

2025-04-19 22:29:50 - Attempting to retrieve the root directory of the data partition.
2025-04-19 22:29:51 - Found 6 handles that supported SimpleFileSystem
2025-04-19 22:29:52 - Checking handle 0 (7EBAAF98)
2025-04-19 22:29:52 - Handle is own partition
2025-04-19 22:29:52 - Checking handle 1 (7EBAA718)
2025-04-19 22:29:52 - HD node found: MBR type(2), Signature type(2), Part #(2), Start LBA(524288), Num Sectors(524288)
2025-04-19 22:29:52 - Self node: MBR type(2), Signature type(2), Part #(1), Start LBA(2048), Num Sectors(522240)
2025-04-19 22:29:52 - Checking handle 2 (7E60B098)
2025-04-19 22:29:52 - Checking handle 3 (7E513518)
2025-04-19 22:29:52 - Checking handle 4 (7E4F3798)
2025-04-19 22:29:52 - Checking handle 5 (7E4F2E18)
2025-04-19 22:29:52 - Found 12 handles that supported Block I/O protocol
2025-04-19 22:29:52 - HD node found: MBR type(2), Signature type(2), Signature(50415353-CE04-4F8F-AC32-6F3693F43704), Part #(1), Start LBA(2048), Num Sectors(522240)
2025-04-19 22:29:52 - HD node found: MBR type(2), Signature type(2), Signature(50415353-6343-46C0-B68C-69EE6326F32B), Part #(2), Start LBA(524288), Num Sectors(524288)
2025-04-19 22:29:52 - HD node found: MBR type(2), Signature type(2), Signature(50415353-2A40-4503-B2F7-474E00EBFBAA), Part #(3), Start LBA(1048576), Num Sectors(1048543)
2025-04-19 22:29:52 - Found DMA Test Partition
2025-04-19 22:29:52 - Successfully obtained Block I/O protocol
2025-04-19 22:29:52 - Successfully obtained Partition Info protocol
2025-04-19 22:29:52 - Revision: 0x1000
2025-04-19 22:29:52 - Type: 0x2
2025-04-19 22:29:52 - System: 0x0
2025-04-19 22:29:52 - GPT - PartitionTypeGUID: EBD0A0A2-B9E5-4433-87C0-68B6B72699C7
2025-04-19 22:29:52 - GPT - UniquePartitionGUID: 50415353-2A40-4503-B2F7-474E00EBFBAA
2025-04-19 22:29:52 - GPT - StartingLBA: 0x100000
2025-04-19 22:29:52 - GPT - EndingLBA: 0x1FFFDE
2025-04-19 22:29:52 - GPT - Attributes: 0x0
2025-04-19 22:29:52 - GPT - PartitionName: DMA Test Partition
2025-04-19 22:29:52 - Media ID: 0x00000000
2025-04-19 22:29:52 - Removable: yes
2025-04-19 22:29:52 - Media Present: yes
2025-04-19 22:29:52 - Logical Part: yes
2025-04-19 22:29:52 - Read-only: no
2025-04-19 22:29:52 - Write cache: no
2025-04-19 22:29:52 - Block size: 512
2025-04-19 22:29:52 - Align: 0
2025-04-19 22:29:52 - Last block: 0xFFFFDE
2025-04-19 22:29:52 - Lowest LBA: 0x0
2025-04-19 22:29:52 - Log blks per phys blk: 0
2025-04-19 22:29:52 - Optimal transfer len: 0
2025-04-19 22:29:52 - [FS0]
2025-04-19 22:29:52 - PciRoot(0x0)/Pci(0x2,0x1)/Pci(0x0,0x0)/Pci(0xC,0x0)/Pci(0x0,0x0)/USB(0x6,0x0)/USB(0x2,0x0)/HD(1,GPT,50415353-CE04-4F8F-AC32-6F3693F43704,0x800,0x7F800)

2025-04-19 22:29:52 - File system info buffer size: 38
2025-04-19 22:29:52 - Label: "", Mode: RW, Free space: 246 MB / 254 MB (0%)
2025-04-19 22:29:52 - [FS1]
2025-04-19 22:29:52 -
PciRoot(0x0)/Pci(0x2,0x1)/Pci(0x0,0x0)/Pci(0xC,0x0)/Pci(0x0,0x0)/USB(0x6,0x0)/USB(0x2,0x0)/HD(2,GPT,50415353-6343-46C0-B68C-69EE6326F32B,0x80000,0x80000)
2025-04-19 22:29:52 - File system info buffer size: 38
2025-04-19 22:29:52 - Label: "", Mode: RW, Free space: 247 MB / 255 MB (0%)
2025-04-19 22:29:52 - [FS2]
2025-04-19 22:29:52 -
PciRoot(0x0)/Pci(0x1,0x2)/Pci(0x0,0x0)/NVMe(0x1,C5-26-23-3A-38-B7-26-00)/HD(2,GPT,F5DFC223-EF66-40C6-A476-3A00E46DBF29,0x8000,0xE8E00800)
2025-04-19 22:29:52 - File system info buffer size: 62
2025-04-19 22:29:53 - Label: "DatenSSD 2TB", Mode: RO, Free space: 0 MB / 1907712 MB (0%)
2025-04-19 22:29:53 - [FS3]
2025-04-19 22:29:53 -
PciRoot(0x0)/Pci(0x2,0x1)/Pci(0x0,0x0)/Pci(0x8,0x0)/Pci(0x0,0x0)/NVMe(0x1,05-99-66-6E-68-B7-26-00)/HD(1,GPT,8A90C780-803C-4601-A399-5D2D7D0B7B6F,0x800,0x32000)
2025-04-19 22:29:53 - File system info buffer size: 38
2025-04-19 22:29:53 - Label: "", Mode: RW, Free space: 50 MB / 96 MB (0%)
2025-04-19 22:29:53 - [FS4]
2025-04-19 22:29:53 -
PciRoot(0x0)/Pci(0x2,0x1)/Pci(0x0,0x0)/Pci(0x8,0x0)/Pci(0x0,0x0)/NVMe(0x1,05-99-66-6E-68-B7-26-00)/HD(3,GPT,C844D3BE-AA66-4F18-83D8-8A3E4D22FEC5,0x3A800,0x3A201800)
2025-04-19 22:29:53 - File system info buffer size: 38
2025-04-19 22:29:53 - Label: "", Mode: RO, Free space: 0 MB / 476162 MB (0%)
2025-04-19 22:29:53 - [FS5]
2025-04-19 22:29:53 -
PciRoot(0x0)/Pci(0x2,0x1)/Pci(0x0,0x0)/Pci(0x8,0x0)/Pci(0x0,0x0)/NVMe(0x1,05-99-66-6E-68-B7-26-00)/HD(4,GPT,79F9AF7F-3711-4C06-9F32-F4015D8E1EDA,0x3A23C000,0x149800)
2025-04-19 22:29:53 - File system info buffer size: 38
2025-04-19 22:29:53 - Label: "", Mode: RO, Free space: 0 MB / 658 MB (0%)
2025-04-19 22:29:53 - Disabling watchdog timer (Result: Success)
2025-04-19 22:29:53 - Could not find Simple Network protocol from image device handle
2025-04-19 22:29:53 - Could not get list of handles that support Simple Network protocol: Not Found
2025-04-19 22:29:53 - Found 0 handles that supported Simple Network
2025-04-19 22:29:53 - =====
2025-04-19 22:29:53 - MemTest86 V11.2 Free Build: 2000 (64-bit)
2025-04-19 22:29:53 - =====
2025-04-19 22:29:53 - SMBIOS BIOS INFO Vendor: "American Megatrends International, LLC.", Version: "2.A20", Release Date: "03/12/2025"
2025-04-19 22:29:53 - SMBIOS SYSTEM INFO Manufacturer: "Micro-Star International Co., Ltd.", Product: "MS-7E62", Version: "2.0", S/N: "To be filled by O.E.M.", SKU: "", Family: ""
2025-04-19 22:29:53 - SMBIOS: Found SMBIOS BaseboardInformation (pbLinAddr=0x93CD80E4, FormattedLen=15, iTotalLen=157)
2025-04-19 22:29:54 - SMBIOS BASEBOARD INFO Manufacturer: "Micro-Star International Co., Ltd.", Product: "MAG B850 TOMAHAWK MAX WIFI (MS-7E62)", Version: "2.0", S/N: "07E6220_P11B039404", AssetTag: "To be filled by O.E.M.",

LocationInChassis: "To be filled by O.E.M."
2025-04-19 22:29:54 - EFI Specifications: 2.70
2025-04-19 22:29:54 - Found blacklist file
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-F42C88C8" (BIOS: "", FLAGS: 1) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-F42386C8" (BIOS: "", FLAGS: 1) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-F4238CC8" (BIOS: "", FLAGS: 8) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-F4208DC8" (BIOS: "", FLAGS: 8) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-27ADBB7B4CEE8E61" (BIOS: "",
FLAGS: 20) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-7BA5B2DFE22DDD8C" (BIOS: "",
FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-7BA5B2D9E42DDD94" (BIOS: "",
FLAGS: 2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-AF89B6D9451A490B" (BIOS: "",
FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-CFF7D910A743CAAF" (BIOS: "",
FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-AA95B1DDAB278B95" (BIOS: "",
FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Mac-27AD2F918AE68F61" (BIOS: "",
FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "80AF" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Z97MX-Gaming 5" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Z170MX-Gaming 5" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Z170X-Gaming 3" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Z170X-Gaming 7" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Z170X-Gaming GT" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Z170X-UD3-CF" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Z170-HD3P" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "990FXA-UD3" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "990FX Extreme3" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "970A-DS3P" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X99-Ultra Gaming-CF" (BIOS: "", FLAGS:
2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "M5A97 R2.0" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "M5A97 EVO R2.0" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "M5A99FX PRO R2.0" (BIOS: "", FLAGS: 2)

to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "M5A99X EVO R2.0" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X99-A" (BIOS: "3701", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X99-A/USB 3.1" (BIOS: "3701", FLAGS:
2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X99-A II" (BIOS: "1701", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X99-A" (BIOS: "1701", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Sabertooth X99" (BIOS: "3701", FLAGS:
2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "SABERTOOTH 990FX R2.0" (BIOS: "",
FLAGS: 2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "SABERTOOTH 990FX R3.0" (BIOS: "",
FLAGS: 2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "SABERTOOTH 990FX/GEN3 R2.0" (BIOS: "",
FLAGS: 2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "STRIX X99 GAMING" (BIOS: "1701",
FLAGS: 2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X99-DELUXE" (BIOS: "3701", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X99-DELUXE II" (BIOS: "1701", FLAGS:
2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "RAMPAGE V EXTREME" (BIOS: "3701",
FLAGS: 2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "RAMPAGE V EDITION 10" (BIOS: "",
FLAGS: 2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "MAXIMUS VIII RANGER" (BIOS: "", FLAGS:
2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "P9X79 WS" (BIOS: "", FLAGS: 40) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "P9X79-E WS" (BIOS: "", FLAGS: 40) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Z9PE-D8 WS" (BIOS: "", FLAGS: 40) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Z10PE-D8 WS" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X9DRW" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X9DRW-3LN4F+/X9DRW-3TF+" (BIOS: "",
FLAGS: 2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X9DR3-F" (BIOS: "", FLAGS: 40) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X9SRL-F" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X9DRD-iF" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X9SRA/X9SRA-3" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X9DRL-7F" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "151-BE-E097" (BIOS: "", FLAGS: 2) to

blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "131-HE-E095" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "131-HE-E095-KR" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "151-HE-E999-KR" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "PRIME B350-PLUS" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "PRIME X370-PRO" (BIOS: "", FLAGS: 4)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "CROSSHAIR VI HERO" (BIOS: "1602",
FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "CROSSHAIR V FORMULA-Z" (BIOS: "",
FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "ROG STRIX X370-F GAMING" (BIOS:
"4012", FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "OEMSH Product" (BIOS: "", FLAGS: 8) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "OEMAL Product" (BIOS: "", FLAGS: 10)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "OEMCT Product" (BIOS: "", FLAGS: 10)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "OEMWY Product" (BIOS: "", FLAGS: 10)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "LNVNB161216" (BIOS: "", FLAGS: 10) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "GA-990FX-GAMING" (BIOS: "", FLAGS: 2)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X399 SLI PLUS (MS-7B09)" (BIOS: "",
FLAGS: 2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "X570 I AORUS PRO WIFI" (BIOS: "F32",
FLAGS: 2) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "MS-17EK" (BIOS: "", FLAGS: 2) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "0F685W" (BIOS: "", FLAGS: 80) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "00V5FJ" (BIOS: "", FLAGS: 100) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "ProLiant DL325 Gen10" (BIOS: "",
FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "ProLiant DL385 Gen10" (BIOS: "",
FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "ProLiant DL385 Gen10 Plus" (BIOS: "",
FLAGS: 4) to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "06CDVY" (BIOS: "", FLAGS: 10) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Surface Book" (BIOS: "", FLAGS: 10) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Surface Book 2" (BIOS: "", FLAGS: 10)
to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Surface Pro" (BIOS: "", FLAGS: 10) to
blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Surface Pro 7" (BIOS: "", FLAGS: 10)

to blacklist
2025-04-19 22:29:54 - [BLACKLIST] Adding "Surface Pro" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "Surface Laptop 4" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "Surface Laptop" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "MACH-WX9-PCB" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "MACH-WX9" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "8873" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "0P4NHH" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "XPS 17 9710" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "XPS 15 9510" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "01V4T3" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "0VX936" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "H12DST-B" (BIOS: "", FLAGS: 2) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "H12DSi-NT6" (BIOS: "", FLAGS: 2) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "C3758D4I-4L" (BIOS: "", FLAGS: 2) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] Adding "S5507QAD" (BIOS: "", FLAGS: 10) to blacklist
2025-04-19 22:29:55 - [BLACKLIST] 95 boards added to blacklist
2025-04-19 22:29:55 - Console Control protocol workaround enabled
2025-04-19 22:29:55 - Number of console modes: 4
2025-04-19 22:29:55 - Mode 0: 80 x 25
2025-04-19 22:29:55 - Mode 1: 80 x 50
2025-04-19 22:29:55 - Mode 2: 100 x 31
2025-04-19 22:29:55 - Mode 3: 320 x 75
2025-04-19 22:29:55 - Console attribute: 15
2025-04-19 22:29:55 - Initializing localization strings
2025-04-19 22:29:55 - Language en-US is supported
2025-04-19 22:29:55 - Language fr-FR is supported
2025-04-19 22:29:55 - Language it-IT is supported
2025-04-19 22:29:55 - Language es-AR is supported
2025-04-19 22:29:55 - GetGlyph failed for character 0x00C3 (Warning Unknown Glyph)
2025-04-19 22:29:55 - Language pt-BR is not supported
2025-04-19 22:29:55 - Language ca-ES is supported
2025-04-19 22:29:55 - Language de-DE is supported
2025-04-19 22:29:55 - GetGlyph failed for character 0x010C (Warning Unknown Glyph)
2025-04-19 22:29:55 - Language cs-CZ is not supported
2025-04-19 22:29:55 - GetGlyph failed for character 0x0104 (Warning Unknown Glyph)

2025-04-19 22:29:55 - Language pl-PL is not supported
2025-04-19 22:29:55 - Language ru-RU is supported
2025-04-19 22:29:55 - GetGlyph failed for character 0x3041 (Warning Unknown Glyph)
2025-04-19 22:29:55 - Language ja-JP is not supported
2025-04-19 22:29:55 - GetGlyph failed for character 0x4E0F (Warning Unknown Glyph)
2025-04-19 22:29:55 - Language zh-CN is not supported
2025-04-19 22:29:55 - GetGlyph failed for character 0xF944 (Warning Unknown Glyph)
2025-04-19 22:29:55 - Language zh-HK is not supported
2025-04-19 22:29:55 - Font does not support all languages. Installing unicode font...
2025-04-19 22:29:55 - InitFont - Font header version: 1.1
2025-04-19 22:29:55 - InitFont - Number of narrow glyphs: 7110
2025-04-19 22:29:55 - InitFont - Number of wide glyphs: 49976
2025-04-19 22:29:55 - Language en-US is supported
2025-04-19 22:29:55 - Language fr-FR is supported
2025-04-19 22:29:56 - Language it-IT is supported
2025-04-19 22:29:56 - Language es-AR is supported
2025-04-19 22:29:56 - Language pt-BR is supported
2025-04-19 22:29:56 - Language ca-ES is supported
2025-04-19 22:29:56 - Language de-DE is supported
2025-04-19 22:29:56 - Language cs-CZ is supported
2025-04-19 22:29:56 - Language pl-PL is supported
2025-04-19 22:29:56 - Language ru-RU is supported
2025-04-19 22:29:56 - Language ja-JP is supported
2025-04-19 22:29:56 - Language zh-CN is supported
2025-04-19 22:29:56 - Language zh-HK is supported
2025-04-19 22:29:56 - iMS support is NOT available
2025-04-19 22:29:56 - Initializing screen for graphics
2025-04-19 22:29:56 - Number of graphics modes: 16
2025-04-19 22:29:56 - Mode 0: 2560 x 1440
2025-04-19 22:29:56 - Mode 1: 800 x 600 [Current]
2025-04-19 22:29:56 - Mode 2: 1024 x 768
2025-04-19 22:29:57 - Mode 3: 1280 x 720
2025-04-19 22:29:57 - Mode 4: 1280 x 960
2025-04-19 22:29:57 - Mode 5: 1280 x 1024
2025-04-19 22:29:57 - Mode 6: 1366 x 768
2025-04-19 22:29:57 - Mode 7: 1400 x 1050
2025-04-19 22:29:57 - Mode 8: 1600 x 1200
2025-04-19 22:29:57 - Mode 9: 1920 x 1080
2025-04-19 22:29:57 - Mode 10: 1920 x 1200
2025-04-19 22:29:57 - Mode 11: 1920 x 1440
2025-04-19 22:29:57 - Mode 12: 640 x 480
2025-04-19 22:29:57 - Mode 13: 1280 x 1440
2025-04-19 22:29:57 - Mode 14: 1920 x 1080
2025-04-19 22:29:57 - Mode 15: 1920 x 1080
2025-04-19 22:29:57 - Getting CPUID
2025-04-19 22:29:57 - Getting cache size
2025-04-19 22:29:57 - get_cache_size - Vendor ID: AuthenticAMD Brand ID: AMD
Ryzen 7 9700X 8-Core Processor
2025-04-19 22:29:57 - CPU CorePPack: 16 (0x0000400F)
2025-04-19 22:29:57 - L1 instruction cache size: 16 x 48KB

