical Clip
$8A BG3 Map Horizontal Clip
$8B BG3 Map Vertical Clip
++ $8C Source of BG chunk change data
+ $8F XY Position of BG chunk to change
+ $91 Pointer to BG1 Map Data in VRAM (for vertical scrolling)
+ $93 Pointer to BG1 Map Data in VRAM (for horizontal scrolling, first
column)
+ $95 Pointer to BG1 Map Data in VRAM (for horizontal scrolling, second
column)
+ $97 Pointer to BG2 Map Data in VRAM (for vertical scrolling)
+ $99 Pointer to BG2 Map Data in VRAM (for horizontal scrolling, first
column)
+ $9B Pointer to BG2 Map Data in VRAM (for horizontal scrolling, second
column)
+ $9D Pointer to BG3 Map Data in VRAM (for vertical scrolling)
+ $9F Pointer to BG3 Map Data in VRAM (for horizontal scrolling, first
column)
+ $A1 Pointer to BG3 Map Data in VRAM (for horizontal scrolling, second
column)

$A3-$B9 Tile Properties Stuff
-----
+----+----+----+ adjacent tiles (bg1 tile index)

```

```

| A3 | A4 | A5 |
+----+----+----+
| A6 | A7 | A8 |
+----+----+----+
| A9 | *AA* | AB | <-- object is at AA
+----+----+----+
| AC | AD | AE |
+----+----+----+
+ $AF Party's XY Position (in tiles)
$B1 -----lu Tile z-level passability (copied from $B8, never used)
$B2 -----lu Party z-level
      l: Lower Z Level
      u: Upper Z Level
$B3 movement direction (same as $087E)
+ $B4 pointer to party object data (+$0300, $00F8 for normal priority,
$01B8 for low priority)
+ $B6 Tile properties from user top tile (from $A7)
+ $B8 Tile properties from user bottom tile (from $AA)
      lrdbtslu tile properties byte 1 ($F7 = always impassable, $07 =
counter tile, can be talked over)
          l: Tile uses up/left movement (stairs)
          r: Tile uses up/right movement (stairs)
          d: Door Tile
          b: Bottom sprite shown above priority 1 bg (not active for
bridge tiles, ZoneDoctor: "0.4")
          t: Top sprite shown above priority 1 bg (not active for
bridge tiles, ZoneDoctor: "0.3")
          s: Bridge tile (ZoneDoctor: "solid tile, cannot be walked
on")
          l: Passable on lower z-level (ZoneDoctor: "Solid to tier
2", if both of these are set, this tile can be a transition between upper
and lower)
          u: Passable on upper z-level (ZoneDoctor: "Solid to tier
1")
      nu--btrl tile properties byte 2
          n: NPC can randomly move here (ZoneDoctor: "Passable
quadrants")
          u: Always Face Up (ladder)
          -: (ZoneDoctor: "1.5")
          -: (ZoneDoctor: "1.4")
          b: Passable through bottom
          t: Passable through top
          r: Passable through right
          l: Passable through left

$BA-$BC Dialog Window
-----
$BA Enable Dialog Window ($01 = open, $80 = close)
$BB Dialog Window Size ($00: smallest, $05: fully open)

```

\$BC Dialog Window Top Y Position (\$01: top, \$12: bottom)

## \$BD-\$D3 Dialog Text

```

-----
$BD Current Dialog Character
$BE Next Dialog Character
$BF Text's Current X Position on Dialog Window ($04-$E0)
$C0 Width of Current Word
+ $C1 Pointer to Next Tile in VRAM (+$3800)
+ $C3 Pointer to Current Tile in VRAM (+$3800)
$C5 Text Graphics Needs to be Copied to VRAM
+ $C6 Unused (set to #$0700)
$C8 Max X Position on Dialog Window (always $E0?)
++ $C9 Pointer to Current Dialog Character
$CC current region of dialog window that needs to be cleared in VRAM
(starts at 9, decrements once per frame)
9 = none, waiting for keypress
+-----+-----+
|      8      |      7      |
+-----+-----+
|      6      |      5      |
+-----+-----+
|      4      |      3      |
+-----+-----+
|      2      |      1      |
+-----+-----+
0 = none, no text displayed (or map name displayed)
+ $CD Character to Display (top byte is for extra characters from FF6j)
$CF eppppppp
e: text buffer is empty
p: dialog text buffer position (+$7E9183)
+ $D0 Dialog Index
$D2 -
$D3 Keypress State (decrements when button is pressed or released)
0 = not waiting for keypress
1 = waiting for keypress
2 = waiting for key release

```

## \$D4-\$DE Object Stuff

```

-----
+ $D4 pointer to sprite data at $0340 & $0400 (normal priority)
+ $D6 pointer to sprite data at $0300 & $0320 (high priority)
+ $D8 pointer to sprite data at $04C0 & $04E0 (low priority)
+ $DA Pointer to Current Object Data (+$0867)
$DC Current Object (x2)
$DD Total Number of Active Objects (x2)
$DE Number of Objects Left

```

## \$DF-\$EF Event Stuff

```

-----
$DF BG fixed color math begin (x2)

```

```
$E0 BG fixed color math end (x2)
$E1 ofs-----
    o: waiting for an object script to finish
    f: waiting for fade to finish
    s: waiting for scroll to finish
$E2 Object to Wait for
+ $E3 Event Pause Counter (frames)
++ $E5 Event PC
+ $E8 Event Stack Pointer
$EA Event Op Code
$EB-$EF Event Code Data (up to 5)

$F3-$FF Decompression Stuff
-----
++ $F3 Decompression Source
++ $F6 Decompression Destination
+ $F9 (used by decompression subroutine)
$FB (used by decompression subroutine)
+ $FC Decompression Size Counter
$FE (used by decompression subroutine)
$FF (used by decompression subroutine)
```

## **\$0100-\$01FF: Battle RAM**

See [Battle RAM](#).

## **\$0200-\$02FF: Menu RAM**

See [Menu RAM](#).

## **\$0300-\$051F: Sprite Data**

This data gets copied directly to the SNES OAM data every frame.

