

2023-07-23 12:51:06 - Attempting to retrieve the root directory of the data partition.  
2023-07-23 12:51:06 - Found 5 handles that supported SimpleFileSystem  
2023-07-23 12:51:06 - Checking handle 0 (AB3E4398)  
2023-07-23 12:51:06 - Handle is own partition  
2023-07-23 12:51:06 - Checking handle 1 (AADFFA98)  
2023-07-23 12:51:06 - HD node found: MBR type(2), Signature type(2), Part # (2), Start LBA(524288), Num Sectors(524288)  
2023-07-23 12:51:06 - Self node: MBR type(2), Signature type(2), Part # (1), Start LBA(2048), Num Sectors(522240)  
2023-07-23 12:51:06 - Checking handle 2 (AAC0F598)  
2023-07-23 12:51:06 - Checking handle 3 (AAC05F18)  
2023-07-23 12:51:06 - Checking handle 4 (AAC05C98)  
2023-07-23 12:51:06 - Found 9 handles that supported Block I/O protocol  
2023-07-23 12:51:06 - HD node found: MBR type(2), Signature type(2), Signature(50415353-CE04-4F8F-AC32-6F3693F43704), Part # (1), Start LBA(2048), Num Sectors(522240)  
2023-07-23 12:51:06 - HD node found: MBR type(2), Signature type(2), Signature(50415353-6343-46C0-B68C-69EE6326F32B), Part # (2), Start LBA(524288), Num Sectors(524288)  
2023-07-23 12:51:06 - HD node found: MBR type(2), Signature type(2), Signature(50415353-2A40-4503-B2F7-474E00EBFBAA), Part # (3), Start LBA(1048576), Num Sectors(1048543)  
2023-07-23 12:51:06 - Found DMA Test Partition  
2023-07-23 12:51:06 - Successfully obtained Block I/O protocol  
2023-07-23 12:51:06 - Successfully obtained Partition Info protocol  
2023-07-23 12:51:06 - Revision: 0x1000  
2023-07-23 12:51:06 - Type: 0x2  
2023-07-23 12:51:06 - System: 0x0  
2023-07-23 12:51:08 - GPT - PartitionTypeGUID: EBD0A0A2-B9E5-4433-87C0-68B6B72699C7  
2023-07-23 12:51:08 - GPT - UniquePartitionGUID: 50415353-2A40-4503-B2F7-474E00EBFBAA  
2023-07-23 12:51:08 - GPT - StartingLBA: 0x100000  
2023-07-23 12:51:08 - GPT - EndingLBA: 0x1FFFDE  
2023-07-23 12:51:08 - GPT - Attributes: 0x0  
2023-07-23 12:51:08 - GPT - PartitionName: DMA Test Partition  
2023-07-23 12:51:08 - Media ID: 0x00000000  
2023-07-23 12:51:08 - Removable: yes  
2023-07-23 12:51:08 - Media Present: yes  
2023-07-23 12:51:08 - Logical Part: yes  
2023-07-23 12:51:08 - Read-only: no  
2023-07-23 12:51:08 - Write cache: no  
2023-07-23 12:51:08 - Block size: 512  
2023-07-23 12:51:08 - Align: 0  
2023-07-23 12:51:08 - Last block: 0xFFFFDE  
2023-07-23 12:51:08 - Lowest LBA: 0x0  
2023-07-23 12:51:08 - Log blks per phys blk: 0  
2023-07-23 12:51:08 - Optimal transfer len: 0  
2023-07-23 12:51:08 - [FS0]  
2023-07-23 12:51:08 -  
PciRoot(0x0)/Pci(0x2,0x1)/Pci(0x0,0x0)/Pci(0xC,0x0)/Pci(0x0,0x0)/USB(0x8,0x0)/HD(1,GPT,50415353-CE04-4F8F-AC32-6F3693F43704,0x800,0x7F800)

2023-07-23 12:51:08 - Label: "", Mode: RW, Free space: 246 MB / 254 MB (0%)  
2023-07-23 12:51:08 - [FS1]  
2023-07-23 12:51:08 -  
PciRoot(0x0)/Pci(0x2,0x1)/Pci(0x0,0x0)/Pci(0xC,0x0)/Pci(0x0,0x0)/USB(0x8,0x0)/HD(2,GPT,50415353-6343-46C0-B68C-69EE6326F32B,0x80000,0x80000)  
2023-07-23 12:51:08 - Label: "", Mode: RW, Free space: 247 MB / 255 MB (0%)  
2023-07-23 12:51:08 - [FS2]  
2023-07-23 12:51:08 - PciRoot(0x0)/Pci(0x1,0x2)/Pci(0x0,0x0)/NVMe(0x1,45-87-1E-65-68-B7-26-00)/HD(1,GPT,9670B1EC-B071-4410-99D3-343F5C7AEFEA,0x800,0x32000)  
2023-07-23 12:51:08 - Label: "", Mode: RW, Free space: 69 MB / 96 MB (0%)  
2023-07-23 12:51:08 - [FS3]  
2023-07-23 12:51:08 - PciRoot(0x0)/Pci(0x1,0x2)/Pci(0x0,0x0)/NVMe(0x1,45-87-1E-65-68-B7-26-00)/HD(3,GPT,08D6232F-E634-4EA9-9385-46BA615DFFC9,0x3A800,0x7727C310)  
2023-07-23 12:51:08 - Label: "", Mode: RO, Free space: 0 MB / 976120 MB (0%)  
2023-07-23 12:51:09 - [FS4]  
2023-07-23 12:51:09 - PciRoot(0x0)/Pci(0x1,0x2)/Pci(0x0,0x0)/NVMe(0x1,45-87-1E-65-68-B7-26-00)/HD(4,GPT,6650C769-A864-44A1-AC98-1A831325BE51,0x772B7000,0x105800)  
2023-07-23 12:51:09 - Label: "", Mode: RO, Free space: 0 MB / 522 MB (0%)  
2023-07-23 12:51:09 - Disabling watchdog timer (Result: Success)  
2023-07-23 12:51:09 - Could not find Simple Network protocol from image device handle  
2023-07-23 12:51:09 - Could not get list of handles that support Simple Network protocol: Not Found  
2023-07-23 12:51:09 - Found 0 handles that supported Simple Network  
2023-07-23 12:51:09 - =====  
2023-07-23 12:51:09 - MemTest86 V10.5 Free Build: 1000 (64-bit)  
2023-07-23 12:51:09 - =====  
2023-07-23 12:51:09 - SMBIOS BIOS INFO Vendor: "American Megatrends International, LLC.", Version: "1.91", Release Date: "06/30/2023"  
2023-07-23 12:51:09 - SMBIOS SYSTEM INFO Manufacturer: "Micro-Star International Co., Ltd.", Product: "MS-7D77", Version: "1.0", S/N: "To be filled by O.E.M.", SKU: "", Family: ""  
2023-07-23 12:51:09 - SMBIOS: Found SMBIOS BaseboardInformation (pbLinAddr=0xB94DC0E3, FormattedLen=15, iTotalLen=147)  
2023-07-23 12:51:09 - SMBIOS BASEBOARD INFO Manufacturer: "Micro-Star International Co., Ltd.", Product: "PRO B650M-A WIFI (MS-7D77)", Version: "1.0", S/N: "07D7710\_MC1E038650", AssetTag: "To be filled by O.E.M.", LocationInChassis: "To be filled by O.E.M."  
2023-07-23 12:51:09 - EFI Specifications: 2.70  
2023-07-23 12:51:09 - Found blacklist file  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-F42C88C8" (BIOS: "", FLAGS: 1) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-F42386C8" (BIOS: "", FLAGS: 1) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-F4238CC8" (BIOS: "", FLAGS: 8) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-F4208DC8" (BIOS: "", FLAGS: 8) to blacklist

2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-27ADBB7B4CEE8E61" (BIOS: "", FLAGS: 20) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-7BA5B2DFE22DDD8C" (BIOS: "", FLAGS: 4) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-7BA5B2D9E42DDD94" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-AF89B6D9451A490B" (BIOS: "", FLAGS: 4) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-CFF7D910A743CAAF" (BIOS: "", FLAGS: 4) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-AA95B1DDAB278B95" (BIOS: "", FLAGS: 4) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Mac-27AD2F918AE68F61" (BIOS: "", FLAGS: 40) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "80AF" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Z97MX-Gaming 5" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Z170MX-Gaming 5" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Z170X-Gaming 3" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Z170X-Gaming 7" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Z170X-Gaming GT" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Z170X-UD3-CF" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "Z170-HD3P" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "990FXA-UD3" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "990FX Extreme3" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "970A-DS3P" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "X99-Ultra Gaming-CF" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "M5A97 R2.0" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "M5A97 EVO R2.0" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "M5A99FX PRO R2.0" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "M5A99X EVO R2.0" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "X99-A" (BIOS: "3701", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "X99-A/USB 3.1" (BIOS: "3701", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "X99-A II" (BIOS: "1701", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "X99-A" (BIOS: "1701", FLAGS: 2) to blacklist

2023-07-23 12:51:09 - [BLACKLIST] Adding "Sabertooth X99" (BIOS: "3701",  
FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "SABERTOOTH 990FX R2.0" (BIOS:  
"", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "SABERTOOTH 990FX R3.0" (BIOS:  
"", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "SABERTOOTH 990FX/GEN3 R2.0"  
(BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "STRIX X99 GAMING" (BIOS:  
"1701", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "X99-DELUXE" (BIOS: "3701",  
FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "X99-DELUXE II" (BIOS: "1701",  
FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "RAMPAGE V EXTREME" (BIOS:  
"3701", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "RAMPAGE V EDITION 10" (BIOS:  
"", FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "MAXIMUS VIII RANGER" (BIOS: "",  
FLAGS: 2) to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "P9X79 WS" (BIOS: "", FLAGS: 40)  
to blacklist  
2023-07-23 12:51:09 - [BLACKLIST] Adding "P9X79-E WS" (BIOS: "", FLAGS:  
40) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "Z9PE-D8 WS" (BIOS: "", FLAGS:  
40) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "Z10PE-D8 WS" (BIOS: "", FLAGS:  
2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "X9DRW" (BIOS: "", FLAGS: 2) to  
blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "X9DRW-3LN4F+/X9DRW-3TF+" (BIOS:  
"", FLAGS: 2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "X9DR3-F" (BIOS: "", FLAGS: 40)  
to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "X9SRL-F" (BIOS: "", FLAGS: 2)  
to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "X9DRD-iF" (BIOS: "", FLAGS: 2)  
to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "X9SRA/X9SRA-3" (BIOS: "",  
FLAGS: 2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "X9DRL-7F" (BIOS: "", FLAGS: 2)  
to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "151-BE-E097" (BIOS: "", FLAGS:  
2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "131-HE-E095" (BIOS: "", FLAGS:  
2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "131-HE-E095-KR" (BIOS: "",  
FLAGS: 2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "151-HE-E999-KR" (BIOS: "",  
FLAGS: 2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "PRIME B350-PLUS" (BIOS: "",  
FLAGS: 2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "PRIME X370-PRO" (BIOS: "",  
FLAGS: 4) to blacklist

2023-07-23 12:51:10 - [BLACKLIST] Adding "CROSSHAIR VI HERO" (BIOS: "1602", FLAGS: 4) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "CROSSHAIR V FORMULA-Z" (BIOS: "", FLAGS: 4) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "ROG STRIX X370-F GAMING" (BIOS: "4012", FLAGS: 4) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "OEMSH Product" (BIOS: "", FLAGS: 8) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "OEMAL Product" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "OEMCT Product" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "OEMWY Product" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "LNVNB161216" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "GA-990FX-GAMING" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "X399 SLI PLUS (MS-7B09)" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "X570 I AORUS PRO WIFI" (BIOS: "F32", FLAGS: 2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "MS-17EK" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "0F685W" (BIOS: "", FLAGS: 80) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "00V5FJ" (BIOS: "", FLAGS: 100) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "ProLiant DL325 Gen10" (BIOS: "", FLAGS: 4) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "ProLiant DL385 Gen10" (BIOS: "", FLAGS: 4) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "ProLiant DL385 Gen10 Plus" (BIOS: "", FLAGS: 4) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "06CDVY" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "Surface Book" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "Surface Book 2" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "Surface Pro" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "Surface Pro 7" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "Surface Pro" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "Surface Laptop 4" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "Surface Laptop" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "MACH-WX9-PCB" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "MACH-WX9" (BIOS: "", FLAGS: 10) to blacklist

2023-07-23 12:51:10 - [BLACKLIST] Adding "8873" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "0P4NHH" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "XPS 17 9710" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "XPS 15 9510" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "01V4T3" (BIOS: "", FLAGS: 10) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] Adding "H12DST-B" (BIOS: "", FLAGS: 2) to blacklist  
2023-07-23 12:51:10 - [BLACKLIST] 91 boards added to blacklist  
2023-07-23 12:51:10 - Console Control protocol workaround enabled  
2023-07-23 12:51:10 - Number of console modes: 4  
2023-07-23 12:51:10 - Mode 0: 80 x 25  
2023-07-23 12:51:10 - Mode 1: 80 x 50  
2023-07-23 12:51:10 - Mode 2: 100 x 31  
2023-07-23 12:51:10 - Mode 3: 128 x 40  
2023-07-23 12:51:10 - Console attribute: 15  
2023-07-23 12:51:10 - Initializing localization strings  
2023-07-23 12:51:10 - Language en-US is supported  
2023-07-23 12:51:10 - Language fr-FR is supported  
2023-07-23 12:51:10 - Language it-IT is supported  
2023-07-23 12:51:11 - Language es-AR is supported  
2023-07-23 12:51:11 - GetGlyph failed for character 0x00C3 (Warning Unknown Glyph)  
2023-07-23 12:51:11 - Language pt-BR is not supported  
2023-07-23 12:51:11 - Language ca-ES is supported  
2023-07-23 12:51:11 - Language de-DE is supported  
2023-07-23 12:51:11 - GetGlyph failed for character 0x010C (Warning Unknown Glyph)  
2023-07-23 12:51:11 - Language cs-CZ is not supported  
2023-07-23 12:51:11 - GetGlyph failed for character 0x0104 (Warning Unknown Glyph)  
2023-07-23 12:51:11 - Language pl-PL is not supported  
2023-07-23 12:51:11 - Language ru-RU is supported  
2023-07-23 12:51:11 - GetGlyph failed for character 0x3041 (Warning Unknown Glyph)  
2023-07-23 12:51:11 - Language ja-JP is not supported  
2023-07-23 12:51:11 - GetGlyph failed for character 0x4E0F (Warning Unknown Glyph)  
2023-07-23 12:51:11 - Language zh-CN is not supported  
2023-07-23 12:51:11 - GetGlyph failed for character 0xF944 (Warning Unknown Glyph)  
2023-07-23 12:51:11 - Language zh-HK is not supported  
2023-07-23 12:51:11 - Font does not support all languages. Installing unicode font...  
2023-07-23 12:51:11 - InitFont - Font header version: 1.1  
2023-07-23 12:51:11 - InitFont - Number of narrow glyphs: 7110  
2023-07-23 12:51:11 - InitFont - Number of wide glyphs: 49976  
2023-07-23 12:51:11 - Language en-US is supported  
2023-07-23 12:51:11 - Language fr-FR is supported  
2023-07-23 12:51:11 - Language it-IT is supported

2023-07-23 12:51:11 - Language es-AR is supported  
2023-07-23 12:51:11 - Language pt-BR is supported  
2023-07-23 12:51:11 - Language ca-ES is supported  
2023-07-23 12:51:11 - Language de-DE is supported  
2023-07-23 12:51:11 - Language cs-CZ is supported  
2023-07-23 12:51:11 - Language pl-PL is supported  
2023-07-23 12:51:11 - Language ru-RU is supported  
2023-07-23 12:51:11 - Language ja-JP is supported  
2023-07-23 12:51:11 - Language zh-CN is supported  
2023-07-23 12:51:11 - Language zh-HK is supported  
2023-07-23 12:51:11 - iMS support is NOT available  
2023-07-23 12:51:11 - Initializing screen for graphics  
2023-07-23 12:51:11 - Number of graphics modes: 11  
2023-07-23 12:51:11 - Mode 0: 1920 x 1080  
2023-07-23 12:51:11 - Mode 1: 640 x 480  
2023-07-23 12:51:11 - Mode 2: 800 x 600 [Current]  
2023-07-23 12:51:11 - Mode 3: 1024 x 768  
2023-07-23 12:51:11 - Mode 4: 1280 x 720  
2023-07-23 12:51:11 - Mode 5: 1280 x 800  
2023-07-23 12:51:11 - Mode 6: 1280 x 1024  
2023-07-23 12:51:11 - Mode 7: 1366 x 768  
2023-07-23 12:51:11 - Mode 8: 1440 x 900  
2023-07-23 12:51:11 - Mode 9: 1400 x 1050  
2023-07-23 12:51:11 - Mode 10: 1680 x 1050  
2023-07-23 12:51:11 - Getting CPUID  
2023-07-23 12:51:11 - Getting cache size  
2023-07-23 12:51:11 - get\_cache\_size - Vendor ID: AuthenticAMD Brand ID:  
AMD Ryzen 7 7700X 8-Core Processor  
2023-07-23 12:51:11 - CPU CorePPack: 16 (0x0000400F)  
2023-07-23 12:51:11 - L1 instruction cache size: 16 x 32KB  
2023-07-23 12:51:12 - L1 data cache size: 16 x 32KB  
2023-07-23 12:51:12 - L2 cache size: 16 x 1024KB  
2023-07-23 12:51:12 - L3 cache size: 1 x 32768KB  
2023-07-23 12:51:12 - Measuring CPU/cache/mem speed  
2023-07-23 12:51:12 - hpet\_init - Found RSDP. Version: 2  
2023-07-23 12:51:12 - hpet\_init - Found XSDT. Entry Count: 30  
2023-07-23 12:51:12 - hpet\_init - Found ACPI table: FACP Version: 6  
2023-07-23 12:51:12 - hpet\_init - Found ACPI table: SSDT Version: 2  
2023-07-23 12:51:12 - hpet\_init - Found ACPI table: SSDT Version: 2  
2023-07-23 12:51:12 - hpet\_init - Found ACPI table: FIDT Version: 1  
2023-07-23 12:51:12 - hpet\_init - Found ACPI table: MCFG Version: 1  
2023-07-23 12:51:12 - hpet\_init - Found ACPI table: HPET Version: 1  
2023-07-23 12:51:12 - hpet\_init - HPET base address: 0xFED00000  
2023-07-23 12:51:12 - hpet\_init - HPET gen cap: 0x429B17E10228201  
(Period: 69841278fs)  
2023-07-23 12:51:12 - hpet\_init - HPET gen cfg: 0x0  
2023-07-23 12:51:12 - hpet\_init - HPET is disabled  
2023-07-23 12:51:12 - cpuspeed - rdtsc instruction supported: 1  
2023-07-23 12:51:12 - cpuspeed - start ticks: 90206444205, end ticks:  
90431447760 (difference: 225003555)  
2023-07-23 12:51:12 - cpu\_cache\_speed - (Attempt 1) clock cycle (ms):  
4500071  
2023-07-23 12:51:12 - cpuspeed - rdtsc instruction supported: 1