2025-04-19 22:29:57 - L1 data cache size: 16 x 32KB
2025-04-19 22:29:57 - L2 cache size: 16 x 1024KB
2025-04-19 22:29:57 - L3 cache size: 1 x 32768KB
2025-04-19 22:29:57 - Measuring CPU/cache/mem speed
2025-04-19 22:29:57 - hpet_init - Found RSDP. Version: 2
2025-04-19 22:29:57 - hpet_init - Found XSDT. Entry Count: 28
2025-04-19 22:29:57 - hpet_init - Found ACPI table: FACP Version: 6
2025-04-19 22:29:57 - hpet_init - Found ACPI table: SSDT Version: 2
2025-04-19 22:29:57 - hpet_init - Found ACPI table: SSDT Version: 2
2025-04-19 22:29:58 - hpet_init - Found ACPI table: FIDT Version: 1
2025-04-19 22:29:58 - hpet_init - Found ACPI table: MCFG Version: 1
2025-04-19 22:29:58 - hpet_init - Found ACPI table: HPET Version: 1
2025-04-19 22:29:58 - hpet_init - HPET base address: 0xFED00000
2025-04-19 22:29:58 - hpet_init - HPET gen cap: 0x429B17E10228201 (Period:
69841278fs)
2025-04-19 22:29:58 - hpet_init - HPET gen cfg: 0x0
2025-04-19 22:29:58 - hpet_init - HPET is disabled
2025-04-19 22:29:58 - cpuspeed - rdtsc instruction supported: 1
2025-04-19 22:29:58 - cpuspeed - start ticks: 188688191094, end ticks:
188878195996 (difference: 190004902)
2025-04-19 22:29:58 - cpu_cache_speed - (Attempt 1) clock cycle (ms): 3800098
2025-04-19 22:29:58 - cpuspeed - rdtsc instruction supported: 1
2025-04-19 22:29:58 - cpuspeed - start ticks: 189008235226, end ticks:
189198242826 (difference: 190007600)
2025-04-19 22:29:58 - cpu_cache_speed - (Attempt 2) clock cycle (ms): 3800152
2025-04-19 22:29:58 - cpuspeed - rdtsc instruction supported: 1
2025-04-19 22:29:58 - cpuspeed - start ticks: 189328038172, end ticks:
189518043074 (difference: 190004902)
2025-04-19 22:29:58 - cpu_cache_speed - (Attempt 3) clock cycle (ms): 3800098
2025-04-19 22:29:58 - cpu_cache_speed - Using average of last 3 samples
(3800098, 3800152, 3800098)
2025-04-19 22:29:58 - cpu_cache_speed - CPU speed: 3800.1MHz
2025-04-19 22:29:58 - cpu_cache_speed - measuring L1 cache speed at 0x7C30A000
(32 KB)
2025-04-19 22:29:58 - cpu_cache_speed - L1 cache speed: 626304 MB/s
2025-04-19 22:29:58 - cpu_cache_speed - measuring L2 cache speed at 0x7C06B000
(1024 KB)
2025-04-19 22:29:58 - cpu_cache_speed - L2 cache speed: 174285 MB/s
2025-04-19 22:29:58 - cpu_cache_speed - measuring L3 cache speed at 0x79892000
(32768 KB)
2025-04-19 22:29:59 - cpu_cache_speed - L3 cache speed: 67466 MB/s
2025-04-19 22:29:59 - get_mem_speed - measuring mem speed at 0x6AFF2000 (270976
KB)
2025-04-19 22:29:59 - get_mem_speed - mem speed: 40162 MB/s
2025-04-19 22:29:59 - memory latency - allocate memory
2025-04-19 22:29:59 - memory latency - randomize range
2025-04-19 22:29:59 - memory latency - build linked list
2025-04-19 22:29:59 - memory latency - start test
2025-04-19 22:30:00 - memory latency - test completed (loops=4, repl=2097152)
2025-04-19 22:30:00 - cpu_cache_speed - Memory latency: 70.571 ns
2025-04-19 22:30:00 - Retrieving CPU MSR data
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - CPU AMD Ryzen 7 9700X 8-Core
Processor :
Family: 0x1A

Model: 0x44
Stepping: 0x0
2025-04-19 22:30:00 - IsAMDTurboCoreSupported - CPUID[0x80000007][EDX] = 00006799
2025-04-19 22:30:00 - HWCR register found. CPB enable/disable functionality supported
2025-04-19 22:30:00 - CPB is: enabled
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - MSR[0xC0010292] = 0000000104004189
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - MSR Max Pstates/#boosted states: 8, -1
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - MSR[C0010064] = 8000000049B242F8
2025-04-19 22:30:00 - GetAMDMult - CPUDid_P = 2, CPUFid_P = 248
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - Multiplier_P[0] = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - MSR[C0010065] = 80000000479E4258
2025-04-19 22:30:00 - GetAMDMult - CPUDid_P = 2, CPUFid_P = 88
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - Multiplier_P[1] = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - MSR[C0010066] = 0000000000000000
2025-04-19 22:30:00 - GetAMDMult - CPUDid_P = 0, CPUFid_P = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - Multiplier_P[2] = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - MSR[C0010067] = 0000000000000000
2025-04-19 22:30:00 - GetAMDMult - CPUDid_P = 0, CPUFid_P = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - Multiplier_P[3] = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - MSR[C0010068] = 0000000000000000
2025-04-19 22:30:00 - GetAMDMult - CPUDid_P = 0, CPUFid_P = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - Multiplier_P[4] = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - MSR[C0010069] = 0000000000000000
2025-04-19 22:30:00 - GetAMDMult - CPUDid_P = 0, CPUFid_P = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - Multiplier_P[5] = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - MSR[C001006A] = 0000000000000000
2025-04-19 22:30:00 - GetAMDMult - CPUDid_P = 0, CPUFid_P = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - Multiplier_P[6] = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - MSR[C001006B] = 0000000000000000
2025-04-19 22:30:00 - GetAMDMult - CPUDid_P = 0, CPUFid_P = 0
2025-04-19 22:30:00 - GetAMDFamilyMSRInfo - Multiplier_P[7] = 0
2025-04-19 22:30:00 - EnableAMDCPB - MSR[0xC0010015] = 0000000189006011
2025-04-19 22:30:00 - EnableAMDCPB - New MSR[0xC0010015] = 0000000189006011
2025-04-19 22:30:00 - AMD MSR enable CPD: MSR[00000000C0010062] = 0x0000000000000000
2025-04-19 22:30:00 - AMD Set PStateCtl: 0x0000000000000000
2025-04-19 22:30:00 - Get_MPERF_APERF - CPUID[0x6][ECX] = 00000001
2025-04-19 22:30:00 - Get_MPERF_APERF - high perf counter freq = 3800116000
2025-04-19 22:30:01 - MSR 0xC0010293: 0000004000378450
2025-04-19 22:30:01 - GetAMDMult - CPUDid_P = 4, CPUFid_P = 80
2025-04-19 22:30:01 - MSR 0xC0010063: 0000000000000000
2025-04-19 22:30:01 - MSR 0xC0010062: 0000000000000000
2025-04-19 22:30:01 - MSR 0xC0010061: 0000000000000010 (CurPState=0, MaxPState=1)
2025-04-19 22:30:01 - Get_MPERF_APERF - time in ns = 161875
2025-04-19 22:30:01 - Get_MPERF_APERF - FreqMPERF in KHz = 3803169, FreqAPERF in KHz = 5534585
2025-04-19 22:30:01 - MSR 0xC0010293: 000000400037844F
2025-04-19 22:30:01 - GetAMDMult - CPUDid_P = 4, CPUFid_P = 79
2025-04-19 22:30:01 - MSR 0xC0010063: 0000000000000000
2025-04-19 22:30:01 - MSR 0xC0010062: 0000000000000000

2025-04-19 22:30:01 - MSR 0xC0010061: 0000000000000010 (CurPState=0, MaxPState=1)
2025-04-19 22:30:01 - Get_MPERF_APERF - time in ns = 157645
2025-04-19 22:30:01 - Get_MPERF_APERF - FreqMPERF in KHz = 3803013, FreqAPERF in KHz = 5532316
2025-04-19 22:30:01 - MSR 0xC0010293: 000000400037444E
2025-04-19 22:30:01 - GetAMDMult - CPUDid_P = 4, CPUFid_P = 78
2025-04-19 22:30:01 - MSR 0xC0010063: 0000000000000000
2025-04-19 22:30:01 - MSR 0xC0010062: 0000000000000000
2025-04-19 22:30:01 - MSR 0xC0010061: 0000000000000010 (CurPState=0, MaxPState=1)
2025-04-19 22:30:01 - Get_MPERF_APERF - time in ns = 170984
2025-04-19 22:30:01 - Get_MPERF_APERF - FreqMPERF in KHz = 3802800, FreqAPERF in KHz = 5517387
2025-04-19 22:30:01 - GetAMDFamilyMSRInfo - APERF = 5534585, MPERF = 3803169, Mult = 0
2025-04-19 22:30:01 - GetAMDFamilyMSRInfo - BaseClock = 0
2025-04-19 22:30:01 - GetAMDFamilyMSRInfo - Turbo Core supported
2025-04-19 22:30:01 - DisableAMDCPB - MSR[0xC0010015] = 0000000189006011
2025-04-19 22:30:01 - DisableAMDCPB - New MSR[0xC0010015] = 000000018B006011
2025-04-19 22:30:01 - AMD MSR disable CPD: MSR[00000000C0010062] = 0x0000000000000000
2025-04-19 22:30:01 - AMD Set PStateCtl: 0x0000000000000000
2025-04-19 22:30:01 - Get_MPERF_APERF - CPUID[0x6][ECX] = 00000001
2025-04-19 22:30:01 - Get_MPERF_APERF - high perf counter freq = 3800116000
2025-04-19 22:30:01 - MSR 0xC0010293: 00000040002282F8
2025-04-19 22:30:01 - GetAMDMult - CPUDid_P = 2, CPUFid_P = 248
2025-04-19 22:30:01 - MSR 0xC0010063: 0000000000000000
2025-04-19 22:30:01 - MSR 0xC0010062: 0000000000000000
2025-04-19 22:30:01 - MSR 0xC0010061: 0000000000000010 (CurPState=0, MaxPState=1)
2025-04-19 22:30:01 - Get_MPERF_APERF - time in ns = 217263
2025-04-19 22:30:01 - Get_MPERF_APERF - FreqMPERF in KHz = 3803270, FreqAPERF in KHz = 3833519
2025-04-19 22:30:02 - MSR 0xC0010293: 00000040002242F8
2025-04-19 22:30:02 - GetAMDMult - CPUDid_P = 2, CPUFid_P = 248
2025-04-19 22:30:02 - MSR 0xC0010063: 0000000000000000
2025-04-19 22:30:02 - MSR 0xC0010062: 0000000000000000
2025-04-19 22:30:02 - MSR 0xC0010061: 0000000000000010 (CurPState=0, MaxPState=1)
2025-04-19 22:30:02 - Get_MPERF_APERF - time in ns = 217223
2025-04-19 22:30:02 - Get_MPERF_APERF - FreqMPERF in KHz = 3803271, FreqAPERF in KHz = 3833019
2025-04-19 22:30:02 - MSR 0xC0010293: 00000040002242F8
2025-04-19 22:30:02 - GetAMDMult - CPUDid_P = 2, CPUFid_P = 248
2025-04-19 22:30:02 - MSR 0xC0010063: 0000000000000000
2025-04-19 22:30:02 - MSR 0xC0010062: 0000000000000000
2025-04-19 22:30:02 - MSR 0xC0010061: 0000000000000010 (CurPState=0, MaxPState=1)
2025-04-19 22:30:02 - Get_MPERF_APERF - time in ns = 221183
2025-04-19 22:30:02 - Get_MPERF_APERF - FreqMPERF in KHz = 3803212, FreqAPERF in KHz = 3832053
2025-04-19 22:30:02 - GetAMDFamilyMSRInfo - (CPB disabled) APERF = 3833519, MPERF = 3803271, Mult = 0

2025-04-19 22:30:02 - GetAMDFamilyMSRInfo - (CPB disabled) BaseClock = 0
2025-04-19 22:30:02 - GetAMDFamilyMSRInfo - CPUSpeedTurboTheoreticalMax = 0
2025-04-19 22:30:02 - GetAMDFamilyMSRInfo - (Before sanity check) Freq:
3833519KHz (Ratio: 0, ExtClk: 0KHz), Turbo: 5534585KHz (Ratio: 0, ExtClk: 0KHz)
(Theoretical Max: 5534585KHz)
2025-04-19 22:30:02 - GetAMDFamilyMSRInfo - Freq: 3833519, 0, 0, Turbo: 5534585,
0, 0 (5534585)
2025-04-19 22:30:02 - Getting memory size
2025-04-19 22:30:02 - 0x000000000000 - 0x00000009EFFF (636KB) {Free Memory}
2025-04-19 22:30:02 - 0x00000009F000 - 0x00000009FFFF (4KB) {Boot Services Data}
2025-04-19 22:30:02 - 0x000000100000 - 0x0000009E01FFF (157MB) {Free Memory}
2025-04-19 22:30:02 - 0x0000009E02000 - 0x0000009FFFFFFF (2040KB) {Reserved Memory}
2025-04-19 22:30:02 - 0x000000A000000 - 0x000000A1FFFFFF (2MB) {Free Memory}
2025-04-19 22:30:02 - 0x000000A200000 - 0x000000A21DFFF (120KB) {ACPI
Non-volatile}
2025-04-19 22:30:02 - 0x000000A21E000 - 0x000000A29DFFF (512KB) {Boot Services
Data}
2025-04-19 22:30:02 - 0x000000A29E000 - 0x000000AFFFFFFF (13MB) {Free Memory}
2025-04-19 22:30:02 - 0x000000B000000 - 0x000000B020FFF (132KB) {Reserved Memory}
2025-04-19 22:30:02 - 0x000000B021000 - 0x0000007B891FFF (1800MB) {Free Memory}
2025-04-19 22:30:02 - 0x0000007B892000 - 0x0000007BAD1FFF (2MB) {Boot Services Data}
2025-04-19 22:30:02 - 0x0000007BAD2000 - 0x0000007C16AFF (6MB) {Free Memory}
2025-04-19 22:30:02 - 0x0000007C16B000 - 0x0000007C2EBFFF (1540KB) {Loader Code}
2025-04-19 22:30:02 - 0x0000007C2EC000 - 0x0000007C30FFF (144KB) {Free Memory}
2025-04-19 22:30:02 - 0x0000007C310000 - 0x0000007C68DFFF (3MB) {Boot Services Data}
2025-04-19 22:30:02 - 0x0000007C68E000 - 0x0000007CE77FFF (7MB) {Loader Data}
2025-04-19 22:30:02 - 0x0000007CE78000 - 0x0000007D8B9FFF (10MB) {Boot Services
Data}
2025-04-19 22:30:02 - 0x0000007D8BA000 - 0x0000007D8BAFFF (4KB) {Loader Data}
2025-04-19 22:30:02 - 0x0000007D8BB000 - 0x0000007D8C7FFF (52KB) {Boot Services
Data}
2025-04-19 22:30:02 - 0x0000007D8C8000 - 0x0000007D8CBFFF (16KB) {Loader Data}
2025-04-19 22:30:02 - 0x0000007D8CC000 - 0x0000007D92BFFF (384KB) {Boot Services
Data}
2025-04-19 22:30:02 - 0x0000007D92C000 - 0x0000007D92DFFF (8KB) {Loader Data}
2025-04-19 22:30:02 - 0x0000007D92E000 - 0x0000008247EFFF (75MB) {Boot Services
Data}
2025-04-19 22:30:02 - 0x0000008247F000 - 0x000000837B9FFF (19MB) {Free Memory}
2025-04-19 22:30:02 - 0x000000837BA000 - 0x0000008457EFFF (13MB) {Boot Services
Code}
2025-04-19 22:30:02 - 0x0000008457F000 - 0x0000008A57EFFF (96MB) {Reserved Memory}
2025-04-19 22:30:02 - 0x0000008A57F000 - 0x0000008A67EFFF (1024KB) {ACPI Tables}
2025-04-19 22:30:02 - 0x0000008A67F000 - 0x0000008C67EFFF (32MB) {ACPI Non-volatile}
2025-04-19 22:30:02 - 0x0000008C67F000 - 0x0000009867EFFF (192MB) {Runtime Services
Data}
2025-04-19 22:30:02 - 0x0000009867F000 - 0x000000987FEFFF (1536KB) {Runtime Services
Code}
2025-04-19 22:30:02 - 0x000000987FF000 - 0x00000098DFFFFFF (6MB) {Boot Services Data}
2025-04-19 22:30:02 - 0x00000098E00000 - 0x00000098E2BFFF (176KB) {Free Memory}
2025-04-19 22:30:02 - 0x00000098E2C000 - 0x00000098F2BFFF (1024KB) {Boot Services
Data}
2025-04-19 22:30:04 - 0x00000098F2C000 - 0x00000098F50FFF (148KB) {Boot Services
Code}
2025-04-19 22:30:04 - 0x00000098F51000 - 0x00000098F85FFF (212KB) {Boot Services

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Data}
2025-04-19 22:30:04 - 0x000098F86000 - 0x000098FB2FFF (180KB) {Boot Services
Code}
2025-04-19 22:30:04 - 0x000098FB3000 - 0x000098FCBFFF (100KB) {Boot Services
Data}
2025-04-19 22:30:04 - 0x000098FCC000 - 0x000098FEEFFF (140KB) {Boot Services
Code}
2025-04-19 22:30:04 - 0x000098FEF000 - 0x000099E75FFF (14MB) {Boot Services
Data}
2025-04-19 22:30:04 - 0x000099E76000 - 0x000099E79FFF (16KB) {Boot Services
Code}
2025-04-19 22:30:04 - 0x000099E7A000 - 0x000099E8DFFF (80KB) {Boot Services
Data}
2025-04-19 22:30:04 - 0x000099E8E000 - 0x000099E8FFFF (8KB) {Boot Services Code}
2025-04-19 22:30:04 - 0x000099E90000 - 0x000099EA0FFF (68KB) {Boot Services
Data}
2025-04-19 22:30:04 - 0x000099EA1000 - 0x000099EBEFFF (120KB) {Boot Services
Code}
2025-04-19 22:30:04 - 0x000099EBF000 - 0x000099EC0FFF (8KB) {Boot Services Data}
2025-04-19 22:30:04 - 0x000099EC1000 - 0x000099EC1FFF (4KB) {Free Memory}
2025-04-19 22:30:04 - 0x000099EC2000 - 0x000099ED3FFF (72KB) {Boot Services
Data}
2025-04-19 22:30:04 - 0x000099ED4000 - 0x000099ED4FFF (4KB) {Free Memory}
2025-04-19 22:30:04 - 0x000099ED5000 - 0x000099ED5FFF (4KB) {Boot Services Code}
2025-04-19 22:30:04 - 0x000099ED6000 - 0x000099FE7FFF (1096KB) {Boot Services
Data}
2025-04-19 22:30:04 - 0x000099FE8000 - 0x000099FEEFFF (28KB) {Boot Services
Code}
2025-04-19 22:30:04 - 0x000099FEF000 - 0x000099FF6FFF (32KB) {Boot Services
Data}
2025-04-19 22:30:04 - 0x000099FF7000 - 0x000099FFBFFF (20KB) {Runtime Services
Data}
2025-04-19 22:30:04 - 0x000099FFC000 - 0x000099FFFFFF (16KB) {Boot Services
Data}
2025-04-19 22:30:04 - 0x000100000000 - 0x00043DE7FFFF (13278MB) {Free Memory}
2025-04-19 22:30:04 - 0x0000000A0000 - 0x0000000FFFFFFF (384KB) {Reserved Memory}
2025-04-19 22:30:04 - 0x00009A000000 - 0x00009BFFFFFFF (32MB) {Reserved Memory}
2025-04-19 22:30:04 - 0x00009D7F3000 - 0x00009FFFFFFF (40MB) {Reserved Memory}
2025-04-19 22:30:04 - 0x0000E0000000 - 0x0000EFFFFFFF (256MB) {OS Memory-mapped
IO}
2025-04-19 22:30:04 - 0x0000F7000000 - 0x0000FEDFFFFFFF (126MB) {OS Memory-mapped
IO}
2025-04-19 22:30:04 - 0x0000FEE00000 - 0x0000FEE00FFF (4KB) {OS Memory-mapped
IO}
2025-04-19 22:30:04 - 0x0000FEE01000 - 0x0000FFFFFFF (17MB) {OS Memory-mapped
IO}
2025-04-19 22:30:04 - 0x00043EEC0000 - 0x00045FFFFFFF (529MB) {Reserved Memory}
2025-04-19 22:30:04 - 0x000460000000 - 0x0004801FFFFFFF (514MB) {OS Memory-mapped
IO}
2025-04-19 22:30:04 - 0x00FD00000000 - 0x00FFFFFFF (12288MB) {Reserved
Memory}
2025-04-19 22:30:04 -
2025-04-19 22:30:04 - Available Memory: 0x3BAE1A000 (14GB)
2025-04-19 22:30:04 - Reserved Memory: 0x37BBB3000 (13GB)