```
Format for sprites:
    $00 x position
    $01 y position
+ $02 vhoopppm mmmmmmmm
    v: vertical flip
    h: horizontal flip
    o: layer priority
    p: palette index
    m: graphic index

$0300-$033F High priority sprites
```

```

$0300 object, top (8)
$030C timer minute tens digit
$0310 timer minute ones digit
$0314 timer second tens digit
$0318 timer second ones digit
$031C timer colon
$0320 object, bottom (8)

```

#### \$0340-\$047F Normal priority sprites

```

$0340 object, top (40)
$03E0 overlay (4)
$03F0 unused (2)
$03F8 party, top
$03FC party, bottom
$0400 object, bottom (40)

```

#### \$04A0-\$04FF Low priority sprites

```

$04A0 overlay (4)
$04B0 unused (2)
$04B8 party, top
$04BC party, bottom
$04C0 object, top sprites (8)
$04E0 object, bottom sprites (8)

```

#### \$0500-\$051F sxsxsxsx sprite high data (2 bits per sprite)

```

s: large sprite flag (32x32)
x: x position MSB

```

## \$0520-\$119F: Field RAM

#### \$0520-\$0540 Map Properties

```

-----
$0520 Name Index
$0521 t-s123wx
      t: load timer graphics (overwrites some chocobo graphics)
      s: enable spotlights
      1: wavy BG1
      2: wavy BG2
      3: wavy BG3
      w: enable Warp (spell and item)
      x: enable X-Zone (doesn't do anything)
$0522 3bbbbbbb
      3: BG3 foreground (sets the priority bits for all bg3 tiles,
doesn't affect $2105)
      b: battle background index
$0523 -----
$0524 Tile Properties Index
$0525 b-----
      b: enable random battles
$0526 ?-----mm

```

```
?: set for colosseum guy's house exterior (unused)
m: Window Mask Settings (used if flashlight, spotlight, or
pyramid is enabled)
+++++ $0527 aaaaaaab bbbbbbcc cccddddd dddeeeee eeffffff fggggggg
a: BG2 Tile Formation Index ($800 bytes -> $7FC800)
b: BG1 Tile Formation Index ($800 bytes -> $7FC000)
c: BG3 Graphics Index ($1000 bytes -> VRAM $3000)
d: BG1/BG2 Tilesheet 4 ($1000 bytes -> VRAM $2000) doesn't get
copied if tilesheet 3 = tilesheet 4
e: BG1/BG2 Tilesheet 3 ($1000 bytes -> VRAM $1800) $2000 bytes if
tilesheet 3 = tilesheet 4
f: BG1/BG2 Tilesheet 2 ($1000 bytes -> VRAM $1000)
g: BG1/BG2 Tilesheet 1 ($2000 bytes -> VRAM $0000)
+++ $052D --cccccc ccccbbbb bbbbbbbaa aaaaaaaa
c: BG3 Map Data Index ($4000 bytes -> $7F8000)
b: BG2 Map Data Index ($4000 bytes -> $7F4000)
a: BG1 Map Data Index ($4000 bytes -> $7F0000)
$0531 Sprite Overlay Index
$0532 BG2 Horizontal Shift (positive values shift left, +/-)
$0533 BG2 Vertical Shift (positive values shift up, +/-)
$0534 BG3 Horizontal Shift
$0535 BG3 Vertical Shift
$0536 BG2/BG3 Scroll Mode
$0537 aabbccdd
a: BG1 Map Width Index
b: BG1 Map Height Index
c: BG2 Map Width Index
d: BG2 Map Height Index
$0538 aabb-def
a: BG3 Map Width Index
b: BG3 Map Height Index
d: <unused> (copied to $0592)
e: <unused> (copied to $0592)
f: <unused> (copied to $0591)
$0539 Palette Index
$053A Palette Animation Index
$053B aaabbbbb
a: BG3 Animation Index ($1000 bytes -> VRAM $3000)
b: BG1/BG2 Animation Index ($800 bytes -> VRAM $2800)
$053C Song Index
$053D -
$053E Map Width ($00 for loop)
$053F Map Height
$0540 BG2/BG3 Color Math Mode
$0541 BG1 X Center Coordinate (on screen, 16x16 tiles)
$0542 BG1 Y Center Coordinate
$0543 BG2 X Center Coordinate
$0544 BG2 Y Center Coordinate
$0545 BG3 X Center Coordinate
```



```

    $0546 BG3 Y Center Coordinate
+ $0547 Event BG1 Horizontal Scroll Speed ($0080 = 1 pixel/frame, +/-)
+ $0549 Event BG1 Vertical Scroll Speed
+ $054B Event BG2 Horizontal Scroll Speed
+ $054D Event BG2 Vertical Scroll Speed
+ $054F Event BG3 Horizontal Scroll Speed
+ $0551 Event BG3 Vertical Scroll Speed
    $0553 BG2 Horizontal Scroll Rate Multiplier (bg2 pixels/step)
    $0554 BG2 Vertical Scroll Rate Multiplier (bg2 pixels/step)
    $0555 BG3 Horizontal Scroll Rate Multiplier (bg3 pixels/step)
    $0556 BG3 Vertical Scroll Rate Multiplier (bg3 pixels/step)
    $0557 BG1 destination X center coordinate (when scrolling to a party
after an object collision)
    $0558 BG1 destination Y center coordinate
    $0559 lock screen (Disable Screen Scroll With Character Movement)
    $055A BG1 Map Data Update Status (decrements every frame)
        05 = needs update, but waiting for event command $75
        04 = top->RAM
        03 = bottom->RAM
        02 = top->VRAM
        01 = bottom->VRAM
        00 = no changes
    $055B BG2 Map Data Update Status
    $055C BG3 Map Data Update Status
    $055D Default party
    $055E Object Collision Status
        00 = no collisions
        01 = collision occurred, waiting for party to stop moving
        02 = collision being processed
    $055F Object Collision Facing Direction
+ $0560 Pointer to Character Object Data for Collision
+ $0562 Pointer to NPC Object Data for Collision

$0564-$0584 Dialog Window Stuff
-----
    $0564 Show Text Only (no dialog window)
    $0565 Wallpaper Index
    $0566 Window 2 Frame Counter (for flashlight/pyramid/spotlights)
    $0567 Counter for map name dialog box (counts down from 100 every
frame)
    $0568 e-----d Dialog Flags
        e: dialog item is fully rendered
        d: enable dialog text
+ $0569 counter for dialog pause
+ $056B kccccccc cccccccc
        k: allow keypress
        c: counter for keypress
    $056D Multiple Choice Selection is Changing
    $056E Current Multiple Choice Selection
    $056F Maximum Multiple Choice Selection
$0570-$057F Multiple Choice XY Positions (8 items, 2 bytes each)

```