2023-07-23 12:51:12 - cpuspeed - start ticks: 90654614505, end ticks: 90879624315 (difference: 225009810)  
2023-07-23 12:51:12 - cpu\_cache\_speed - (Attempt 2) clock cycle (ms): 4500196  
2023-07-23 12:51:12 - cpuspeed - rdtsc instruction supported: 1  
2023-07-23 12:51:12 - cpuspeed - start ticks: 91101436335, end ticks: 91326440610 (difference: 225004275)  
2023-07-23 12:51:12 - cpu\_cache\_speed - (Attempt 3) clock cycle (ms): 4500085  
2023-07-23 12:51:12 - cpu\_cache\_speed - Using average of last 3 samples (4500085, 4500196, 4500071)  
2023-07-23 12:51:12 - cpu\_cache\_speed - CPU speed: 4500.1MHz  
2023-07-23 12:51:12 - cpu\_cache\_speed - measuring L1 cache speed at 0xA9B12000 (32 KB)  
2023-07-23 12:51:12 - cpu\_cache\_speed - L1 cache speed: 313690 MB/s  
2023-07-23 12:51:12 - cpu\_cache\_speed - measuring L2 cache speed at 0xA99D0000 (1024 KB)  
2023-07-23 12:51:12 - cpu\_cache\_speed - L2 cache speed: 144562 MB/s  
2023-07-23 12:51:12 - cpu\_cache\_speed - measuring L3 cache speed at 0xA6793000 (32768 KB)  
2023-07-23 12:51:13 - cpu\_cache\_speed - L3 cache speed: 118349 MB/s  
2023-07-23 12:51:13 - get\_mem\_speed - measuring mem speed at 0x97F13000 (270848 KB)  
2023-07-23 12:51:13 - get\_mem\_speed - mem speed: 51451 MB/s  
2023-07-23 12:51:13 - memory latency - allocate memory  
2023-07-23 12:51:13 - memory latency - randomize range  
2023-07-23 12:51:13 - memory latency - build linked list  
2023-07-23 12:51:13 - memory latency - start test  
2023-07-23 12:51:14 - memory latency - test completed (loops=4, rpl=2097152)  
2023-07-23 12:51:14 - cpu\_cache\_speed - Memory latency: 74.982 ns  
2023-07-23 12:51:14 - Retrieving CPU MSR data  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - CPU AMD Ryzen 7 7700X 8-Core Processor : 19h.61h  
2023-07-23 12:51:14 - IsAMDTurboCoreSupported - CPUID[0x80000007][EDX] = 00006799  
2023-07-23 12:51:14 - HWCR register found. CPB enable/disable functionality supported  
2023-07-23 12:51:14 - CPB is: enabled  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - MSR[0xC0010292] = 0000000104003789  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - MSR Max Pstates/#boosted states: 8, -1  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - MSR[C0010064] = 800000004B7248B4  
2023-07-23 12:51:14 - GetAMDMult - CPUDid\_P = 8, CPUFid\_P = 180  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - Multiplier\_P[0] = 45000  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - MSR[C0010065] = 80000000479E4878  
2023-07-23 12:51:14 - GetAMDMult - CPUDid\_P = 8, CPUFid\_P = 120  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - Multiplier\_P[1] = 30000  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - MSR[C0010066] = 0000000000000000  
2023-07-23 12:51:14 - GetAMDMult - CPUDid\_P = 0, CPUFid\_P = 0



2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - Multiplier\_P[2] = 0  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - MSR[C0010067] =  
0000000000000000  
2023-07-23 12:51:14 - GetAMDMult - CPUDid\_P = 0, CPUFid\_P = 0  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - Multiplier\_P[3] = 0  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - MSR[C0010068] =  
0000000000000000  
2023-07-23 12:51:14 - GetAMDMult - CPUDid\_P = 0, CPUFid\_P = 0  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - Multiplier\_P[4] = 0  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - MSR[C0010069] =  
0000000000000000  
2023-07-23 12:51:14 - GetAMDMult - CPUDid\_P = 0, CPUFid\_P = 0  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - Multiplier\_P[5] = 0  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - MSR[C001006A] =  
0000000000000000  
2023-07-23 12:51:14 - GetAMDMult - CPUDid\_P = 0, CPUFid\_P = 0  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - Multiplier\_P[6] = 0  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - MSR[C001006B] =  
0000000000000000  
2023-07-23 12:51:14 - GetAMDMult - CPUDid\_P = 0, CPUFid\_P = 0  
2023-07-23 12:51:14 - GetAMDFamilyMSRInfo - Multiplier\_P[7] = 0  
2023-07-23 12:51:14 - EnableAMDCPB - MSR[0xC0010015] = 0000000189006011  
2023-07-23 12:51:14 - EnableAMDCPB - New MSR[0xC0010015] =  
0000000189006011  
2023-07-23 12:51:14 - AMD MSR enable CPD: MSR[00000000C0010062] =  
0x0000000000000000  
2023-07-23 12:51:14 - AMD Set PStateCtl: 0x0000000000000000  
2023-07-23 12:51:14 - Get\_MPERF\_APERF - CPUID[0x6][ECX] = 00000001  
2023-07-23 12:51:14 - Get\_MPERF\_APERF - high perf counter freq =  
4500117000  
2023-07-23 12:51:14 - MSR 0xC0010293: 00000000003948DC  
2023-07-23 12:51:14 - GetAMDMult - CPUDid\_P = 8, CPUFid\_P = 220  
2023-07-23 12:51:14 - MSR 0xC0010063: 0000000000000000  
2023-07-23 12:51:15 - MSR 0xC0010062: 0000000000000000  
2023-07-23 12:51:15 - MSR 0xC0010061: 0000000000000010 (CurPState=0,  
MaxPState=1)  
2023-07-23 12:51:15 - Get\_MPERF\_APERF - time in ns = 261183  
2023-07-23 12:51:15 - Get\_MPERF\_APERF - FreqMPERF in KHz = 4503394,  
FreqAPERF in KHz = 5500955  
2023-07-23 12:51:15 - MSR 0xC0010293: 00000000003948DC  
2023-07-23 12:51:15 - GetAMDMult - CPUDid\_P = 8, CPUFid\_P = 220  
2023-07-23 12:51:15 - MSR 0xC0010063: 0000000000000000  
2023-07-23 12:51:15 - MSR 0xC0010062: 0000000000000000  
2023-07-23 12:51:15 - MSR 0xC0010061: 0000000000000010 (CurPState=0,  
MaxPState=1)  
2023-07-23 12:51:15 - Get\_MPERF\_APERF - time in ns = 261033  
2023-07-23 12:51:15 - Get\_MPERF\_APERF - FreqMPERF in KHz = 4501844,  
FreqAPERF in KHz = 5500967  
2023-07-23 12:51:16 - MSR 0xC0010293: 00000000003AC8DC  
2023-07-23 12:51:16 - GetAMDMult - CPUDid\_P = 8, CPUFid\_P = 220  
2023-07-23 12:51:16 - MSR 0xC0010063: 0000000000000000  
2023-07-23 12:51:16 - MSR 0xC0010062: 0000000000000000  
2023-07-23 12:51:16 - MSR 0xC0010061: 0000000000000010 (CurPState=0,  
MaxPState=1)

2023-07-23 12:51:16 - Get\_MPERF\_APERF - time in ns = 261073  
2023-07-23 12:51:16 - Get\_MPERF\_APERF - FreqMPERF in KHz = 4502016,  
FreqAPERF in KHz = 5501028  
2023-07-23 12:51:16 - GetAMDFamilyMSRInfo - APERF = 5501028, MPERF =  
4503394, Mult = 55000  
2023-07-23 12:51:16 - GetAMDFamilyMSRInfo - BaseClock = 10001  
2023-07-23 12:51:16 - GetAMDFamilyMSRInfo - Turbo Core supported  
2023-07-23 12:51:16 - DisableAMDCPB - MSR[0xC0010015] = 0000000189006011  
2023-07-23 12:51:16 - DisableAMDCPB - New MSR[0xC0010015] =  
000000018B006011  
2023-07-23 12:51:16 - AMD MSR disable CPD: MSR[00000000C0010062] =  
0x0000000000000000  
2023-07-23 12:51:16 - AMD Set PStateCtl: 0x0000000000000000  
2023-07-23 12:51:16 - Get\_MPERF\_APERF - CPUID[0x6][ECX] = 00000001  
2023-07-23 12:51:16 - Get\_MPERF\_APERF - high perf counter freq =  
4500117000  
2023-07-23 12:51:17 - MSR 0xC0010293: 000000000064C8B4  
2023-07-23 12:51:17 - GetAMDMult - CPUDid\_P = 8, CPUFid\_P = 180  
2023-07-23 12:51:17 - MSR 0xC0010063: 0000000000000001  
2023-07-23 12:51:17 - MSR 0xC0010062: 0000000000000000  
2023-07-23 12:51:17 - MSR 0xC0010061: 0000000000000010 (CurPState=0,  
MaxPState=1)  
2023-07-23 12:51:17 - Get\_MPERF\_APERF - time in ns = 319171  
2023-07-23 12:51:17 - Get\_MPERF\_APERF - FreqMPERF in KHz = 4501818,  
FreqAPERF in KHz = 4500853  
2023-07-23 12:51:17 - MSR 0xC0010293: 000000000064C8B4  
2023-07-23 12:51:17 - GetAMDMult - CPUDid\_P = 8, CPUFid\_P = 180  
2023-07-23 12:51:17 - MSR 0xC0010063: 0000000000000001  
2023-07-23 12:51:17 - MSR 0xC0010062: 0000000000000000  
2023-07-23 12:51:17 - MSR 0xC0010061: 0000000000000010 (CurPState=0,  
MaxPState=1)  
2023-07-23 12:51:17 - Get\_MPERF\_APERF - time in ns = 324961  
2023-07-23 12:51:17 - Get\_MPERF\_APERF - FreqMPERF in KHz = 4501786,  
FreqAPERF in KHz = 4500758  
2023-07-23 12:51:17 - MSR 0xC0010293: 000000000064C8B4  
2023-07-23 12:51:17 - GetAMDMult - CPUDid\_P = 8, CPUFid\_P = 180  
2023-07-23 12:51:17 - MSR 0xC0010063: 0000000000000001  
2023-07-23 12:51:17 - MSR 0xC0010062: 0000000000000000  
2023-07-23 12:51:17 - MSR 0xC0010061: 0000000000000010 (CurPState=0,  
MaxPState=1)  
2023-07-23 12:51:18 - Get\_MPERF\_APERF - time in ns = 319061  
2023-07-23 12:51:18 - Get\_MPERF\_APERF - FreqMPERF in KHz = 4501819,  
FreqAPERF in KHz = 4500901  
2023-07-23 12:51:18 - GetAMDFamilyMSRInfo - (CPB disabled) APERF =  
4500901, MPERF = 4501819, Mult = 45000  
2023-07-23 12:51:18 - GetAMDFamilyMSRInfo - (CPB disabled) BaseClock =  
10002  
2023-07-23 12:51:18 - GetAMDFamilyMSRInfo - CPUSpeedTurboTheoreticalMax =  
4500900  
2023-07-23 12:51:18 - GetAMDFamilyMSRInfo - (Before sanity check) Freq:  
4500901KHz (Ratio: 45000, ExtClk: 10002KHz), Turbo: 5501028KHz (Ratio:  
55000, ExtClk: 10002KHz) (Theoretical Max: 5501028KHz)  
2023-07-23 12:51:18 - GetAMDFamilyMSRInfo - Freq: 4500901, 45000, 10002,  
Turbo: 5501028, 55000, 10002 (5501028)

2023-07-23 12:51:18 - Getting memory size  
2023-07-23 12:51:18 - 0x000000000000 - 0x00000009EFFF (636KB) {Free Memory}  
  
2023-07-23 12:51:18 - 0x00000009F000 - 0x00000009FFFF (4KB) {Boot Services Data}  
  
2023-07-23 12:51:18 - 0x000000100000 - 0x000000FFFFFF (15MB) {Free Memory}  
  
2023-07-23 12:51:18 - 0x000001000000 - 0x00000107FFFF (512KB) {Boot Services Data}  
  
2023-07-23 12:51:18 - 0x000001080000 - 0x000009E01FFF (141MB) {Free Memory}  
  
2023-07-23 12:51:18 - 0x000009E02000 - 0x000009FFFFFF (2040KB) {Reserved Memory}  
  
2023-07-23 12:51:18 - 0x00000A000000 - 0x00000A1FFFFFF (2MB) {Free Memory}  
  
2023-07-23 12:51:18 - 0x00000A200000 - 0x00000A20FFFF (64KB) {ACPI Non-volatile}  
  
2023-07-23 12:51:18 - 0x00000A210000 - 0x00000AFFFFFF (13MB) {Free Memory}  
  
2023-07-23 12:51:18 - 0x00000B000000 - 0x00000B020FFF (132KB) {Reserved Memory}  
  
2023-07-23 12:51:18 - 0x00000B021000 - 0x00000FFFFFFFF (79MB) {Free Memory}  
  
2023-07-23 12:51:18 - 0x000010000000 - 0x00001000AFFF (44KB) {Boot Services Code}  
  
2023-07-23 12:51:18 - 0x00001000B000 - 0x0000A8792FFF (2439MB) {Free Memory}  
  
2023-07-23 12:51:18 - 0x0000A8793000 - 0x0000A89D2FFF (2MB) {Boot Services Data}  
  
2023-07-23 12:51:18 - 0x0000A89D3000 - 0x0000A906BFFF (6MB) {Free Memory}  
  
2023-07-23 12:51:18 - 0x0000A906C000 - 0x0000A92B5FFF (2MB) {Boot Services Data}  
  
2023-07-23 12:51:18 - 0x0000A92B6000 - 0x0000A9323FFF (440KB) {Free Memory}  
  
2023-07-23 12:51:18 - 0x0000A9324000 - 0x0000A9365FFF (264KB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000A9366000 - 0x0000A9382FFF (116KB) {Free Memory}

2023-07-23 12:51:18 - 0x0000A9383000 - 0x0000A9383FFF (4KB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000A9384000 - 0x0000A9385FFF (8KB) {Free Memory}

2023-07-23 12:51:18 - 0x0000A9386000 - 0x0000A939BFFF (88KB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000A939C000 - 0x0000A93A6FFF (44KB) {Free Memory}

2023-07-23 12:51:18 - 0x0000A93A7000 - 0x0000A93B6FFF (64KB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000A93B7000 - 0x0000A93D5FFF (124KB) {Free Memory}

2023-07-23 12:51:18 - 0x0000A93D6000 - 0x0000A93E5FFF (64KB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000A93E6000 - 0x0000A9425FFF (256KB) {Free Memory}

2023-07-23 12:51:18 - 0x0000A9426000 - 0x0000A9904FFF (4MB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000A9905000 - 0x0000A9ACFFFF (1836KB) {Free Memory}

2023-07-23 12:51:18 - 0x0000A9AD0000 - 0x0000A9AFFFFFFF (192KB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000A9B00000 - 0x0000A9B16FFF (92KB) {Free Memory}

2023-07-23 12:51:18 - 0x0000A9B17000 - 0x0000A9B48FFF (200KB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000A9B49000 - 0x0000A9CA1FFF (1380KB) {Loader Code}

2023-07-23 12:51:18 - 0x0000A9CA2000 - 0x0000AABF2FFF (15MB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000AABF3000 - 0x0000AAC02FFF (64KB) {Loader Data}

2023-07-23 12:51:18 - 0x0000AAC03000 - 0x0000AE246FFF (54MB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000AE247000 - 0x0000AE97BFFF (7MB) {Free Memory}

2023-07-23 12:51:18 - 0x0000AE97C000 - 0x0000B0346FFF (25MB) {Boot Services Code}

2023-07-23 12:51:18 - 0x0000B0347000 - 0x0000B6346FFF (96MB) {Reserved Memory}

2023-07-23 12:51:18 - 0x0000B6347000 - 0x0000B63F6FFF (704KB) {ACPI Tables}

2023-07-23 12:51:18 - 0x0000B63F7000 - 0x0000B83F6FFF (32MB) {ACPI Non-volatile}

2023-07-23 12:51:18 - 0x0000B83F7000 - 0x0000B9E7EFFF (26MB) {Runtime Services Data}

2023-07-23 12:51:18 - 0x0000B9E7F000 - 0x0000B9FFEFF (1536KB) {Runtime Services Code}

2023-07-23 12:51:18 - 0x0000B9FFF000 - 0x0000BA5FFFFFF (6MB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000BA600000 - 0x0000BA6B6FFF (732KB) {Free Memory}

2023-07-23 12:51:18 - 0x0000BA6B7000 - 0x0000BA7B6FFF (1024KB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000BA7B7000 - 0x0000BA7D1FFF (108KB) {Boot Services Code}

2023-07-23 12:51:18 - 0x0000BA7D2000 - 0x0000BA7FCFFF (172KB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000BA7FD000 - 0x0000BA81EFFF (136KB) {Boot Services Code}

2023-07-23 12:51:18 - 0x0000BA81F000 - 0x0000BA836FFF (96KB) {Boot Services Data}

2023-07-23 12:51:18 - 0x0000BA837000 - 0x0000BA85AFFF (144KB) {Boot Services Code}

2023-07-23 12:51:18 - 0x0000BA85B000 - 0x0000BBF3AFFF (22MB) {Boot Services Data}

2023-07-23 12:51:19 - 0x0000BBF3B000 - 0x0000BBF3DFFF (12KB) {Boot Services Code}

2023-07-23 12:51:19 - 0x0000BBF3E000 - 0x0000BBF50FFF (76KB) {Boot Services Data}

2023-07-23 12:51:19 - 0x0000BBF51000 - 0x0000BBF69FFF (100KB) {Boot Services Code}

2023-07-23 12:51:19 - 0x0000BBF6A000 - 0x0000BBFEBFFF (520KB) {Boot Services Data}

2023-07-23 12:51:19 - 0x0000BBFEC000 - 0x0000BBFF2FFF (28KB) {Boot Services Code}

2023-07-23 12:51:19 - 0x0000BBFF3000 - 0x0000BBFFAFFF (32KB) {Boot Services Data}

2023-07-23 12:51:19 - 0x0000BBFFB000 - 0x0000BBFFFFFF (20KB) {Runtime Services Data}

2023-07-23 12:51:19 - 0x000100000000 - 0x00083DEFFFFFFF (29663MB) {Free Memory}

2023-07-23 12:51:19 - 0x00000000A0000 - 0x00000000FFFFFF (384KB) {Reserved Memory}

2023-07-23 12:51:19 - 0x0000BC000000 - 0x0000BCFFFFFFF (16MB) {Reserved Memory}

2023-07-23 12:51:19 - 0x0000BD7F3000 - 0x0000BFFFFFFF (40MB) {Reserved Memory}

2023-07-23 12:51:19 - 0x0000F0000000 - 0x0000F7FFFFFFF (128MB) {OS Memory-mapped IO}

2023-07-23 12:51:19 - 0x0000FD000000 - 0x0000FEDFFFFFFF (30MB) {OS Memory-mapped IO}

2023-07-23 12:51:19 - 0x0000FEE00000 - 0x0000FEE00FFF (4KB) {OS Memory-mapped IO}

2023-07-23 12:51:19 - 0x0000FEE01000 - 0x0000FFFFFFFF (17MB) {OS Memory-mapped IO}

2023-07-23 12:51:19 - 0x00083EF40000 - 0x00083FFFFFFF (16MB) {Reserved Memory}

2023-07-23 12:51:19 - 0x000840000000 - 0x0008601FFFFFFF (514MB) {OS Memory-mapped IO}

2023-07-23 12:51:19 - 0x00FD00000000 - 0x00FFFFFFFFFFFF (12288MB) {Reserved Memory}

2023-07-23 12:51:19 -

2023-07-23 12:51:19 - Available Memory: 0x7E74D6000 (31GB)

2023-07-23 12:51:19 - Reserved Memory: 0x3424F7000 (13GB)