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2025-04-19 22:30:04 - mem_size - Number of entries: 65
2025-04-19 22:30:04 - mem_size - Max address: 0x10000000000
2025-04-19 22:30:04 - mem_size - Total memory size (16370249728 bytes)
2025-04-19 22:30:04 - Parsing command line: ""
2025-04-19 22:30:04 - Successfully located the PI MpService protocol.
2025-04-19 22:30:04 - BSP is Proc 0
2025-04-19 22:30:05 - This platform has 16 logical processors of which 16 are
enabled.
2025-04-19 22:30:05 - ProcID   Enabled   Type     Status   Pkg     Core   Thread
Hyperthread?
2025-04-19 22:30:05 - -----
-----
2025-04-19 22:30:05 - Get Proc Info Proc #0
2025-04-19 22:30:05 - 00000000      Y      BSP  00000007      0      0      0
N
2025-04-19 22:30:05 - Get Proc Info Proc #1
2025-04-19 22:30:05 - 00000001      Y      AP   00000006      0      0      1
Y
2025-04-19 22:30:05 - Get Proc Info Proc #2
2025-04-19 22:30:05 - 00000002      Y      AP   00000006      0      1      0
N
2025-04-19 22:30:05 - Get Proc Info Proc #3
2025-04-19 22:30:05 - 00000003      Y      AP   00000006      0      1      1
Y
2025-04-19 22:30:05 - Get Proc Info Proc #4
2025-04-19 22:30:05 - 00000004      Y      AP   00000006      0      2      0
N
2025-04-19 22:30:05 - Get Proc Info Proc #5
2025-04-19 22:30:05 - 00000005      Y      AP   00000006      0      2      1
Y
2025-04-19 22:30:05 - Get Proc Info Proc #6
2025-04-19 22:30:05 - 00000006      Y      AP   00000006      0      3      0
N
2025-04-19 22:30:05 - Get Proc Info Proc #7
2025-04-19 22:30:05 - 00000007      Y      AP   00000006      0      3      1
Y
2025-04-19 22:30:05 - Get Proc Info Proc #8
2025-04-19 22:30:05 - 00000008      Y      AP   00000006      0      4      0
N
2025-04-19 22:30:05 - Get Proc Info Proc #9
2025-04-19 22:30:05 - 00000009      Y      AP   00000006      0      4      1
Y
2025-04-19 22:30:05 - Get Proc Info Proc #10
2025-04-19 22:30:06 - 0000000A      Y      AP   00000006      0      5      0
N
2025-04-19 22:30:06 - Get Proc Info Proc #11
2025-04-19 22:30:06 - 0000000B      Y      AP   00000006      0      5      1
Y
2025-04-19 22:30:06 - Get Proc Info Proc #12
2025-04-19 22:30:06 - 0000000C      Y      AP   00000006      0      6      0
N
2025-04-19 22:30:06 - Get Proc Info Proc #13
2025-04-19 22:30:06 - 0000000D      Y      AP   00000006      0      6      1
Y

```