```
+ $0580 Current Multiple Choice Position (+$3800 in VRAM)
$0582 Update Dialog Text (for multiple choice indicator movement)
$0583 Item Index for Dialog Window Display
$0584 Spell Index for Dialog Window Display (unused, this is from
FF6j)

$0585 BG1 Vertical Scroll Status
    0 = no update
    1 = update in RAM
    2 = update in VRAM
$0586 BG1 Horizontal Scroll Status
$0587 BG2 Vertical Scroll Status
$0588 BG2 Horizontal Scroll Status
$0589 BG3 Vertical Scroll Status
$058A BG3 Horizontal Scroll Status
+ $058B BG1 VRAM Map Location ($4800 or $4C00)
+ $058D BG2 VRAM Map Location ($5000 or $5400)
+ $058F BG3 VRAM Map Location ($5800 or $5C00)
$0591 -
$0592 -
$0593 -
$0594-$05C3 Event Stack for subroutines (up to 15 events)
$05C4-$05F3 Event Loop Count (3 bytes each)
$05F4-$0623 Event Stack for loops (up to 16 loops)

$0624-$062B Event Code for Map Startup
-----
+++ $0624 B2 xxxxxx Jump to xxxxxx
+ $0628 D3 CF      Clear event bit $1EB9.7 (enable user control of
character)
    $062A FD      Add 1 to event PC (does nothing)
    $062B FE      Return

    $062C Minimum X Scroll Position (in pixels, $FF means no min or max)
    $062D Maximum X Scroll Position (in pixels)
    $062E Minimum Y Scroll Position (in pixels, $FF means no min or max)
    $062F Maximum Y Scroll Position (in pixels)
    $0630 Horizontal Scanline Position
    $0631 Vertical Scanline Position
    $0632 Max Vertical Scanline Position (can be used to watch CPU load)
$0633-$0742 Sprite Overlay Stuff
-----
$0633-$0642 Sprite Overlay Graphics Indexes (16 tiles)
$0643-$0742 yxo-ooo- Sprite Overlay Tile Formation (for each bg1 tile, $FF
means no overlay tile)
    y: flip overlay graphics vertical
    x: flip overlay graphics horizontal
    o: overlay tile index
$0743 x-----dd
```

```

        x: don't update facing direction (for party switch)
        d: party facing direction
$0744 -----lu Saved/Destination Z Level
        l: Lower Z Level
        u: Upper Z Level
$0745 Enable Map Name Dialog Box
$0746-$0749 -
$074A o321ffaa
        o: shake obj layer
        3: shake BG3
        2: shake BG2
        1: shake BG1
        f: frequency
        a: amplitude
$074B current shake screen amplitude
+ $074C BG1 vertical offset for shake screen
+ $074E BG2 vertical offset for shake screen
+ $0750 BG3 vertical offset for shake screen
$0752 ??? Spotlight color add/sub (unused)
$0753 ??? Spotlight color add/sub (unused)
$0754-$075B Decimal Number for Dialog Text Display
+ $075C ??? Pyramid
+ $075E ??? Pyramid
+ $0760 ??? Pyramid
$0762 Enable Party Change

$0763-$077A Active Overlay Data (6 items, 4 bytes each, last two are unused)
-----
$0763 Overlay Tile X Position
$0764 Overlay Tile Y Position
$0765 Overlay Tile Graphic Index ($00 = no tile)
$0766 vh-----f
        v: vertical flip
        h: horizontal flip
        f: 1 = upper z-level, 0 = lower z-level

$077B f--sssss
        f: enable flashlight
        s: flashlight radius in pixels * 2 (target)
$077C --sssss
        s: flashlight radius in pixels (current)
+ $077D Pyramid/Flashlight XY Position
+ $077F Pointer to Pyramid Object Data (+0867)
$0781 Enable Pyramid
$0782 -
+ $0783 ??? (spotlights)
+ $0785 ??? (spotlights)
$0787 -
$0788 -
$0789 "Monster-in-a-Box" Formation Index
$078A bs-----

```

```

    b: disable battle blur
    s: disable sound effect
$078B Number of Random Battles on Map
+ $078C Number of Steps On Map For Random Battles
$078E Party is on a trigger (disables random battles)
$078F Number of active NPCs
$0790-$0794 Pyramid/Spotlights data
$0795 Character Portrait Index
+ $0796 Screen Mosaic Counter
$0798 Wait for character objects to get updated
$0799-$07FA Pointers to Object Data (multiples of $29, 2 bytes each)
$07FB-$0866 Pointers to Active Objects
+ $07FB Party Character 0
+ $07FD Party Character 1
+ $07FF Party Character 2
+ $0801 Party Character 3
+ $0803 Showing Character
$0867-$1068 Object Data (50 items, 41 bytes each, $00-$0F are characters,
$10-$2F are NPC's, $30 is camera ($07B0), $31 is showing character or for
unused objects ($07D9))
-----
$0867 verbbppp Object Settings
    v: Visible
    e: Enabled (active)
    r: Battle Row (back row if set) \
    b: Battle Order |--> characters only, though
$1850 is "master" data
    p: Party /
$0868 vvvddoom Sprite Settings
    v: Vehicle Index (or animation speed for special graphics, which
is unusable)
        000 = character only, no vehicle
        001 = chocobo, character not shown
        010 = magitek, character not shown
        011 = raft, character not shown
        100 = special NPC graphics (ZoneDoctor: "4.7")
        101 = chocobo, character shown
        110 = magitek, character not shown
        111 = raft, character not shown
    d: saved facing direction for movement (while object is
activated)
    o: layer priority (for layering wrt bg tiles, ZoneDoctor: "Can
walk under/over")
        00 = default, based on bg tile properties
        01 = upper sprite above bg, lower sprite below bg
        02 = both sprites above bg
        03 = both sprites below bg
    m: Enable Walking Animation When Moving *OR* horizontal flip for
special NPC graphics (copied from $0889.7)
```