2023-07-23 12:51:19 - mem\_size - Number of entries: 70

2023-07-23 12:51:19 - mem\_size - Max address: 0x10000000000

```
2023-07-23 12:51:20 - mem_size - Total memory size (34121125888 bytes)
2023-07-23 12:51:20 - Getting memory SPD info
2023-07-23 12:51:21 - Attempting to enable any disabled SMBus
controllers...
2023-07-23 12:51:21 - Attempting to enable SMBUS:
2023-07-23 12:51:21 - Searching PCI for SMBus Controller
2023-07-23 12:51:21 - MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)
2023-07-23 12:51:21 - {00:14:00} SMBus Configuration Registers:
2023-07-23 12:51:21 - 00: 790B1022 02200403 0C050071 00800000
2023-07-23 12:51:21 - 10: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - 20: 00000000 00000000 00000000 7D771462
2023-07-23 12:51:21 - 30: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - 40: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - 50: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - 60: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - 70: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - 80: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - 90: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - A0: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - B0: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - C0: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - D0: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - E0: 00000000 00000000 00000000 00000000
2023-07-23 12:51:21 - F0: 0000FEAF 00000000 00000000 00000000
2023-07-23 12:51:21 - 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]
2023-07-23 12:51:21 - Finished searching PCI for SMBus Controller
2023-07-23 12:51:21 - Found 1 SMBus controllers
2023-07-23 12:51:21 - [AMD Hudson-3 SMBus Bus:00 Dev:14 Fun:00 Add:0B00]
Looking for SPD
2023-07-23 12:51:21 - Previous MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)
2023-07-23 12:51:21 - Device detected on SMBUS at address 51 (PIIX4)
2023-07-23 12:51:21 - Expanding SPD info array (0 => 16)
2023-07-23 12:51:21 - MemoryInfo(0xA9B02018, 89600 bytes)
RawSPD(0xA9ACB018, 16384 bytes)
2023-07-23 12:51:21 - Raw SPD bytes for DIMM#0 (Channel -1, Slot -1):
2023-07-23 12:51:21 - 51 18 0A 86 32 03 32 00 00 00 00 00 FF 01 00 00
2023-07-23 12:51:21 - 00 00 00 00 00 00 00 00 00 00 00 00 00 70 03 00 00
2023-07-23 12:51:21 - 50 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:21 - 00 70 02 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:21 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:21 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:21 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:21 - 30 10 12 02 04 00 20 62 00 00 00 00 B0 02 01 00
2023-07-23 12:51:21 - 00 00 00 00 A0 01 F2 03 7A 0D 00 00 00 00 80 3E
2023-07-23 12:51:21 - 80 3E 80 3E 00 7D 80 BB 30 75 27 01 A0 00 82 00
2023-07-23 12:51:21 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:21 - 00 00 00 00 00 00 88 13 08 88 13 08 20 4E 20 10
2023-07-23 12:51:21 - 27 10 15 34 20 10 27 10 C4 09 04 4C 1D 0C 00 00
2023-07-23 12:51:21 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:21 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:21 - Device detected on SMBUS at address 53 (PIIX4)
```

```
2023-07-23 12:51:21 - Raw SPD bytes for DIMM#0 (Channel -1, Slot -1):
2023-07-23 12:51:22 - 51 18 0A 86 32 03 32 00 00 00 00 00 FF 01 00 00
2023-07-23 12:51:22 - 00 00 00 00 00 00 00 00 00 00 00 00 70 03 00 00
2023-07-23 12:51:22 - 50 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:22 - 00 64 02 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:22 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:22 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:22 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:22 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:22 - 30 10 12 02 04 00 20 62 00 00 00 00 B0 02 01 00
2023-07-23 12:51:22 - 00 00 00 00 A0 01 F2 03 7A 0D 00 00 00 00 80 3E
2023-07-23 12:51:22 - 80 3E 80 3E 00 7D 80 BB 30 75 27 01 A0 00 82 00
2023-07-23 12:51:22 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:22 - 00 00 00 00 00 00 88 13 08 88 13 08 20 4E 20 10
2023-07-23 12:51:22 - 27 10 15 34 20 10 27 10 C4 09 04 4C 1D 0C 00 00
2023-07-23 12:51:22 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:22 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:22 - Previous MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)
2023-07-23 12:51:22 - Writing MMIO PM DECODEEN: E30F0BF7 (smbus0sel=1)
2023-07-23 12:51:22 - Restoring MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)
2023-07-23 12:51:22 - Previous MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)
2023-07-23 12:51:22 - Writing MMIO PM DECODEEN: E3170BF7 (smbus0sel=2)
2023-07-23 12:51:22 - Restoring MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)
2023-07-23 12:51:22 - Previous MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)
2023-07-23 12:51:22 - Writing MMIO PM DECODEEN: E31F0BF7 (smbus0sel=3)
2023-07-23 12:51:22 - Restoring MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)
2023-07-23 12:51:22 - Previous MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)
2023-07-23 12:51:22 - A - Setting page address to 0
2023-07-23 12:51:22 - A - Finished setting page address to 0
2023-07-23 12:51:22 - A - Setting page address to 1
2023-07-23 12:51:22 - A - Finished setting page address to 1
2023-07-23 12:51:22 - A - Setting page address to 2
2023-07-23 12:51:22 - A - Finished setting page address to 2
2023-07-23 12:51:22 - A - Setting page address to 3
2023-07-23 12:51:22 - A - Finished setting page address to 3
2023-07-23 12:51:22 - A - Setting page address to 4
2023-07-23 12:51:22 - A - Finished setting page address to 4
2023-07-23 12:51:22 - A - Setting page address to 5
2023-07-23 12:51:22 - A - Finished setting page address to 5
2023-07-23 12:51:22 - A - Setting page address to 6
2023-07-23 12:51:22 - A - Finished setting page address to 6
2023-07-23 12:51:22 - A - Setting page address to 7
2023-07-23 12:51:22 - A - Finished setting page address to 7
2023-07-23 12:51:23 - Raw SPD bytes for DIMM#0 (Channel -1, Slot -1):
2023-07-23 12:51:23 - 30 10 12 02 04 00 20 62 00 00 00 00 B0 02 01 00
2023-07-23 12:51:23 - 00 00 00 00 A0 01 F2 03 7A 0D 00 00 00 00 80 3E
2023-07-23 12:51:23 - 80 3E 80 3E 00 7D 80 BB 30 75 27 01 A0 00 82 00
2023-07-23 12:51:23 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:23 - 00 00 00 00 00 00 88 13 08 88 13 08 20 4E 20 10
2023-07-23 12:51:23 - 27 10 15 34 20 10 27 10 C4 09 04 4C 1D 0C 00 00
2023-07-23 12:51:23 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:23 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:23 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:23 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```



[illegible]

2023-07-23 12:51:24 - RAM type: DDR5  
2023-07-23 12:51:24 - SPD rev: 0x10  
2023-07-23 12:51:24 - Calculated CRC16 (9311) does not match stored CRC16 (A2DA)  
2023-07-23 12:51:24 - Module type: UDIMM  
2023-07-23 12:51:24 - Size: 16384 MB  
2023-07-23 12:51:24 - Banks x Rows x Columns x Bits: 32 x 16 x 10 x 32  
2023-07-23 12:51:24 - Ranks: 1  
2023-07-23 12:51:24 - SDRAM Device Width: 8  
2023-07-23 12:51:24 - SDRAM Package Type: Monolithic SDRAM  
2023-07-23 12:51:24 - Operable voltages: 1.1V  
2023-07-23 12:51:24 - SDRAM Nominal Voltage, VDD: 1.1V  
2023-07-23 12:51:24 - SDRAM Nominal Voltage, VDDQ: 1.1V  
2023-07-23 12:51:24 - SDRAM Nominal Voltage, VPP: 1.8V  
2023-07-23 12:51:24 - ECC: No  
2023-07-23 12:51:24 - Minimum clock cycle time (ns): 0.416  
2023-07-23 12:51:24 - Maximum clock cycle time (ns): 1.010  
2023-07-23 12:51:24 - Maximum clock speed: 2400 MHz  
2023-07-23 12:51:24 - Maximum module speed: 4800 MT/s (PC5-38400)  
2023-07-23 12:51:24 - Supported CAS: 22 26 28 30 32 36 40 42  
2023-07-23 12:51:24 - Minimum CAS latency time (tAA): 16.000  
2023-07-23 12:51:24 - Minimum RAS to CAS delay time (tRCD): 16.000  
2023-07-23 12:51:24 - Minimum row precharge time (tRP): 16.000  
2023-07-23 12:51:24 - Minimum active to precharge time (tRAS): 32.000  
2023-07-23 12:51:24 - Supported timing at highest clock speed (2400 MHz)  
: 39-39-39-77  
2023-07-23 12:51:24 - SPD present: Yes  
2023-07-23 12:51:24 - SPD device type: SPD5118  
2023-07-23 12:51:24 - PMIC 0 present: Yes  
2023-07-23 12:51:24 - PMIC 0 device type: PMIC5100  
2023-07-23 12:51:24 - PMIC 1 present: No  
2023-07-23 12:51:24 - PMIC 1 device type: PMIC5010  
2023-07-23 12:51:24 - PMIC 2 present: No  
2023-07-23 12:51:24 - PMIC 2 device type: PMIC5010  
2023-07-23 12:51:24 - Thermal Sensor 0 present: No  
2023-07-23 12:51:24 - Thermal Sensor 1 present: No  
2023-07-23 12:51:24 - Module Height (mm): 31 - 32  
2023-07-23 12:51:24 - Module Thickness (mm): front 1-2 , back 1-2  
2023-07-23 12:51:24 - Module reference card: Raw Card A Rev. 0  
2023-07-23 12:51:24 - Rank Mix: Symmetrical  
2023-07-23 12:51:24 - Number of Package Ranks per Channel: 1  
2023-07-23 12:51:24 - Number of Channels per DIMM: 2  
2023-07-23 12:51:24 - Bus width extension per Channel: 0 bits  
2023-07-23 12:51:24 - Primary bus width per Channel: 32 bits  
2023-07-23 12:51:24 - Module Manufacturer: Apacer Technology (Bank: 2, ID: 0x7A)  
2023-07-23 12:51:24 - Module manufacturing location: 0x11  
2023-07-23 12:51:24 - Manufacturing Date: Year 2023 Week 6  
2023-07-23 12:51:24 - Module serial number: 0x08023064  
2023-07-23 12:51:24 - Module Part Number: GD2.42312H.002  
2023-07-23 12:51:24 - Revision Code: 0x00  
2023-07-23 12:51:24 - DRAM Manufacturer: SK Hynix (Bank: 1, ID: 0xAD)  
2023-07-23 12:51:24 - DRAM Stepping: 0xFF  
2023-07-23 12:51:24 - Module Manufacturer's Specific Data raw bytes:

2023-07-23 12:51:24 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
2023-07-23 12:51:24 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
2023-07-23 12:51:25 - XMP supported: Yes  
2023-07-23 12:51:25 - XMP version: 3.0  
2023-07-23 12:51:25 - XMP PMIC Vendor ID: 8A8C  
2023-07-23 12:51:25 - XMP number of PMICs: 1  
2023-07-23 12:51:25 - XMP PMIC OC capabilities (capable: Yes, enabled: Yes, voltage default step size: 5mV, global reset function: Disabled)  
2023-07-23 12:51:25 - XMP spec revision: 0.0  
2023-07-23 12:51:25 - XMP Validation and Certification Capabilities (Self-certified: No, PMIC validated by Intel AVL level: No)  
2023-07-23 12:51:25 - XMP Base Configuration Section CRC16: 0x09AD  
2023-07-23 12:51:25 - [XMP Profile 1] Profile enabled: Yes (certified: No)  
2023-07-23 12:51:25 - [XMP Profile 1] recommended DIMMs per channel: 1  
2023-07-23 12:51:25 - [XMP Profile 1] profile name: DDR5 6000 CL40  
2023-07-23 12:51:25 - Module VPP Voltage Level: 1.8V  
2023-07-23 12:51:25 - Module VDD Voltage Level: 1.35V  
2023-07-23 12:51:25 - Module VDDQ Voltage Level: 1.35V  
2023-07-23 12:51:25 - Memory controller Voltage Level: 1.1V  
2023-07-23 12:51:25 - SDRAM Minimum Cycle Time (tCKAVGmin): 0.333  
2023-07-23 12:51:25 - Maximum clock speed: 3000 MHz  
2023-07-23 12:51:25 - Supported CAS: 38  
2023-07-23 12:51:25 - Minimum CAS Latency Time (tAmin): 13.250  
2023-07-23 12:51:25 - Minimum RAS to CAS Delay Time (tRCDmin): 13.250  
2023-07-23 12:51:25 - Minimum Row Precharge Delay Time (tRPmin): 13.250  
2023-07-23 12:51:25 - Minimum Active to Precharge Delay Time (tRASmin): 31.875  
2023-07-23 12:51:25 - Minimum Active to Active/Refresh Delay Time (tRCmin): 45.125  
2023-07-23 12:51:25 - Minimum Write Recovery Time (tWRmin): 30.000  
2023-07-23 12:51:25 - Minimum Refresh Recovery Delay Time (tRFC1min): 295.000  
2023-07-23 12:51:25 - Minimum Refresh Recovery Delay Time (tRFC2min): 160.000  
2023-07-23 12:51:25 - Minimum Refresh Recovery Delay Time (tRFCsb): 130.000  
2023-07-23 12:51:25 - Minimum Read to Read Command Delay Time, Same Bank Group (tCCD\_L): 0.000  
2023-07-23 12:51:25 - Minimum Write to Write Command Delay Time, Same Bank Group (tCCD\_L\_WR): 0.000  
2023-07-23 12:51:25 - SDRAM Minimum Write to Write Command Delay Time, Second Write not RMW, Same Bank Group (tCCD\_L\_WR2): 0.000  
2023-07-23 12:51:25 - SDRAM Minimum Write to Read Command Delay Time, Same Bank Group (tCCD\_L\_WTR): 0.000  
2023-07-23 12:51:25 - SDRAM Minimum Write to Read Command Delay Time, Different Bank Group (tCCD\_S\_WTR): 0.000  
2023-07-23 12:51:25 - SDRAM Minimum Active to Active Command Delay Time, Same Bank Group (tRRD\_L): 0.000  
2023-07-23 12:51:25 - SDRAM Minimum Read to Precharge Command Delay Time, (tRTP): 0.000  
2023-07-23 12:51:25 - SDRAM Minimum Four Activate Window (tFAW min): 0.000

[illegible]