```

2025-04-19 22:30:06 - Get Proc Info Proc #14
2025-04-19 22:30:06 - 0000000E      Y      AP 00000006      0      7      0
N
2025-04-19 22:30:06 - Get Proc Info Proc #15
2025-04-19 22:30:06 - 0000000F      Y      AP 00000006      0      7      1
Y
2025-04-19 22:30:06 - Package      ProcNum
2025-04-19 22:30:06 -      0      0
2025-04-19 22:30:06 - This platform has 16 logical processors of which 16 are
enabled.
2025-04-19 22:30:06 - Number of hyperthreads detected: 8 (Total threads: 16)
2025-04-19 22:30:06 - Disabling all hyperthreads
2025-04-19 22:30:06 - Disabling hyperthread processor 1
2025-04-19 22:30:06 - Disabling hyperthread processor 3
2025-04-19 22:30:06 - Disabling hyperthread processor 5
2025-04-19 22:30:06 - Disabling hyperthread processor 7
2025-04-19 22:30:06 - Disabling hyperthread processor 9
2025-04-19 22:30:06 - Disabling hyperthread processor 11
2025-04-19 22:30:06 - Disabling hyperthread processor 13
2025-04-19 22:30:06 - Disabling hyperthread processor 15
2025-04-19 22:30:06 - Testing MP support
2025-04-19 22:30:06 - MPSupportTestMPServices - AP dispatch test
2025-04-19 22:30:06 - MPSupportTestMPServices - Starting AP#2
2025-04-19 22:30:06 - MPSupportTestMPServices - Starting AP#4
2025-04-19 22:30:06 - MPSupportTestMPServices - Starting AP#6
2025-04-19 22:30:06 - MPSupportTestMPServices - Starting AP#8
2025-04-19 22:30:06 - MPSupportTestMPServices - Starting AP#10
2025-04-19 22:30:06 - MPSupportTestMPServices - Starting AP#12
2025-04-19 22:30:06 - MPSupportTestMPServices - Starting AP#14
2025-04-19 22:30:06 - MPSupportTestMPServices - Waiting for AP's to complete
execution
2025-04-19 22:30:07 - MPSupportTestMPServices - CPU #2 finished execution
2025-04-19 22:30:07 - MPSupportTestMPServices - CPU #4 finished execution
2025-04-19 22:30:07 - MPSupportTestMPServices - CPU #6 finished execution
2025-04-19 22:30:07 - MPSupportTestMPServices - CPU #8 finished execution
2025-04-19 22:30:07 - MPSupportTestMPServices - CPU #10 finished execution
2025-04-19 22:30:07 - MPSupportTestMPServices - CPU #12 finished execution
2025-04-19 22:30:07 - MPSupportTestMPServices - CPU #14 finished execution
2025-04-19 22:30:07 - MPSupportTestMPServices - AP dispatch test complete
2025-04-19 22:30:07 - MP test passed. Setting default CPU mode to PARALLEL
2025-04-19 22:30:07 - Getting memory controller info
2025-04-19 22:30:07 - find_mem_controller - found AMD Ryzen Zen 4 (60h-6fh)
(1022:14E2) at 0-24-2
2025-04-19 22:30:07 - AMD Ryzen Zen 4 chipset init
2025-04-19 22:30:07 - MmioCfgBaseAddr=00000000E0000021 (Enable=1)
2025-04-19 22:30:07 - MCHBAR=E0000000
2025-04-19 22:30:07 - CfgAddressCntl = 00000000 (SecBusNum=00)
2025-04-19 22:30:07 - CPUID[0x00000001]:EBX[31:0] = 00100800 (LocalApicId=0,
NBC=0, LogicalProcessorCount=16)
2025-04-19 22:30:07 - CPUID[0x00000001]:EDX[31:0] = 178BFBF (MCA=1)
2025-04-19 22:30:07 - CPUID[0x80000007]:EBX[31:0] = 0000003B
(PfehSupportPresent=1, ScalableMCA=1)
2025-04-19 22:30:07 - PFEH_CFG=0000000000000000 (PfehEnable=0)
2025-04-19 22:30:07 - PFEH_CLOAK_CFG=0000000000000000

```

2025-04-19 22:30:07 - MCG_CAP=0000000000000120 (Count=32)
2025-04-19 22:30:07 - CPUID[0x00000001]:EBX[31:0] = 00100800 (LocalApicId=0,
NBC=0, LogicalProcessorCount=16)
2025-04-19 22:30:07 - SdpCtrl[0]=C0800083 (SdpInit=1)
2025-04-19 22:30:07 - [MC0] DramConfiguration=80050BB8
2025-04-19 22:30:07 - [MC0] DebugMisc=0B0008F8
2025-04-19 22:30:07 - [MC0] DramTiming1=2424501E
2025-04-19 22:30:07 - [MC0] DramTiming2=00240074
2025-04-19 22:30:07 - [MC0] DramTiming3=17000F08
2025-04-19 22:30:07 - [MC0] DramTiming4=00000020
2025-04-19 22:30:07 - [MC0] DramTiming5=001E081C
2025-04-19 22:30:07 - [MC0] DramTiming6=0000005A
2025-04-19 22:30:07 - [MC0] DramTiming7=00000002
2025-04-19 22:30:07 - [MC0] DramTiming8=08010808
2025-04-19 22:30:07 - [MC0] DramTiming9=17010F0F
2025-04-19 22:30:07 - [MC0] DramTiming10=00001608
2025-04-19 22:30:07 - [MC0] DramTiming11=0121765A
2025-04-19 22:30:07 - [MC0] DramTiming12=00C02D9D
2025-04-19 22:30:07 - [MC0] DramTiming13=20202A2A
2025-04-19 22:30:07 - [MC0] DramTiming14=07000392
2025-04-19 22:30:07 - [MC0] DramTiming15=24002000
2025-04-19 22:30:07 - [MC0] DramTiming16=032A0F01
2025-04-19 22:30:07 - [MC0] DramTiming17=FEFFFF17
2025-04-19 22:30:07 - [MC0] DramTiming18=001028EF
2025-04-19 22:30:07 - [MC0] DramTiming19=00000101
2025-04-19 22:30:07 - [MC0] DramTiming20=00070000
2025-04-19 22:30:07 - [MC0] DramTiming21=000F0D17
2025-04-19 22:30:07 - [MC0] DramTiming22=06241012
2025-04-19 22:30:07 - [MC0] DramTiming23=22002A3F
2025-04-19 22:30:08 - UmcCap[0]=0x0001FD08
2025-04-19 22:30:08 - UmcCapHi[0]=0x00000000
2025-04-19 22:30:08 - EccChipKillCap = 0 and EccEnabled = 0 for ch 0
2025-04-19 22:30:08 - Switching BSP to 8
2025-04-19 22:30:08 - CPUID[0x00000001]:EBX[31:0] = 08100800 (LocalApicId=8,
NBC=8, LogicalProcessorCount=16)
2025-04-19 22:30:08 - SdpCtrl[1]=30400088 (SdpInit=0)
2025-04-19 22:30:08 - [MC1] DramConfiguration=80010000
2025-04-19 22:30:08 - [MC1] DebugMisc=0A0008C8
2025-04-19 22:30:08 - [MC1] DramTiming1=12122712
2025-04-19 22:30:08 - [MC1] DramTiming2=00120039
2025-04-19 22:30:08 - [MC1] DramTiming3=09000404
2025-04-19 22:30:08 - [MC1] DramTiming4=0000001A
2025-04-19 22:30:08 - [MC1] DramTiming5=0003030C
2025-04-19 22:30:08 - [MC1] DramTiming6=00000012
2025-04-19 22:30:08 - [MC1] DramTiming7=00000004
2025-04-19 22:30:08 - [MC1] DramTiming8=01010101
2025-04-19 22:30:08 - [MC1] DramTiming9=01010101
2025-04-19 22:30:08 - [MC1] DramTiming10=00000501
2025-04-19 22:30:08 - [MC1] DramTiming11=00004080
2025-04-19 22:30:08 - [MC1] DramTiming12=00002490
2025-04-19 22:30:08 - [MC1] DramTiming13=20201808
2025-04-19 22:30:08 - [MC1] DramTiming14=03000144
2025-04-19 22:30:08 - [MC1] DramTiming15=24002024
2025-04-19 22:30:08 - [MC1] DramTiming16=03080801

2025-04-19 22:30:08 - [MC1] DramTiming17=FCC0FF06
2025-04-19 22:30:08 - [MC1] DramTiming18=00100DAC
2025-04-19 22:30:08 - [MC1] DramTiming19=00000101
2025-04-19 22:30:08 - [MC1] DramTiming20=00070000
2025-04-19 22:30:08 - [MC1] DramTiming21=06040208
2025-04-19 22:30:08 - [MC1] DramTiming22=00040420
2025-04-19 22:30:08 - [MC1] DramTiming23=22002A2A
2025-04-19 22:30:08 - UmcCap[1]=0x0001FD08
2025-04-19 22:30:08 - UmcCapHi[1]=0x00000000
2025-04-19 22:30:08 - EccChipKillCap = 0 and EccEnabled = 0 for ch 1
2025-04-19 22:30:08 - Switching BSP back to 0
2025-04-19 22:30:08 - TOP_MEM=00000000A0000000
2025-04-19 22:30:08 - SYS_CFG=000000000740000 (MtrrTom2En=1)
2025-04-19 22:30:08 - TOM2=0000000460000000
2025-04-19 22:30:08 - [MC0] UmcConfig=80000701
2025-04-19 22:30:08 - [MC0] FabricBlockInstanceInformation3=00000000
2025-04-19 22:30:08 - [MC0] DramHoleControl=A0000001
2025-04-19 22:30:08 - [MC0] DramOffset=00000000
2025-04-19 22:30:08 - [MC0] SystemFabricIdMask0=0000003F
2025-04-19 22:30:08 - [MC0] SystemFabricIdMask1=00000000
2025-04-19 22:30:08 - [MC0] SystemFabricIdMask2=00000000
2025-04-19 22:30:08 - [UMC0] BeqCtrl0: 00000008 (VcmEn=1)
2025-04-19 22:30:08 - [UMC0] AddrHashPC: 3FFFC001
2025-04-19 22:30:08 - [UMC0] AddrHashPC2: 00000000
2025-04-19 22:30:08 - [MC0,n0] DramBaseAddress=00000000
2025-04-19 22:30:08 - [MC0,n0] DramLimitAddress=00000045
2025-04-19 22:30:08 - [MC0,n0] DramAddressCtl=00000703
2025-04-19 22:30:08 - [MC0,n0] DramAddressIntlv=00000000
2025-04-19 22:30:08 - [UMC0,n0] AddrHashCS: 00000000
2025-04-19 22:30:08 - [UMC0, DIMM0] DimmCfg: 00000000
2025-04-19 22:30:08 - [MC0,n1] DramBaseAddress=00000000
2025-04-19 22:30:08 - [MC0,n1] DramLimitAddress=00000000
2025-04-19 22:30:08 - [MC0,n1] DramAddressCtl=00000700
2025-04-19 22:30:09 - [MC0,n1] DramAddressIntlv=00000000
2025-04-19 22:30:09 - [UMC0,n1] AddrHashCS: 00000000
2025-04-19 22:30:09 - [UMC0, DIMM1] DimmCfg: 00000000
2025-04-19 22:30:09 - [UMC0, CS0] BaseAddr: 00000000
2025-04-19 22:30:09 - [UMC0, CS0] BaseAddrSec: 00000000
2025-04-19 22:30:09 - [UMC0, CS0] AddrMask: 00000000
2025-04-19 22:30:09 - [UMC0, CS0] AddrMaskSec: 00000000
2025-04-19 22:30:09 - [UMC0, CS0] AddrCfg: 00150508
2025-04-19 22:30:09 - [UMC0, CS0] AddrSel: 070CBA98
2025-04-19 22:30:09 - [UMC0, CS0] ColSelLo: 87654321
2025-04-19 22:30:09 - [UMC0, CS0] ColSelHi: A9876543
2025-04-19 22:30:09 - [UMC0, CS0] RmSel: 00000000
2025-04-19 22:30:10 - [UMC0, CS1] BaseAddr: 00000000
2025-04-19 22:30:10 - [UMC0, CS1] BaseAddrSec: 00000000
2025-04-19 22:30:10 - [UMC0, CS1] AddrMask: 00000000
2025-04-19 22:30:10 - [UMC0, CS1] AddrMaskSec: 00000000
2025-04-19 22:30:10 - [UMC0, CS1] AddrCfg: 00150508
2025-04-19 22:30:10 - [UMC0, CS1] AddrSel: 070CBA98
2025-04-19 22:30:10 - [UMC0, CS1] ColSelLo: 87654321
2025-04-19 22:30:10 - [UMC0, CS1] ColSelHi: A9876543
2025-04-19 22:30:10 - [UMC0, CS1] RmSel: 00000000

2025-04-19 22:30:10 - [UMC0, CS2] BaseAddr: 00000001
2025-04-19 22:30:10 - [UMC0, CS2] BaseAddrSec: 00000000
2025-04-19 22:30:10 - [UMC0, CS2] AddrMask: 03FFFFFFE
2025-04-19 22:30:10 - [UMC0, CS2] AddrMaskSec: 00000000
2025-04-19 22:30:10 - [UMC0, CS2] AddrCfg: 0025060C
2025-04-19 22:30:10 - [UMC0, CS2] AddrSel: 06074365
2025-04-19 22:30:10 - [UMC0, CS2] ColSelLo: DCB53210
2025-04-19 22:30:10 - [UMC0, CS2] ColSelHi: A9876098
2025-04-19 22:30:10 - [UMC0, CS2] RmSel: 00010000
2025-04-19 22:30:10 - [UMC0, CS3] BaseAddr: 00000000
2025-04-19 22:30:10 - [UMC0, CS3] BaseAddrSec: 00000000
2025-04-19 22:30:10 - [UMC0, CS3] AddrMask: 00000000
2025-04-19 22:30:10 - [UMC0, CS3] AddrMaskSec: 00000000
2025-04-19 22:30:10 - [UMC0, CS3] AddrCfg: 00150508
2025-04-19 22:30:10 - [UMC0, CS3] AddrSel: 070CBA98
2025-04-19 22:30:10 - [UMC0, CS3] ColSelLo: 87654321
2025-04-19 22:30:10 - [UMC0, CS3] ColSelHi: A9876543
2025-04-19 22:30:11 - [UMC0, CS3] RmSel: 00000000
2025-04-19 22:30:11 - [MC1] UmcConfig=00000200
2025-04-19 22:30:11 - [MC1] FabricBlockInstanceInformation3=00000101
2025-04-19 22:30:11 - [MC1] DramHoleControl=A0000001
2025-04-19 22:30:11 - [MC1] DramOffset=00000000
2025-04-19 22:30:11 - [MC1] SystemFabricIdMask0=0000003F
2025-04-19 22:30:11 - [MC1] SystemFabricIdMask1=00000000
2025-04-19 22:30:11 - [MC1] SystemFabricIdMask2=00000000
2025-04-19 22:30:11 - [UMC1] BeqCtrl0: 00000000 (VcmEn=0)
2025-04-19 22:30:11 - [UMC1] AddrHashPC: 00000000
2025-04-19 22:30:11 - [UMC1] AddrHashPC2: 00000000
2025-04-19 22:30:11 - [MC1,n0] DramBaseAddress=00000000
2025-04-19 22:30:11 - [MC1,n0] DramLimitAddress=00000000
2025-04-19 22:30:11 - [MC1,n0] DramAddressCtl=00000000
2025-04-19 22:30:11 - [MC1,n0] DramAddressIntlv=00000000
2025-04-19 22:30:11 - [UMC1,n0] AddrHashCS: 00000000
2025-04-19 22:30:11 - [UMC1, DIMM0] DimmCfg: 00000000
2025-04-19 22:30:11 - [MC1,n1] DramBaseAddress=00000000
2025-04-19 22:30:11 - [MC1,n1] DramLimitAddress=00000000
2025-04-19 22:30:11 - [MC1,n1] DramAddressCtl=00000700
2025-04-19 22:30:11 - [MC1,n1] DramAddressIntlv=00000000
2025-04-19 22:30:11 - [UMC1,n1] AddrHashCS: 00000000
2025-04-19 22:30:11 - [UMC1, DIMM1] DimmCfg: 00000000
2025-04-19 22:30:11 - [UMC1, CS0] BaseAddr: 00000000
2025-04-19 22:30:11 - [UMC1, CS0] BaseAddrSec: 00000000
2025-04-19 22:30:11 - [UMC1, CS0] AddrMask: 00000000
2025-04-19 22:30:11 - [UMC1, CS0] AddrMaskSec: 00000000
2025-04-19 22:30:11 - [UMC1, CS0] AddrCfg: 00150508
2025-04-19 22:30:11 - [UMC1, CS0] AddrSel: 070CBA98
2025-04-19 22:30:11 - [UMC1, CS0] ColSelLo: 87654321
2025-04-19 22:30:11 - [UMC1, CS0] ColSelHi: A9876543
2025-04-19 22:30:11 - [UMC1, CS0] RmSel: 00000000
2025-04-19 22:30:11 - [UMC1, CS1] BaseAddr: 00000000
2025-04-19 22:30:11 - [UMC1, CS1] BaseAddrSec: 00000000
2025-04-19 22:30:11 - [UMC1, CS1] AddrMask: 00000000
2025-04-19 22:30:11 - [UMC1, CS1] AddrMaskSec: 00000000
2025-04-19 22:30:11 - [UMC1, CS1] AddrCfg: 00150508

2025-04-19 22:30:11 - [UMC1, CS1] AddrSel: 070CBA98
2025-04-19 22:30:11 - [UMC1, CS1] ColSelLo: 87654321
2025-04-19 22:30:11 - [UMC1, CS1] ColSelHi: A9876543
2025-04-19 22:30:11 - [UMC1, CS1] RmSel: 00000000
2025-04-19 22:30:11 - [UMC1, CS2] BaseAddr: 00000000
2025-04-19 22:30:11 - [UMC1, CS2] BaseAddrSec: 00000000
2025-04-19 22:30:12 - [UMC1, CS2] AddrMask: 00000000
2025-04-19 22:30:12 - [UMC1, CS2] AddrMaskSec: 00000000
2025-04-19 22:30:12 - [UMC1, CS2] AddrCfg: 00150508
2025-04-19 22:30:12 - [UMC1, CS2] AddrSel: 070CBA98
2025-04-19 22:30:12 - [UMC1, CS2] ColSelLo: 87654321
2025-04-19 22:30:12 - [UMC1, CS2] ColSelHi: A9876543
2025-04-19 22:30:12 - [UMC1, CS2] RmSel: 00000000
2025-04-19 22:30:12 - [UMC1, CS3] BaseAddr: 00000000
2025-04-19 22:30:12 - [UMC1, CS3] BaseAddrSec: 00000000
2025-04-19 22:30:12 - [UMC1, CS3] AddrMask: 00000000
2025-04-19 22:30:12 - [UMC1, CS3] AddrMaskSec: 00000000
2025-04-19 22:30:12 - [UMC1, CS3] AddrCfg: 00150508
2025-04-19 22:30:12 - [UMC1, CS3] AddrSel: 070CBA98
2025-04-19 22:30:12 - [UMC1, CS3] ColSelLo: 87654321
2025-04-19 22:30:12 - [UMC1, CS3] ColSelHi: A9876543
2025-04-19 22:30:12 - [UMC1, CS3] RmSel: 00000000
2025-04-19 22:30:12 - find_mem_controller - AMD Ryzen Zen 4 (60h-6fh)
(1022:14E2) at 0-24-2
2025-04-19 22:30:12 - find_mem_controller - AMD Ryzen Zen 4 (60h-6fh) (Ch mode:
1, ECC mode: {detect: no, correct: no, scrub: no, chipkill: no, IBEC: no})
2025-04-19 22:30:12 - ECC polling disabled
2025-04-19 22:30:12 - Applying configurations
2025-04-19 22:30:12 - [CONFIG] This platform has 16 logical processors of which
8 are enabled.
2025-04-19 22:30:12 - [CONFIG] ECCPOLL cannot be enabled as ECC is not available
2025-04-19 22:30:12 - Applying configurations complete
2025-04-19 22:30:12 - Getting memory SPD info
2025-04-19 22:30:12 - Attempting to enable any disabled SMBus controllers...
2025-04-19 22:30:12 - Attempting to enable SMBUS:
2025-04-19 22:30:12 - Searching PCI for SMBus Controller
2025-04-19 22:30:12 - MMIO PM DECODEEN: E3070B77 (smbus0sel=0)
2025-04-19 22:30:12 - {00:14:00} SMBus Configuration Registers:
2025-04-19 22:30:12 - 00: 790B1022 02200403 0C050071 00800000
2025-04-19 22:30:12 - 10: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - 20: 00000000 00000000 00000000 7E621462
2025-04-19 22:30:12 - 30: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - 40: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - 50: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - 60: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - 70: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - 80: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - 90: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - A0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - B0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - C0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - D0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - E0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:12 - F0: 0000F979 00000000 00000000 00000000

2025-04-19 22:30:12 - Found SMBus device: VID:1022 DID:790B Bus:00 Dev:14
Fun:00 IO Add:0B00 IO (2) Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:71
[AMD Hudson-3 SMBus]
2025-04-19 22:30:12 - Finished searching PCI for SMBus Controller
2025-04-19 22:30:12 - Found 1 SMBus controllers
2025-04-19 22:30:12 - [AMD Hudson-3 SMBus Bus:00 Dev:14 Fun:00 Add:0B00] Looking
for SPD
2025-04-19 22:30:12 - Device detected on SMBUS at address 51 (PIIX4)
2025-04-19 22:30:12 - Expanding SPD info array (0 => 16)
2025-04-19 22:30:12 - MemoryInfo(0x7C2EF018, 121408 bytes)
2025-04-19 22:30:12 - Raw SPD bytes for DIMM#0 (Channel -1, Slot -1):
2025-04-19 22:30:12 - 51 18 12 08 0E 03 42 00 00 00 00 00 FF 3D 00 00
2025-04-19 22:30:12 - 00 00 00 00 00 00 00 00 00 00 00 00 70 03 00 00
2025-04-19 22:30:12 - 50 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:12 - 00 F0 01 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:12 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:12 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:12 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:12 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:12 - 30 10 12 02 04 00 20 62 00 00 00 00 10 02 05 00
2025-04-19 22:30:12 - 00 00 00 00 A0 01 F2 03 7A 0D 00 00 00 00 80 3E
2025-04-19 22:30:12 - 80 3E 80 3E 00 7D 80 BB 30 75 27 01 A0 00 82 00
2025-04-19 22:30:12 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:12 - 00 00 00 00 00 00 88 13 08 88 13 08 20 4E 20 10
2025-04-19 22:30:12 - 27 10 15 34 20 10 27 10 C4 09 04 4C 1D 0C 00 00
2025-04-19 22:30:12 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:12 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:12 - RAM type: DDR5
2025-04-19 22:30:12 - SPD rev: 0x18
2025-04-19 22:30:12 - Length of SPD (256) not valid
2025-04-19 22:30:12 - MR0 - Device Type MSB: 51
2025-04-19 22:30:12 - MR1 - Device Type LSB: 18
2025-04-19 22:30:12 - MR2 - Device Revision: 12
2025-04-19 22:30:12 - MR3 - Device Revision: 08
2025-04-19 22:30:12 - MR4 - Device Revision: 0E
2025-04-19 22:30:13 - MR5 - Device Capability: 03
2025-04-19 22:30:13 - MR11 - I2C Legacy Mode Device Configuration: 00
2025-04-19 22:30:13 - MR12 - NVM Protection Configuration: FF
2025-04-19 22:30:13 - MR13 - NVM Protection Configuration: 3D
2025-04-19 22:30:13 - MR18 - Device Configuration: 00 (INF_SEL=0)
2025-04-19 22:30:13 - MR52 - Hub and Thermal Sensor Error Status: 00
2025-04-19 22:30:13 - A - Setting page address to 0
2025-04-19 22:30:13 - A - Finished setting page address to 0
2025-04-19 22:30:13 - A - Setting page address to 1
2025-04-19 22:30:13 - A - Finished setting page address to 1
2025-04-19 22:30:13 - A - Setting page address to 2
2025-04-19 22:30:13 - A - Finished setting page address to 2
2025-04-19 22:30:13 - A - Setting page address to 3
2025-04-19 22:30:13 - A - Finished setting page address to 3
2025-04-19 22:30:13 - A - Setting page address to 4
2025-04-19 22:30:13 - A - Finished setting page address to 4