```

++ $0869 tttttttt ttttpppp xxxxxxxx
      t: X Position (in tiles)
      p: X Position (in pixels)
      x: X Position (in pixels/4096)
++ $086C tttttttt ttttpppp yyyyyyyy
      t: Y Position (in tiles)
      p: Y Position (in pixels)
      y: Y Position (in pixels/4096)
+ $086F Y Shift for jumping (in pixels, high byte always 0)
+ $0871 Horizontal Movement Speed
+ $0873 Vertical Movement Speed
$0875 Object Speed
$0876 -hpppppp Current Graphic Position
      h: horizontal flip
      p: graphics position
$0877 -hpppppp Next Graphic Position
      h: horizontal flip
      p: graphics position
$0878 Actor Index
$0879 Graphic Index
+ $087A Pointer to Location in Map Data (+$7E2000 or +$7F0000)
$087C 2cxpmmmm Movement Type
      2: object scrolls with BG2 rather than BG1 (ZoneDoctor:
"Solidify action path")
      c: object event activates on collision
      x: don't face target when activated *0R* 32x32 sprite size for
special NPC graphics (ZoneDoctor: "No face on trigger")
      p: passability flag (0 = passable, 1 = not passable)
      m: object movement type
          0 = none
          1 = script-controlled
          2 = user-controlled
          3 = random
          4 = activated (facing something)
$087D saved copy of $087C (during event execution)
$087E ---ddddd
      d: moving direction
          $00 = not moving
          $01 = up
          $02 = right
          $03 = down
          $04 = left
          $05 = up/right
          $06 = down/right
          $07 = down/left
          $08 = up/left
          $09 = right/up 1x2
          $0A = right/up 2x1
          $0B = right/down 2x1
          $0C = right/down 1x2
          $0D = left/down 1x2

```

```

    $0E = left/down 2x1
    $0F = left/up 2x1
    $10 = left/up 1x2
$087F -----dd
    d: facing direction
        00 = up
        01 = right
        10 = down
        11 = left
$0880 vhooppp- (upper sprite)
$0881 vhooppp- (lower sprite)
    v: Vertical Flip
    h: Horizontal Flip
    o: sprite layer priority (always 2 or 3)
    p: Palette Index
$0882 Object script wait counter
++ $0883 Object script pointer
$0886 Number of Steps to Take
$0887 jjpppppp
    j: Jump Type (00 = low, 01 = high)
    p: Jump Counter (pointer to $C059AD, decrements every frame)
$0888 -----blu (copied from tile properties)
    b: bridge tile
    l: lower Z level
    u: upper Z level
++ $0889 Pointer to Event Script (normal objects only)
$0889 hvvvvvvv (special NPC graphics only)
    h: horizontal flip
    v: VRAM address (in tiles, +$7000)
$088A sssmmmmm (special NPC graphics only)
    s: amount to shift (in pixels * 2 if there is no master object,
in tiles if there is)
    m: master object number (NPC number)
$088B -----md (special NPC graphics only)
    m: enable master/slave object (this object follows another NPC
whenever it moves)
    d: direction to shift (0 = right, 1 = down)
$088C ppannggg
    p: sprite priority (layering wrt other sprites, 0 = normal, 1 =
high, 2,3 = low) (ZoneDoctor: "8.3", "8.4")
    a: enable special animation (set when g is not zero)
    n: special animation frame type (active when g is not zero)
        00 = 1 frame
        01 = 2 frames (one image flips horizontally)
        10 = 2 frames
        11 = 4 frames
    g: special animation offset (see C0/5831) (ZoneDoctor: "8.5",
"8.6", "8.7")
+ $088D Object Map Index
```

\$088F Pointer to Animation Queue (+\$10F7)

\$1069-\$10D0 BG1/BG2 Animation Data (8 items, 13 bytes each)

-----

- + \$1069 Animation Counter
- + \$106B Animation Speed (\$0400 = 1:1 @ 60Hz)
- \$106D Graphic Bank Pointer
- + \$106E Frame 1 Pointer
- + \$1070 Frame 2 Pointer
- + \$1072 Frame 3 Pointer
- + \$1074 Frame 4 Pointer

\$10D1-\$10E6 BG3 Animation Data

-----

- + \$10D1 Animation Counter
- + \$10D3 Animation Speed
- + \$10D5 Size
- + \$10D7 Frame 1 Pointer
- + \$10D9 Frame 2 Pointer
- + \$10DB Frame 3 Pointer
- + \$10DD Frame 4 Pointer
- + \$10DF Frame 5 Pointer
- + \$10E1 Frame 6 Pointer
- + \$10E3 Frame 7 Pointer
- + \$10E5 Frame 8 Pointer

\$10E7-\$10F6 Palette Animation Data (2 items, 8 bytes each)

-----

\$10E7 counter 1 (frames per palette update)

\$10E8 counter 1 reset value [byte 1]

\$10E9 counter 2 (palette updates per reset)

\$10EA ttttrrrr [byte 0]

t: palette animation type (0 = none, 1 = cycle, 2 = ROM, 3 = subtract pulse)

r: counter 2 reset value

\$10EB first color pointer (color index \* 2) [byte 2]

\$10EC (number of affected colors - 1) \* 2 (-1 only for type 2 and 3) [byte 3]

\$10ED color index in ROM (only used by type 2 [byte 4])

\$10EE unused [byte 5]

\$10F7-\$1126 Object Animation Data (24 items, 2 bytes each)

-----

+ \$10F7 pointer to object data, \$07B0 if a slot is empty, only 6 get updated per frame

- + \$1127 Open Door Count (x2)

\$1129-\$1158 Open Door XY positions

- + \$1159 - (debug mode ???)

- + \$115B Event Bits Being Displayed (debug mode)

\$115C-\$1187 -

## \$1188-\$119F Timer Data (4 items, 6 bytes each)

```
-----  
$1188 pfrm----  
    p: Pause timer in menu and battle.  
    f: Timer is visible on field (timer 0 only).  
    r: End battle or exit menu if timer runs out.  
    m: Timer is visible in menu and battle (timer 0 only).  
+ $1189 counter (frames)  
++ $118B pointer to event code (+CA0000)
```

## \$11A0-\$11FF: Shared RAM

Shared between Field, [Battle](#), and [World](#) programs.

### \$11A0-\$11E0 Character Stats (\$40 bytes, shared with bank \$C2)

