

■# BSO2 Zero Page Reference

Monitor ZP range: ` \$30-\$8F`

User ZP range: ` \$90-\$FF`

Source include model: prefer `INCLUDE EQUATES.INC` for monitor builds; `EQUATES.INC` automatically includes `MACROS.INC`.

Label	Size	Address	Use	Ref
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CORE_WORKSPACE	72 bytes	` \$30-\$77`	Monitor workspace (pointers, parser, debug scratch)	1
GAME_ASK_PENDING	1 byte	` \$78`	One-shot game prompt latch	3
BRK_FLAG	1 byte	` \$79`	Debug/BRK context-valid flag	5
TERM_COLS	1 byte	` \$7A`	Terminal width preference (`28/50/84`)	7
TERM_WIDTH_TIMEOUT	1 byte	` \$7B`	Width prompt timeout seconds (`00=forever`, `01-FF=seconds`; default `08`)	8
RESERVED_GAP_A	2 bytes	` \$7C-\$7D`	Reserved gap before prompt scratch	
TERM_WAIT_LED	1 byte	` \$7E`	Width prompt LED blink-pattern scratch	
TERM_WAIT_SECS	1 byte	` \$7F`	Width prompt countdown scratch	
RST_HOOK	3 bytes	` \$80-\$82`	Reset trampoline target	9
NMI_HOOK	3 bytes	` \$83-\$85`	NMI trampoline target	11
IRQ_HOOK	3 bytes	` \$86-\$88`	IRQ trampoline target	13
BRK_HOOK	3 bytes	` \$89-\$8B`	BRK sub-dispatch trampoline target	10
HW_HOOK	3 bytes	` \$8C-\$8E`	Hardware IRQ sub-dispatch trampoline target	12
RESERVED_GAP_B	1 byte	` \$8F`	Reserved gap after trampolines	
USER_ZP	112 bytes	` \$90-\$FF`	User-owned ZP range	15

Command Map (BSO2)

Cmd	Symbol(s)	Purpose	refs
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`H`, `H P`		Fixed-address help lines	3, 7, 8, 9, 10, 11, 12, 13, 15
`V`		Vector chain display	9, 10, 11, 12, 13
`!M`		Manual byte poke for pinned bytes	3, 7, 8
`Q`		Halt/resume flow tied to NMI/Reset	9, 11
`R`, `N`, `X`		Debug/step/execute flow using context + vectors	5, 9, 10, 11, 12, 13

Reference Legend

1. Core monitor ZP workspace block (` \$30-\$77`)
3. Game prompt latch byte (` \$78`)
5. Debug/BRK context flag (` \$79`)
7. Terminal-width pin byte (` \$7A`)
8. Terminal-width prompt timeout byte (` \$7B`)
9. Reset trampoline (` \$80-\$82`)
10. BRK sub-dispatch trampoline (` \$89-\$8B`)
11. NMI trampoline (` \$83-\$85`)
12. Hardware IRQ sub-dispatch trampoline (` \$8C-\$8E`)
13. IRQ trampoline (` \$86-\$88`)
15. User-reserved ZP (` \$90-\$FF`)