2025-04-19 22:30:13 - A - Setting page address to 5
2025-04-19 22:30:13 - A - Finished setting page address to 5
2025-04-19 22:30:13 - A - Setting page address to 6

2025-04-19 22:30:13 - A - Finished setting page address to 6
2025-04-19 22:30:13 - A - Setting page address to 7
2025-04-19 22:30:13 - A - Finished setting page address to 7
2025-04-19 22:30:13 - Raw SPD bytes for DIMM#0 (Channel -1, Slot -1):
2025-04-19 22:30:13 - 30 10 12 02 04 00 20 62 00 00 00 00 10 02 05 00
2025-04-19 22:30:13 - 00 00 00 00 A0 01 F2 03 7A 0D 00 00 00 00 80 3E
2025-04-19 22:30:13 - 80 3E 80 3E 00 7D 80 BB 30 75 27 01 A0 00 82 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 88 13 08 88 13 08 20 4E 20 10
2025-04-19 22:30:13 - 27 10 15 34 20 10 27 10 C4 09 04 4C 1D 0C 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 10 00 08 0E 80 21 0B 10 82 44 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 11 01 00 71 00 22 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:13 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:14 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:14 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:14 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 22 38
2025-04-19 22:30:15 - 01 98 08 25 03 E5 0A 01 A8 4B 46 35 36 30 43 33
2025-04-19 22:30:15 - 30 2D 31 36 20 20 20 20 20 20 20 20 20 20 20 20
2025-04-19 22:30:15 - 20 20 20 20 20 20 20 00 80 AD FF 00 08 31 30 36
2025-04-19 22:30:15 - 39 36 34 34 31 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 4D 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 00 01 01 00 00 00 00 00 00 00 00 00 00 88
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 0C 4A 30 33 00 0B 10 01 0B 13 03 00 00 00 50 72
2025-04-19 22:30:15 - 6F 66 69 6C 65 20 31 20 55 6C 74 72 61 0D 50 72
2025-04-19 22:30:15 - 6F 66 69 6C 65 20 32 20 55 6C 74 72 61 0D 50 72
2025-04-19 22:30:15 - 6F 66 69 6C 65 20 33 20 55 6C 74 72 61 0D 62 C7
2025-04-19 22:30:15 - 30 28 28 00 60 4D 01 7A 0F 00 00 00 00 06 27 D4
2025-04-19 22:30:15 - 2E D4 2E 10 68 E4 96 30 75 27 01 A0 00 82 00 00
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 10 D9
2025-04-19 22:30:15 - 30 25 25 00 60 65 01 7A 0F 00 00 00 00 C8 37 C8
2025-04-19 22:30:15 - 37 C8 37 90 6F 58 A7 30 75 27 01 A0 00 82 00 00

2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 06 C5
2025-04-19 22:30:15 - 45 58 50 4F 11 33 00 00 00 00 28 28 30 00 4D 01
2025-04-19 22:30:15 - 06 27 D4 2E D4 2E 10 68 E4 96 30 75 27 01 A0 00
2025-04-19 22:30:15 - 82 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 25 25 30 00 65 01 C8 37 C8 37 C8 37 90 6F
2025-04-19 22:30:15 - 58 A7 30 75 27 01 A0 00 82 00 00 00 00 00 00
2025-04-19 22:30:15 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:16 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:16 - 00 00 00 00 00 00 00 00 00 00 00 00 00 51 11
2025-04-19 22:30:16 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:16 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:16 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:16 - RAM type: DDR5
2025-04-19 22:30:16 - SPD rev: 0x10
2025-04-19 22:30:16 - Module type: UDIMM
2025-04-19 22:30:16 - Size: 16384 MB
2025-04-19 22:30:16 - Banks x Rows x Columns x Bits: 32 x 16 x 10 x 32
2025-04-19 22:30:16 - Ranks: 1
2025-04-19 22:30:16 - SDRAM Device Width: 8
2025-04-19 22:30:16 - SDRAM Package Type: Monolithic SDRAM
2025-04-19 22:30:16 - Operable voltages: 1.1V
2025-04-19 22:30:16 - SDRAM Nominal Voltage, VDD: 1.1V
2025-04-19 22:30:16 - SDRAM Nominal Voltage, VDDQ: 1.1V
2025-04-19 22:30:16 - SDRAM Nominal Voltage, VPP: 1.8V
2025-04-19 22:30:16 - ECC: No
2025-04-19 22:30:16 - Minimum clock cycle time (ns): 0.416
2025-04-19 22:30:16 - Maximum clock cycle time (ns): 1.010
2025-04-19 22:30:16 - Maximum clock speed: 2400 MHz
2025-04-19 22:30:16 - Maximum module speed: 4800 MT/s (PC5-38400)
2025-04-19 22:30:16 - Supported CAS: 22 26 28 30 32 36 40 42
2025-04-19 22:30:16 - Minimum CAS latency time (tAA): 16.000
2025-04-19 22:30:16 - Minimum RAS to CAS delay time (tRCD): 16.000
2025-04-19 22:30:16 - Minimum row precharge time (tRP): 16.000
2025-04-19 22:30:16 - Minimum active to precharge time (tRAS): 32.000
2025-04-19 22:30:16 - Supported timing at highest clock speed (2400 MHz) :
40-39-39-77
2025-04-19 22:30:16 - SPD present: Yes
2025-04-19 22:30:16 - SPD device type: SPD5118
2025-04-19 22:30:16 - PMIC 0 present: Yes
2025-04-19 22:30:16 - PMIC 0 device type: PMIC5100
2025-04-19 22:30:16 - PMIC 1 present: No
2025-04-19 22:30:16 - PMIC 1 device type: PMIC5000
2025-04-19 22:30:16 - PMIC 2 present: No
2025-04-19 22:30:16 - PMIC 2 device type: PMIC5000
2025-04-19 22:30:16 - Thermal Sensor 0 present: No
2025-04-19 22:30:16 - Thermal Sensor 1 present: No
2025-04-19 22:30:16 - Thermal Sensors device type: TS5111
2025-04-19 22:30:16 - Module Height (mm): 31 - 32
2025-04-19 22:30:16 - Module Thickness (mm): front 1-2 , back 0-1
2025-04-19 22:30:17 - Module reference card: Raw Card A Rev. 0
2025-04-19 22:30:17 - Rank Mix: Symmetrical
2025-04-19 22:30:17 - Number of Package Ranks per Sub-Channel: 1

2025-04-19 22:30:17 - Number of Sub-Channels per DIMM: 2
2025-04-19 22:30:17 - Bus width extension per Sub-Channel: 0 bits
2025-04-19 22:30:17 - Primary bus width per Sub-Channel: 32 bits
2025-04-19 22:30:17 - Module Manufacturer: Kingston (Bank: 2, ID: 0x98)
2025-04-19 22:30:17 - Module manufacturing location: 0x08
2025-04-19 22:30:17 - Manufacturing Date: Year 2025 Week 3
2025-04-19 22:30:17 - Module serial number: 0xE50A01A8
2025-04-19 22:30:17 - Module Part Number: KF560C30-16
2025-04-19 22:30:17 - Revision Code: 0x00
2025-04-19 22:30:17 - DRAM Manufacturer: SK Hynix (Bank: 1, ID: 0xAD)
2025-04-19 22:30:17 - DRAM Stepping: 0xFF
2025-04-19 22:30:17 - Module Manufacturer's Specific Data raw bytes:
2025-04-19 22:30:17 - 00 08 31 30 36 39 36 34 34 31 00 00 00 00 00 00
2025-04-19 22:30:17 - 00 00 00 00 00 00 00 4D 00 00 00 00 00 00 00 00
2025-04-19 22:30:17 - 00 00 00 00 00 01 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:17 - 00 00 00 00 00 00 00 00 01 01 00 00 00 00 00 00
2025-04-19 22:30:17 - 00 00 00 00 88 00 00 00 00 00 00 00 00 00 00 00
2025-04-19 22:30:17 - 00 00 00 00 00
2025-04-19 22:30:17 - XMP supported: Yes
2025-04-19 22:30:17 - XMP version: 3.0
2025-04-19 22:30:17 - XMP PMIC Vendor ID: 0B10
2025-04-19 22:30:17 - XMP number of PMICs: 1
2025-04-19 22:30:17 - XMP PMIC OC capabilities (capable: Yes, enabled: Yes, voltage default step size: 5mV, global reset function: Enabled)
2025-04-19 22:30:17 - XMP spec revision: 1.3
2025-04-19 22:30:17 - XMP Validation and Certification Capabilities (Self-certified: Yes, PMIC validated by Intel AVL level: Yes)
2025-04-19 22:30:17 - XMP Base Configuration Section CRC16: 0xC762
2025-04-19 22:30:17 - [XMP Profile 1] Profile enabled: Yes (certified: Yes)
2025-04-19 22:30:17 - [XMP Profile 1] recommended DIMMs per channel: 1
2025-04-19 22:30:17 - [XMP Profile 1] profile name: Profile 1 Ultra
2025-04-19 22:30:17 - Module VPP Voltage Level: 1.8V
2025-04-19 22:30:17 - Module VDD Voltage Level: 1.4V
2025-04-19 22:30:17 - Module VDDQ Voltage Level: 1.4V
2025-04-19 22:30:17 - Memory controller Voltage Level: 3.0V
2025-04-19 22:30:17 - SDRAM Minimum Cycle Time (tCKAVGmin): 0.333
2025-04-19 22:30:17 - Maximum clock speed: 3000 MHz
2025-04-19 22:30:17 - Supported CAS: 22 26 28 30 32 36 38 40 42
2025-04-19 22:30:17 - Minimum CAS Latency Time (tAAmin): 9.990
2025-04-19 22:30:17 - Minimum RAS to CAS Delay Time (tRCDmin): 11.988
2025-04-19 22:30:17 - Minimum Row Precharge Delay Time (tRPmin): 11.988
2025-04-19 22:30:17 - Minimum Active to Precharge Delay Time (tRASmin): 26.640
2025-04-19 22:30:17 - Minimum Active to Active/Refresh Delay Time (tRCmin): 38.628
2025-04-19 22:30:17 - Minimum Write Recovery Time (tWRmin): 30.000
2025-04-19 22:30:17 - Minimum Refresh Recovery Delay Time (tRFC1min): 295.000
2025-04-19 22:30:17 - Minimum Refresh Recovery Delay Time (tRFC2min): 160.000
2025-04-19 22:30:17 - Minimum Refresh Recovery Delay Time (tRFCsb): 130.000
2025-04-19 22:30:17 - Minimum Read to Read Command Delay Time, Same Bank Group (tCCD_L): 0.000
2025-04-19 22:30:17 - Minimum Write to Write Command Delay Time, Same Bank Group (tCCD_L_WR): 0.000
2025-04-19 22:30:17 - SDRAM Minimum Write to Write Command Delay Time, Second Write not RMW, Same Bank Group (tCCD_L_WR2): 0.000

2025-04-19 22:30:17 - SDRAM Minimum Write to Read Command Delay Time, Same Bank Group (tCCD_L_WTR): 0.000
2025-04-19 22:30:17 - SDRAM Minimum Write to Read Command Delay Time, Different Bank Group (tCCD_S_WTR): 0.000
2025-04-19 22:30:17 - SDRAM Minimum Active to Active Command Delay Time, Same Bank Group (tRRD_L): 0.000
2025-04-19 22:30:17 - SDRAM Minimum Read to Precharge Command Delay Time, (tRTP): 0.000
2025-04-19 22:30:17 - SDRAM Minimum Four Activate Window (tFAW min): 0.000
2025-04-19 22:30:17 - Advanced Memory Overclocking Features: Real-Time Memory Frequency Overclocking: not supported, Intel Dynamic Memory Boost: not supported
2025-04-19 22:30:17 - System CMD Rate Mode: 0n
2025-04-19 22:30:17 - Vendor Personality Byte: 00
2025-04-19 22:30:17 - [XMP Profile 2] Profile enabled: Yes (certified: Yes)
2025-04-19 22:30:17 - [XMP Profile 2] recommended DIMMs per channel: 1
2025-04-19 22:30:17 - [XMP Profile 2] profile name: Profile 2 Ultra
2025-04-19 22:30:17 - Module VPP Voltage Level: 1.8V
2025-04-19 22:30:17 - Module VDD Voltage Level: 1.25V
2025-04-19 22:30:17 - Module VDDQ Voltage Level: 1.25V
2025-04-19 22:30:17 - Memory controller Voltage Level: 3.0V
2025-04-19 22:30:17 - SDRAM Minimum Cycle Time (tCKAVGmin): 0.357
2025-04-19 22:30:17 - Maximum clock speed: 2800 MHz
2025-04-19 22:30:17 - Supported CAS: 22 26 28 30 32 36 38 40 42
2025-04-19 22:30:17 - Minimum CAS Latency Time (tAmin): 14.280
2025-04-19 22:30:17 - Minimum RAS to CAS Delay Time (tRCDmin): 14.280
2025-04-19 22:30:17 - Minimum Row Precharge Delay Time (tRPmin): 14.280
2025-04-19 22:30:17 - Minimum Active to Precharge Delay Time (tRASmin): 28.560
2025-04-19 22:30:17 - Minimum Active to Active/Refresh Delay Time (tRCmin): 42.840
2025-04-19 22:30:17 - Minimum Write Recovery Time (tWRmin): 30.000
2025-04-19 22:30:17 - Minimum Refresh Recovery Delay Time (tRFC1min): 295.000
2025-04-19 22:30:17 - Minimum Refresh Recovery Delay Time (tRFC2min): 160.000
2025-04-19 22:30:17 - Minimum Refresh Recovery Delay Time (tRFCsb): 130.000
2025-04-19 22:30:17 - Minimum Read to Read Command Delay Time, Same Bank Group (tCCD_L): 0.000
2025-04-19 22:30:17 - Minimum Write to Write Command Delay Time, Same Bank Group (tCCD_L_WR): 0.000
2025-04-19 22:30:17 - SDRAM Minimum Write to Write Command Delay Time, Second Write not RMW, Same Bank Group (tCCD_L_WR2): 0.000
2025-04-19 22:30:17 - SDRAM Minimum Write to Read Command Delay Time, Same Bank Group (tCCD_L_WTR): 0.000
2025-04-19 22:30:17 - SDRAM Minimum Write to Read Command Delay Time, Different Bank Group (tCCD_S_WTR): 0.000
2025-04-19 22:30:17 - SDRAM Minimum Active to Active Command Delay Time, Same Bank Group (tRRD_L): 0.000
2025-04-19 22:30:17 - SDRAM Minimum Read to Precharge Command Delay Time, (tRTP): 0.000
2025-04-19 22:30:18 - SDRAM Minimum Four Activate Window (tFAW min): 0.000
2025-04-19 22:30:18 - Advanced Memory Overclocking Features: Real-Time Memory Frequency Overclocking: not supported, Intel Dynamic Memory Boost: not supported
2025-04-19 22:30:18 - System CMD Rate Mode: 0n
2025-04-19 22:30:18 - Vendor Personality Byte: 00
2025-04-19 22:30:18 - [XMP Profile 3] Profile enabled: No (certified: No)
2025-04-19 22:30:18 - [XMP Profile 3] recommended DIMMs per channel: 1

2025-04-19 22:30:18 - [XMP Profile 4] User profile
2025-04-19 22:30:18 - [XMP Profile 4] profile name: Rewritable Profile 4
2025-04-19 22:30:18 - Module VPP Voltage Level: 3.2V
2025-04-19 22:30:18 - Module VDD Voltage Level: 1.35V
2025-04-19 22:30:18 - Module VDDQ Voltage Level: 1.8V
2025-04-19 22:30:18 - Memory controller Voltage Level: 1.35V
2025-04-19 22:30:18 - SDRAM Minimum Cycle Time (tCKAVGmin): 40.961
2025-04-19 22:30:18 - [XMP Profile 5] User profile
2025-04-19 22:30:18 - EXPO supported: Yes
2025-04-19 22:30:18 - EXPO version: 1.1
2025-04-19 22:30:18 - EXPO PMIC Feature Support (PMIC 10 mV step size support:
No)
2025-04-19 22:30:18 - [EXPO Profile 1] Profile enabled: Yes
2025-04-19 22:30:18 - [EXPO Profile 1] supported DIMMs per channel: 1
2025-04-19 22:30:18 - [EXPO Profile 1] Block 1 enabled: No
2025-04-19 22:30:18 - Module VPP Voltage Level: 1.8V
2025-04-19 22:30:18 - Module VDD Voltage Level: 1.4V
2025-04-19 22:30:18 - Module VDDQ Voltage Level: 1.4V
2025-04-19 22:30:18 - SDRAM Minimum Cycle Time (tCKAVGmin): 0.333
2025-04-19 22:30:18 - Maximum clock speed: 3000 MHz
2025-04-19 22:30:18 - Minimum CAS Latency Time (tAmin): 9.990
2025-04-19 22:30:18 - Minimum RAS to CAS Delay Time (tRCDmin): 11.988
2025-04-19 22:30:18 - Minimum Row Precharge Delay Time (tRPmin): 11.988
2025-04-19 22:30:18 - Minimum Active to Precharge Delay Time (tRASmin): 26.640
2025-04-19 22:30:18 - Minimum Active to Active/Refresh Delay Time (tRCmin):
38.628
2025-04-19 22:30:18 - Minimum Write Recovery Time (tWRmin): 30.000
2025-04-19 22:30:18 - Minimum Refresh Recovery Delay Time (tRFC1min): 295.000
2025-04-19 22:30:18 - Minimum Refresh Recovery Delay Time (tRFC2min): 160.000
2025-04-19 22:30:18 - Minimum Refresh Recovery Delay Time (tRFCsb): 130.000
2025-04-19 22:30:18 - SDRAM Minimum Active to Active Command Delay Time, Same
Bank Group (tRRD_L): 0.000
2025-04-19 22:30:18 - Minimum Read to Read Command Delay Time, Same Bank Group
(tCCD_L): 0.000
2025-04-19 22:30:18 - Minimum Write to Write Command Delay Time, Same Bank
Group (tCCD_L_WR): 0.000
2025-04-19 22:30:18 - SDRAM Minimum Write to Write Command Delay Time, Second
Write not RMW, Same Bank Group (tCCD_L_WR2): 0.000
2025-04-19 22:30:18 - SDRAM Minimum Four Activate Window (tFAW min): 0.000
2025-04-19 22:30:18 - SDRAM Minimum Write to Read Command Delay Time, Same
Bank Group (tWTR_L): 0.000
2025-04-19 22:30:18 - SDRAM Minimum Write to Read Command Delay Time,
Different Bank Group (tWTR_S): 0.000
2025-04-19 22:30:18 - SDRAM Minimum Read to Precharge Command Delay Time,
(tRTP): 0.000
2025-04-19 22:30:19 - [EXPO Profile 2] Profile enabled: Yes
2025-04-19 22:30:19 - [EXPO Profile 2] supported DIMMs per channel: 1
2025-04-19 22:30:19 - [EXPO Profile 2] Block 1 enabled: No
2025-04-19 22:30:19 - Module VPP Voltage Level: 0.8V
2025-04-19 22:30:19 - Module VDD Voltage Level: 2.4V
2025-04-19 22:30:19 - Module VDDQ Voltage Level: 2.15V
2025-04-19 22:30:19 - SDRAM Minimum Cycle Time (tCKAVGmin): 42.840
2025-04-19 22:30:19 - DIMM#0 (Channel -1, Slot -1) serial number: E50A01A8
2025-04-19 22:30:19 - MR11 - I2C Legacy Mode Device Configuration: 07

2025-04-19 22:30:19 - Restoring MR11 back to 00
2025-04-19 22:30:19 - MR0 - Device Type MSB: 51
2025-04-19 22:30:19 - MR1 - Device Type LSB: 18
2025-04-19 22:30:19 - Enumerating PCI bus...
2025-04-19 22:30:19 - Scanning PCI for devices:
2025-04-19 22:30:19 - VID:1022 DID:14D8 Bus:00 Dev:00 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14D9 Bus:00 Dev:00 Fun:02 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14DA Bus:00 Dev:01 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14DB Bus:00 Dev:01 Fun:01 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:81 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14DB Bus:00 Dev:01 Fun:02 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:81 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14DA Bus:00 Dev:02 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14DB Bus:00 Dev:02 Fun:01 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:81 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14DA Bus:00 Dev:03 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14DA Bus:00 Dev:04 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14DA Bus:00 Dev:08 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14DD Bus:00 Dev:08 Fun:01 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:81 [AMD Unknown]
2025-04-19 22:30:19 - VID:1022 DID:14DD Bus:00 Dev:08 Fun:03 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:81 [AMD Unknown]
2025-04-19 22:30:19 - MMIO PM DECODEEN: E3070B77 (smbus0sel=0)
2025-04-19 22:30:19 - {00:14:00} SMBus Configuration Registers:
2025-04-19 22:30:19 - 00: 790B1022 02200403 0C050071 00800000
2025-04-19 22:30:19 - 10: 00000000 00000000 00000000 00000000
2025-04-19 22:30:19 - 20: 00000000 00000000 00000000 7E621462
2025-04-19 22:30:20 - 30: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 40: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 50: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 60: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 70: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 80: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 90: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - A0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - B0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - C0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - D0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - E0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - F0: 0000F979 00000000 00000000 00000000
2025-04-19 22:30:21 - VID:1022 DID:790B Bus:00 Dev:14 Fun:00 IO Add:0B00 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:71 HeaderType:81 [AMD Hudson-3
SMBus]
2025-04-19 22:30:21 - VID:1022 DID:790E Bus:00 Dev:14 Fun:03 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:51 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:21 - VID:1022 DID:14E0 Bus:00 Dev:18 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]

Unknown]