```
-----  
+$11A0 Mag. Power  
+$11A2 Stamina  
+$11A4 Speed  
+$11A6 Vigor  
+$11A8 Evade  
+$11AA MBlock  
$11AC Battle Power (main hand)  
$11AD Battle Power (off-hand)  
$11AE Weapon Hit Rate (main hand)  
$11AF Weapon Hit Rate (off-hand)  
$11B0 Weapon Element (main hand)  
$11B1 Weapon Element (off-hand)  
+$11B2 bbbhhhhh hhhhhhhh  
    b: hp boost (0 = none, 1 = 25% boost, 2 = 50% boost, 3 = 12.5%  
boost)  
    h: max hp  
$11B4 Weapon Spell Cast  
$11B5 -  
$11B6 Absorbed Elements  
$11B7 Nullified Elements  
$11B8 Weak Elements  
$11B9 Halved Elements  
$11BA Defense  
$11BB Magic Defense  
$11BC Status 2 Effects  
$11BD -  
$11BE ----mpbb  
    m: can block magic attacks  
    p: can block physical attacks  
    b: block graphic (0 = Dagger, 1 = Sword, 2 = Shield, 3 = Zephyr  
Cape)  
$11BF-$11C5 -
```



```

$11C6 Weapon
$11C7 Shield
$11C8 Helmet
$11C9 Armor
$11CA Relic 1
$11CB Relic 2
$11CC -
$11CD -
$11CE ---4321-
    1: weapon in off-hand
    2: weapon in main hand
    3: unarmed in off-hand
    4: unarmed in main hand
$11CF ---4----
    4: weapons in both hands. will oddly clear Genji Glove effect
in $11D8, for damage purposes.
$11D0 ----zhds Physical Block Graphic
$11D1 ----zhds Magical Block Graphic
    z: zephyr Cape
    h: shield
    s: sword
    d: dagger
$11D2 Status 1 Immunity
$11D3 Status 2 Immunity
$11D4 Status 3 Effects
$11D5 76543210
    7: MP +12.5% (bard's hat)
    6: MP +50% (crystal orb)
    5: MP +25% (minerva)
    4: HP +12.5% (green beret)
    3: HP +50% (muscle belt)
    2: HP +25% (red cap)
    1: raise magic damage (double earrings or hero ring)
    0: raise fight damage (atlas armlet, hero ring)
$11D6 76543210
    7: jump continuously (dragon horn)
    6: steal -> capture (thief glove)
    5: slot -> gp rain (coin toss)
    4: sketch -> control (fakemustache)
    3: magic -> x-magic (gem box)
    2: fight -> jump (dragoonboots)
    1: prevent back/pincer attacks (back guard)
    0: increase pre-emptive attack rate (gale hairpin)
$11D7 76543210
    7: raise vigor +50% (hyper wrist)
    6: MP cost = 1 (economizer)
    5: MP cost = 50% (gold hairpin)
    4: 100% Hit Rate, ignore target's MBlock (sniper sight)
    3: Increase Control Rate (coronet)
    2: Increase Sketch Rate (beret)
    1: raise magic damage (single earring or hero ring)

```

```
0: Increase Steal Rate (sneak ring)
$11D8 -thgaebo
t: protects weak allies (true knight)
h: can equip heavy items (merit award)
g: can equip 2 weapons (genji glove)
a: uses weapon 2-handed (gauntlet)
e: randomly evade (beads)
b: randomly counter (black belt)
o: fight -> x-fight (offering)
$11D9 7--43210
7: make character undead (relic ring)
4: double GP (cat hood)
3: double experience (exp. egg)
2: casts wall when HP is low
1: casts safe when HP is low (mithril glove, czarina ring)
0: casts shell when HP is low (barrier ring, czarina ring)
$11DA 765---1- Weapon Effects (main hand)
$11DB 765---1- Weapon Effects (off-hand)
7: enable runic
6: 2-hand
5: no back row penalty
1: swdtech
$11DC Run Factor
$11DD -
$11DE -
$11DF t-s---mc Field Equipment Effects
t: tintina bar effect (doesn't work)
s: sprint shoes effect (1.5x walk speed)
m: moogle charm effect (no random battles)
c: charm bangle effect (50% less random battles)
+ $11E0 r-----bb bbbbbbbb
r: randomly pick this battle or one of the next 3 (see C2/30E8)
b: battle index
+ $11E2 ???????? ??bbbbbb
b: battle background index
$11E4 ----3210
3: continue current music (no battle music)
2: on the veldt (enable leap in status menu)
1: on the veldt (enable leap in battle)
0: gau can appear after battle
$11E5-$11EF -
$11F0 Screen Mosaic Speed
$11F1 Enable Restore Saved Game
$11F2 (shared with bank $EE)
$11F3 (shared with bank $EE)
+ $11F4 (shared with bank $EE)
+ $11F6 (shared with bank $EE)
$11F8 (shared with bank $EE)
$11F9 World Map Battle BG index (table at C0/C27F)
```

```

    0: field (WoB)
    1: forest (WoR)
    2: desert (WoB or WoR)
    3: forest (WoB)
    4: building/field (WoB/WoR)
    5: field (WoR)
    6: the veldt
    7: falling through the clouds
$11FA efs---vv Map Startup Flags
    e: enable map startup event
    f: disable map fade in when loading
    s: don't update map size when loading map
    v: world map vehicle
        0 = no vehicle
        1 = airship
        2 = chocobo
$11FB Showing Character's Graphic Index
$11FC Showing Character's Palette Index
++ $11FD World Map Event Pointer

```

## \$1200-\$12FF: Copy of Direct Page

The field direct page (\$0000-\$00FF) gets copied here during battle and when on the world world map.

## \$1300-\$14FF: Sound/Music RAM

See [Sound/Music RAM](#).

## \$1500-\$15FF: Interrupt Code and CPU Stack

```

$1500-$1503 NMI Jump Code
$1504-$1507 IRQ Jump Code
$1508-$15FF CPU Stack

```

## \$1600-\$1FFF: Save RAM

This data (0x0A00 bytes) is saved to SRAM when the game is saved. Also see [SRAM](#).