```
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 DA A2
2023-07-23 12:51:26 - 01 7A 11 23 06 08 02 30 64 47 44 32 2E 34 32 33
2023-07-23 12:51:26 - 31 32 48 2E 30 30 32 20 20 20 20 20 20 20 20 20
2023-07-23 12:51:26 - 20 20 20 20 20 20 20 00 80 AD FF 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:26 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 0C 4A 30 01 00 8A 8C 01 03 00 00 00 00 00 44 44
2023-07-23 12:51:27 - 52 35 20 36 30 30 30 20 43 4C 34 30 20 20 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 AD 09
2023-07-23 12:51:27 - 30 27 27 00 22 4D 01 00 02 00 00 00 00 C2 33 C2
2023-07-23 12:51:27 - 33 C2 33 83 7C 45 B0 30 75 27 01 A0 00 82 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 8E 70
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 45 58 50 4F 10 03 01 00 00 00 27 27 30 00 4D 01
2023-07-23 12:51:27 - C2 33 C2 33 C2 33 83 7C 45 B0 30 75 27 01 A0 00
2023-07-23 12:51:27 - 82 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2023-07-23 12:51:27 - RAM type: DDR5
2023-07-23 12:51:27 - SPD rev: 0x10
2023-07-23 12:51:27 - Calculated CRC16 (9311) does not match stored CRC16
(A2DA)
2023-07-23 12:51:27 - Module type: UDIMM
2023-07-23 12:51:27 - Size: 16384 MB
2023-07-23 12:51:27 - Banks x Rows x Columns x Bits: 32 x 16 x 10 x 32
2023-07-23 12:51:27 - Ranks: 1
2023-07-23 12:51:27 - SDRAM Device Width: 8
2023-07-23 12:51:27 - SDRAM Package Type: Monolithic SDRAM
2023-07-23 12:51:27 - Operable voltages: 1.1V
2023-07-23 12:51:27 - SDRAM Nominal Voltage, VDD: 1.1V
2023-07-23 12:51:27 - SDRAM Nominal Voltage, VDDQ: 1.1V
2023-07-23 12:51:27 - SDRAM Nominal Voltage, VPP: 1.8V
```

2023-07-23 12:51:27 - ECC: No  
2023-07-23 12:51:27 - Minimum clock cycle time (ns): 0.416  
2023-07-23 12:51:27 - Maximum clock cycle time (ns): 1.010  
2023-07-23 12:51:27 - Maximum clock speed: 2400 MHz  
2023-07-23 12:51:27 - Maximum module speed: 4800 MT/s (PC5-38400)  
2023-07-23 12:51:27 - Supported CAS: 22 26 28 30 32 36 40 42  
2023-07-23 12:51:27 - Minimum CAS latency time (tAA): 16.000  
2023-07-23 12:51:27 - Minimum RAS to CAS delay time (tRCD): 16.000  
2023-07-23 12:51:27 - Minimum row precharge time (tRP): 16.000  
2023-07-23 12:51:27 - Minimum active to precharge time (tRAS): 32.000  
2023-07-23 12:51:27 - Supported timing at highest clock speed (2400 MHz)  
: 39-39-39-77  
2023-07-23 12:51:27 - SPD present: Yes  
2023-07-23 12:51:27 - SPD device type: SPD5118  
2023-07-23 12:51:27 - PMIC 0 present: Yes  
2023-07-23 12:51:27 - PMIC 0 device type: PMIC5100  
2023-07-23 12:51:27 - PMIC 1 present: No  
2023-07-23 12:51:27 - PMIC 1 device type: PMIC5010  
2023-07-23 12:51:27 - PMIC 2 present: No  
2023-07-23 12:51:27 - PMIC 2 device type: PMIC5010  
2023-07-23 12:51:27 - Thermal Sensor 0 present: No  
2023-07-23 12:51:27 - Thermal Sensor 1 present: No  
2023-07-23 12:51:27 - Module Height (mm): 31 - 32  
2023-07-23 12:51:28 - Module Thickness (mm): front 1-2 , back 1-2  
2023-07-23 12:51:28 - Module reference card: Raw Card A Rev. 0  
2023-07-23 12:51:28 - Rank Mix: Symmetrical  
2023-07-23 12:51:28 - Number of Package Ranks per Channel: 1  
2023-07-23 12:51:28 - Number of Channels per DIMM: 2  
2023-07-23 12:51:28 - Bus width extension per Channel: 0 bits  
2023-07-23 12:51:28 - Primary bus width per Channel: 32 bits  
2023-07-23 12:51:28 - Module Manufacturer: Apacer Technology (Bank: 2,  
ID: 0x7A)  
2023-07-23 12:51:28 - Module manufacturing location: 0x11  
2023-07-23 12:51:28 - Manufacturing Date: Year 2023 Week 6  
2023-07-23 12:51:28 - Module serial number: 0x08023064  
2023-07-23 12:51:28 - Module Part Number: GD2.42312H.002  
2023-07-23 12:51:28 - Revision Code: 0x00  
2023-07-23 12:51:28 - DRAM Manufacturer: SK Hynix (Bank: 1, ID: 0xAD)  
2023-07-23 12:51:28 - DRAM Stepping: 0xFF  
2023-07-23 12:51:28 - Module Manufacturer's Specific Data raw bytes:  
2023-07-23 12:51:28 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
2023-07-23 12:51:28 - 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  
2023-07-23 12:51:28 - XMP supported: Yes  
2023-07-23 12:51:28 - XMP version: 3.0  
2023-07-23 12:51:28 - XMP PMIC Vendor ID: 8A8C  
2023-07-23 12:51:28 - XMP number of PMICs: 1  
2023-07-23 12:51:28 - XMP PMIC OC capabilities (capable: Yes, enabled:  
Yes, voltage default step size: 5mV, global reset function: Disabled)  
2023-07-23 12:51:28 - XMP spec revision: 0.0  
2023-07-23 12:51:28 - XMP Validation and Certification Capabilities  
(Self-certified: No, PMIC validated by Intel AVL level: No  
2023-07-23 12:51:28 - XMP Base Configuration Section CRC16: 0x09AD  
2023-07-23 12:51:28 - [XMP Profile 1] Profile enabled: Yes (certified:  
No)

2023-07-23 12:51:28 - [XMP Profile 1] recommended DIMMs per channel: 1  
2023-07-23 12:51:28 - [XMP Profile 1] profile name: DDR5 6000 CL40  
2023-07-23 12:51:28 - Module VPP Voltage Level: 1.8V  
2023-07-23 12:51:28 - Module VDD Voltage Level: 1.35V  
2023-07-23 12:51:28 - Module VDDQ Voltage Level: 1.35V  
2023-07-23 12:51:28 - Memory controller Voltage Level: 1.1V  
2023-07-23 12:51:28 - SDRAM Minimum Cycle Time (tCKAVGmin): 0.333  
2023-07-23 12:51:28 - Maximum clock speed: 3000 MHz  
2023-07-23 12:51:28 - Supported CAS: 38  
2023-07-23 12:51:28 - Minimum CAS Latency Time (tAmin): 13.250  
2023-07-23 12:51:28 - Minimum RAS to CAS Delay Time (tRCDmin): 13.250  
2023-07-23 12:51:28 - Minimum Row Precharge Delay Time (tRPmin): 13.250  
2023-07-23 12:51:28 - Minimum Active to Precharge Delay Time (tRASmin):  
31.875  
2023-07-23 12:51:28 - Minimum Active to Active/Refresh Delay Time  
(tRCmin): 45.125  
2023-07-23 12:51:30 - Minimum Write Recovery Time (tWRmin): 30.000  
2023-07-23 12:51:30 - Minimum Refresh Recovery Delay Time (tRFC1min):  
295.000  
2023-07-23 12:51:30 - Minimum Refresh Recovery Delay Time (tRFC2min):  
160.000  
2023-07-23 12:51:30 - Minimum Refresh Recovery Delay Time (tRFCsb):  
130.000  
2023-07-23 12:51:30 - Minimum Read to Read Command Delay Time, Same  
Bank Group (tCCD\_L): 0.000  
2023-07-23 12:51:30 - Minimum Write to Write Command Delay Time, Same  
Bank Group (tCCD\_L\_WR): 0.000  
2023-07-23 12:51:30 - SDRAM Minimum Write to Write Command Delay Time,  
Second Write not RMW, Same Bank Group (tCCD\_L\_WR2): 0.000  
2023-07-23 12:51:30 - SDRAM Minimum Write to Read Command Delay Time,  
Same Bank Group (tCCD\_L\_WTR): 0.000  
2023-07-23 12:51:30 - SDRAM Minimum Write to Read Command Delay Time,  
Different Bank Group (tCCD\_S\_WTR): 0.000  
2023-07-23 12:51:30 - SDRAM Minimum Active to Active Command Delay  
Time, Same Bank Group (tRRD\_L): 0.000  
2023-07-23 12:51:30 - SDRAM Minimum Read to Precharge Command Delay  
Time, (tRTP): 0.000  
2023-07-23 12:51:30 - SDRAM Minimum Four Activate Window (tFAW min):  
0.000  
2023-07-23 12:51:30 - Advanced Memory Overclocking Features: Real-Time  
Memory Frequency Overclocking: not supported, Intel® Dynamic Memory  
Boost: not supported  
2023-07-23 12:51:30 - System CMD Rate Mode: 0n  
2023-07-23 12:51:30 - Vendor Personality Byte: 00  
2023-07-23 12:51:30 - [XMP Profile 2] Profile enabled: No (certified: No)  
2023-07-23 12:51:30 - [XMP Profile 2] recommended DIMMs per channel: 1  
2023-07-23 12:51:30 - [XMP Profile 3] Profile enabled: No (certified: No)  
2023-07-23 12:51:30 - [XMP Profile 3] recommended DIMMs per channel: 1  
2023-07-23 12:51:30 - [XMP Profile 4] User profile  
2023-07-23 12:51:30 - [XMP Profile 5] User profile  
2023-07-23 12:51:30 - DIMM#1 (Channel -1, Slot -1) serial number:  
08023064  
2023-07-23 12:51:30 - Previous MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)  
2023-07-23 12:51:30 - Writing MMIO PM DECODEEN: E30F0BF7 (smbus0sel=1)

2023-07-23 12:51:30 - Restoring MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)  
2023-07-23 12:51:30 - Previous MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)  
2023-07-23 12:51:30 - Writing MMIO PM DECODEEN: E3170BF7 (smbus0sel=2)  
2023-07-23 12:51:30 - Restoring MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)  
2023-07-23 12:51:30 - Previous MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)  
2023-07-23 12:51:30 - Writing MMIO PM DECODEEN: E31F0BF7 (smbus0sel=3)  
2023-07-23 12:51:30 - Restoring MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)  
2023-07-23 12:51:30 - Enumerating PCI bus...  
2023-07-23 12:51:30 - Scanning PCI for devices:  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:30 - 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 [AMD Unknown]  
2023-07-23 12:51:31 - 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 [AMD Unknown]  
2023-07-23 12:51:31 - MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)  
2023-07-23 12:51:31 - {00:14:00} SMBus Configuration Registers:  
2023-07-23 12:51:31 - 00: 790B1022 02200403 0C050071 00800000  
2023-07-23 12:51:31 - 10: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - 20: 00000000 00000000 00000000 7D771462  
2023-07-23 12:51:31 - 30: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - 40: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - 50: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - 60: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - 70: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - 80: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - 90: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - A0: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - B0: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - C0: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - D0: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - E0: 00000000 00000000 00000000 00000000  
2023-07-23 12:51:31 - F0: 0000FEAF 00000000 00000000 00000000  
2023-07-23 12:51:31 - 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]



[illegible]

2023-07-23 12:51:31 - VID:14C3 DID:0616 Bus:0D Dev:00 Fun:00 IO Add:0000  
IO (2) Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 [Unknown  
Unknown]  
2023-07-23 12:51:31 - VID:1022 DID:43F7 Bus:0E Dev:00 Fun:00 IO Add:0000  
IO (2) Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:01 [AMD Unknown]  
2023-07-23 12:51:31 - VID:1022 DID:43F6 Bus:0F Dev:00 Fun:00 IO Add:0000  
IO (2) Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:01 [AMD Unknown]  
2023-07-23 12:51:31 - VID:1022 DID:14DE Bus:10 Dev:00 Fun:00 IO Add:0000  
IO (2) Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:C3 [AMD Unknown]  
2023-07-23 12:51:31 - VID:1022 DID:1649 Bus:10 Dev:00 Fun:02 IO Add:0000  
IO (2) Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 [AMD Unknown]  
2023-07-23 12:51:31 - VID:1022 DID:15B6 Bus:10 Dev:00 Fun:03 IO Add:0000  
IO (2) Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 [AMD Unknown]  
2023-07-23 12:51:31 - VID:1022 DID:15B7 Bus:10 Dev:00 Fun:04 IO Add:0000  
IO (2) Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 [AMD Unknown]  
2023-07-23 12:51:31 - VID:1022 DID:15E3 Bus:10 Dev:00 Fun:06 IO Add:0000  
IO (2) Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 [AMD Unknown]  
2023-07-23 12:51:31 - VID:1022 DID:15B8 Bus:11 Dev:00 Fun:00 IO Add:0000  
IO (2) Add:0000 MMIO Add:0 PCI Add:{00:00:00:0000} Rev:00 [AMD Unknown]  
2023-07-23 12:51:31 - Finished searching PCI for SMBus Controller  
2023-07-23 12:51:31 - Getting SMBIOS Memory Device info...  
2023-07-23 12:51:31 - Found 4 Memory Devices  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct 0  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct Get strings  
(FormattedLen=92, iTotalLen=91)  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct: String area  
len=53  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct: parsing v2.3+  
strings  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct: parsing v3.2+  
strings  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct end  
2023-07-23 12:51:31 - [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  
2023-07-23 12:51:31 - [Slot 0] DeviceLocator: DIMMA1, BankLocator: P0  
CHANNEL A, Manufacturer: Unknown, S/N: Unknown, AssetTag: , PartNumber:  
Unknown  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct 1  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct Get strings  
(FormattedLen=92, iTotalLen=9F)  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct: String area  
len=67  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct: parsing v2.3+  
strings  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct: parsing v3.2+  
strings  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct end  
2023-07-23 12:51:31 - [Slot 1] TotalWidth: 64, DataWidth: 64, Size:  
16384, FormFactor: 9, DeviceSet: 0, MemoryType: 34, Speed: 4800,  
Attributes: 1, ExtendedSize: 0, ConfiguredMemoryClockSpeed: 4800,  
MinimumVoltage: 1100, MaximumVoltage: 1100, ConfiguredVoltage: 1100

2023-07-23 12:51:31 - [Slot 1] DeviceLocator: DIMMA2, BankLocator: P0  
CHANNEL A, Manufacturer: Unknown, S/N: 08023064, AssetTag: , PartNumber:  
GD2.42312H.002  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct 2  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct Get strings  
(FormattedLen=92, iTotalLen=91)  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct: String area  
len=53  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct: parsing v2.3+  
strings  
2023-07-23 12:51:31 - DEBUG: Get SMB mem device Struct: parsing v3.2+  
strings  
2023-07-23 12:51:32 - DEBUG: Get SMB mem device Struct end  
2023-07-23 12:51:32 - [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  
2023-07-23 12:51:32 - [Slot 2] DeviceLocator: DIMMB1, BankLocator: P0  
CHANNEL B, Manufacturer: Unknown, S/N: Unknown, AssetTag: , PartNumber:  
Unknown  
2023-07-23 12:51:32 - DEBUG: Get SMB mem device Struct 3  
2023-07-23 12:51:32 - DEBUG: Get SMB mem device Struct Get strings  
(FormattedLen=92, iTotalLen=9F)  
2023-07-23 12:51:32 - DEBUG: Get SMB mem device Struct: String area  
len=67  
2023-07-23 12:51:32 - DEBUG: Get SMB mem device Struct: parsing v2.3+  
strings  
2023-07-23 12:51:32 - DEBUG: Get SMB mem device Struct: parsing v3.2+  
strings  
2023-07-23 12:51:32 - DEBUG: Get SMB mem device Struct end  
2023-07-23 12:51:32 - [Slot 3] TotalWidth: 64, DataWidth: 64, Size:  
16384, FormFactor: 9, DeviceSet: 0, MemoryType: 34, Speed: 4800,  
Attributes: 1, ExtendedSize: 0, ConfiguredMemoryClockSpeed: 4800,  
MinimumVoltage: 1100, MaximumVoltage: 1100, ConfiguredVoltage: 1100  
2023-07-23 12:51:32 - [Slot 3] DeviceLocator: DIMMB2, BankLocator: P0  
CHANNEL B, Manufacturer: Unknown, S/N: 08023064, AssetTag: , PartNumber:  
GD2.42312H.002  
2023-07-23 12:51:32 - Number of non-empty SMBIOS memory devices found: 2  
2023-07-23 12:51:32 - [SPD 0] Comparing SMBIOS S/N (08023064) with SPD  
S/N (08023064)  
2023-07-23 12:51:32 - [SPD 0] SMBIOS S/N = 08023064  
2023-07-23 12:51:32 - [SPD 0] Found match with SMBIOS 1  
2023-07-23 12:51:32 - [SPD 1] Comparing SMBIOS S/N (08023064) with SPD  
S/N (08023064)  
2023-07-23 12:51:32 - [SPD 1] SMBIOS S/N = 08023064  
2023-07-23 12:51:32 - [SPD 1] Found match with SMBIOS 3  
2023-07-23 12:51:32 - Attempting to enable any disabled TSOD  
controllers...  
2023-07-23 12:51:32 - Attempting to enable SMBUS:  
2023-07-23 12:51:32 - Searching PCI for TSOD Controller  
2023-07-23 12:51:32 - MMIO PM DECODEEN: E3070BF7 (smbus0sel=0)  
2023-07-23 12:51:32 - {00:14:00} SMBus Configuration Registers:  
2023-07-23 12:51:32 - 00: 790B1022 02200403 0C050071 00800000  
2023-07-23 12:51:32 - 10: 00000000 00000000 00000000 00000000

```

2023-07-23 12:51:32 - 20: 00000000 00000000 00000000 7D771462
2023-07-23 12:51:32 - 30: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - 40: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - 50: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - 60: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - 70: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - 80: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - 90: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - A0: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - B0: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - C0: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - D0: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - E0: 00000000 00000000 00000000 00000000
2023-07-23 12:51:32 - F0: 0000FEAF 00000000 00000000 00000000
2023-07-23 12:51:32 - 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]
2023-07-23 12:51:32 - Finished searching PCI for SMBus Controller
2023-07-23 12:51:32 - Expanding TSOD info array (0 => 16)
2023-07-23 12:51:32 - Parsing command line: ""
2023-07-23 12:51:32 - Successfully located the PI MpService protocol.
2023-07-23 12:51:32 - BSP is Proc 0
2023-07-23 12:51:32 - This platform has 16 logical processors of which 16
are enabled.
2023-07-23 12:51:32 - ProcID   Enabled   Type     Status   Pkg     Core
Thread Hyperthread?
2023-07-23 12:51:32 - -----
---
2023-07-23 12:51:32 - Get Proc Info Proc #0
2023-07-23 12:51:32 - 00000000      Y      BSP   00000007      0      0
0      N
2023-07-23 12:51:32 - Get Proc Info Proc #1
2023-07-23 12:51:32 - 00000001      Y      AP    00000006      0      0
1      Y
2023-07-23 12:51:32 - Get Proc Info Proc #2
2023-07-23 12:51:32 - 00000002      Y      AP    00000006      0      1
0      N
2023-07-23 12:51:32 - Get Proc Info Proc #3
2023-07-23 12:51:32 - 00000003      Y      AP    00000006      0      1
1      Y
2023-07-23 12:51:32 - Get Proc Info Proc #4
2023-07-23 12:51:32 - 00000004      Y      AP    00000006      0      2
0      N
2023-07-23 12:51:32 - Get Proc Info Proc #5
2023-07-23 12:51:32 - 00000005      Y      AP    00000006      0      2
1      Y
2023-07-23 12:51:32 - Get Proc Info Proc #6
2023-07-23 12:51:32 - 00000006      Y      AP    00000006      0      3
0      N
2023-07-23 12:51:32 - Get Proc Info Proc #7
2023-07-23 12:51:32 - 00000007      Y      AP    00000006      0      3
1      Y
2023-07-23 12:51:32 - Get Proc Info Proc #8

```