```
2025-04-19 22:30:21 - VID:1022 DID:43FC Bus:0D Dev:00 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:01 HeaderType:00 [AMD Unknown]
2025-04-19 22:30:21 - VID:1022 DID:43F6 Bus:0E Dev:00 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:01 HeaderType:00 [AMD Unknown]
2025-04-19 22:30:21 - VID:1002 DID:13C0 Bus:0F Dev:00 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:C5 HeaderType:80 [ATI Unknown]
2025-04-19 22:30:21 - VID:1002 DID:1640 Bus:0F Dev:00 Fun:01 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [ATI Unknown]
2025-04-19 22:30:21 - VID:1022 DID:1649 Bus:0F Dev:00 Fun:02 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:21 - VID:1022 DID:15B6 Bus:0F Dev:00 Fun:03 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:21 - VID:1022 DID:15B7 Bus:0F Dev:00 Fun:04 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:21 - VID:1022 DID:15E3 Bus:0F Dev:00 Fun:06 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:80 [AMD Unknown]
2025-04-19 22:30:21 - VID:1022 DID:15B8 Bus:10 Dev:00 Fun:00 IO Add:0000 IO (2)
Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 HeaderType:00 [AMD Unknown]
2025-04-19 22:30:21 - Finished searching PCI for SMBus Controller
2025-04-19 22:30:21 - Getting memory TSOD info
2025-04-19 22:30:21 - Attempting to enable any disabled TSOD controllers...
2025-04-19 22:30:21 - Attempting to enable SMBUS:
2025-04-19 22:30:21 - Searching PCI for TSOD Controller
2025-04-19 22:30:21 - MMIO PM DECODEEN: E3070B77 (smbus0sel=0)
2025-04-19 22:30:21 - {00:14:00} SMBus Configuration Registers:
2025-04-19 22:30:21 - 00: 790B1022 02200403 0C050071 00800000
2025-04-19 22:30:21 - 10: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 20: 00000000 00000000 00000000 7E621462
2025-04-19 22:30:21 - 30: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 40: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 50: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 60: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 70: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 80: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - 90: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - A0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - B0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - C0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - D0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - E0: 00000000 00000000 00000000 00000000
2025-04-19 22:30:21 - F0: 0000F979 00000000 00000000 00000000
2025-04-19 22:30:22 - Found TSOD device: VID:1022 DID:790B Bus:00 Dev:14
Fun:00 IO Add:0B00 IO (2) Add:0000 MMIO Add:0 Rev:71 [AMD Hudson-3 SMBus]
2025-04-19 22:30:22 - Finished searching PCI for SMBus Controller
2025-04-19 22:30:22 - Expanding TSOD info array (0 => 16)
2025-04-19 22:30:22 - **WARNING** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:30:22 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:30:22 - **WARNING** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:30:22 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
```

2025-04-19 22:30:22 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:30:22 - C900 0000 000D 0D00 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:30:22 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:30:22 - C998 9800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:30:22 - Device detected on SMBUS at address 51
(smbGetSPD5TSODPIIX4)
2025-04-19 22:30:22 - MR49-50 - TS Current Sensed Temperature: 01EC
2025-04-19 22:30:22 - Getting memory SMBIOS info
2025-04-19 22:30:22 - Getting SMBIOS Memory Device info...
2025-04-19 22:30:22 - Found 4 Memory Devices
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct 0
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct Get strings
(FormattedLen=100, iTotalLen=99)
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: String area len=53
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: parsing v2.3+ strings
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: parsing v3.2+ strings
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct end
2025-04-19 22:30:22 - [Slot 0] TotalWidth: 65535, DataWidth: 65535, Size: 0,
FormFactor: 2, DeviceSet: 0, MemoryType: 2, Speed: 0, Attributes: 0,
ExtendedSize: 0, ConfiguredMemoryClockSpeed: 0, MinimumVoltage: 0,
MaximumVoltage: 0, ConfiguredVoltage: 0
2025-04-19 22:30:22 - [Slot 0] DeviceLocator: DIMMA1, BankLocator: P0 CHANNEL A,
Manufacturer: Unknown, S/N: Unknown, AssetTag: , PartNumber: Unknown
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct 1
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct Get strings
(FormattedLen=100, iTotalLen=B2)
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: String area len=78
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: parsing v2.3+ strings
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: parsing v3.2+ strings
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct end
2025-04-19 22:30:22 - [Slot 1] TotalWidth: 64, DataWidth: 64, Size: 16384,
FormFactor: 9, DeviceSet: 0, MemoryType: 34, Speed: 6000, Attributes: 1,
ExtendedSize: 0, ConfiguredMemoryClockSpeed: 6000, MinimumVoltage: 1100,
MaximumVoltage: 1100, ConfiguredVoltage: 1100
2025-04-19 22:30:22 - [Slot 1] DeviceLocator: DIMMA2, BankLocator: P0 CHANNEL A,
Manufacturer: Kingston, S/N: E50A01A8, AssetTag: , PartNumber: KF560C30-16
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct 2
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct Get strings
(FormattedLen=100, iTotalLen=99)
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: String area len=53
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: parsing v2.3+ strings
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: parsing v3.2+ strings
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct end
2025-04-19 22:30:22 - [Slot 2] TotalWidth: 65535, DataWidth: 65535, Size: 0,
FormFactor: 2, DeviceSet: 0, MemoryType: 2, Speed: 0, Attributes: 0,
ExtendedSize: 0, ConfiguredMemoryClockSpeed: 0, MinimumVoltage: 0,
MaximumVoltage: 0, ConfiguredVoltage: 0
2025-04-19 22:30:22 - [Slot 2] DeviceLocator: DIMMB1, BankLocator: P0 CHANNEL B,
Manufacturer: Unknown, S/N: Unknown, AssetTag: , PartNumber: Unknown
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct 3

2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct Get strings
(FormattedLen=100, iTotalLen=99)
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: String area len=53
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: parsing v2.3+ strings
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct: parsing v3.2+ strings
2025-04-19 22:30:22 - DEBUG: Get SMB mem device Struct end
2025-04-19 22:30:22 - [Slot 3] TotalWidth: 65535, DataWidth: 65535, Size: 0,
FormFactor: 2, DeviceSet: 0, MemoryType: 2, Speed: 0, Attributes: 0,
ExtendedSize: 0, ConfiguredMemoryClockSpeed: 0, MinimumVoltage: 0,
MaximumVoltage: 0, ConfiguredVoltage: 0
2025-04-19 22:30:22 - [Slot 3] DeviceLocator: DIMMB2, BankLocator: P0 CHANNEL B,
Manufacturer: Unknown, S/N: Unknown, AssetTag: , PartNumber: Unknown
2025-04-19 22:30:22 - Number of non-empty SMBIOS memory devices found: 1
2025-04-19 22:30:22 - [SPD 0] Comparing SMBIOS S/N (E50A01A8) with SPD S/N
(E50A01A8)
2025-04-19 22:30:22 - [SPD 0] SMBIOS S/N = E50A01A8
2025-04-19 22:30:22 - [SPD 0] Found match with SMBIOS 1
2025-04-19 22:30:22 - Console size = 80 x 25
2025-04-19 22:30:22 - Checking for graphics mode support
2025-04-19 22:30:22 - Graphics mode available
2025-04-19 22:30:22 - Enabling graphics mode
2025-04-19 22:30:22 - Get screen size
2025-04-19 22:30:22 - Current screen size: 800 x 600
2025-04-19 22:30:22 - Screen resolution is too low (800 x 600). Attempting to
set new screen size.
2025-04-19 22:30:22 - Found eligible graphics mode: 2 [1024 x 768]
2025-04-19 22:30:22 - Found eligible graphics mode: 4 [1280 x 960]
2025-04-19 22:30:22 - Found eligible graphics mode: 5 [1280 x 1024]
2025-04-19 22:30:22 - Found eligible graphics mode: 6 [1366 x 768]
2025-04-19 22:30:22 - Found eligible graphics mode: 7 [1400 x 1050]
2025-04-19 22:30:22 - Found eligible graphics mode: 8 [1600 x 1200]
2025-04-19 22:30:22 - Found eligible graphics mode: 9 [1920 x 1080]
2025-04-19 22:30:22 - Found eligible graphics mode: 10 [1920 x 1200]
2025-04-19 22:30:22 - Found eligible graphics mode: 14 [1920 x 1080]
2025-04-19 22:30:22 - Found eligible graphics mode: 15 [1920 x 1080]
2025-04-19 22:30:22 - Setting graphics mode to: 2 [1024 x 768]
2025-04-19 22:30:22 - Successfully set graphics mode to: 2
2025-04-19 22:30:22 - New screen size = 1024 x 768
2025-04-19 22:30:22 - Screen size = 1024 x 768
2025-04-19 22:30:22 - Char width=8 height=19
2025-04-19 22:30:22 - Loading images
2025-04-19 22:30:22 - Show splash screen
2025-04-19 22:30:22 - Splash screen start time: 281474304292 (clk=3800116,
ConIn=840FDFB0, WaitForKey=806AA018)
2025-04-19 22:30:32 - Splash screen countdown timer expired
2025-04-19 22:30:32 - Exit splash screen
2025-04-19 22:30:33 - Initializing spin lock (Align=64)
2025-04-19 22:30:33 - *** TEST SESSION - 2025-04-19 22:30:33 ***
2025-04-19 22:30:33 - CPU selection mode = 1
2025-04-19 22:30:33 - MTRR Settings:
2025-04-19 22:30:33 - =====
2025-04-19 22:30:33 - MTRR Default Type: 0000000000000C00
2025-04-19 22:30:33 - Fixed MTRR[00] : 0606060606060606
2025-04-19 22:30:33 - Fixed MTRR[01] : 0606060606060606

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2025-04-19 22:30:33 - Fixed MTRR[02] : 0000000000000000
2025-04-19 22:30:33 - Fixed MTRR[03] : 0000000000000000
2025-04-19 22:30:33 - Fixed MTRR[04] : 0000000000000000
2025-04-19 22:30:33 - Fixed MTRR[05] : 0000000000000000
2025-04-19 22:30:33 - Fixed MTRR[06] : 0000000000000000
2025-04-19 22:30:33 - Fixed MTRR[07] : 0505050505050505
2025-04-19 22:30:33 - Fixed MTRR[08] : 0505050505050505
2025-04-19 22:30:33 - Fixed MTRR[09] : 0505050505050505
2025-04-19 22:30:33 - Fixed MTRR[10] : 0505050505050505
2025-04-19 22:30:33 - Variable MTRR[00]: Base=0000000000000006
Mask=0000FFFF80000800
2025-04-19 22:30:33 - Variable MTRR[01]: Base=0000000080000006
Mask=0000FFFFE0000800
2025-04-19 22:30:33 -
2025-04-19 22:30:33 - Available Variable MTRR : 6
2025-04-19 22:30:34 -
2025-04-19 22:30:34 - Memory Ranges:
2025-04-19 22:30:34 - =====
2025-04-19 22:30:34 - WB:0000000000000000-000000000009FFFF
2025-04-19 22:30:34 - UC:00000000000A0000-0000000000DFFFF
2025-04-19 22:30:34 - WP:00000000000E0000-0000000000FFFFFF
2025-04-19 22:30:34 - WB:0000000000100000-0000000009FFFFFF
2025-04-19 22:30:34 - UC:000000000A000000-0000FFFFFFFF
2025-04-19 22:30:34 - hsmpt - request function 0F
2025-04-19 22:30:34 - poll_timings_ryzen_zen4 - HSMP_GET_FCLK_MCLK timed out
2025-04-19 22:30:34 - poll_timings_ryzen_zen4 - gppclkctrl=109CFF5D
2025-04-19 22:30:34 - poll_timings_ryzen_zen4 - cgpllcntrl3=C1096694
2025-04-19 22:30:34 - poll_timings_ryzen_zen4 - [MC0] DramConfiguration=80050BB8
2025-04-19 22:30:34 - poll_timings_ryzen_zen4 - [MC0] MemClkFreq=3000 memclk
cntr freq=2985250 Khz
2025-04-19 22:30:34 - poll_timings_ryzen_zen4 - [MC0] DebugMisc=0B0008F8
2025-04-19 22:30:35 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING1=2424501E
2025-04-19 22:30:35 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING2=00240074
2025-04-19 22:30:35 - poll_timings_ryzen_zen4 - [MC1] DramConfiguration=80010000
2025-04-19 22:30:35 - get_mem_ctrl_timings - [0-24-2] 6000 MT/s (30-36-36-80)
2025-04-19 22:30:35 - ReadMemoryRanges - Available Pages = 3911031
2025-04-19 22:30:35 - Locking all memory ranges first...
2025-04-19 22:30:35 - Skipping memory range 0x0 - 0x9F000 (636KB). Range too
small.
2025-04-19 22:30:35 - Memory range locked: 0x100000 - 0x9E02000 (15483348KB of
available memory left)
2025-04-19 22:30:35 - Skipping memory range 0xA000000 - 0xA200000 (2048KB).
Range too small.
2025-04-19 22:30:35 - Skipping memory range 0xA29E000 - 0xB000000 (13704KB).
Range too small.
2025-04-19 22:30:35 - Memory range locked: 0xB021000 - 0x7B892000 (13639696KB of
available memory left)
2025-04-19 22:30:36 - Skipping memory range 0x7BAD2000 - 0x7C0CD000 (6124KB).
Range too small.
2025-04-19 22:30:36 - Skipping memory range 0x7C0DE000 - 0x7C0EB000 (52KB).
Range too small.
2025-04-19 22:30:36 - Skipping memory range 0x7C0F5000 - 0x7C0FF000 (40KB).
Range too small.
2025-04-19 22:30:36 - Skipping memory range 0x7C117000 - 0x7C11E000 (28KB).
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Range too small.
2025-04-19 22:30:36 - Skipping memory range 0x7C142000 - 0x7C143000 (4KB). Range too small.
2025-04-19 22:30:36 - Memory range locked: 0x8247F000 - 0x837BA000 (13620004KB of available memory left)
2025-04-19 22:30:36 - Skipping memory range 0x98E00000 - 0x98E2C000 (176KB). Range too small.
2025-04-19 22:30:36 - Skipping memory range 0x99EC1000 - 0x99EC2000 (4KB). Range too small.
2025-04-19 22:30:36 - Skipping memory range 0x99ED4000 - 0x99ED5000 (4KB). Range too small.
2025-04-19 22:30:36 - Memory range locked: 0x100000000 - 0x43DE80000 (22820KB of available memory left)
2025-04-19 22:30:36 - All memory ranges successfully locked
2025-04-19 22:30:36 - Starting pass #1 (of 4)
2025-04-19 22:30:36 - hsmp - request function 0F
2025-04-19 22:30:36 - poll_timings_ryzen_zen4 - HSMP_GET_FCLK_MCLK timed out
2025-04-19 22:30:36 - poll_timings_ryzen_zen4 - gppclkcntrl=109CFF5D
2025-04-19 22:30:36 - poll_timings_ryzen_zen4 - cgpllcntrl3=C1096694
2025-04-19 22:30:36 - poll_timings_ryzen_zen4 - [MC0] DramConfiguration=80050BB8
2025-04-19 22:30:36 - poll_timings_ryzen_zen4 - [MC0] MemClkFreq=3000 memclk cntr freq=2985248 Khz
2025-04-19 22:30:36 - poll_timings_ryzen_zen4 - [MC0] DebugMisc=0B0008F8
2025-04-19 22:30:36 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING1=2424501E
2025-04-19 22:30:36 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING2=00240074
2025-04-19 22:30:36 - poll_timings_ryzen_zen4 - [MC1] DramConfiguration=80010000
2025-04-19 22:30:36 - get_mem_ctrl_timings - [0-24-2] 6000 MT/s (30-36-36-80)
2025-04-19 22:30:36 - Current mem timings: 6000 MT/s (30-36-36-80)
2025-04-19 22:30:36 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:30:36 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020 2000 0001 013F 3F00 0000
2025-04-19 22:30:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:30:37 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020 2000 0001 013F 3F00 0000
2025-04-19 22:30:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:30:37 - C900 0000 000D 0D00 007F 7F20 2054 5400 0000 0000 0020 2000 0001 013F 3F00 0000
2025-04-19 22:30:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:30:37 - C998 9800 0005 0500 007F 7F20 2054 5400 0000 0000 0020 2000 0001 013F 3F00 0000
2025-04-19 22:30:37 - Device detected on SMBUS at address 51 (smbGetSPD5TSODPIIX4)
2025-04-19 22:30:37 - MR49-50 - TS Current Sensed Temperature: 01EC
2025-04-19 22:30:37 - DIMM0 temperature: 30.750C
2025-04-19 22:30:37 - Current CPU temperature: 55C
2025-04-19 22:30:37 - Running test #0 (Test 0 [Address test, walking ones, 1 CPU])
2025-04-19 22:30:37 - MtSupportRunAllTests - Setting random seed to 0x50415353
2025-04-19 22:30:37 - MtSupportRunAllTests - Start time: 4173 ms
2025-04-19 22:30:37 - Start memory range test (0x0 - 0x1000000000)

2025-04-19 22:30:37 - MtSupportRunAllTests - Test execution time: 0.121s (Test 0 cumulative error count: 0, buffer full count: 0)
2025-04-19 22:30:37 - Running test #1 (Test 1 [Address test, own address, 1 CPU])
2025-04-19 22:30:37 - MtSupportRunAllTests - Setting random seed to 0x50415353
2025-04-19 22:30:37 - MtSupportRunAllTests - Start time: 4340 ms
2025-04-19 22:30:37 - Start memory range test (0x0 - 0x1000000000)
2025-04-19 22:30:38 - MtSupportRunAllTests - Test execution time: 1.603s (Test 1 cumulative error count: 0, buffer full count: 0)
2025-04-19 22:30:38 - Running test #2 (Test 2 [Address test, own address])
2025-04-19 22:30:39 - MtSupportRunAllTests - Setting random seed to 0x50415353
2025-04-19 22:30:39 - MtSupportRunAllTests - Start time: 5988 ms
2025-04-19 22:30:39 - Start memory range test (0x0 - 0x1000000000)
2025-04-19 22:30:42 - MtSupportRunAllTests - Test execution time: 3.158s (Test 2 cumulative error count: 0, buffer full count: 0)
2025-04-19 22:30:42 - Running test #3 (Test 3 [Moving inversions, ones & zeroes])
2025-04-19 22:30:42 - MtSupportRunAllTests - Setting random seed to 0x50415353
2025-04-19 22:30:42 - MtSupportRunAllTests - Start time: 9192 ms
2025-04-19 22:30:42 - Start memory range test (0x0 - 0x1000000000)
2025-04-19 22:30:51 - MtSupportRunAllTests - Test execution time: 9.152s (Test 3 cumulative error count: 0, buffer full count: 0)
2025-04-19 22:30:51 - Running test #4 (Test 4 [Moving inversions, 8-bit pattern])
2025-04-19 22:30:51 - MtSupportRunAllTests - Setting random seed to 0x50415353
2025-04-19 22:30:51 - MtSupportRunAllTests - Start time: 18391 ms
2025-04-19 22:30:51 - Start memory range test (0x0 - 0x1000000000)
2025-04-19 22:31:33 - MtSupportRunAllTests - Test execution time: 42.246s (Test 4 cumulative error count: 0, buffer full count: 0)
2025-04-19 22:31:33 - Running test #5 (Test 5 [Moving inversions, random pattern])
2025-04-19 22:31:33 - MtSupportRunAllTests - Setting random seed to 0x50415353
2025-04-19 22:31:33 - MtSupportRunAllTests - Start time: 60683 ms
2025-04-19 22:31:33 - Start memory range test (0x0 - 0x1000000000)
2025-04-19 22:31:36 - hsmp - request function 0F
2025-04-19 22:31:36 - poll_timings_ryzen_zen4 - HSMP_GET_FCLK_MCLK timed out
2025-04-19 22:31:36 - poll_timings_ryzen_zen4 - gppclkcntrl=FEFEFEFE
2025-04-19 22:31:36 - poll_timings_ryzen_zen4 - cgpllcntrl3=FEFEFEFE
2025-04-19 22:31:36 - poll_timings_ryzen_zen4 - [MC0] DramConfiguration=80050BB8
2025-04-19 22:31:36 - poll_timings_ryzen_zen4 - [MC0] MemClkFreq=3000 memclk cntr freq=2970637 Khz
2025-04-19 22:31:36 - poll_timings_ryzen_zen4 - [MC0] DebugMisc=0B000838
2025-04-19 22:31:36 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING1=2424501E
2025-04-19 22:31:36 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING2=00240074
2025-04-19 22:31:36 - poll_timings_ryzen_zen4 - [MC1] DramConfiguration=80010000
2025-04-19 22:31:36 - get_mem_ctrl_timings - [0-24-2] 6000 MT/s (30-36-36-80)
2025-04-19 22:31:37 - Current mem timings: 6000 MT/s (30-36-36-80)
2025-04-19 22:31:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:31:37 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020 2000 0001 013F 3F00 0000
2025-04-19 22:31:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:31:37 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020