```

$1600-$184F Character Data (16 items, 37 bytes each)
    $1600 Actor Index
    $1601 Graphic Index
$1602-$1607 Name
    $1608 Level
+ $1609 Current HP
+ $160B bbhhhhhh hhhhhhhh
        b: hp boost (0 = none, 1 = 25% boost, 2 = 50% boost, 3 = 12.5%

```

boost)

h: max hp  
+ \$160D Current MP  
+ \$160F bbmmmmm mmmmmmm  
b: mp boost (0 = none, 1 = 25% boost, 2 = 50% boost, 3 = 12.5%

boost)

h: max mp  
++ \$1611 Experience Points  
\$1614 weicmpzd Status 1  
w: wound  
e: petrify  
i: imp  
c: clear  
m: magitek  
p: poison  
z: zombie  
d: dark  
\$1615 fihcmlzr Status 4  
f: float  
i: interceptor  
h: hide (unused)  
c: control (unused)  
m: morph (unused)  
l: life 3 (unused)  
z: freeze (unused)  
r: rage (unused)

\$1616-\$1619 Battle Commands

\$161A Vigor  
\$161B Speed  
\$161C Stamina  
\$161D Mag. Power  
\$161E Esper  
\$161F Weapon  
\$1620 Shield  
\$1621 Helmet  
\$1622 Armor

+ \$1623 Relics

\$1850-\$185F verbbppp

v: Visible  
e: Character is Enabled  
r: Battle Row (back row if set)  
b: Battle Order  
p: Party

++ \$1860 Current GP  
++ \$1863 Current Game Time  
++ \$1866 Current Steps

\$1869-\$1968 Current Items

\$1969-\$1A68 Item Quantities

+++ \$1A69 Current Espers

**\$1A6D Current Party****\$1A6E-\$1D4C Character Skill Data**

-----  
 \$1A6E-\$1CF4 Spells Known (12 characters, 54 spells each, 1 byte per spell)  
     \$1CF6 Morph Counter  
     \$1CF7 Known sword techs  
 \$1CF8-\$1D27 Sword tech names (from FF6j)  
     \$1D28 Known blitzes  
 \$1D29-\$1D2B Known lores  
 \$1D2C-\$1D4B Known rages  
     \$1D4C Known dances

**\$1D4D-\$1DC8 Config Data**

-----  
     \$1D4D cmmmwbbb  
         c: command set (window/short)  
         m: message speed  
         w: battle mode (active/wait)  
         b: battle speed  
     \$1D4E gcsrwww  
         g: gauge  
         c: cursor  
         s: sound  
         r: reequip  
         w: wallpaper (values 0-7 valid)  
     \$1D4F ----4321  
         4: player 2 control character 4  
         3: player 2 control character 3  
         2: player 2 control character 2  
         1: player 2 control character 1  
     \$1D50 aaaabbbb  
         a: A button mapping (0 = start, 1 = A, 2 = B, 3 = X, 4 = Y, 5 =  
 top L, 6 = top R, 7 = select)  
         b: B button mapping  
     \$1D51 xxxxyyyy  
         x: X button mapping  
         y: Y button mapping  
     \$1D52 llllrrrr  
         l: top L button mapping  
         r: top R button mapping  
     \$1D53 ttteeee  
         t: Start button mapping  
         e: Select button mapping  
     \$1D54 mbccss  
         m: controller 2 enabled  
         b: custom button config  
         c: font/window palette color selection  
         s: spell order index  
     + \$1D55 Font Color  
 \$1D57-\$1DC6 Window Palette (8 palettes, 7 colors each)

+ \$1DC7 Number of times the game has been saved

## \$1DC9-\$1DDC Battle Variables

-----  
\$1DC9 -  
\$1DCA -  
\$1DCB -  
\$1DCC -  
\$1DCD -  
\$1DCE -  
\$1DCF abcdefgh  
    a: if set, program compares current monster index with  
        monster index at CF3780,X. if equal, monster index  
        is changed to monster index at CF3782,X.  
    b-h: same as a  
\$1DD0 ----mtf  
    m: permanent morph (for Phunbaba battle)  
    t: morph lasts twice as long (set after Phunbaba battle)  
    f: magic only (fanatic's tower)  
\$1DD1 ztrbemsg Battle End Event Flags  
    z: zone eater engulfed the party  
    t: timers are shown in menu and battle  
    r: ran out of time (before emperor's banquet)  
    b: ran away from previous battle  
    e: gained AP is displayed (espers have been acquired)  
    m: morph is available  
    s: enables scene with LOCKE and EDGAR if TERRA uses magic  
    g: game over after battle ends  
\$1DD2 --ums-gd  
    u: LOCKE is wearing soldier uniform  
    m: LOCKE is wearing merchant clothes  
    s: SHADOW won't leave after battle  
    g: GAU has been obtained  
    d: Doom Gaze has been defeated  
+ \$1DD3 Doom Gaze's HP  
\$1DD5 Battles Fought with Cursed Shield  
\$1DD6 -  
\$1DD7 -  
\$1DD8 -  
\$1DD9 -  
\$1DDA -  
\$1ddb -  
\$1DDC -  
\$1DDD-\$1E1C Veldt Formations Available (64 bytes)  
\$1E1D-\$1E3F -  
\$1E40-\$1E7F Treasure Bits (indicates if chests have been collected)  
  
\$1E80-\$1F5F Event Bits  
-----

```

$1E80 1: first dialog with Arvis
      3: moogle battle at Narshe
      4: met Edgar
      5: learned about Sabin
      6: first dialog with Kefka at Figaro castle
      7: Sabin returned to Figaro castle
$1E81 0: going to room at Figaro after first dialog with Kefka
      3: met Shadow
$1E82 0: Sabin joined

$1E84 4: Shadow's 1st dream
      6: Shadow's 2nd dream
      7: Shadow's 3rd dream
$1E85 0: Shadow's 4th dream

$1E93 ?f?????
      f: floating island has lifted off (not shown on mini map)
$1EA5 76543210
      0: single dog attack, opening Narshe
      1: two guards attack, opening Narshe
      2: two dogs then two guards attack, opening Narshe
      3: dialog at mine entrance, opening Narshe
      4: gate open, opening Narshe
$1EA6 76543210
      0: pincer attack, opening Narshe
      1: two guards + two mammoths attack, opening Narshe
      3: save point explanation
      4: chocobo explanation
      5: wheelk attack, opening Narshe

+ $1EB4 abcdefgh ijklmnop
      a: TERRA is available
$1EB6 sotaldru
      s: serpent trench arrow direction (0: right, 1: left)
      o: map's object data needs to be loaded ???
      t: tile event bit (gets cleared when the party moves to a new
tile)
      a: A button is down
      l: character is facing left
      d: character is facing down
      r: character is facing right
      u: character is facing up
$1EB7 sg??va?m
      s: on a save point
      g: not enough gp (set by event command $85)
      v: on the veldt
      a: airship is grounded
      m: play alternative world map music
$1EB8 ?p???ms?
      p: enable character portrait
      m: disable main menu

```