```

2023-07-23 12:51:32 - 00000008      Y      AP  00000006      0      4
0      N
2023-07-23 12:51:32 - Get Proc Info Proc #9
2023-07-23 12:51:32 - 00000009      Y      AP  00000006      0      4
1      Y
2023-07-23 12:51:32 - Get Proc Info Proc #10
2023-07-23 12:51:32 - 0000000A      Y      AP  00000006      0      5
0      N
2023-07-23 12:51:32 - Get Proc Info Proc #11
2023-07-23 12:51:32 - 0000000B      Y      AP  00000006      0      5
1      Y
2023-07-23 12:51:32 - Get Proc Info Proc #12
2023-07-23 12:51:32 - 0000000C      Y      AP  00000006      0      6
0      N
2023-07-23 12:51:32 - Get Proc Info Proc #13
2023-07-23 12:51:32 - 0000000D      Y      AP  00000006      0      6
1      Y
2023-07-23 12:51:32 - Get Proc Info Proc #14
2023-07-23 12:51:32 - 0000000E      Y      AP  00000006      0      7
0      N
2023-07-23 12:51:32 - Get Proc Info Proc #15
2023-07-23 12:51:32 - 0000000F      Y      AP  00000006      0      7
1      Y
2023-07-23 12:51:32 - Package      ProcNum
2023-07-23 12:51:32 -      0      0
2023-07-23 12:51:32 - This platform has 16 logical processors of which 16
are enabled.
2023-07-23 12:51:32 - Number of hyperthreads detected: 8 (Total threads:
16)
2023-07-23 12:51:32 - Disabling all hyperthreads
2023-07-23 12:51:33 - Disabling hyperthread processor 1
2023-07-23 12:51:33 - Disabling hyperthread processor 3
2023-07-23 12:51:33 - Disabling hyperthread processor 5
2023-07-23 12:51:33 - Disabling hyperthread processor 7
2023-07-23 12:51:33 - Disabling hyperthread processor 9
2023-07-23 12:51:33 - Disabling hyperthread processor 11
2023-07-23 12:51:33 - Disabling hyperthread processor 13
2023-07-23 12:51:33 - Disabling hyperthread processor 15
2023-07-23 12:51:33 - Testing MP support
2023-07-23 12:51:33 - MPSSupportTestMPSServices - AP dispatch test
2023-07-23 12:51:33 - MPSSupportTestMPSServices - Starting AP#2
2023-07-23 12:51:33 - MPSSupportTestMPSServices - Starting AP#4
2023-07-23 12:51:33 - MPSSupportTestMPSServices - Starting AP#6
2023-07-23 12:51:33 - MPSSupportTestMPSServices - Starting AP#8
2023-07-23 12:51:33 - MPSSupportTestMPSServices - Starting AP#10
2023-07-23 12:51:33 - MPSSupportTestMPSServices - Starting AP#12
2023-07-23 12:51:33 - MPSSupportTestMPSServices - Starting AP#14
2023-07-23 12:51:33 - MPSSupportTestMPSServices - Waiting for AP's to
complete execution
2023-07-23 12:51:34 - MPSSupportTestMPSServices - CPU #6 finished execution
2023-07-23 12:51:34 - MPSSupportTestMPSServices - CPU #8 finished execution
2023-07-23 12:51:34 - MPSSupportTestMPSServices - CPU #10 finished
execution

```

2023-07-23 12:51:34 - MPSupportTestMPServices - CPU #12 finished execution  
2023-07-23 12:51:34 - MPSupportTestMPServices - CPU #14 finished execution  
2023-07-23 12:51:34 - MPSupportTestMPServices - CPU #2 finished execution  
2023-07-23 12:51:34 - MPSupportTestMPServices - CPU #4 finished execution  
2023-07-23 12:51:34 - MPSupportTestMPServices - AP dispatch test complete  
2023-07-23 12:51:34 - MP test passed. Setting default CPU mode to PARALLEL  
2023-07-23 12:51:34 - Getting memory controller info  
2023-07-23 12:51:34 - find\_mem\_controller - found AMD Ryzen Zen 4 (60h-6fh) (1022:14E2) at 0-24-2  
2023-07-23 12:51:34 - AMD Ryzen Zen 4 chipset init  
2023-07-23 12:51:34 - MmioCfgBaseAddr=00000000F000001D (Enable=1)  
2023-07-23 12:51:34 - MCHBAR=F0000000  
2023-07-23 12:51:34 - CfgAddressCntl = 00000000 (SecBusNum=00)  
2023-07-23 12:51:34 - CUID[0x00000001]:EDX[31:0] = 178BFBFF (MCA=1)  
2023-07-23 12:51:34 - CUID[0x80000007]:EBX[31:0] = 0000003B (PfehSupportPresent=1, ScalableMCA=1)  
2023-07-23 12:51:34 - PFEH\_CFG=0000000000000000 (PfehEnable=0)  
2023-07-23 12:51:34 - PFEH\_CLOAK\_CFG=0000000000000000  
2023-07-23 12:51:34 - MCG\_CAP=000000000000011D (Count=29)  
2023-07-23 12:51:34 - SdpCtrl[0]=C0800083 (SdpInit=1)  
2023-07-23 12:51:34 - [MC0] DramConfiguration=80050960  
2023-07-23 12:51:34 - [MC0] DebugMisc=0B0008F8  
2023-07-23 12:51:34 - [MC0] DramTiming1=27274D28  
2023-07-23 12:51:34 - [MC0] DramTiming2=00270074  
2023-07-23 12:51:34 - [MC0] DramTiming3=12000C08  
2023-07-23 12:51:34 - [MC0] DramTiming4=00000020  
2023-07-23 12:51:34 - [MC0] DramTiming5=00180626  
2023-07-23 12:51:34 - [MC0] DramTiming6=00000048  
2023-07-23 12:51:34 - [MC0] DramTiming7=00000002  
2023-07-23 12:51:34 - [MC0] DramTiming8=05010606  
2023-07-23 12:51:34 - [MC0] DramTiming9=11010F0F  
2023-07-23 12:51:34 - [MC0] DramTiming10=00001307  
2023-07-23 12:51:34 - [MC0] DramTiming11=00312B48  
2023-07-23 12:51:34 - [MC0] DramTiming12=00302483  
2023-07-23 12:51:34 - [MC0] DramTiming13=20202222  
2023-07-23 12:51:34 - [MC0] DramTiming14=060002DC  
2023-07-23 12:51:34 - [MC0] DramTiming15=24002000  
2023-07-23 12:51:34 - [MC0] DramTiming16=03220C01  
2023-07-23 12:51:34 - [MC0] DramTiming17=FE60FF12  
2023-07-23 12:51:34 - [MC0] DramTiming18=001020C5  
2023-07-23 12:51:34 - [MC0] DramTiming19=00000101  
2023-07-23 12:51:34 - [MC0] DramTiming20=00070000  
2023-07-23 12:51:34 - [MC0] DramTiming21=000C0D12  
2023-07-23 12:51:34 - [MC0] DramTiming22=06221A1C  
2023-07-23 12:51:34 - [MC0] DramTiming23=22002A2A  
2023-07-23 12:51:34 - UmcCap[0]=0x0001FD08  
2023-07-23 12:51:34 - UmcCapHi[0]=0x00000000  
2023-07-23 12:51:34 - EccChipKillCap = 0 and EccEnabled = 0 for ch 0  
2023-07-23 12:51:34 - SdpCtrl[1]=C0800083 (SdpInit=1)  
2023-07-23 12:51:34 - [MC1] DramConfiguration=80050960  
2023-07-23 12:51:34 - [MC1] DebugMisc=0B0008F8

2023-07-23 12:51:34 - [MC1] DramTiming1=27274D28  
2023-07-23 12:51:34 - [MC1] DramTiming2=00270074  
2023-07-23 12:51:34 - [MC1] DramTiming3=12000C08  
2023-07-23 12:51:34 - [MC1] DramTiming4=00000020  
2023-07-23 12:51:34 - [MC1] DramTiming5=00180626  
2023-07-23 12:51:34 - [MC1] DramTiming6=00000048  
2023-07-23 12:51:34 - [MC1] DramTiming7=00000002  
2023-07-23 12:51:34 - [MC1] DramTiming8=05010606  
2023-07-23 12:51:34 - [MC1] DramTiming9=11010F0F  
2023-07-23 12:51:34 - [MC1] DramTiming10=00001407  
2023-07-23 12:51:34 - [MC1] DramTiming11=00312B48  
2023-07-23 12:51:34 - [MC1] DramTiming12=00302483  
2023-07-23 12:51:34 - [MC1] DramTiming13=20202222  
2023-07-23 12:51:34 - [MC1] DramTiming14=060002DC  
2023-07-23 12:51:34 - [MC1] DramTiming15=24002000  
2023-07-23 12:51:34 - [MC1] DramTiming16=03220C01  
2023-07-23 12:51:34 - [MC1] DramTiming17=FE60FF12  
2023-07-23 12:51:34 - [MC1] DramTiming18=001020C5  
2023-07-23 12:51:34 - [MC1] DramTiming19=00000101  
2023-07-23 12:51:35 - [MC1] DramTiming20=00070000  
2023-07-23 12:51:35 - [MC1] DramTiming21=000C0D12  
2023-07-23 12:51:35 - [MC1] DramTiming22=06241A1C  
2023-07-23 12:51:35 - [MC1] DramTiming23=22002A2A  
2023-07-23 12:51:35 - UmcCap[1]=0x0001FD08  
2023-07-23 12:51:35 - UmcCapHi[1]=0x00000000  
2023-07-23 12:51:35 - EccChipKillCap = 0 and EccEnabled = 0 for ch 1  
2023-07-23 12:51:35 - TOP\_MEM=00000000C0000000  
2023-07-23 12:51:35 - SYS\_CFG=0000000000740000 (MtrrTom2En=1)  
2023-07-23 12:51:35 - TOM2=0000000840000000  
2023-07-23 12:51:35 - [MC0] UmcConfig=80000701  
2023-07-23 12:51:35 - [MC0] FabricBlockInstanceInformation3=00000000  
2023-07-23 12:51:35 - [MC0] DramHoleControl=C0000001  
2023-07-23 12:51:35 - [MC0] DramOffset=00000000  
2023-07-23 12:51:35 - [MC0] SystemFabricIdMask0=0000003F  
2023-07-23 12:51:35 - [MC0] SystemFabricIdMask1=00000000  
2023-07-23 12:51:35 - [MC0] SystemFabricIdMask2=00000000  
2023-07-23 12:51:35 - [UMC0] BeqCtrl0: 00000008 (VcmEn=1)  
2023-07-23 12:51:35 - [UMC0] AddrHashPC: 3FFFC001  
2023-07-23 12:51:35 - [UMC0] AddrHashPC2: 00000000  
2023-07-23 12:51:35 - [MC0,n0] DramBaseAddress=00000000  
2023-07-23 12:51:35 - [MC0,n0] DramLimitAddress=00000083  
2023-07-23 12:51:35 - [MC0,n0] DramAddressCtl=00000703  
2023-07-23 12:51:35 - [MC0,n0] DramAddressIntlv=00000010  
2023-07-23 12:51:35 - [UMC0,n0] AddrHashCS: 00000000  
2023-07-23 12:51:35 - [UMC0, DIMM0] DimmCfg: 00000000  
2023-07-23 12:51:35 - [MC0,n1] DramBaseAddress=00000000  
2023-07-23 12:51:35 - [MC0,n1] DramLimitAddress=00000000  
2023-07-23 12:51:35 - [MC0,n1] DramAddressCtl=00000700  
2023-07-23 12:51:35 - [MC0,n1] DramAddressIntlv=00000000  
2023-07-23 12:51:35 - [UMC0,n1] AddrHashCS: 00000000  
2023-07-23 12:51:35 - [UMC0, DIMM1] DimmCfg: 00000000  
2023-07-23 12:51:35 - [UMC0, CS0] BaseAddr: 00000000  
2023-07-23 12:51:35 - [UMC0, CS0] BaseAddrSec: 00000000  
2023-07-23 12:51:35 - [UMC0, CS0] AddrMask: 00000000

2023-07-23 12:51:35 - [UMC0, CS0] AddrMaskSec: 00000000  
2023-07-23 12:51:35 - [UMC0, CS0] AddrCfg: 00150508  
2023-07-23 12:51:35 - [UMC0, CS0] AddrSel: 070CBA98  
2023-07-23 12:51:35 - [UMC0, CS0] ColSelLo: 87654321  
2023-07-23 12:51:35 - [UMC0, CS0] ColSelHi: A9876543  
2023-07-23 12:51:35 - [UMC0, CS0] RmSel: 00000000  
2023-07-23 12:51:35 - [UMC0, CS1] BaseAddr: 00000000  
2023-07-23 12:51:35 - [UMC0, CS1] BaseAddrSec: 00000000  
2023-07-23 12:51:35 - [UMC0, CS1] AddrMask: 00000000  
2023-07-23 12:51:35 - [UMC0, CS1] AddrMaskSec: 00000000  
2023-07-23 12:51:35 - [UMC0, CS1] AddrCfg: 00150508  
2023-07-23 12:51:35 - [UMC0, CS1] AddrSel: 070CBA98  
2023-07-23 12:51:35 - [UMC0, CS1] ColSelLo: 87654321  
2023-07-23 12:51:35 - [UMC0, CS1] ColSelHi: A9876543  
2023-07-23 12:51:35 - [UMC0, CS1] RmSel: 00000000  
2023-07-23 12:51:35 - [UMC0, CS2] BaseAddr: 00000001  
2023-07-23 12:51:35 - [UMC0, CS2] BaseAddrSec: 00000000  
2023-07-23 12:51:35 - [UMC0, CS2] AddrMask: 03FFFFFFE  
2023-07-23 12:51:35 - [UMC0, CS2] AddrMaskSec: 00000000  
2023-07-23 12:51:35 - [UMC0, CS2] AddrCfg: 0025060C  
2023-07-23 12:51:35 - [UMC0, CS2] AddrSel: 06074365  
2023-07-23 12:51:35 - [UMC0, CS2] ColSelLo: DCB53210  
2023-07-23 12:51:35 - [UMC0, CS2] ColSelHi: A9876098  
2023-07-23 12:51:35 - [UMC0, CS2] RmSel: 00010000  
2023-07-23 12:51:35 - [UMC0, CS3] BaseAddr: 00000000  
2023-07-23 12:51:35 - [UMC0, CS3] BaseAddrSec: 00000000  
2023-07-23 12:51:35 - [UMC0, CS3] AddrMask: 00000000  
2023-07-23 12:51:35 - [UMC0, CS3] AddrMaskSec: 00000000  
2023-07-23 12:51:35 - [UMC0, CS3] AddrCfg: 00150508  
2023-07-23 12:51:35 - [UMC0, CS3] AddrSel: 070CBA98  
2023-07-23 12:51:35 - [UMC0, CS3] ColSelLo: 87654321  
2023-07-23 12:51:35 - [UMC0, CS3] ColSelHi: A9876543  
2023-07-23 12:51:35 - [UMC0, CS3] RmSel: 00000000  
2023-07-23 12:51:35 - [MC1] UmcConfig=80000701  
2023-07-23 12:51:35 - [MC1] FabricBlockInstanceInformation3=00000101  
2023-07-23 12:51:35 - [MC1] DramHoleControl=C0000001  
2023-07-23 12:51:35 - [MC1] DramOffset=00000000  
2023-07-23 12:51:35 - [MC1] SystemFabricIdMask0=0000003F  
2023-07-23 12:51:35 - [MC1] SystemFabricIdMask1=00000000  
2023-07-23 12:51:35 - [MC1] SystemFabricIdMask2=00000000  
2023-07-23 12:51:35 - [UMC1] BeqCtrl0: 00000008 (VcmEn=1)  
2023-07-23 12:51:35 - [UMC1] AddrHashPC: 3FFFC001  
2023-07-23 12:51:35 - [UMC1] AddrHashPC2: 00000000  
2023-07-23 12:51:35 - [MC1,n0] DramBaseAddress=00000000  
2023-07-23 12:51:35 - [MC1,n0] DramLimitAddress=00000083  
2023-07-23 12:51:35 - [MC1,n0] DramAddressCtl=00000703  
2023-07-23 12:51:35 - [MC1,n0] DramAddressIntlv=00000010  
2023-07-23 12:51:35 - [UMC1,n0] AddrHashCS: 00000000  
2023-07-23 12:51:35 - [UMC1, DIMM0] DimmCfg: 00000000  
2023-07-23 12:51:35 - [MC1,n1] DramBaseAddress=00000000  
2023-07-23 12:51:35 - [MC1,n1] DramLimitAddress=00000000  
2023-07-23 12:51:36 - [MC1,n1] DramAddressCtl=00000700  
2023-07-23 12:51:36 - [MC1,n1] DramAddressIntlv=00000000  
2023-07-23 12:51:36 - [UMC1,n1] AddrHashCS: 00000000