```
2000 0001 013F 3F00 0000
2025-04-19 22:31:37 - **WARNING** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:31:37 - C900 0000 000D 0D00 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:31:37 - **WARNING** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:31:37 - C998 9800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:31:37 - Device detected on SMBUS at address 51
(smbGetSPD5TSODPIIX4)
2025-04-19 22:31:37 - MR49-50 - TS Current Sensed Temperature: 0244
2025-04-19 22:31:37 - DIMM0 temperature: 36.250C
2025-04-19 22:31:37 - Current CPU temperature: 51C
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CBBC,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CBB8,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CBB4,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CBB0,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CBAC,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CBA8,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CBA4,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CBA0,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CB9C,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CB98,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CB94,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CB90,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CB8C,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CB88,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CB84,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:04 - [MEM ERROR - Data] Test: 5, CPU: 0, Address: 31C95CB80,
Expected: B03C084E, Actual: 683C084E
2025-04-19 22:32:18 - MtSupportRunAllTests - Test execution time: 44.946s (Test
5 cumulative error count: 16, buffer full count: 0)
2025-04-19 22:32:18 - Running test #6 (Test 6 [Block move, 64-byte blocks])
2025-04-19 22:32:18 - MtSupportRunAllTests - Setting random seed to 0x50415353
2025-04-19 22:32:18 - MtSupportRunAllTests - Start time: 105675 ms
2025-04-19 22:32:18 - Start memory range test (0x0 - 0x1000000000)
2025-04-19 22:32:36 - hsmp - request function 0F
2025-04-19 22:32:36 - poll_timings_ryzen_zen4 - HSMP_GET_FCLK_MCLK timed out
```


Expected: 01000000, Actual: C0000000
2025-04-19 22:32:53 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 465AEE0,
Expected: 02000000, Actual: C3000000
2025-04-19 22:32:53 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 465AEE4,
Expected: 04000000, Actual: C5000000
2025-04-19 22:32:53 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 465AEE8,
Expected: 08000000, Actual: C9000000
2025-04-19 22:32:53 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 465AEEC,
Expected: 10000000, Actual: D1000000
2025-04-19 22:32:53 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 465AEF0,
Expected: 20000000, Actual: E1000000
2025-04-19 22:32:53 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 465AEF4,
Expected: 40000000, Actual: 81000000
2025-04-19 22:32:53 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 465AEF8,
Expected: 80000000, Actual: 41000000
2025-04-19 22:32:53 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 465AEFC,
Expected: 00000001, Actual: C1000001
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD7C,
Expected: FFFFFFFE, Actual: 57FFFFFFE
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD78,
Expected: 7FFFFFFF, Actual: D7FFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD74,
Expected: BFFFFFFF, Actual: 17FFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD70,
Expected: DFFFFFFF, Actual: 77FFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD6C,
Expected: EFFFFFFF, Actual: 47FFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD68,
Expected: F7FFFFFFF, Actual: 5FFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD64,
Expected: FBFFFFFFF, Actual: 53FFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD60,
Expected: FDFFFFFFFF, Actual: 55FFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD5C,
Expected: FEFFFFFFF, Actual: 56FFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD58,
Expected: FF7FFFFFFF, Actual: 577FFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD54,
Expected: FFBFFFFFFF, Actual: 57BFFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD50,
Expected: FFDFFFFFFF, Actual: 57DFFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD4C,
Expected: FFEFFFFFFF, Actual: 57EFFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD48,
Expected: FFF7FFFFFF, Actual: 57F7FFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD44,
Expected: FFFBFFFFFF, Actual: 57FBFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1068AD40,
Expected: FFFDFFFFFF, Actual: 57FDFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BEB8,
Expected: FFFFFFFE, Actual: A9FFFFFFE
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BEB4,
Expected: 7FFFFFFF, Actual: 29FFFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BEB0,

Expected: BFFFFFFF, Actual: E9FFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BEB0,
Expected: DFFFFFFF, Actual: 89FFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BEAC,
Expected: EFFFFFFF, Actual: B9FFFFFF
2025-04-19 22:32:58 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BEA8,
Expected: F7FFFFFF, Actual: A1FFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BEA4,
Expected: FBFFFFFF, Actual: ADFFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BEA0,
Expected: FDFFFFFFF, Actual: ABFFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BE9C,
Expected: FEFFFFFF, Actual: A8FFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BE98,
Expected: FF7FFFFFF, Actual: A97FFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BE94,
Expected: FFBFFFFFF, Actual: A9BFFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BE90,
Expected: FFDFFFFFF, Actual: A9DFFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BE8C,
Expected: FFEFFFFFF, Actual: A9EFFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BE88,
Expected: FFF7FFFF, Actual: A9F7FFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BE84,
Expected: FFFBFFFF, Actual: A9FBFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 1044BE80,
Expected: FFFDFFFF, Actual: A9FDFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BC0,
Expected: FFFDFFFF, Actual: 80FDFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BC4,
Expected: FFFBFFFF, Actual: 80FBFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BC8,
Expected: FFF7FFFF, Actual: 80F7FFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BCC,
Expected: FFEFFFFFF, Actual: 80EFFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BD0,
Expected: FFDFFFFFF, Actual: 80DFFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BD4,
Expected: FFBFFFFFF, Actual: 80BFFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BD8,
Expected: FF7FFFFFF, Actual: 807FFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BDC,
Expected: FEFFFFFF, Actual: 81FFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BE0,
Expected: FDFFFFFFF, Actual: 82FFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BE4,
Expected: FBFFFFFF, Actual: 84FFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BE8,
Expected: F7FFFFFF, Actual: 88FFFFFF
2025-04-19 22:33:00 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BEC,
Expected: EFFFFFFF, Actual: 90FFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BF0,
Expected: DFFFFFFF, Actual: A0FFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BF4,

Expected: BFFFFFFF, Actual: C0FFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BF8,
Expected: 7FFFFFFF, Actual: 00FFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 1B770BFC,
Expected: FFFFFFFE, Actual: 80FFFFFFE
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1200,
Expected: 00000002, Actual: 43000002
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1204,
Expected: 00000004, Actual: 43000004
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1208,
Expected: 00000008, Actual: 43000008
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A120C,
Expected: 00000010, Actual: 43000010
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1210,
Expected: 00000020, Actual: 43000020
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1214,
Expected: 00000040, Actual: 43000040
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1218,
Expected: 00000080, Actual: 43000080
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A121C,
Expected: 00000100, Actual: 42000100
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1220,
Expected: 00000200, Actual: 41000200
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1224,
Expected: 00000400, Actual: 47000400
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1228,
Expected: 00000800, Actual: 4B000800
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A122C,
Expected: 00001000, Actual: 53001000
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1230,
Expected: 00002000, Actual: 63002000
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1234,
Expected: 00004000, Actual: 03004000
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A1238,
Expected: 00008000, Actual: C3008000
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 2B3A123C,
Expected: 00010000, Actual: 43010000
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E7C,
Expected: FFFFFFFE, Actual: 62FFFFFFE
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E78,
Expected: 7FFFFFFF, Actual: E2FFFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E74,
Expected: BFFFFFFF, Actual: 22FFFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E70,
Expected: DFFFFFFF, Actual: 42FFFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E6C,
Expected: EFFFFFFF, Actual: 72FFFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E68,
Expected: F7FFFFFFF, Actual: 6AFFFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E64,
Expected: FBFFFFFFF, Actual: 66FFFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E60,
Expected: FDFFFFFFFF, Actual: 60FFFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E5C,

Expected: FFFFFFFF, Actual: 63FFFFFF
2025-04-19 22:33:01 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E58,
Expected: FF7FFFFFFF, Actual: 627FFFFFFF
2025-04-19 22:33:02 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E54,
Expected: FFBFFFFFFF, Actual: 62BFFFFFFF
2025-04-19 22:33:02 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E50,
Expected: FFDFFFFFFF, Actual: 62DFFFFFFF
2025-04-19 22:33:02 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E4C,
Expected: FFEFFFFFFF, Actual: 62EFFFFFFF
2025-04-19 22:33:02 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E48,
Expected: FFF7FFFF, Actual: 62F7FFFF
2025-04-19 22:33:02 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E44,
Expected: FFFBFFFF, Actual: 62FBFFFF
2025-04-19 22:33:02 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 47600E40,
Expected: FFFDFFFF, Actual: 62FDFFFF
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801FC,
Expected: 00010000, Actual: B1010000
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801F8,
Expected: 00008000, Actual: 31008000
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801F4,
Expected: 00004000, Actual: F1004000
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801F0,
Expected: 00002000, Actual: 91002000
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801EC,
Expected: 00001000, Actual: A1001000
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801E8,
Expected: 00000800, Actual: B9000800
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801E4,
Expected: 00000400, Actual: B5000400
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801E0,
Expected: 00000200, Actual: B3000200
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801DC,
Expected: 00000100, Actual: B0000100
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801D8,
Expected: 00000080, Actual: B1000080
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801D4,
Expected: 00000040, Actual: B1000040
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801D0,
Expected: 00000020, Actual: B1000020
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801CC,
Expected: 00000010, Actual: B1000010
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801C8,
Expected: 00000008, Actual: B1000008
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801C4,
Expected: 00000004, Actual: B1000004
2025-04-19 22:33:07 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 331801C0,
Expected: 00000002, Actual: B1000002
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA00,
Expected: 00000002, Actual: BC000002
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA04,
Expected: 00000004, Actual: BC000004
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA08,
Expected: 00000008, Actual: BC000008
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA0C,

Expected: 00000010, Actual: BC000010
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA10,
Expected: 00000020, Actual: BC000020
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA14,
Expected: 00000040, Actual: BC000040
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA18,
Expected: 00000080, Actual: BC000080
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA1C,
Expected: 00000100, Actual: BD000100
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA20,
Expected: 00000200, Actual: BE000200
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA24,
Expected: 00000400, Actual: B8000400
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA28,
Expected: 00000800, Actual: B4000800
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA2C,
Expected: 00001000, Actual: AC001000
2025-04-19 22:33:12 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA30,
Expected: 00002000, Actual: 9C002000
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA34,
Expected: 00004000, Actual: FC004000
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA38,
Expected: 00008000, Actual: 3C008000
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 5612BA3C,
Expected: 00010000, Actual: BC010000
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC2BC,
Expected: FFFFFFFFFF, Actual: 8EFFFFFFF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC2B8,
Expected: FFFF7FFF, Actual: 0EFF7FFF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC2B4,
Expected: FFFFBFFF, Actual: CEFFBFFF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC2B0,
Expected: FFFFDFDF, Actual: AEFDFDF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC2AC,
Expected: FFFFEEFF, Actual: 9EFFEEFF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC2A8,
Expected: FFFFF7FF, Actual: 86FFF7FF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC2A4,
Expected: FFFFFBFF, Actual: 8AFFBFF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC2A0,
Expected: FFFFFDFD, Actual: 8CFFDFD
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC29C,
Expected: FFFFFEFF, Actual: 8FFFFEFF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC298,
Expected: FFFFFF7F, Actual: 8EFFF7F
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC294,
Expected: FFFFFFBF, Actual: 8EFFFBF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC290,
Expected: FFFFFDFD, Actual: 8EFFDFD
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC28C,
Expected: FFFFFFEF, Actual: 8EFFFEF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC288,
Expected: FFFFFF7, Actual: 8EFFF7
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC284,

Expected: FFFFFFFB, Actual: 8FFFFFFB
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 54CEC280,
Expected: FFFFFFFD, Actual: 8FFFFFFD
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8640,
Expected: FFFFFFFD, Actual: 33FFFFFFD
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8644,
Expected: FFFFFFFB, Actual: 33FFFFFFB
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8648,
Expected: FFFFFFF7, Actual: 33FFFFFF7
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC864C,
Expected: FFFFFFFE, Actual: 33FFFFFFE
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8650,
Expected: FFFFFFFD, Actual: 33FFFFFFD
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8654,
Expected: FFFFFFFB, Actual: 33FFFFFFB
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8658,
Expected: FFFFFFF7, Actual: 33FFFFFF7
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC865C,
Expected: FFFFFFFE, Actual: 32FFFFFFE
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8660,
Expected: FFFFDF, Actual: 31FFFDF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8664,
Expected: FFFFBF, Actual: 37FFFBF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8668,
Expected: FFFF7F, Actual: 3BFFF7F
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC866C,
Expected: FFFF, Actual: 23FFF
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8670,
Expected: FFFD, Actual: 13FFD
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8674,
Expected: FFFB, Actual: 73FFB
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC8678,
Expected: FFFF7, Actual: B3FF7
2025-04-19 22:33:13 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 5ACC867C,
Expected: FFFE, Actual: 33FFE
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B7C,
Expected: FFE, Actual: C9FE
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B78,
Expected: FFFF7, Actual: 49FF7
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B74,
Expected: FFFB, Actual: 89FFB
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B70,
Expected: FFFD, Actual: E9FFD
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B6C,
Expected: FFFE, Actual: D9FFE
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B68,
Expected: FFFF7, Actual: C1FF7
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B64,
Expected: FFFB, Actual: CDFFB
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B60,
Expected: FFFF, Actual: CBFFF
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B5C,
Expected: FFFE, Actual: C8FFE
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B58,

Expected: FFFFFFFF7F, Actual: C9FFFF7F
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B54,
Expected: FFFFFFFBF, Actual: C9FFFFBF
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B50,
Expected: FFFFFFFDF, Actual: C9FFFFDF
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B4C,
Expected: FFFFFFFEF, Actual: C9FFFFEF
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B48,
Expected: FFFFFFFF7, Actual: C9FFFFF7
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B44,
Expected: FFFFFFFFB, Actual: C9FFFFFB
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 77939B40,
Expected: FFFFFFFFD, Actual: C9FFFFFD
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED900,
Expected: 00040000, Actual: 3B040000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED904,
Expected: 00080000, Actual: 3B080000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED908,
Expected: 00100000, Actual: 03100000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED90C,
Expected: 00200000, Actual: 03200000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED910,
Expected: 00400000, Actual: 3A400000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED914,
Expected: 00800000, Actual: 39800000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED918,
Expected: 01000000, Actual: 9B000000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED91C,
Expected: 02000000, Actual: 97000000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED920,
Expected: 04000000, Actual: 2B000000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED924,
Expected: 08000000, Actual: 1B000000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED928,
Expected: 10000000, Actual: 43000000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED92C,
Expected: 20000000, Actual: 83000000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED930,
Expected: 40000000, Actual: 3B000000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED934,
Expected: 80000000, Actual: 3B000000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED938,
Expected: 00000001, Actual: 44000001
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BED93C,
Expected: 00000002, Actual: 44000002
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA00,
Expected: 00040000, Actual: 3B040000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA04,
Expected: 00080000, Actual: 3B080000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA08,
Expected: 00100000, Actual: 03100000
2025-04-19 22:33:15 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA0C,
Expected: 00200000, Actual: 03200000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA10,

Expected: 00400000, Actual: 3A400000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA14,
Expected: 00800000, Actual: 39800000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA18,
Expected: 01000000, Actual: 9B000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA1C,
Expected: 02000000, Actual: 97000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA20,
Expected: 04000000, Actual: 2B000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA24,
Expected: 08000000, Actual: 1B000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA28,
Expected: 10000000, Actual: 43000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA2C,
Expected: 20000000, Actual: 83000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA30,
Expected: 40000000, Actual: 3B000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA34,
Expected: 80000000, Actual: 3B000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA38,
Expected: 00000001, Actual: 39000001
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA3C,
Expected: 00000002, Actual: 75000002
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA80,
Expected: 00040000, Actual: 36040000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA84,
Expected: 00080000, Actual: 36080000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA88,
Expected: 00100000, Actual: 0E100000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA8C,
Expected: 00200000, Actual: 0E200000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA90,
Expected: 00400000, Actual: 37400000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA94,
Expected: 00800000, Actual: 34800000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA98,
Expected: 01000000, Actual: 96000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDA9C,
Expected: 02000000, Actual: 9A000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDAA0,
Expected: 04000000, Actual: 26000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDAA4,
Expected: 08000000, Actual: 16000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDAA8,
Expected: 10000000, Actual: 4E000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDAAC,
Expected: 20000000, Actual: 8E000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDAB0,
Expected: 40000000, Actual: 36000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDAB4,
Expected: 80000000, Actual: 36000000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDAB8,
Expected: 00000001, Actual: 43000001
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71BEDABC,

Expected: 00000002, Actual: 4F000002
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF740,
Expected: 00000004, Actual: 3B000004
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF744,
Expected: 00000008, Actual: 3B000008
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF748,
Expected: 00000010, Actual: 03000010
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF74C,
Expected: 00000020, Actual: 03000020
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF750,
Expected: 00000040, Actual: 3B000040
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF754,
Expected: 00000080, Actual: 3B000080
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF758,
Expected: 00000100, Actual: 9F000100
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF75C,
Expected: 00000200, Actual: 9F000200
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF760,
Expected: 00000400, Actual: 3B000400
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF764,
Expected: 00000800, Actual: 3B000800
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF768,
Expected: 00001000, Actual: 03001000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF76C,
Expected: 00002000, Actual: 03002000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF770,
Expected: 00004000, Actual: 3B004000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF774,
Expected: 00008000, Actual: 3B008000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF778,
Expected: 00010000, Actual: 8E010000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF77C,
Expected: 00020000, Actual: 8E020000
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF780,
Expected: 00000004, Actual: 3B000004
2025-04-19 22:33:16 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF784,
Expected: 00000008, Actual: 3B000008
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF788,
Expected: 00000010, Actual: 03000010
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF78C,
Expected: 00000020, Actual: 03000020
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF790,
Expected: 00000040, Actual: 3B000040
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF794,
Expected: 00000080, Actual: 3B000080
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF798,
Expected: 00000100, Actual: 9F000100
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF79C,
Expected: 00000200, Actual: 9F000200
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF7A0,
Expected: 00000400, Actual: 3B000400
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF7A4,
Expected: 00000800, Actual: 3B000800
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFDF7A8,

Expected: 00001000, Actual: 03001000
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFEF6EC,
Expected: 00002000, Actual: 03002000
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFEF6F0,
Expected: 00004000, Actual: 3B004000
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFEF6F4,
Expected: 00008000, Actual: 3B008000
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFEF6F8,
Expected: 00010000, Actual: CE010000
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 6FFEF6FC,
Expected: 00020000, Actual: CE020000
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E00,
Expected: 00040000, Actual: D7040000
2025-04-19 22:33:17 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E04,
Expected: 00080000, Actual: D7080000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E08,
Expected: 00100000, Actual: EF100000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E0C,
Expected: 00200000, Actual: EF200000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E10,
Expected: 00400000, Actual: D6400000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E14,
Expected: 00800000, Actual: D5800000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E18,
Expected: 01000000, Actual: 77000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E1C,
Expected: 02000000, Actual: 7B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E20,
Expected: 04000000, Actual: C7000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E24,
Expected: 08000000, Actual: F7000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E28,
Expected: 10000000, Actual: AF000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E2C,
Expected: 20000000, Actual: 6F000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E30,
Expected: 40000000, Actual: D7000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E34,