```
s: sprint shoes effect is disabled
$1EB9 upes????
u: user does not have control of character
p: enable party switching
e: encounters disabled
s: don't change song when loading map
++ $1EBA current rare items
$1EBD sc--rrrr
s: fighting SHADOW at the colosseum
c: a valid item was selected for the colosseum
r: more rare items (unused)
$1EBE -
$1EBF -
$1ED7 ???m????
m: continue current music during battle -> $11E4.3
$1ED8 aaaa???f
a: party 1 event bits (cleared every step)
f: enable horizontal fade bars from ending
$1ED9 ccccbbbb
c: party 3 event bits (cleared every step)
b: party 2 event bits (cleared every step)

+$1EDC ??cccccc cccccccc
c: initialized characters
+$1EDE sncccccc cccccccc
s: there is at least one saved game (go to load screen after
title screen instead of playing intro)
n: go to first Narshe scene after magitek march (instead of back
to the title screen)
c: available characters
$1EE0-$1F5F NPC Event Bits (to enable/disable NPC's, initialized for new
game, all other event bits are cleared)

$1F60-$1FFF
-----
+ $1F60 World XY Position
+ $1F62 Airship XY Position
+ $1F64 --ddnzpm mmmmmmmm Current Map Index
d: facing direction
n: show map name
z: z-level
p: set destination as parent map
m: map number
+ $1F66 Field XY Scroll Position (BG1)
$1F68 Facing Direction (parent facing direction if bit 7 set)
+ $1F69 Parent Map
+ $1F6B Parent XY Position
$1F6D Random Number (RNG Seed for NPC walking direction.)
+ $1F6E Danger counter for random battles
```



```

$1F70-$1F7F Saved Character Palette Indexes (for world map)
    $1F80 Current Song
$1F81-$1FA0 Saved Object Map Indexes
    $1FA1 Step counter used as an RNG Seed in determining the next random
encounter.
    $1FA2 Battle counter used as an RNG Seed in determining the monster
formation.
    $1FA3 RNG salt for use with $1FA2 (increments +23 when $1FA2 goes over
255.)
    $1FA4 RNG salt for use with $1FA1 (increments +17 when $1FA1 goes over
255.)
    $1FA5 Veldt battle group number.
    + $1FA6 Pointer to Current Showing Character's Object Data
$1FA8-$1FBF Saved timer data (from $1188)
    + $1FC0 Party XY Position
$1FC2-$1FD1 Event Variables
    + $1FC2 Points from Narshe security checkpoint/Emperor's banquet
    + $1FC4 Narshe security checkpoint variable
    + $1FC6 -
    + $1FC8 -
    + $1FCA -
    + $1FCC -
    + $1FCE Number of Dragons Left
    + $1FD0 Cid's Health/Pieces of Coral
    $1FD2 parent facing direction
$1FD3-$1FF2 Character Saved XY Positions (2 bytes each)
$1FF3-$1FF6 Party Z Levels
$1FF7-$1FFD -
    + $1FFE Saved Game Data CheckSum ($1600-$1FFD)

```

## \$7E/2000-\$7F/FFFF Field WRAM

```

$7E2000-$7E5FFF Object Map Data (object number x 2, $FF means no object)
$7E6000-$7E6BFF Terra Outline Graphics (not implemented)
$7E6C00-$7E71FF -
$7E7200-$7E73FF Color Palettes (unmodified)
    $7E7200 Dialog Text Palette (uses first four colors only)
    $7E7220 Map Palettes
    $7E72E0 Dialog Window Palette (last 8 colors only)
    $7E7300 Sprite Palettes
    $7E73E0 Vehicle Palette (overwritten for character portrait)
$7E7400-$7E75FF Color Palettes (active)
$7E7600-$7E76FF tile properties byte 1 ($F7 = always impassable, $07 =
counter tile, can be talked over)
    l: rdbtslu
    l: tile uses up/left movement (stairs)
    r: tile uses up/right movement (stairs)
    d: door tile
    b: bottom sprite shown above priority 1 bg (not active for
bridge tiles, ZoneDoctor: "0.4")

```

```
t: top sprite shown above priority 1 bg (not active for
bridge tiles, ZoneDoctor: "0.3")
s: bridge tile (ZoneDoctor: "solid tile, cannot be walked
on")
l: passable on lower z-level (ZoneDoctor: "Solid to tier 2",
if both of these are set, this tile can be a transition between upper and
lower)
u: passable on upper z-level (ZoneDoctor: "Solid to tier 1")
$7E7700-$7E77FF tile properties byte 2
nu--btrl
n: npc can randomly move here (ZoneDoctor: "Passable
quadrants")
u: always face up (ladder)
-: (ZoneDoctor: "1.5")
-: (ZoneDoctor: "1.4")
b: passable through bottom
t: passable through top
r: passable through right
l: passable through left
$7E7800-$7E78FF Sprite High Data Pointers
$7E7900-$7E79FF Sprite High Data Inverse Bit Masks
$7E7A00-$7E7AFF Sprite High Data Bit Masks
$7E7B00-$7E7B3F Flashlight Data

$7E7B40-$7E7E72 HDMA Tables
-----
$7B40-$7B9A Unused HDMA Table
$7B9B-$7BF5 Channel #7: Mosaic/BG Location HDMA Table (+++$2106)
$7BF6-$7C50 Channel #4: BG1 Scroll HDMA Table (+$210D)
$7C51-$7CAB Channel #0: BG2 Scroll HDMA Table (+$210F)
$7CAC-$7D06 Channel #3: BG3 Scroll HDMA Table (+$2111)
$7D07-$7D61 Channel #2: Fixed Color Add/Sub HDMA Table ($2132)
$7D62-$7DBC Channel #5: Window 2 Position HDMA Table (+$2128)
$7DBD-$7E17 Channel #6: Main/Sub Screen Designation HDMA Table (+212C)
$7E18-$7E72 Channel #1: Color Add/Sub Settings HDMA Table (+2130) ****
$7E73-$7ECC Saved Screen Pixelation/BG Location HDMA Table
$7ECD-$7F26 Saved BG1 Scroll HDMA Table (+$210D)
$7F27-$7F80 Saved BG2 Scroll HDMA Table (+$210F)
$7F81-$7FDA Saved BG3 Scroll HDMA Table (+$2111)
$7FDB-$8034 Saved Fixed Color HDMA Table ($2132)
$8035-$808E Saved Window 2 Position HDMA Table (+$2128)
$808F-$80E8 Saved Main/Sub Screen Designation HDMA Table (+212C)
$80E9-$8142 Saved Addition Subtraction HDMA Table (+2130) ****