```
2023-07-23 12:51:36 - [UMC1, DIMM1] DimmCfg: 00000000
2023-07-23 12:51:36 - [UMC1, CS0] BaseAddr: 00000000
2023-07-23 12:51:36 - [UMC1, CS0] BaseAddrSec: 00000000
2023-07-23 12:51:36 - [UMC1, CS0] AddrMask: 00000000
2023-07-23 12:51:36 - [UMC1, CS0] AddrMaskSec: 00000000
2023-07-23 12:51:36 - [UMC1, CS0] AddrCfg: 00150508
2023-07-23 12:51:36 - [UMC1, CS0] AddrSel: 070CBA98
2023-07-23 12:51:36 - [UMC1, CS0] ColSelLo: 87654321
2023-07-23 12:51:36 - [UMC1, CS0] ColSelHi: A9876543
2023-07-23 12:51:36 - [UMC1, CS0] RmSel: 00000000
2023-07-23 12:51:36 - [UMC1, CS1] BaseAddr: 00000000
2023-07-23 12:51:36 - [UMC1, CS1] BaseAddrSec: 00000000
2023-07-23 12:51:36 - [UMC1, CS1] AddrMask: 00000000
2023-07-23 12:51:36 - [UMC1, CS1] AddrMaskSec: 00000000
2023-07-23 12:51:36 - [UMC1, CS1] AddrCfg: 00150508
2023-07-23 12:51:36 - [UMC1, CS1] AddrSel: 070CBA98
2023-07-23 12:51:36 - [UMC1, CS1] ColSelLo: 87654321
2023-07-23 12:51:36 - [UMC1, CS1] ColSelHi: A9876543
2023-07-23 12:51:36 - [UMC1, CS1] RmSel: 00000000
2023-07-23 12:51:36 - [UMC1, CS2] BaseAddr: 00000001
2023-07-23 12:51:36 - [UMC1, CS2] BaseAddrSec: 00000000
2023-07-23 12:51:36 - [UMC1, CS2] AddrMask: 03FFFFFFE
2023-07-23 12:51:36 - [UMC1, CS2] AddrMaskSec: 00000000
2023-07-23 12:51:36 - [UMC1, CS2] AddrCfg: 0025060C
2023-07-23 12:51:36 - [UMC1, CS2] AddrSel: 06074365
2023-07-23 12:51:37 - [UMC1, CS2] ColSelLo: DCB53210
2023-07-23 12:51:37 - [UMC1, CS2] ColSelHi: A9876098
2023-07-23 12:51:37 - [UMC1, CS2] RmSel: 00010000
2023-07-23 12:51:37 - [UMC1, CS3] BaseAddr: 00000000
2023-07-23 12:51:37 - [UMC1, CS3] BaseAddrSec: 00000000
2023-07-23 12:51:37 - [UMC1, CS3] AddrMask: 00000000
2023-07-23 12:51:37 - [UMC1, CS3] AddrMaskSec: 00000000
2023-07-23 12:51:37 - [UMC1, CS3] AddrCfg: 00150508
2023-07-23 12:51:38 - [UMC1, CS3] AddrSel: 070CBA98
2023-07-23 12:51:38 - [UMC1, CS3] ColSelLo: 87654321
2023-07-23 12:51:38 - [UMC1, CS3] ColSelHi: A9876543
2023-07-23 12:51:38 - [UMC1, CS3] RmSel: 00000000
2023-07-23 12:51:38 - find_mem_controller - AMD Ryzen Zen 4 (60h-6fh)
(1022:14E2) at 0-24-2
2023-07-23 12:51:38 - find_mem_controller - AMD Ryzen Zen 4 (60h-6fh) (Ch
mode: 2, ECC mode: {detect: no, correct: no, scrub: no, chipkill: no,
IBECC: no})
2023-07-23 12:51:38 - ECC polling disabled
2023-07-23 12:51:38 - Applying configurations
2023-07-23 12:51:38 - [CONFIG] This platform has 16 logical processors of
which 8 are enabled.
2023-07-23 12:51:38 - [CONFIG] ECCPOLL cannot be enabled as ECC is not
available
2023-07-23 12:51:38 - Applying configurations complete
2023-07-23 12:51:38 - Console size = 80 x 25
2023-07-23 12:51:38 - Checking for graphics mode support
2023-07-23 12:51:38 - Graphics mode available
2023-07-23 12:51:38 - Enabling graphics mode
2023-07-23 12:51:38 - Get screen size
```

2023-07-23 12:51:38 - Current screen size: 800 x 600  
2023-07-23 12:51:38 - Screen resolution is too low (800 x 600).  
Attempting to set new screen size.  
2023-07-23 12:51:38 - Found eligible graphics mode: 0 [1920 x 1080]  
2023-07-23 12:51:38 - Found eligible graphics mode: 3 [1024 x 768]  
2023-07-23 12:51:38 - Found eligible graphics mode: 5 [1280 x 800]  
2023-07-23 12:51:38 - Found eligible graphics mode: 6 [1280 x 1024]  
2023-07-23 12:51:38 - Found eligible graphics mode: 7 [1366 x 768]  
2023-07-23 12:51:38 - Found eligible graphics mode: 8 [1440 x 900]  
2023-07-23 12:51:38 - Found eligible graphics mode: 9 [1400 x 1050]  
2023-07-23 12:51:38 - Found eligible graphics mode: 10 [1680 x 1050]  
2023-07-23 12:51:38 - Setting graphics mode to: 3 [1024 x 768]  
2023-07-23 12:51:38 - Successfully set graphics mode to: 3  
2023-07-23 12:51:38 - New screen size = 1024 x 768  
2023-07-23 12:51:38 - Screen size = 1024 x 768  
2023-07-23 12:51:38 - Char width=8 height=19  
2023-07-23 12:51:38 - Loading images  
2023-07-23 12:51:38 - Show splash screen  
2023-07-23 12:51:38 - Splash screen start time: 207692385030  
(clk=4500117, ConIn=AF465170, WaitForKey=AB3E9118)  
2023-07-23 12:51:48 - Splash screen countdown timer expired  
2023-07-23 12:51:48 - Exit splash screen  
2023-07-23 12:51:48 - Initializing spin lock (Align=64)  
2023-07-23 12:51:48 - \*\*\* TEST SESSION - 2023-07-23 12:51:48 \*\*\*  
2023-07-23 12:51:48 - CPU selection mode = 1  
2023-07-23 12:51:48 - poll\_timings\_ryzen - [MC0]  
DramConfiguration=80050960  
2023-07-23 12:51:48 - poll\_timings\_ryzen - [MC0] DebugMisc=0B0008F8  
2023-07-23 12:51:48 - poll\_timings\_ryzen - [MC1]  
DramConfiguration=80050960  
2023-07-23 12:51:48 - poll\_timings\_ryzen - [MC1] DebugMisc=0B0008F8  
2023-07-23 12:51:48 - ReadMemoryRanges - Available Pages = 8287288  
2023-07-23 12:51:48 - Locking all memory ranges first...  
2023-07-23 12:51:48 - Skipping memory range 0x0 - 0x9F000 (636KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0x100000 - 0x1000000 (15360KB). Range too small.  
2023-07-23 12:51:48 - Memory range locked: 0x1080000 - 0x9E02000 (33004248KB of available memory left)  
2023-07-23 12:51:48 - Skipping memory range 0xA000000 - 0xA200000 (2048KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA210000 - 0xB000000 (14272KB). Range too small.  
2023-07-23 12:51:48 - Memory range locked: 0xB021000 - 0x10000000 (32922460KB of available memory left)  
2023-07-23 12:51:48 - Memory range locked: 0x1000B000 - 0xA8793000 (30424380KB of available memory left)  
2023-07-23 12:51:48 - Skipping memory range 0xA89D3000 - 0xA906C000 (6756KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA92B6000 - 0xA9324000 (440KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA9366000 - 0xA9383000 (116KB). Range too small.

2023-07-23 12:51:48 - Skipping memory range 0xA9384000 - 0xA9386000 (8KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA939C000 - 0xA93A7000 (44KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA93B7000 - 0xA93D6000 (124KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA93E6000 - 0xA9426000 (256KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA9905000 - 0xA9A2D000 (1184KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA9A3E000 - 0xA9A4B000 (52KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA9A55000 - 0xA9A5F000 (40KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA9A77000 - 0xA9A7B000 (16KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xA9AA2000 - 0xA9AA3000 (4KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xAE247000 - 0xAE97C000 (7380KB). Range too small.  
2023-07-23 12:51:48 - Skipping memory range 0xBA600000 - 0xBA6B7000 (732KB). Range too small.  
2023-07-23 12:51:48 - Memory range locked: 0x100000000 - 0x83DF00000 (49468KB of available memory left)  
2023-07-23 12:51:48 - All memory ranges successfully locked  
2023-07-23 12:51:48 - Starting pass #1 (of 4)  
2023-07-23 12:51:48 - DIMM0 temperature: 39.000C  
2023-07-23 12:51:48 - DIMM1 temperature: 38.250C  
2023-07-23 12:51:48 - Current CPU temperature: 76C  
2023-07-23 12:51:48 - Running test #0 (Test 0 [Address test, walking ones, 1 CPU])  
2023-07-23 12:51:48 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 12:51:48 - MtSupportRunAllTests - Start time: 456 ms  
2023-07-23 12:51:48 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 12:51:48 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 12:51:48 - Start memory range test (0x0 - 0x10000000000)  
2023-07-23 12:51:49 - MtSupportRunAllTests - Test execution time: 0.790s (Test 0 cumulative error count: 0, buffer full count: 0)  
2023-07-23 12:51:49 - Running test #1 (Test 1 [Address test, own address, 1 CPU])  
2023-07-23 12:51:49 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 12:51:49 - MtSupportRunAllTests - Start time: 1310 ms  
2023-07-23 12:51:49 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 12:51:49 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 12:51:49 - Start memory range test (0x0 - 0x10000000000)  
2023-07-23 12:51:53 - MtSupportRunAllTests - Test execution time: 3.517s (Test 1 cumulative error count: 0, buffer full count: 0)

2023-07-23 12:51:53 - Running test #2 (Test 2 [Address test, own address])  
2023-07-23 12:51:53 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 12:51:53 - MtSupportRunAllTests - Start time: 4891 ms  
2023-07-23 12:51:53 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 12:51:53 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 12:51:53 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 12:51:59 - MtSupportRunAllTests - Test execution time: 6.423s (Test 2 cumulative error count: 0, buffer full count: 0)  
2023-07-23 12:51:59 - Running test #3 (Test 3 [Moving inversions, ones & zeroes])  
2023-07-23 12:51:59 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 12:51:59 - MtSupportRunAllTests - Start time: 11385 ms  
2023-07-23 12:51:59 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 12:51:59 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 12:51:59 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 12:52:12 - MtSupportRunAllTests - Test execution time: 12.827s (Test 3 cumulative error count: 0, buffer full count: 0)  
2023-07-23 12:52:12 - Running test #4 (Test 4 [Moving inversions, 8-bit pattern])  
2023-07-23 12:52:12 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 12:52:12 - MtSupportRunAllTests - Start time: 24276 ms  
2023-07-23 12:52:12 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 12:52:12 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 12:52:12 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 12:52:48 - DIMM0 temperature: 43.000C  
2023-07-23 12:52:48 - DIMM1 temperature: 42.500C  
2023-07-23 12:52:48 - Current CPU temperature: 67C  
2023-07-23 12:53:15 - MtSupportRunAllTests - Test execution time: 63.129s (Test 4 cumulative error count: 0, buffer full count: 0)  
2023-07-23 12:53:15 - Running test #5 (Test 5 [Moving inversions, random pattern])  
2023-07-23 12:53:15 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 12:53:15 - MtSupportRunAllTests - Start time: 87471 ms  
2023-07-23 12:53:15 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 12:53:15 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 12:53:15 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 12:53:49 - DIMM0 temperature: 45.250C  
2023-07-23 12:53:49 - DIMM1 temperature: 44.750C  
2023-07-23 12:53:49 - Current CPU temperature: 69C  
2023-07-23 12:54:20 - MtSupportRunAllTests - Test execution time: 64.819s (Test 5 cumulative error count: 0, buffer full count: 0)

2023-07-23 12:54:20 - Running test #6 (Test 6 [Block move, 64-byte blocks])  
2023-07-23 12:54:20 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 12:54:20 - MtSupportRunAllTests - Start time: 152355 ms  
2023-07-23 12:54:20 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 12:54:20 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 12:54:20 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 12:54:49 - DIMM0 temperature: 45.000C  
2023-07-23 12:54:49 - DIMM1 temperature: 44.500C  
2023-07-23 12:54:49 - Current CPU temperature: 52C  
2023-07-23 12:55:49 - DIMM0 temperature: 44.250C  
2023-07-23 12:55:49 - DIMM1 temperature: 43.750C  
2023-07-23 12:55:49 - Current CPU temperature: 52C  
2023-07-23 12:56:49 - DIMM0 temperature: 44.000C  
2023-07-23 12:56:49 - DIMM1 temperature: 43.500C  
2023-07-23 12:56:49 - Current CPU temperature: 52C  
2023-07-23 12:57:06 - MtSupportRunAllTests - Test execution time: 166.107s (Test 6 cumulative error count: 0, buffer full count: 0)  
2023-07-23 12:57:06 - Running test #7 (Test 7 [Moving inversions, 32-bit pattern])  
2023-07-23 12:57:06 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 12:57:06 - MtSupportRunAllTests - Start time: 318526 ms  
2023-07-23 12:57:06 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 12:57:06 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 12:57:06 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 12:57:49 - DIMM0 temperature: 45.750C  
2023-07-23 12:57:49 - DIMM1 temperature: 45.250C  
2023-07-23 12:57:49 - Current CPU temperature: 72C  
2023-07-23 12:58:49 - DIMM0 temperature: 47.000C  
2023-07-23 12:58:49 - DIMM1 temperature: 46.500C  
2023-07-23 12:58:49 - Current CPU temperature: 73C  
2023-07-23 12:59:49 - DIMM0 temperature: 47.750C  
2023-07-23 12:59:49 - DIMM1 temperature: 47.250C  
2023-07-23 12:59:49 - Current CPU temperature: 73C  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89C0, Expected: 00010000, Actual: 00000020  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89C4, Expected: 00020000, Actual: 00000020  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89C8, Expected: 00040000, Actual: FFFFFFFDF  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89CC, Expected: 00080000, Actual: FFFFFFFDF  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89D0, Expected: 00100000, Actual: 00000020  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89D4, Expected: 00200000, Actual: 00000020  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89D8, Expected: 00400000, Actual: FFFFFFFDF

2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89DC, Expected: 00800000, Actual: FFFFFFFDF  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89E0, Expected: 01000000, Actual: 00000040  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89E4, Expected: 02000000, Actual: 00000040  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89E8, Expected: 04000000, Actual: 00000040  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89EC, Expected: 08000000, Actual: 00000040  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89F0, Expected: 10000000, Actual: FFFFFFFBF  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89F4, Expected: 20000000, Actual: FFFFFFFBF  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89F8, Expected: 40000000, Actual: 00000040  
2023-07-23 13:00:41 - [MEM ERROR - Data] Test: 7, CPU: 6, Address: 729CA89FC, Expected: 80000000, Actual: 00000040  
2023-07-23 13:00:49 - DIMM0 temperature: 48.500C  
2023-07-23 13:00:49 - DIMM1 temperature: 47.750C  
2023-07-23 13:00:49 - Current CPU temperature: 74C  
2023-07-23 13:01:12 - MtSupportRunAllTests - Test execution time: 245.805s (Test 7 cumulative error count: 16, buffer full count: 0)  
2023-07-23 13:01:12 - Running test #8 (Test 8 [Random number sequence])  
2023-07-23 13:01:12 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 13:01:12 - MtSupportRunAllTests - Start time: 564396 ms  
2023-07-23 13:01:12 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 13:01:12 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 13:01:12 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 13:01:49 - DIMM0 temperature: 47.500C  
2023-07-23 13:01:49 - DIMM1 temperature: 46.750C  
2023-07-23 13:01:49 - Current CPU temperature: 95C  
2023-07-23 13:02:09 - MtSupportRunAllTests - Test execution time: 56.912s (Test 8 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:02:09 - Running test #9 (Test 9 [Modulo 20, ones & zeros])  
2023-07-23 13:02:09 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 13:02:09 - MtSupportRunAllTests - Start time: 621373 ms  
2023-07-23 13:02:09 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 13:02:09 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 13:02:09 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 13:02:27 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 113EB1E74, Expected: 271A20FB, Actual: D8E5DF04  
2023-07-23 13:02:30 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 1378BB07C, Expected: DE8BE7D2, Actual: 2174182D  
2023-07-23 13:02:39 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 197893C58, Expected: E3E2FFD0, Actual: 1C1D002F  
2023-07-23 13:02:39 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 19769BA6C, Expected: E3E2FFD0, Actual: 1C1D002F

2023-07-23 13:02:49 - DIMM0 temperature: 48.000C  
2023-07-23 13:02:50 - DIMM1 temperature: 47.250C  
2023-07-23 13:02:50 - Current CPU temperature: 75C  
2023-07-23 13:02:52 - [MEM ERROR - Data] Test: 9, CPU: 0, Address: 23FC153F8, Expected: 1CC14BDA, Actual: E33EB425  
2023-07-23 13:02:52 - [MEM ERROR - Data] Test: 9, CPU: 0, Address: 23FC953C8, Expected: 1CC14BDA, Actual: E33EB425  
2023-07-23 13:02:53 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 227CAE26C, Expected: E33EB425, Actual: 1CC14BDA  
2023-07-23 13:02:59 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 267892ED8, Expected: 3C5BC924, Actual: C3A436DB  
2023-07-23 13:02:59 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 2678931F8, Expected: 3C5BC924, Actual: C3A436DB  
2023-07-23 13:03:34 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 3E501B044, Expected: BBFE1B0F, Actual: 4401E4F0  
2023-07-23 13:03:34 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 3E509B064, Expected: BBFE1B0F, Actual: 4401E4F0  
2023-07-23 13:03:37 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 411E99074, Expected: 9C3F500C, Actual: 63C0AFF3  
2023-07-23 13:03:50 - DIMM0 temperature: 48.750C  
2023-07-23 13:03:50 - DIMM1 temperature: 47.750C  
2023-07-23 13:03:50 - Current CPU temperature: 74C  
2023-07-23 13:03:57 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 4F709B4E4, Expected: D73FD647, Actual: 28C029B8  
2023-07-23 13:04:38 - [MEM ERROR - Data] Test: 9, CPU: 2, Address: 6A2A9F8C0, Expected: 881C4321, Actual: 77E3BCDE  
2023-07-23 13:04:50 - DIMM0 temperature: 49.000C  
2023-07-23 13:04:50 - DIMM1 temperature: 48.250C  
2023-07-23 13:04:50 - Current CPU temperature: 75C  
2023-07-23 13:05:04 - [MEM ERROR - Data] Test: 9, CPU: 2, Address: 7C10B90F4, Expected: 3BD8266E, Actual: C427D991  
2023-07-23 13:05:12 - MtSupportRunAllTests - Test execution time: 182.903s (Test 9 cumulative error count: 15, buffer full count: 0)  
2023-07-23 13:05:12 - Running test #10 (Test 10 [Bit fade test, 2 patterns, 1 CPU])  
2023-07-23 13:05:12 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 13:05:12 - MtSupportRunAllTests - Start time: 804342 ms  
2023-07-23 13:05:12 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 13:05:12 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 13:05:12 - Start bit fade test (0x0 - 0x100000000000)  
2023-07-23 13:05:12 - Starting Stage 0, Pattern=00000000  
2023-07-23 13:05:14 - Finished Stage 0, Pattern=00000000  
2023-07-23 13:05:14 - Sleep start time: 806388  
2023-07-23 13:05:14 - Sleep time: 300000  
2023-07-23 13:05:14 - Test 10 - Sleeping (299 seconds remaining)  
2023-07-23 13:05:45 - Slept for 30 seconds  
2023-07-23 13:05:50 - DIMM0 temperature: 46.250C  
2023-07-23 13:05:50 - DIMM1 temperature: 45.500C  
2023-07-23 13:05:50 - Current CPU temperature: 52C  
2023-07-23 13:06:15 - Slept for 60 seconds  
2023-07-23 13:06:45 - Slept for 90 seconds

2023-07-23 13:06:50 - DIMM0 temperature: 44.000C  
2023-07-23 13:06:50 - DIMM1 temperature: 43.250C  
2023-07-23 13:06:50 - Current CPU temperature: 51C  
2023-07-23 13:07:15 - Slept for 120 seconds  
2023-07-23 13:07:45 - Slept for 151 seconds  
2023-07-23 13:07:50 - DIMM0 temperature: 42.250C  
2023-07-23 13:07:50 - DIMM1 temperature: 41.750C  
2023-07-23 13:07:50 - Current CPU temperature: 50C  
2023-07-23 13:08:16 - Slept for 181 seconds  
2023-07-23 13:08:46 - Slept for 211 seconds  
2023-07-23 13:08:50 - DIMM0 temperature: 41.250C  
2023-07-23 13:08:50 - DIMM1 temperature: 40.750C  
2023-07-23 13:08:50 - Current CPU temperature: 50C  
2023-07-23 13:09:16 - Slept for 241 seconds  
2023-07-23 13:09:46 - Slept for 272 seconds  
2023-07-23 13:09:50 - DIMM0 temperature: 40.500C  
2023-07-23 13:09:50 - DIMM1 temperature: 40.000C  
2023-07-23 13:09:50 - Current CPU temperature: 50C  
2023-07-23 13:10:14 - Starting Stage 1, Pattern=00000000  
2023-07-23 13:10:18 - Finished Stage 1, Pattern=00000000  
2023-07-23 13:10:18 - Starting Stage 0, Pattern=FFFFFFFF  
2023-07-23 13:10:20 - Finished Stage 0, Pattern=FFFFFFFF  
2023-07-23 13:10:20 - Sleep start time: 1111850  
2023-07-23 13:10:20 - Sleep time: 300000  
2023-07-23 13:10:20 - Test 10 - Sleeping (299 seconds remaining)  
2023-07-23 13:10:50 - Slept for 30 seconds  
2023-07-23 13:10:50 - DIMM0 temperature: 40.000C  
2023-07-23 13:10:50 - DIMM1 temperature: 39.500C  
2023-07-23 13:10:50 - Current CPU temperature: 50C  
2023-07-23 13:11:20 - Slept for 60 seconds  
2023-07-23 13:11:50 - Slept for 90 seconds  
2023-07-23 13:11:51 - DIMM0 temperature: 39.750C  
2023-07-23 13:11:51 - DIMM1 temperature: 39.000C  
2023-07-23 13:11:51 - Current CPU temperature: 50C  
2023-07-23 13:12:21 - Slept for 120 seconds  
2023-07-23 13:12:51 - DIMM0 temperature: 39.250C  
2023-07-23 13:12:51 - DIMM1 temperature: 38.750C  
2023-07-23 13:12:51 - Current CPU temperature: 50C  
2023-07-23 13:12:51 - Slept for 151 seconds  
2023-07-23 13:13:21 - Slept for 181 seconds  
2023-07-23 13:13:51 - DIMM0 temperature: 39.000C  
2023-07-23 13:13:51 - DIMM1 temperature: 38.500C  
2023-07-23 13:13:51 - Current CPU temperature: 50C  
2023-07-23 13:13:51 - Slept for 211 seconds  
2023-07-23 13:14:22 - Slept for 241 seconds  