Expected: 80000000, Actual: D7000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E38,
Expected: 00000001, Actual: 9F000001
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E3C,
Expected: 00000002, Actual: 9F000002
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E80,
Expected: 00040000, Actual: 3B040000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E84,
Expected: 00080000, Actual: 3B080000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E88,
Expected: 00100000, Actual: 03100000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E8C,
Expected: 00200000, Actual: 03200000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E90,
Expected: 00400000, Actual: 3A400000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E94,

Expected: 00800000, Actual: 39800000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E98,
Expected: 01000000, Actual: 9B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66E9C,
Expected: 02000000, Actual: 97000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66EA0,
Expected: 04000000, Actual: 2B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66EA4,
Expected: 08000000, Actual: 1B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66EA8,
Expected: 10000000, Actual: 43000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66EAC,
Expected: 20000000, Actual: 83000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66EB0,
Expected: 40000000, Actual: 3B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66EB4,
Expected: 80000000, Actual: 3B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66EB8,
Expected: 00000001, Actual: 83000001
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66EBC,
Expected: 00000002, Actual: 83000002
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F00,
Expected: 00040000, Actual: 3B040000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F04,
Expected: 00080000, Actual: 3B080000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F08,
Expected: 00100000, Actual: 03100000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F0C,
Expected: 00200000, Actual: 03200000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F10,
Expected: 00400000, Actual: 3A400000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F14,
Expected: 00800000, Actual: 39800000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F18,
Expected: 01000000, Actual: 9B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F1C,
Expected: 02000000, Actual: 97000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F20,
Expected: 04000000, Actual: 2B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F24,
Expected: 08000000, Actual: 1B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F28,
Expected: 10000000, Actual: 43000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F2C,
Expected: 20000000, Actual: 83000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F30,
Expected: 40000000, Actual: 3B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F34,
Expected: 80000000, Actual: 3B000000
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F38,
Expected: 00000001, Actual: 89000001
2025-04-19 22:33:19 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 71C66F3C,
Expected: 00000002, Actual: 89000002
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EEBC,

Expected: FFFFFFFE, Actual: 77FFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EEB8,
Expected: 7FFFFFFF, Actual: F7FFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EEB4,
Expected: BFFFFFFF, Actual: 37FFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EEB0,
Expected: DFFFFFFF, Actual: 57FFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EEAC,
Expected: EFFFFFFF, Actual: 67FFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EEA8,
Expected: F7FFFFFF, Actual: 7FFFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EEA4,
Expected: FBFFFFFF, Actual: 73FFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EEA0,
Expected: FDFFFFFFF, Actual: 75FFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EE9C,
Expected: FEFFFFFF, Actual: 76FFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EE98,
Expected: FF7FFFFFF, Actual: 777FFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EE94,
Expected: FFBFFFFFF, Actual: 77BFFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EE90,
Expected: FFDFFFFFF, Actual: 77DFFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EE8C,
Expected: FFEFFFFFF, Actual: 77EFFFFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EE88,
Expected: FFF7FFFF, Actual: 77F7FFFF
2025-04-19 22:33:22 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EE84,
Expected: FFFBFFFF, Actual: 77FBFFFF
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10E60EE80,
Expected: FFFDFFFF, Actual: 77FDFFFF
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEFC,
Expected: 80000000, Actual: 55000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CFC,
Expected: 00000001, Actual: 0E000001
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02FC,
Expected: 00000001, Actual: 8D000001
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEF8,
Expected: 40000000, Actual: 59000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02F8,
Expected: 80000000, Actual: 0D000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CF8,
Expected: 80000000, Actual: 02000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEF4,
Expected: 20000000, Actual: C8000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CF4,
Expected: 40000000, Actual: 93000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02F4,
Expected: 40000000, Actual: CD000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEF0,
Expected: 10000000, Actual: 48000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02F0,
Expected: 20000000, Actual: AD000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CF0,

Expected: 20000000, Actual: 13000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEEC,
Expected: 08000000, Actual: B0000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CEC,
Expected: 10000000, Actual: EB000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02EC,
Expected: 10000000, Actual: 9D000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CE8,
Expected: 08000000, Actual: 8B000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEE8,
Expected: 04000000, Actual: D0000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CE4,
Expected: 04000000, Actual: 83000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02E8,
Expected: 08000000, Actual: 85000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEE4,
Expected: 02000000, Actual: D8000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02E4,
Expected: 04000000, Actual: 89000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CE0,
Expected: 02000000, Actual: 9B000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEE0,
Expected: 01000000, Actual: C0000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02E0,
Expected: 02000000, Actual: 8F000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CDC,
Expected: 01000000, Actual: 33000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEDC,
Expected: 00800000, Actual: 68800000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02DC,
Expected: 01000000, Actual: 8C000000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CD8,
Expected: 00800000, Actual: 35800000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBED8,
Expected: 00400000, Actual: 6E400000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02D8,
Expected: 00800000, Actual: 8D800000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CD4,
Expected: 00400000, Actual: 92400000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBED4,
Expected: 00200000, Actual: C9200000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02D4,
Expected: 00400000, Actual: 8D400000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CD0,
Expected: 00200000, Actual: 93200000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBED0,
Expected: 00100000, Actual: C8100000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02D0,
Expected: 00200000, Actual: 8D200000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CCC,
Expected: 00100000, Actual: AB100000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBECC,
Expected: 00080000, Actual: F0080000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CC8,

Expected: 00080000, Actual: AB080000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02CC,
Expected: 00100000, Actual: 8D100000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEC8,
Expected: 00040000, Actual: F0040000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02C8,
Expected: 00080000, Actual: 8D080000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CC4,
Expected: 00040000, Actual: 93040000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEC4,
Expected: 00020000, Actual: C8020000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 10D5B8CC0,
Expected: 00020000, Actual: 93020000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02C4,
Expected: 00040000, Actual: 8D040000
2025-04-19 22:33:23 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 11F4EBEC0,
Expected: 00010000, Actual: C8010000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 111FC02C0,
Expected: 00020000, Actual: 8D020000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9C0,
Expected: FFFFFFFE, Actual: 56FFFFFFE
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9C4,
Expected: FFFFFFFD, Actual: 56FFFFFFD
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9C8,
Expected: FFFFFFFB, Actual: 56FFFFFFB
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9CC,
Expected: FFFFFFF7, Actual: 56FFFFFF7
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9D0,
Expected: FFFFFFFE, Actual: 56FFFFFFE
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9D4,
Expected: FFFFFFFD, Actual: 56FFFFFFD
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9D8,
Expected: FFFFFFFB, Actual: 56FFFFFFB
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9DC,
Expected: FFFFFFF7, Actual: 57FFFFFF7
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9E0,
Expected: FFFFFFFE, Actual: 54FFFFFFE
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9E4,
Expected: FFFFFFFD, Actual: 52FFFFFFD
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9E8,
Expected: FFFFFFFB, Actual: 5EFFFFFFB
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9EC,
Expected: FFFFFFF7, Actual: 46FFFFFF7
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9F0,
Expected: FFFFFFFE, Actual: 76FFFFFFE
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9F4,
Expected: FFFFDFFF, Actual: 16FFDFFF
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9F8,
Expected: FFFFBFFF, Actual: D6FFBFFF
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 11513C9FC,
Expected: FFFF7FFF, Actual: 56FF7FFF
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC4BC,
Expected: 00000002, Actual: EC000002
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC4B8,

Expected: 00000001, Actual: 6C000001
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC4B4,
Expected: 80000000, Actual: AC000000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC4B0,
Expected: 40000000, Actual: CC000000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC4AC,
Expected: 20000000, Actual: FC000000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC4A8,
Expected: 10000000, Actual: E4000000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC4A4,
Expected: 08000000, Actual: E8000000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC4A0,
Expected: 04000000, Actual: EE000000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC49C,
Expected: 02000000, Actual: ED000000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC498,
Expected: 01000000, Actual: EC000000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC494,
Expected: 00800000, Actual: EC800000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC490,
Expected: 00400000, Actual: EC400000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC48C,
Expected: 00200000, Actual: EC200000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC488,
Expected: 00100000, Actual: EC100000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC484,
Expected: 00080000, Actual: EC080000
2025-04-19 22:33:25 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 101FDC480,
Expected: 00040000, Actual: EC040000
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E7C,
Expected: FFFFFFFBFF, Actual: 96FFFBFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E78,
Expected: FFFFFFFDFF, Actual: 9AFFDFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E74,
Expected: FFFFFFFEFF, Actual: 3EFFFEFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E70,
Expected: FFFFFFF7F, Actual: 38FFFF7F
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E6C,
Expected: FFFFFFFBF, Actual: 03FFFFBF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E68,
Expected: FFFFFFFDF, Actual: 02FFFFDF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E64,
Expected: FFFFFFFEF, Actual: 3AFFFEF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E60,
Expected: FFFFFFFF7, Actual: 3AFFFFF7
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E5C,
Expected: FFFFFFFFB, Actual: 9EFFFFB
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E58,
Expected: FFFFFFFFD, Actual: 9EFFFFD
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E54,
Expected: FFFFFFFFE, Actual: 3AFFFFE
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E50,
Expected: 7FFFFFFF, Actual: 3AFFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E4C,

Expected: BFFFFFFF, Actual: 02FFFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E48,
Expected: DFFFFFFF, Actual: 02FFFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E44,
Expected: EFFFFFFF, Actual: 3AFFFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 10, Address: 153AD7E40,
Expected: F7FFFFFF, Actual: 3AFFFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2FC,
Expected: FFFFFFFBFF, Actual: C0FFFBFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2F8,
Expected: FFFFFFFDFF, Actual: CCFFDFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2F4,
Expected: FFFFFFFEFF, Actual: 68FFFEFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2F0,
Expected: FFFFFFFF7F, Actual: 6EFFF7F
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2EC,
Expected: FFFFFFFBF, Actual: 55FFFBF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2E8,
Expected: FFFFFFFDF, Actual: 54FFFDFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2E4,
Expected: FFFFFFFEF, Actual: 6CFFFEF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2E0,
Expected: FFFFFFFF7, Actual: 6CFFF7
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2DC,
Expected: FFFFFFFFB, Actual: C8FFFFB
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2D8,
Expected: FFFFFFFFD, Actual: C8FFFFD
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2D4,
Expected: FFFFFFFFE, Actual: 6CFFFE
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2D0,
Expected: 7FFFFFFF, Actual: 6CFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2CC,
Expected: BFFFFFFF, Actual: 54FFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2C8,
Expected: DFFFFFFF, Actual: 54FFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2C4,
Expected: EFFFFFFF, Actual: 6CFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14396A2C0,
Expected: F7FFFFFF, Actual: 6CFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1FC,
Expected: FFFFFFFBFF, Actual: 0DFFBFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1F8,
Expected: FFFFFFFDFF, Actual: 01FFDFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1F4,
Expected: FFFFFFFEFF, Actual: A5FFFEFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1F0,
Expected: FFFFFFFF7F, Actual: A3FFF7F
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1EC,
Expected: FFFFFFFBF, Actual: 98FFFBF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1E8,
Expected: FFFFFFFDF, Actual: 99FFFDFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1E4,
Expected: FFFFFFFEF, Actual: A1FFFEF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1E0,

Expected: FFFFFFF7, Actual: A1FFFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1DC,
Expected: FFFFFFFB, Actual: 05FFFFFFB
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1D8,
Expected: FFFFFFFD, Actual: 05FFFFFFD
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1D4,
Expected: FFFFFFFE, Actual: A1FFFFFFE
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1D0,
Expected: 7FFFFFFF, Actual: A1FFFFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1CC,
Expected: BFFFFFFF, Actual: 99FFFFFFF
2025-04-19 22:33:32 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1C8,
Expected: DFFFFFFF, Actual: 99FFFFFFF
2025-04-19 22:33:34 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1C4,
Expected: EFFFFFFF, Actual: A1FFFFFFF
2025-04-19 22:33:34 - [MEM ERROR - Data] Test: 7, CPU: 2, Address: 14395E1C0,
Expected: F7FFFFFFF, Actual: A1FFFFFFF
2025-04-19 22:33:34 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC40,
Expected: 08000000, Actual: 2E000000
2025-04-19 22:33:34 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC44,
Expected: 10000000, Actual: 2E000000
2025-04-19 22:33:34 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC48,
Expected: 20000000, Actual: 16000000
2025-04-19 22:33:34 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC4C,
Expected: 40000000, Actual: 16000000
2025-04-19 22:33:34 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC50,
Expected: 80000000, Actual: 2E000000
2025-04-19 22:33:34 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC54,
Expected: 00000001, Actual: 2E000001
2025-04-19 22:33:34 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC58,
Expected: 00000002, Actual: 8A000002
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC5C,
Expected: 00000004, Actual: 8A000004
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC60,
Expected: 00000008, Actual: 2E000008
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC64,
Expected: 00000010, Actual: 2E000010
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC68,
Expected: 00000020, Actual: 16000020
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC6C,
Expected: 00000040, Actual: 17000040
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC70,
Expected: 00000080, Actual: 2C000080
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC74,
Expected: 00000100, Actual: 2A000100
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC78,
Expected: 00000200, Actual: 8E000200
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 156A6443C,
Expected: FBFFFFFFF, Actual: B1FFFFFFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 14E484D7C,
Expected: FFFFFBFF, Actual: 6CFFFBFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 15970213C,
Expected: FBFFFFFFF, Actual: C9FFFFFFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 15FD8D0C0,

Expected: 08000000, Actual: 51000000
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 14E484D78,
Expected: FFFFFFFDFF, Actual: 60FFFDFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 159702138,
Expected: FFFFFFFF, Actual: C5FFFFFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 145908FBC,
Expected: FBFFFFFF, Actual: 52FFFFFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 14B86DC7C,
Expected: 00000400, Actual: 82000400
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 156A64438,
Expected: FFFFFFFF, Actual: BDFFFFFFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 15FD8D0C4,
Expected: 10000000, Actual: 51000000
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 8, Address: 14E484D74,
Expected: FFFFFFFEFF, Actual: C4FFFEFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 159702134,
Expected: FFFFFFFF, Actual: 61FFFFFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 4, Address: 145908FB8,
Expected: FFFFFFFF, Actual: 5EFFFFFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 12, Address: 156A64434,
Expected: FFFFFFFF, Actual: 19FFFFFF
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 0, Address: 15FD8D0C8,
Expected: 20000000, Actual: 69000000
2025-04-19 22:33:35 - [MEM ERROR - Data] Test: 7, CPU: 14, Address: 159702130,
Expected: FF7FFFFFFF, Actual: 677FFFFFFF
2025-04-19 22:33:35 - [MEM ERROR] Truncating due to too many errors (Total errs:
500)
2025-04-19 22:33:36 - hsmp - request function 0F
2025-04-19 22:33:36 - poll_timings_ryzen_zen4 - HSMP_GET_FCLK_MCLK timed out
2025-04-19 22:33:36 - poll_timings_ryzen_zen4 - gppclkctrl=10000000
2025-04-19 22:33:36 - poll_timings_ryzen_zen4 - cgpllcntrl3=BFFFFFFF
2025-04-19 22:33:36 - poll_timings_ryzen_zen4 - [MC0] DramConfiguration=80050BB8
2025-04-19 22:33:36 - poll_timings_ryzen_zen4 - [MC0] MemClkFreq=3000 memclk
cntr freq=2970637 Khz
2025-04-19 22:33:36 - poll_timings_ryzen_zen4 - [MC0] DebugMisc=0B000838
2025-04-19 22:33:37 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING1=2424501E
2025-04-19 22:33:37 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING2=00240074
2025-04-19 22:33:37 - poll_timings_ryzen_zen4 - [MC1] DramConfiguration=80010000
2025-04-19 22:33:37 - get_mem_ctrl_timings - [0-24-2] 6000 MT/s (30-36-36-80)
2025-04-19 22:33:37 - Current mem timings: 6000 MT/s (30-36-36-80)
2025-04-19 22:33:37 - **WARNING** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:33:37 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:33:37 - **WARNING** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:33:37 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:33:37 - **WARNING** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:33:37 - C900 0000 000D 0D00 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:33:37 - **WARNING** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:

2025-04-19 22:33:37 - C998 9800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:33:37 - Device detected on SMBUS at address 51
(smbGetSPD5TSODPIIX4)
2025-04-19 22:33:37 - MR49-50 - TS Current Sensed Temperature: 026C
2025-04-19 22:33:37 - DIMM0 temperature: 38.750C
2025-04-19 22:33:37 - Current CPU temperature: 61C
2025-04-19 22:34:36 - hsmpt - request function 0F
2025-04-19 22:34:36 - poll_timings_ryzen_zen4 - HSMP_GET_FCLK_MCLK timed out
2025-04-19 22:34:36 - poll_timings_ryzen_zen4 - gppclkctrl=7FFFFFFF
2025-04-19 22:34:36 - poll_timings_ryzen_zen4 - cgpllcntrl3=FFFFFFBF
2025-04-19 22:34:36 - poll_timings_ryzen_zen4 - [MC0] DramConfiguration=80050BB8
2025-04-19 22:34:37 - poll_timings_ryzen_zen4 - [MC0] MemClkFreq=3000 memclk
cntr freq=2970634 Khz
2025-04-19 22:34:37 - poll_timings_ryzen_zen4 - [MC0] DebugMisc=0B000838
2025-04-19 22:34:37 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING1=2424501E
2025-04-19 22:34:37 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING2=00240074
2025-04-19 22:34:37 - poll_timings_ryzen_zen4 - [MC1] DramConfiguration=80010000
2025-04-19 22:34:37 - get_mem_ctrl_timings - [0-24-2] 6000 MT/s (30-36-36-80)
2025-04-19 22:34:37 - Current mem timings: 6000 MT/s (30-36-36-80)
2025-04-19 22:34:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:34:37 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:34:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:34:37 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:34:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:34:37 - C900 0000 000D 0D00 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:34:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for
DIMM#0:
2025-04-19 22:34:37 - C998 9800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:34:37 - Device detected on SMBUS at address 51
(smbGetSPD5TSODPIIX4)
2025-04-19 22:34:37 - MR49-50 - TS Current Sensed Temperature: 0284
2025-04-19 22:34:37 - DIMM0 temperature: 40.250C
2025-04-19 22:34:37 - Current CPU temperature: 61C
2025-04-19 22:35:36 - hsmpt - request function 0F
2025-04-19 22:35:36 - poll_timings_ryzen_zen4 - HSMP_GET_FCLK_MCLK timed out
2025-04-19 22:35:36 - poll_timings_ryzen_zen4 - gppclkctrl=7FFFFFFF
2025-04-19 22:35:36 - poll_timings_ryzen_zen4 - cgpllcntrl3=FFFFFFBF
2025-04-19 22:35:36 - poll_timings_ryzen_zen4 - [MC0] DramConfiguration=80050BB8
2025-04-19 22:35:37 - poll_timings_ryzen_zen4 - [MC0] MemClkFreq=3000 memclk
cntr freq=2970639 Khz
2025-04-19 22:35:37 - poll_timings_ryzen_zen4 - [MC0] DebugMisc=0B000838
2025-04-19 22:35:37 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING1=2424501E
2025-04-19 22:35:37 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING2=00240074
2025-04-19 22:35:37 - poll_timings_ryzen_zen4 - [MC1] DramConfiguration=80010000
2025-04-19 22:35:37 - get_mem_ctrl_timings - [0-24-2] 6000 MT/s (30-36-36-80)
2025-04-19 22:35:37 - Current mem timings: 6000 MT/s (30-36-36-80)

2025-04-19 22:35:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:35:37 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:35:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:35:37 - C988 8800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:35:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:35:37 - C900 0000 000D 0D00 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:35:37 - ****WARNING**** TSOD may be invalid. Raw TSOD bytes for DIMM#0:
2025-04-19 22:35:37 - C998 9800 0005 0500 007F 7F20 2054 5400 0000 0000 0020
2000 0001 013F 3F00 0000
2025-04-19 22:35:37 - Device detected on SMBUS at address 51
(smbGetSPD5TSODPIIX4)
2025-04-19 22:35:37 - MR49-50 - TS Current Sensed Temperature: 028C
2025-04-19 22:35:37 - DIMM0 temperature: 40.750C
2025-04-19 22:35:37 - Current CPU temperature: 66C
2025-04-19 22:35:47 - MtSupportRunAllTests - Test execution time: 175.722s (Test 7 cumulative error count: 9723, buffer full count: 224)
2025-04-19 22:35:47 - Running test #8 (Test 8 [Random number sequence])
2025-04-19 22:35:47 - MtSupportRunAllTests - Setting random seed to 0x50415353
2025-04-19 22:35:47 - MtSupportRunAllTests - Start time: 314237 ms
2025-04-19 22:35:47 - Start memory range test (0x0 - 0x1000000000)
2025-04-19 22:35:48 - MtSupportRunAllTests - Test execution time: 0.953s (Test 8 cumulative error count: 261, buffer full count: 230)
2025-04-19 22:35:48 - Number of errors exceed maximum error count of 10000
2025-04-19 22:35:48 - Cleanup - Unlocking all memory ranges...
2025-04-19 22:35:48 - All memory ranges successfully unlocked
2025-04-19 22:35:50 - Test result: FAIL (Errors: 10000)
2025-04-19 22:36:15 - Display test result summary
2025-04-19 22:36:46 - Enabling graphics mode
2025-04-19 22:36:46 - Get screen size
2025-04-19 22:36:46 - Current screen size: 800 x 600
2025-04-19 22:36:46 - Setting graphics mode to: 2 [1024 x 768]
2025-04-19 22:36:46 - Successfully set graphics mode to: 2
2025-04-19 22:36:46 - New screen size = 1024 x 768
2025-04-19 22:36:46 - hsmpl - request function 0F
2025-04-19 22:36:46 - poll_timings_ryzen_zen4 - HSMP_GET_FCLK_MCLK timed out
2025-04-19 22:36:46 - poll_timings_ryzen_zen4 - gppclkctrl=7FFFFFFF
2025-04-19 22:36:46 - poll_timings_ryzen_zen4 - cgpllcntrl3=FFFFFFBFF
2025-04-19 22:36:46 - poll_timings_ryzen_zen4 - [MC0] DramConfiguration=80050BB8
2025-04-19 22:36:47 - poll_timings_ryzen_zen4 - [MC0] MemClkFreq=3000 memclk
cntr freq=2985249 Khz
2025-04-19 22:36:47 - poll_timings_ryzen_zen4 - [MC0] DebugMisc=0B0008F8
2025-04-19 22:36:47 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING1=2424501E
2025-04-19 22:36:47 - poll_timings_ryzen_zen4 - [MC0] UMC_DRAMTIMING2=00240074
2025-04-19 22:36:47 - poll_timings_ryzen_zen4 - [MC1] DramConfiguration=80010000
2025-04-19 22:36:47 - get_mem_ctrl_timings - [0-24-2] 6000 MT/s (30-36-36-80)