$7E8143-$7EFFFF HDMA Data
-----
$8143-$8162 Unused Data
$8163-$81B2 Main/Sub Screen Designation Data (+212C)
$81B3-$8272 Mosaic/BG Location Data (+++$2106)
```

```

$8273-$8292 BG1 Upper Scroll Data (4 bytes each, horizontal then vertical)
$8293-$82B2 BG1 Lower Scroll Data
$82B3-$82D2 BG2 Upper Scroll Data
$82D3-$82F2 BG2 Lower Scroll Data
$82F3-$8312 BG3 Scroll Data
$8313-$8532 BG1 Scroll Data for Dialog Window
$8533-$8572 BG1 Scroll Data for Map Name Dialog Window
$8573-$85F2 BG3 Scroll Data for Map Name Dialog Window
$85F3-$8712 BG3 Scroll Data for Dialog Window
$8713-$8732 BG3 Scroll Data (unused)
$8733-$8752 BG3 Scroll Data for Horizontal Fade Bars (from ending)
$8753-$8762 Fixed Color Add/Sub Data (default)
$8763-$87A2 Fixed Color Add/Sub Data for Spotlights (unused)
$87A3-$8902 Fixed Color Add/Sub Data (unused)
$8903-$8942 Fixed Color Add/Sub Data for Horizontal Fade Bars (from ending)
$8943-$8AD2 Fixed Color Add/Sub Data for Dialog Window
$8AD3-$8C62 Color Add/Sub Settings for Dialog Window
$8C63-$8C72 Color Add/Sub Settings (default)
$8C73-$8C82 Color Add/Sub Settings for Horizontal Fade Bars (from ending)
$8C93-$8CA2 Color Add/Sub Settings (unused)
$8CA3-$8CB2 Window 2 Position Data for Dialog Window
$8CB3-$8E53 Window 2 Position Data (odd frames)
$8E53-$8FF2 Window 2 Position Data (even frames)
$8FF3-$9002 Window 2 Position Data (first row)

$9003-$9182 Dialog Text Graphics Buffer
-----
$9003-$9022 Current 16x16 Character Graphics, bpp 1-2 (main)
$9023-$9042 Next 16x16 Character Graphics, bpp 1-2 (main)
$9043-$9062 Current 16x16 Character Graphics, bpp 3-4 (shadow)
$9063-$9082 Next 16x16 Character Graphics, bpp 3-4 (shadow)
$9083-$90C2 Dialog Text Graphics VRAM Buffer ($40 bytes -> VRAM $3800)
$90C3-$9102
$9103-$9122 Current 16x16 Text Graphics, bpp 1-2 (main)
$9123-$9142 Next 16x16 Text Graphics, bpp 1-2 (main)
$9143-$9162 Current 16x16 Text Graphics, bpp 3-4 (shadow)
$9163-$9182 Next 16x16 Text Graphics, bpp 3-4 (shadow)

$9183-$9DFF Dialog Text Buffer
$9E00-$9EFF VWF Widths
$9F00-$A6FF BG1/BG2 Animation Graphics

$BF00-$CEFF BG3 Animation Graphics

$F120-$F800 Saved $0520-$0C00

$7F0000-$7FBFFF Map Data
-----
$0000-$3FFF BG1 Map Data
$4000-$7FFF BG2 Map Data
$8000-$BFFF BG3 Map Data xytttttt (x = x flip, y = y flip, t = tile index)

```

\$C000-\$C7FF BG1 Tile Formation  
\$C800-\$CFFF BG2 Tile Formation  
\$D000-\$D03F BG3 Tile Formation (palette only)  
\$D040-\$D83F Used as a buffer for decompressing map data etc.  
\$D840-\$D8BF Partial BG1 Map for Horizontal Scrolling (2 x 32 tiles, 2 bytes per 8x8 tile) (first column, second column)  
\$D8C0-\$D93F Partial BG2 Map for Horizontal Scrolling (2 x 32 tiles, 2 bytes per 8x8 tile) (first column, second column)  
\$D940-\$D9BF Partial BG3 Map for Horizontal Scrolling (2 x 32 tiles, 2 bytes per 8x8 tile) (first column, second column)  
\$D9C0-\$DA3F Partial BG1 Map for Vertical Scrolling (2 x 32 tiles, 2 bytes per 8x8 tile)  
\$DA40-\$E1BF Partial BG2 Map for Vertical Scrolling (2 x 32 tiles, 2 bytes per 8x8 tile)  
\$E1C0-\$E23F Partial BG3 Map for Vertical Scrolling (2 x 32 tiles, 2 bytes per 8x8 tile)  
\$D9C0-\$E1BF BG1 Map for Full Updates (32 x 32 tiles, 2 bytes per 8x8 tile)  
\$E1C0-\$E9BF BG2 Map for Full Updates (32 x 32 tiles, 2 bytes per 8x8 tile)  
\$E9C0-\$F1BF BG3 Map for Full Updates (32 x 32 tiles, 2 bytes per 8x8 tile)  
\$F1C0-\$F1CF Saved Actor Index  
\$F1D0-\$F1DF Saved Level  
\$F1E0-\$F20F Saved Experience  
  
\$F800-\$FFFF Decompression Buffer

## Field VRAM

\$0000-\$2FFF BG1/BG2 Graphics  
    \$2800 BG1/BG2 Animation Graphics  
    \$2E00 Dialog Window Graphics (28 tiles)  
\$3000-\$3FFF BG3 Graphics  
    \$3800 Dialog Text Graphics  
\$4000-\$43FF Dialog Window Map Data  
    \$4020 Window at top of screen  
    \$4240 Window at bottom of screen  
\$4400-\$47FF Dialog Text Map Data  
    \$4420 Window at top of screen  
    \$4640 Window at bottom of screen  
\$4800-\$4FFF BG1 Map Data  
    \$4800  
    \$4C00  
\$5000-\$57FF BG2 Map Data  
\$5800-\$5FFF BG3 Map Data  
\$6000-\$7FFF Sprite Graphics  
    \$6000 Object Graphics  
    \$6C00 Overlay Graphics  
    \$7000 Character Portrait Graphics

## \$7200 Vehicle Graphics

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