2023-07-23 13:14:51 - DIMM0 temperature: 38.750C  
2023-07-23 13:14:51 - DIMM1 temperature: 38.250C  
2023-07-23 13:14:51 - Current CPU temperature: 50C  
2023-07-23 13:14:52 - Slept for 272 seconds  
2023-07-23 13:15:20 - Starting Stage 1, Pattern=FFFFFFFF  
2023-07-23 13:15:23 - Finished Stage 1, Pattern=FFFFFFFF  
2023-07-23 13:15:23 - MtSupportRunAllTests - Test execution time:  
610.944s (Test 10 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:15:23 - Running test #13 (Test 13 [Hammer test])



2023-07-23 13:15:23 - MtSupportRunAllTests - Setting random seed to 0x50415353  
2023-07-23 13:15:23 - MtSupportRunAllTests - Start time: 1415352 ms  
2023-07-23 13:15:23 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 13:15:23 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 13:15:23 - Start double-sided hammer test (0x0 - 0x10000000000, Step size: 0x1000000)  
2023-07-23 13:15:23 - Using random pattern  
2023-07-23 13:15:23 - # of segments to hammer: 15 (SegSize=2048MB, SkipSize=0MB)  
2023-07-23 13:15:51 - DIMM0 temperature: 39.000C  
2023-07-23 13:15:51 - DIMM1 temperature: 38.500C  
2023-07-23 13:15:51 - Current CPU temperature: 81C  
2023-07-23 13:16:39 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x1000B000 - 0x9000B000]  
2023-07-23 13:16:51 - DIMM0 temperature: 39.250C  
2023-07-23 13:16:51 - DIMM1 temperature: 38.500C  
2023-07-23 13:16:51 - Current CPU temperature: 81C  
2023-07-23 13:17:42 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x100000000 - 0x180000000]  
2023-07-23 13:17:51 - DIMM0 temperature: 39.250C  
2023-07-23 13:17:51 - DIMM1 temperature: 38.750C  
2023-07-23 13:17:51 - Current CPU temperature: 81C  
2023-07-23 13:18:14 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x180000000 - 0x200000000]  
2023-07-23 13:18:46 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x200000000 - 0x280000000]  
2023-07-23 13:18:51 - DIMM0 temperature: 39.500C  
2023-07-23 13:18:51 - DIMM1 temperature: 38.750C  
2023-07-23 13:18:51 - Current CPU temperature: 80C  
2023-07-23 13:19:18 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x280000000 - 0x300000000]  
2023-07-23 13:19:49 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x300000000 - 0x380000000]  
2023-07-23 13:19:51 - DIMM0 temperature: 39.500C  
2023-07-23 13:19:51 - DIMM1 temperature: 38.750C  
2023-07-23 13:19:51 - Current CPU temperature: 75C  
2023-07-23 13:20:21 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x380000000 - 0x400000000]  
2023-07-23 13:20:51 - DIMM0 temperature: 39.500C  
2023-07-23 13:20:51 - DIMM1 temperature: 39.000C  
2023-07-23 13:20:51 - Current CPU temperature: 77C  
2023-07-23 13:20:53 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x400000000 - 0x480000000]  
2023-07-23 13:21:24 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x480000000 - 0x500000000]  
2023-07-23 13:21:51 - DIMM0 temperature: 39.500C  
2023-07-23 13:21:51 - DIMM1 temperature: 39.000C  
2023-07-23 13:21:51 - Current CPU temperature: 77C  
2023-07-23 13:21:56 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x500000000 - 0x580000000]

2023-07-23 13:22:28 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x5800000000 - 0x6000000000]  
2023-07-23 13:22:52 - DIMM0 temperature: 39.500C  
2023-07-23 13:22:52 - DIMM1 temperature: 39.000C  
2023-07-23 13:22:52 - Current CPU temperature: 78C  
2023-07-23 13:23:00 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x6000000000 - 0x6800000000]  
2023-07-23 13:23:31 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x6800000000 - 0x7000000000]  
2023-07-23 13:23:52 - DIMM0 temperature: 39.500C  
2023-07-23 13:23:52 - DIMM1 temperature: 39.000C  
2023-07-23 13:23:52 - Current CPU temperature: 79C  
2023-07-23 13:24:03 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x7000000000 - 0x7800000000]  
2023-07-23 13:24:35 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x7800000000 - 0x8000000000]  
2023-07-23 13:24:52 - DIMM0 temperature: 39.750C  
2023-07-23 13:24:52 - DIMM1 temperature: 39.000C  
2023-07-23 13:24:52 - Current CPU temperature: 81C  
2023-07-23 13:25:25 - MtSupportRunAllTests - Test execution time:  
601.217s (Test 13 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:25:25 - Finished pass #1 (of 4) (Cumulative error count:  
31, buffer full count: 0)  
2023-07-23 13:25:25 - Starting pass #2 (of 4)  
2023-07-23 13:25:25 - Running test #0 (Test 0 [Address test, walking  
ones, 1 CPU])  
2023-07-23 13:25:25 - MtSupportRunAllTests - Setting random seed to  
0xDAC0595A  
2023-07-23 13:25:25 - MtSupportRunAllTests - Start time: 2016657 ms  
2023-07-23 13:25:25 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 13:25:25 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 13:25:25 - Start memory range test (0x0 - 0x10000000000)  
2023-07-23 13:25:25 - MtSupportRunAllTests - Test execution time: 0.791s  
(Test 0 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:25:25 - Running test #1 (Test 1 [Address test, own address,  
1 CPU])  
2023-07-23 13:25:25 - MtSupportRunAllTests - Setting random seed to  
0xC06C71EB  
2023-07-23 13:25:25 - MtSupportRunAllTests - Start time: 2017513 ms  
2023-07-23 13:25:25 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 13:25:25 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 13:25:25 - Start memory range test (0x0 - 0x10000000000)  
2023-07-23 13:25:29 - MtSupportRunAllTests - Test execution time: 3.518s  
(Test 1 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:25:29 - Running test #2 (Test 2 [Address test, own  
address])  
2023-07-23 13:25:29 - MtSupportRunAllTests - Setting random seed to  
0x8120C36C  
2023-07-23 13:25:29 - MtSupportRunAllTests - Start time: 2021095 ms

2023-07-23 13:25:29 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 13:25:29 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 13:25:29 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 13:25:36 - MtSupportRunAllTests - Test execution time: 6.463s (Test 2 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:25:36 - Running test #3 (Test 3 [Moving inversions, ones & zeroes])  
2023-07-23 13:25:36 - MtSupportRunAllTests - Setting random seed to 0x5867CCB6  
2023-07-23 13:25:36 - MtSupportRunAllTests - Start time: 2027624 ms  
2023-07-23 13:25:36 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 13:25:36 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 13:25:36 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 13:25:52 - DIMM0 temperature: 41.000C  
2023-07-23 13:25:52 - DIMM1 temperature: 40.500C  
2023-07-23 13:25:52 - Current CPU temperature: 68C  
2023-07-23 13:26:13 - MtSupportRunAllTests - Test execution time: 37.728s (Test 3 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:26:13 - Running test #4 (Test 4 [Moving inversions, 8-bit pattern])  
2023-07-23 13:26:13 - MtSupportRunAllTests - Setting random seed to 0xF19CBDED  
2023-07-23 13:26:13 - MtSupportRunAllTests - Start time: 2065417 ms  
2023-07-23 13:26:13 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 13:26:13 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 13:26:13 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 13:26:52 - DIMM0 temperature: 44.000C  
2023-07-23 13:26:52 - DIMM1 temperature: 43.500C  
2023-07-23 13:26:52 - Current CPU temperature: 70C  
2023-07-23 13:27:52 - DIMM0 temperature: 45.750C  
2023-07-23 13:27:52 - DIMM1 temperature: 45.250C  
2023-07-23 13:27:52 - Current CPU temperature: 70C  
2023-07-23 13:28:38 - MtSupportRunAllTests - Test execution time: 144.910s (Test 4 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:28:38 - Running test #5 (Test 5 [Moving inversions, random pattern])  
2023-07-23 13:28:38 - MtSupportRunAllTests - Setting random seed to 0xD7DA5C83  
2023-07-23 13:28:38 - MtSupportRunAllTests - Start time: 2210392 ms  
2023-07-23 13:28:38 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 13:28:38 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 13:28:38 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 13:28:52 - DIMM0 temperature: 46.750C  
2023-07-23 13:28:52 - DIMM1 temperature: 46.250C  
2023-07-23 13:28:52 - Current CPU temperature: 71C  
2023-07-23 13:29:52 - DIMM0 temperature: 47.750C

2023-07-23 13:29:52 - DIMM1 temperature: 47.250C  
2023-07-23 13:29:52 - Current CPU temperature: 71C  
2023-07-23 13:30:52 - DIMM0 temperature: 48.250C  
2023-07-23 13:30:52 - DIMM1 temperature: 47.750C  
2023-07-23 13:30:52 - Current CPU temperature: 71C  
2023-07-23 13:31:48 - MtSupportRunAllTests - Test execution time:  
189.216s (Test 5 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:31:48 - Running test #6 (Test 6 [Block move, 64-byte  
blocks])  
2023-07-23 13:31:48 - MtSupportRunAllTests - Setting random seed to  
0x2A6F0B9E  
2023-07-23 13:31:48 - MtSupportRunAllTests - Start time: 2399673 ms  
2023-07-23 13:31:48 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 13:31:48 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 13:31:48 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 13:31:52 - DIMM0 temperature: 48.500C  
2023-07-23 13:31:54 - DIMM1 temperature: 47.750C  
2023-07-23 13:31:54 - Current CPU temperature: 60C  
2023-07-23 13:32:54 - DIMM0 temperature: 46.250C  
2023-07-23 13:32:54 - DIMM1 temperature: 45.750C  
2023-07-23 13:32:54 - Current CPU temperature: 52C  
2023-07-23 13:33:54 - DIMM0 temperature: 45.250C  
2023-07-23 13:33:54 - DIMM1 temperature: 44.750C  
2023-07-23 13:33:54 - Current CPU temperature: 51C  
2023-07-23 13:34:54 - DIMM0 temperature: 44.500C  
2023-07-23 13:34:54 - DIMM1 temperature: 44.000C  
2023-07-23 13:34:54 - Current CPU temperature: 51C  
2023-07-23 13:35:55 - DIMM0 temperature: 44.000C  
2023-07-23 13:35:55 - DIMM1 temperature: 43.500C  
2023-07-23 13:35:55 - Current CPU temperature: 52C  
2023-07-23 13:36:55 - DIMM0 temperature: 43.500C  
2023-07-23 13:36:55 - DIMM1 temperature: 43.250C  
2023-07-23 13:36:55 - Current CPU temperature: 51C  
2023-07-23 13:37:55 - DIMM0 temperature: 43.250C  
2023-07-23 13:37:55 - DIMM1 temperature: 43.000C  
2023-07-23 13:37:55 - Current CPU temperature: 51C  
2023-07-23 13:38:55 - DIMM0 temperature: 43.250C  
2023-07-23 13:38:55 - DIMM1 temperature: 42.750C  
2023-07-23 13:38:55 - Current CPU temperature: 51C  
2023-07-23 13:39:50 - MtSupportRunAllTests - Test execution time:  
482.634s (Test 6 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:39:50 - Running test #7 (Test 7 [Moving inversions, 32-bit  
pattern])  
2023-07-23 13:39:50 - MtSupportRunAllTests - Setting random seed to  
0xEBCCDF37  
2023-07-23 13:39:50 - MtSupportRunAllTests - Start time: 2882372 ms  
2023-07-23 13:39:50 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 13:39:50 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 13:39:50 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 13:39:55 - DIMM0 temperature: 43.500C

2023-07-23 13:39:55 - DIMM1 temperature: 43.000C  
2023-07-23 13:39:55 - Current CPU temperature: 78C  
2023-07-23 13:40:55 - DIMM0 temperature: 45.750C  
2023-07-23 13:40:55 - DIMM1 temperature: 45.250C  
2023-07-23 13:40:55 - Current CPU temperature: 76C  
2023-07-23 13:41:55 - DIMM0 temperature: 47.000C  
2023-07-23 13:41:55 - DIMM1 temperature: 46.500C  
2023-07-23 13:41:56 - Current CPU temperature: 75C  
2023-07-23 13:42:56 - DIMM0 temperature: 47.750C  
2023-07-23 13:42:56 - DIMM1 temperature: 47.250C  
2023-07-23 13:42:56 - Current CPU temperature: 75C  
2023-07-23 13:43:56 - DIMM0 temperature: 48.250C  
2023-07-23 13:43:56 - DIMM1 temperature: 47.750C  
2023-07-23 13:43:56 - Current CPU temperature: 76C  
2023-07-23 13:44:56 - DIMM0 temperature: 48.750C  
2023-07-23 13:44:56 - DIMM1 temperature: 48.250C  
2023-07-23 13:44:56 - Current CPU temperature: 77C  
2023-07-23 13:45:56 - DIMM0 temperature: 49.000C  
2023-07-23 13:45:56 - DIMM1 temperature: 48.500C  
2023-07-23 13:45:56 - Current CPU temperature: 75C  
2023-07-23 13:46:56 - DIMM0 temperature: 49.250C  
2023-07-23 13:46:56 - DIMM1 temperature: 48.750C  
2023-07-23 13:46:56 - Current CPU temperature: 76C  
2023-07-23 13:47:56 - DIMM0 temperature: 49.500C  
2023-07-23 13:47:56 - DIMM1 temperature: 48.750C  
2023-07-23 13:47:56 - Current CPU temperature: 77C  
2023-07-23 13:48:56 - DIMM0 temperature: 49.750C  
2023-07-23 13:48:56 - DIMM1 temperature: 49.000C  
2023-07-23 13:48:56 - Current CPU temperature: 75C  
2023-07-23 13:49:15 - MtSupportRunAllTests - Test execution time:  
564.382s (Test 7 cumulative error count: 16, buffer full count: 0)  
2023-07-23 13:49:15 - Running test #8 (Test 8 [Random number sequence])  
2023-07-23 13:49:15 - MtSupportRunAllTests - Setting random seed to  
0x5414939F  
2023-07-23 13:49:15 - MtSupportRunAllTests - Start time: 3446819 ms  
2023-07-23 13:49:15 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 13:49:15 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 13:49:15 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 13:49:56 - DIMM0 temperature: 48.500C  
2023-07-23 13:49:56 - DIMM1 temperature: 47.750C  
2023-07-23 13:49:56 - Current CPU temperature: 95C  
2023-07-23 13:50:57 - DIMM0 temperature: 47.750C  
2023-07-23 13:50:57 - DIMM1 temperature: 47.000C  
2023-07-23 13:50:57 - Current CPU temperature: 95C  
2023-07-23 13:51:53 - MtSupportRunAllTests - Test execution time:  
158.161s (Test 8 cumulative error count: 0, buffer full count: 0)  
2023-07-23 13:51:53 - Running test #9 (Test 9 [Modulo 20, ones & zeros])  
2023-07-23 13:51:53 - MtSupportRunAllTests - Setting random seed to  
0x1C7387DD  
2023-07-23 13:51:53 - MtSupportRunAllTests - Start time: 3605044 ms  
2023-07-23 13:51:53 - MtSupportRunAllTests - Enabling memory cache for  
test

2023-07-23 13:51:53 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 13:51:53 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 13:51:57 - DIMM0 temperature: 47.500C  
2023-07-23 13:51:57 - DIMM1 temperature: 46.750C  
2023-07-23 13:51:57 - Current CPU temperature: 87C  
2023-07-23 13:52:57 - DIMM0 temperature: 48.750C  
2023-07-23 13:52:57 - DIMM1 temperature: 48.000C  
2023-07-23 13:52:57 - Current CPU temperature: 76C  
2023-07-23 13:53:46 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 1E78BF270, Expected: BB08C051, Actual: 44F73FAE  
2023-07-23 13:53:46 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 1F3828240, Expected: BB08C051, Actual: 44F73FAE  
2023-07-23 13:53:46 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 1F38A8260, Expected: BB08C051, Actual: 44F73FAE  
2023-07-23 13:53:57 - DIMM0 temperature: 49.250C  
2023-07-23 13:53:57 - DIMM1 temperature: 48.500C  
2023-07-23 13:53:57 - Current CPU temperature: 76C  
2023-07-23 13:54:21 - [MEM ERROR - Data] Test: 9, CPU: 14, Address: 263CF7948, Expected: 6C2C6ADA, Actual: 93D39525  
2023-07-23 13:54:46 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 2C7CAD174, Expected: 60F8CCE2, Actual: 9F07331D  
2023-07-23 13:54:57 - DIMM0 temperature: 49.750C  
2023-07-23 13:54:57 - DIMM1 temperature: 48.750C  
2023-07-23 13:54:57 - Current CPU temperature: 75C  
2023-07-23 13:55:04 - [MEM ERROR - Data] Test: 9, CPU: 14, Address: 3032B5144, Expected: EAEF450C, Actual: 1510BAF3  
2023-07-23 13:55:21 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 34ACB8044, Expected: C445A4A6, Actual: 3BBA5B59  
2023-07-23 13:55:57 - DIMM0 temperature: 50.000C  
2023-07-23 13:55:57 - DIMM1 temperature: 49.000C  
2023-07-23 13:55:57 - Current CPU temperature: 76C  
2023-07-23 13:56:51 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 4B1A91CE0, Expected: 8BAACA27, Actual: 745535D8  
2023-07-23 13:56:51 - [MEM ERROR - Data] Test: 9, CPU: 0, Address: 4BF0A82D0, Expected: E6FC5D3B, Actual: 1903A2C4  
2023-07-23 13:56:57 - DIMM0 temperature: 50.000C  
2023-07-23 13:56:57 - DIMM1 temperature: 49.250C  
2023-07-23 13:56:57 - Current CPU temperature: 76C  
2023-07-23 13:57:05 - [MEM ERROR - Data] Test: 9, CPU: 8, Address: 4CFB63254, Expected: 84053272, Actual: 7BFACD8D  
2023-07-23 13:57:22 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 5172B1E40, Expected: 309BFC1C, Actual: CF6403E3  
2023-07-23 13:57:30 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 533CBE65C, Expected: BF7E4B97, Actual: 4081B468  
2023-07-23 13:57:41 - [MEM ERROR - Data] Test: 9, CPU: 14, Address: 560828DF4, Expected: ACF127DD, Actual: 530ED822  
2023-07-23 13:57:41 - [MEM ERROR - Data] Test: 9, CPU: 14, Address: 5608A8DC4, Expected: ACF127DD, Actual: 530ED822  
2023-07-23 13:57:41 - [MEM ERROR - Data] Test: 9, CPU: 0, Address: 57DCB76F0, Expected: ACF127DD, Actual: 530ED822  
2023-07-23 13:57:56 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 594C3B7D4, Expected: 5DE49840, Actual: A21B67BF

2023-07-23 13:57:56 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 594CBB7F4, Expected: 5DE49840, Actual: A21B67BF  
2023-07-23 13:57:56 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 5910AB2D0, Expected: 5DE49840, Actual: A21B67BF  
2023-07-23 13:57:57 - DIMM0 temperature: 50.250C  
2023-07-23 13:57:57 - DIMM1 temperature: 49.250C  
2023-07-23 13:57:57 - Current CPU temperature: 76C  
2023-07-23 13:58:57 - DIMM0 temperature: 50.250C  
2023-07-23 13:58:57 - DIMM1 temperature: 49.500C  
2023-07-23 13:58:57 - Current CPU temperature: 76C  
2023-07-23 13:59:05 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 693A1FC58, Expected: 686D741E, Actual: 97928BE1  
2023-07-23 13:59:05 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 693A9FC78, Expected: 686D741E, Actual: 97928BE1  
2023-07-23 13:59:31 - [MEM ERROR - Data] Test: 9, CPU: 8, Address: 6ED8258D8, Expected: D3428C59, Actual: 2CBD73A6  
2023-07-23 13:59:31 - [MEM ERROR - Data] Test: 9, CPU: 8, Address: 6ED8A58F8, Expected: D3428C59, Actual: 2CBD73A6  
2023-07-23 13:59:40 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 70A0B8FD8, Expected: C28BB0D3, Actual: 3D744F2C  
2023-07-23 13:59:57 - DIMM0 temperature: 50.250C  
2023-07-23 13:59:57 - DIMM1 temperature: 49.500C  
2023-07-23 13:59:57 - Current CPU temperature: 77C  
2023-07-23 14:00:14 - [MEM ERROR - Data] Test: 9, CPU: 2, Address: 7998B9E74, Expected: 07DC7A50, Actual: F82385AF  
2023-07-23 14:00:14 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 795E27678, Expected: 07DC7A50, Actual: F82385AF  
2023-07-23 14:00:14 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 795EA7648, Expected: 07DC7A50, Actual: F82385AF  
2023-07-23 14:00:57 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 826EBBFCC, Expected: E0608A13, Actual: 1F9F75EC  
2023-07-23 14:00:57 - MtSupportRunAllTests - Test execution time: 543.990s (Test 9 cumulative error count: 42, buffer full count: 0)  
2023-07-23 14:00:57 - Running test #10 (Test 10 [Bit fade test, 2 patterns, 1 CPU])  
2023-07-23 14:00:57 - MtSupportRunAllTests - Setting random seed to 0x2767D275  
2023-07-23 14:00:57 - MtSupportRunAllTests - Start time: 4149100 ms  
2023-07-23 14:00:57 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 14:00:57 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 14:00:57 - Start bit fade test (0x0 - 0x100000000000)  
2023-07-23 14:00:57 - Starting Stage 0, Pattern=00000000  
2023-07-23 14:00:57 - DIMM0 temperature: 50.250C  
2023-07-23 14:00:57 - DIMM1 temperature: 49.500C  
2023-07-23 14:00:57 - Current CPU temperature: 77C  
2023-07-23 14:00:59 - Finished Stage 0, Pattern=00000000  
2023-07-23 14:00:59 - Sleep start time: 4151209  
2023-07-23 14:00:59 - Sleep time: 300000  
2023-07-23 14:00:59 - Test 10 - Sleeping (299 seconds remaining)  
2023-07-23 14:01:29 - Slept for 30 seconds  
2023-07-23 14:01:57 - DIMM0 temperature: 46.250C  
2023-07-23 14:01:57 - DIMM1 temperature: 45.500C

2023-07-23 14:01:57 - Current CPU temperature: 52C  
2023-07-23 14:02:00 - Slept for 60 seconds  
2023-07-23 14:02:30 - Slept for 90 seconds  
2023-07-23 14:02:58 - DIMM0 temperature: 44.000C  
2023-07-23 14:02:58 - DIMM1 temperature: 43.500C  
2023-07-23 14:02:58 - Current CPU temperature: 52C  
2023-07-23 14:03:00 - Slept for 120 seconds  
2023-07-23 14:03:30 - Slept for 151 seconds  
2023-07-23 14:03:58 - DIMM0 temperature: 42.750C  
2023-07-23 14:03:58 - DIMM1 temperature: 42.250C  
2023-07-23 14:03:58 - Current CPU temperature: 51C  
2023-07-23 14:04:01 - Slept for 181 seconds  
2023-07-23 14:04:31 - Slept for 211 seconds  
2023-07-23 14:04:58 - DIMM0 temperature: 41.750C  
2023-07-23 14:04:58 - DIMM1 temperature: 41.250C  
2023-07-23 14:04:58 - Current CPU temperature: 51C  
2023-07-23 14:05:01 - Slept for 241 seconds  
2023-07-23 14:05:31 - Slept for 272 seconds  
2023-07-23 14:05:58 - DIMM0 temperature: 41.000C  
2023-07-23 14:05:58 - DIMM1 temperature: 40.500C  
2023-07-23 14:05:58 - Current CPU temperature: 51C  
2023-07-23 14:05:59 - Starting Stage 1, Pattern=00000000  
2023-07-23 14:06:03 - Finished Stage 1, Pattern=00000000  
2023-07-23 14:06:03 - Starting Stage 0, Pattern=FFFFFFFF  
2023-07-23 14:06:05 - Finished Stage 0, Pattern=FFFFFFFF  
2023-07-23 14:06:05 - Sleep start time: 4456682  
2023-07-23 14:06:05 - Sleep time: 300000  
2023-07-23 14:06:05 - Test 10 - Sleeping (299 seconds remaining)  
2023-07-23 14:06:35 - Slept for 30 seconds  
2023-07-23 14:06:58 - DIMM0 temperature: 40.500C  
2023-07-23 14:06:58 - DIMM1 temperature: 40.000C  
2023-07-23 14:06:58 - Current CPU temperature: 51C  
2023-07-23 14:07:05 - Slept for 60 seconds  
2023-07-23 14:07:35 - Slept for 90 seconds  
2023-07-23 14:07:58 - DIMM0 temperature: 40.000C  
2023-07-23 14:07:58 - DIMM1 temperature: 39.500C  
2023-07-23 14:07:58 - Current CPU temperature: 50C  
2023-07-23 14:08:06 - Slept for 120 seconds  
2023-07-23 14:08:36 - Slept for 151 seconds  
2023-07-23 14:08:58 - DIMM0 temperature: 39.750C  
2023-07-23 14:08:58 - DIMM1 temperature: 39.250C  
2023-07-23 14:08:58 - Current CPU temperature: 50C  
2023-07-23 14:09:06 - Slept for 181 seconds  
2023-07-23 14:09:36 - Slept for 211 seconds  
2023-07-23 14:09:59 - DIMM0 temperature: 39.500C  
2023-07-23 14:09:59 - DIMM1 temperature: 39.000C  
2023-07-23 14:09:59 - Current CPU temperature: 50C  
2023-07-23 14:10:06 - Slept for 241 seconds  
2023-07-23 14:10:37 - Slept for 272 seconds  
2023-07-23 14:10:59 - DIMM0 temperature: 39.250C  
2023-07-23 14:10:59 - DIMM1 temperature: 38.750C  
2023-07-23 14:10:59 - Current CPU temperature: 50C  
2023-07-23 14:11:05 - Starting Stage 1, Pattern=FFFFFFFF  
2023-07-23 14:11:08 - Finished Stage 1, Pattern=FFFFFFFF



2023-07-23 14:11:08 - MtSupportRunAllTests - Test execution time: 611.015s (Test 10 cumulative error count: 0, buffer full count: 0)  
2023-07-23 14:11:08 - Running test #13 (Test 13 [Hammer test])  
2023-07-23 14:11:08 - MtSupportRunAllTests - Setting random seed to 0x6C74519A  
2023-07-23 14:11:08 - MtSupportRunAllTests - Start time: 4760181 ms  
2023-07-23 14:11:08 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 14:11:08 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 14:11:08 - Start double-sided hammer test (0x0 - 0x10000000000, Step size: 0x1000000)  
2023-07-23 14:11:08 - Using random pattern  
2023-07-23 14:11:08 - # of segments to hammer: 15 (SegSize=2048MB, SkipSize=0MB)  
2023-07-23 14:11:59 - DIMM0 temperature: 39.500C  
2023-07-23 14:11:59 - DIMM1 temperature: 39.000C  
2023-07-23 14:11:59 - Current CPU temperature: 81C  
2023-07-23 14:12:26 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x1000B000 - 0x9000B000]  
2023-07-23 14:12:59 - DIMM0 temperature: 39.750C  
2023-07-23 14:12:59 - DIMM1 temperature: 39.000C  
2023-07-23 14:12:59 - Current CPU temperature: 77C  
2023-07-23 14:13:37 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x100000000 - 0x180000000]  
2023-07-23 14:13:59 - DIMM0 temperature: 39.750C  
2023-07-23 14:13:59 - DIMM1 temperature: 39.000C  
2023-07-23 14:13:59 - Current CPU temperature: 82C  
2023-07-23 14:14:14 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x180000000 - 0x200000000]  
2023-07-23 14:14:51 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x200000000 - 0x280000000]  
2023-07-23 14:14:59 - DIMM0 temperature: 40.000C  
2023-07-23 14:14:59 - DIMM1 temperature: 39.000C  
2023-07-23 14:14:59 - Current CPU temperature: 77C  
2023-07-23 14:15:28 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x280000000 - 0x300000000]  
2023-07-23 14:15:59 - DIMM0 temperature: 40.000C  
2023-07-23 14:15:59 - DIMM1 temperature: 39.250C  
2023-07-23 14:15:59 - Current CPU temperature: 78C  
2023-07-23 14:16:05 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x300000000 - 0x380000000]  
2023-07-23 14:16:42 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x380000000 - 0x400000000]  
2023-07-23 14:16:59 - DIMM0 temperature: 40.000C  
2023-07-23 14:16:59 - DIMM1 temperature: 39.250C  
2023-07-23 14:16:59 - Current CPU temperature: 82C  
2023-07-23 14:17:19 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x400000000 - 0x480000000]  
2023-07-23 14:17:56 - RunHammerTest - Running hammer test on 4 CPUs (512MB each) [0x480000000 - 0x500000000]  
2023-07-23 14:17:59 - DIMM0 temperature: 40.000C  
2023-07-23 14:17:59 - DIMM1 temperature: 39.250C  
2023-07-23 14:17:59 - Current CPU temperature: 65C

2023-07-23 14:18:33 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x500000000 - 0x580000000]  
2023-07-23 14:18:59 - DIMM0 temperature: 40.000C  
2023-07-23 14:18:59 - DIMM1 temperature: 39.250C  
2023-07-23 14:18:59 - Current CPU temperature: 79C  
2023-07-23 14:19:10 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x580000000 - 0x600000000]  
2023-07-23 14:19:47 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x600000000 - 0x680000000]  
2023-07-23 14:19:59 - DIMM0 temperature: 40.000C  
2023-07-23 14:19:59 - DIMM1 temperature: 39.250C  
2023-07-23 14:19:59 - Current CPU temperature: 81C  
2023-07-23 14:20:24 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x680000000 - 0x700000000]  
2023-07-23 14:21:00 - DIMM0 temperature: 40.000C  
2023-07-23 14:21:00 - DIMM1 temperature: 39.250C  
2023-07-23 14:21:00 - Current CPU temperature: 77C  
2023-07-23 14:21:00 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x700000000 - 0x780000000]  
2023-07-23 14:21:37 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x780000000 - 0x800000000]  
2023-07-23 14:22:00 - DIMM0 temperature: 40.000C  
2023-07-23 14:22:00 - DIMM1 temperature: 39.250C  
2023-07-23 14:22:00 - Current CPU temperature: 81C  
2023-07-23 14:22:41 - MtSupportRunAllTests - Test execution time:  
692.748s (Test 13 cumulative error count: 0, buffer full count: 0)  
2023-07-23 14:22:41 - Finished pass #2 (of 4) (Cumulative error count:  
58, buffer full count: 0)  
2023-07-23 14:22:41 - Starting pass #3 (of 4)  
2023-07-23 14:22:41 - Running test #0 (Test 0 [Address test, walking  
ones, 1 CPU])  
2023-07-23 14:22:41 - MtSupportRunAllTests - Setting random seed to  
0x59F6584B  
2023-07-23 14:22:41 - MtSupportRunAllTests - Start time: 5453015 ms  
2023-07-23 14:22:41 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 14:22:41 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 14:22:41 - Start memory range test (0x0 - 0x10000000000)  
2023-07-23 14:22:42 - MtSupportRunAllTests - Test execution time: 0.790s  
(Test 0 cumulative error count: 0, buffer full count: 0)  
2023-07-23 14:22:42 - Running test #1 (Test 1 [Address test, own address,  
1 CPU])  
2023-07-23 14:22:42 - MtSupportRunAllTests - Setting random seed to  
0x3EF1FEB4  
2023-07-23 14:22:42 - MtSupportRunAllTests - Start time: 5453869 ms  
2023-07-23 14:22:42 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 14:22:42 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 14:22:42 - Start memory range test (0x0 - 0x10000000000)  
2023-07-23 14:22:45 - MtSupportRunAllTests - Test execution time: 3.517s  
(Test 1 cumulative error count: 0, buffer full count: 0)

2023-07-23 14:22:45 - Running test #2 (Test 2 [Address test, own address])  
2023-07-23 14:22:45 - MtSupportRunAllTests - Setting random seed to 0x015B634D  
2023-07-23 14:22:45 - MtSupportRunAllTests - Start time: 5457457 ms  
2023-07-23 14:22:45 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 14:22:45 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 14:22:45 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 14:22:52 - MtSupportRunAllTests - Test execution time: 6.492s (Test 2 cumulative error count: 0, buffer full count: 0)  
2023-07-23 14:22:52 - Running test #3 (Test 3 [Moving inversions, ones & zeroes])  
2023-07-23 14:22:52 - MtSupportRunAllTests - Setting random seed to 0xE02FBC58  
2023-07-23 14:22:52 - MtSupportRunAllTests - Start time: 5464014 ms  
2023-07-23 14:22:52 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 14:22:52 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 14:22:52 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 14:23:00 - DIMM0 temperature: 40.750C  
2023-07-23 14:23:00 - DIMM1 temperature: 40.250C  
2023-07-23 14:23:00 - Current CPU temperature: 68C  
2023-07-23 14:23:30 - MtSupportRunAllTests - Test execution time: 37.628s (Test 3 cumulative error count: 0, buffer full count: 0)  
2023-07-23 14:23:30 - Running test #4 (Test 4 [Moving inversions, 8-bit pattern])  
2023-07-23 14:23:30 - MtSupportRunAllTests - Setting random seed to 0x5E755C72  
2023-07-23 14:23:30 - MtSupportRunAllTests - Start time: 5501708 ms  
2023-07-23 14:23:30 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 14:23:30 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 14:23:30 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 14:24:00 - DIMM0 temperature: 44.000C  
2023-07-23 14:24:00 - DIMM1 temperature: 43.500C  
2023-07-23 14:24:00 - Current CPU temperature: 70C  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C67C, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C678, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C674, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C670, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C66C, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C668, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C664, Expected: 7F7F7F7F, Actual: 80808080

2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C660, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C65C, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C658, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C654, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C650, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C64C, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C648, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C644, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:24:11 - [MEM ERROR - Data] Test: 4, CPU: 2, Address: 28049C640, Expected: 7F7F7F7F, Actual: 80808080  
2023-07-23 14:25:00 - DIMM0 temperature: 45.750C  
2023-07-23 14:25:00 - DIMM1 temperature: 45.250C  
2023-07-23 14:25:00 - Current CPU temperature: 71C  
2023-07-23 14:25:55 - MtSupportRunAllTests - Test execution time: 145.010s (Test 4 cumulative error count: 16, buffer full count: 0)  
2023-07-23 14:25:55 - Running test #5 (Test 5 [Moving inversions, random pattern])  
2023-07-23 14:25:55 - MtSupportRunAllTests - Setting random seed to 0x619BE554  
2023-07-23 14:25:55 - MtSupportRunAllTests - Start time: 5646790 ms  
2023-07-23 14:25:55 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 14:25:55 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 14:25:55 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 14:26:00 - DIMM0 temperature: 47.000C  
2023-07-23 14:26:00 - DIMM1 temperature: 46.500C  
2023-07-23 14:26:00 - Current CPU temperature: 71C  
2023-07-23 14:27:00 - DIMM0 temperature: 47.750C  
2023-07-23 14:27:00 - DIMM1 temperature: 47.250C  
2023-07-23 14:27:00 - Current CPU temperature: 70C  
2023-07-23 14:28:00 - DIMM0 temperature: 48.500C  
2023-07-23 14:28:00 - DIMM1 temperature: 48.000C  
2023-07-23 14:28:00 - Current CPU temperature: 71C  
2023-07-23 14:29:00 - DIMM0 temperature: 48.750C  
2023-07-23 14:29:00 - DIMM1 temperature: 48.250C  
2023-07-23 14:29:00 - Current CPU temperature: 71C  
2023-07-23 14:29:04 - MtSupportRunAllTests - Test execution time: 189.608s (Test 5 cumulative error count: 0, buffer full count: 0)  
2023-07-23 14:29:04 - Running test #6 (Test 6 [Block move, 64-byte blocks])  
2023-07-23 14:29:04 - MtSupportRunAllTests - Setting random seed to 0x1D63B674  
2023-07-23 14:29:04 - MtSupportRunAllTests - Start time: 5836464 ms  
2023-07-23 14:29:04 - MtSupportRunAllTests - Enabling memory cache for test

2023-07-23 14:29:04 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 14:29:04 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 14:30:00 - DIMM0 temperature: 46.750C  
2023-07-23 14:30:00 - DIMM1 temperature: 46.250C  
2023-07-23 14:30:00 - Current CPU temperature: 52C  
2023-07-23 14:31:00 - DIMM0 temperature: 45.750C  
2023-07-23 14:31:00 - DIMM1 temperature: 45.000C  
2023-07-23 14:31:00 - Current CPU temperature: 52C  
2023-07-23 14:32:01 - DIMM0 temperature: 44.750C  
2023-07-23 14:32:01 - DIMM1 temperature: 44.500C  
2023-07-23 14:32:01 - Current CPU temperature: 52C  
2023-07-23 14:33:01 - DIMM0 temperature: 44.250C  
2023-07-23 14:33:01 - DIMM1 temperature: 44.000C  
2023-07-23 14:33:01 - Current CPU temperature: 52C  
2023-07-23 14:34:01 - DIMM0 temperature: 44.000C  
2023-07-23 14:34:01 - DIMM1 temperature: 43.500C  
2023-07-23 14:34:01 - Current CPU temperature: 52C  
2023-07-23 14:35:01 - DIMM0 temperature: 43.750C  
2023-07-23 14:35:01 - DIMM1 temperature: 43.250C  
2023-07-23 14:35:01 - Current CPU temperature: 52C  
2023-07-23 14:36:01 - DIMM0 temperature: 43.500C  
2023-07-23 14:36:01 - DIMM1 temperature: 43.250C  
2023-07-23 14:36:01 - Current CPU temperature: 51C  
2023-07-23 14:37:01 - DIMM0 temperature: 43.250C  
2023-07-23 14:37:01 - DIMM1 temperature: 43.000C  
2023-07-23 14:37:01 - Current CPU temperature: 51C  
2023-07-23 14:37:06 - MtSupportRunAllTests - Test execution time: 481.635s (Test 6 cumulative error count: 0, buffer full count: 0)  
2023-07-23 14:37:06 - Running test #7 (Test 7 [Moving inversions, 32-bit pattern])  
2023-07-23 14:37:06 - MtSupportRunAllTests - Setting random seed to 0xD30DBBC9  
2023-07-23 14:37:06 - MtSupportRunAllTests - Start time: 6318165 ms  
2023-07-23 14:37:06 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 14:37:06 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 14:37:06 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 14:38:01 - DIMM0 temperature: 45.750C  
2023-07-23 14:38:01 - DIMM1 temperature: 45.500C  
2023-07-23 14:38:01 - Current CPU temperature: 76C  
2023-07-23 14:39:02 - DIMM0 temperature: 47.000C  
2023-07-23 14:39:02 - DIMM1 temperature: 46.500C  
2023-07-23 14:39:02 - Current CPU temperature: 75C  
2023-07-23 14:40:02 - DIMM0 temperature: 48.000C  
2023-07-23 14:40:02 - DIMM1 temperature: 47.250C  
2023-07-23 14:40:02 - Current CPU temperature: 76C  
2023-07-23 14:41:02 - DIMM0 temperature: 48.500C  
2023-07-23 14:41:02 - DIMM1 temperature: 47.750C  
2023-07-23 14:41:02 - Current CPU temperature: 76C  
2023-07-23 14:42:02 - DIMM0 temperature: 49.000C  
2023-07-23 14:42:02 - DIMM1 temperature: 48.250C  
2023-07-23 14:42:02 - Current CPU temperature: 75C

2023-07-23 14:43:02 - DIMM0 temperature: 49.250C  
2023-07-23 14:43:02 - DIMM1 temperature: 48.750C  
2023-07-23 14:43:02 - Current CPU temperature: 76C  
2023-07-23 14:44:02 - DIMM0 temperature: 49.500C  
2023-07-23 14:44:02 - DIMM1 temperature: 48.750C  
2023-07-23 14:44:02 - Current CPU temperature: 77C  
2023-07-23 14:45:02 - DIMM0 temperature: 49.750C  
2023-07-23 14:45:02 - DIMM1 temperature: 49.000C  
2023-07-23 14:45:02 - Current CPU temperature: 78C  
2023-07-23 14:46:02 - DIMM0 temperature: 50.000C  
2023-07-23 14:46:02 - DIMM1 temperature: 49.250C  
2023-07-23 14:46:02 - Current CPU temperature: 76C  
2023-07-23 14:46:31 - MtSupportRunAllTests - Test execution time:  
564.465s (Test 7 cumulative error count: 16, buffer full count: 0)  
2023-07-23 14:46:31 - Running test #8 (Test 8 [Random number sequence])  
2023-07-23 14:46:32 - MtSupportRunAllTests - Setting random seed to  
0xF7EA6A3E  
2023-07-23 14:46:32 - MtSupportRunAllTests - Start time: 6884269 ms  
2023-07-23 14:46:32 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 14:46:32 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 14:46:32 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 14:47:03 - DIMM0 temperature: 49.000C  
2023-07-23 14:47:03 - DIMM1 temperature: 48.250C  
2023-07-23 14:47:03 - Current CPU temperature: 95C  
2023-07-23 14:48:03 - DIMM0 temperature: 48.000C  
2023-07-23 14:48:03 - DIMM1 temperature: 47.250C  
2023-07-23 14:48:03 - Current CPU temperature: 95C  
2023-07-23 14:49:03 - DIMM0 temperature: 47.500C  
2023-07-23 14:49:03 - DIMM1 temperature: 46.750C  
2023-07-23 14:49:03 - Current CPU temperature: 95C  
2023-07-23 14:49:10 - MtSupportRunAllTests - Test execution time:  
158.201s (Test 8 cumulative error count: 0, buffer full count: 0)  
2023-07-23 14:49:10 - Running test #9 (Test 9 [Modulo 20, ones & zeros])  
2023-07-23 14:49:10 - MtSupportRunAllTests - Setting random seed to  
0xCB50ECBD  
2023-07-23 14:49:10 - MtSupportRunAllTests - Start time: 7042535 ms  
2023-07-23 14:49:10 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 14:49:10 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 14:49:11 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 14:49:31 - [MEM ERROR - Data] Test: 9, CPU: 10, Address:  
41B193FC, Expected: 14678247, Actual: EB987DB8  
2023-07-23 14:49:48 - [MEM ERROR - Data] Test: 9, CPU: 2, Address:  
71EBC4F8, Expected: 64ABA672, Actual: 9B54598D  
2023-07-23 14:50:03 - DIMM0 temperature: 48.750C  
2023-07-23 14:50:03 - DIMM1 temperature: 48.000C  
2023-07-23 14:50:03 - Current CPU temperature: 77C  
2023-07-23 14:50:03 - [MEM ERROR - Data] Test: 9, CPU: 10, Address:  
111EA6874, Expected: 85FC501C, Actual: 7A03AFE3  
2023-07-23 14:50:29 - [MEM ERROR - Data] Test: 9, CPU: 6, Address:  
16B4396C0, Expected: D666ABDD, Actual: 29995422

2023-07-23 14:50:29 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 16B4B96E0, Expected: D666ABDD, Actual: 29995422  
2023-07-23 14:51:03 - DIMM0 temperature: 49.500C  
2023-07-23 14:51:03 - DIMM1 temperature: 48.500C  
2023-07-23 14:51:03 - Current CPU temperature: 76C  
2023-07-23 14:52:03 - DIMM0 temperature: 49.750C  
2023-07-23 14:52:03 - DIMM1 temperature: 49.000C  
2023-07-23 14:52:03 - Current CPU temperature: 76C  
2023-07-23 14:52:21 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 317EB8C74, Expected: A8885CD3, Actual: 5777A32C  
2023-07-23 14:53:03 - DIMM0 temperature: 50.000C  
2023-07-23 14:53:03 - DIMM1 temperature: 49.250C  
2023-07-23 14:53:03 - Current CPU temperature: 76C  
2023-07-23 14:53:13 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 3C62281C8, Expected: F67428A4, Actual: 098BD75B  
2023-07-23 14:53:13 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 3C62A81E8, Expected: F67428A4, Actual: 098BD75B  
2023-07-23 14:53:48 - [MEM ERROR - Data] Test: 9, CPU: 2, Address: 4434BF260, Expected: 33DE388E, Actual: CC21C771  
2023-07-23 14:53:56 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 4642AAA58, Expected: A10A4195, Actual: 5EF5BE6A  
2023-07-23 14:54:03 - DIMM0 temperature: 50.250C  
2023-07-23 14:54:03 - DIMM1 temperature: 49.250C  
2023-07-23 14:54:03 - Current CPU temperature: 76C  
2023-07-23 14:54:39 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 507EBCFF4, Expected: 75A06DC3, Actual: 8A5F923C  
2023-07-23 14:54:57 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 5576B14E8, Expected: BF540DA9, Actual: 40ABF256  
2023-07-23 14:54:57 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 5530BAA58, Expected: BF540DA9, Actual: 40ABF256  
2023-07-23 14:55:03 - DIMM0 temperature: 50.250C  
2023-07-23 14:55:03 - DIMM1 temperature: 49.500C  
2023-07-23 14:55:03 - Current CPU temperature: 76C  
2023-07-23 14:55:22 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 5A50B1854, Expected: 8FC2426F, Actual: 703DBD90  
2023-07-23 14:55:57 - [MEM ERROR - Data] Test: 9, CPU: 8, Address: 62F8ABFD8, Expected: 2C365D63, Actual: D3C9A29C  
2023-07-23 14:56:03 - DIMM0 temperature: 50.250C  
2023-07-23 14:56:03 - DIMM1 temperature: 49.500C  
2023-07-23 14:56:03 - Current CPU temperature: 76C  
2023-07-23 14:56:33 - [MEM ERROR - Data] Test: 9, CPU: 0, Address: 6DFCB87F0, Expected: ED1FBF22, Actual: 12E040DD  
2023-07-23 14:56:49 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 6EB80A3DC, Expected: 61E27FF9, Actual: 9E1D8006  
2023-07-23 14:56:49 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 6EB88A3FC, Expected: 61E27FF9, Actual: 9E1D8006  
2023-07-23 14:56:57 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 71469C0D8, Expected: 25751D4C, Actual: DA8AE2B3  
2023-07-23 14:57:03 - DIMM0 temperature: 50.250C  
2023-07-23 14:57:03 - DIMM1 temperature: 49.500C  
2023-07-23 14:57:03 - Current CPU temperature: 76C  
2023-07-23 14:57:15 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 745C35C40, Expected: 045872E6, Actual: FBA78D19

2023-07-23 14:57:15 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 745CB5C60, Expected: 045872E6, Actual: FBA78D19  
2023-07-23 14:57:41 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 7B516DAFC, Expected: 4191C2BF, Actual: BE6E3D40  
2023-07-23 14:57:41 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 7B536DADC, Expected: 4191C2BF, Actual: BE6E3D40  
2023-07-23 14:57:58 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 7F128AC44, Expected: FA783F61, Actual: 0587C09E  
2023-07-23 14:58:03 - DIMM0 temperature: 50.250C  
2023-07-23 14:58:04 - DIMM1 temperature: 49.500C  
2023-07-23 14:58:04 - Current CPU temperature: 76C  
2023-07-23 14:58:06 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 8128A8450, Expected: 5BCFCD54, Actual: A43032AB  
2023-07-23 14:58:15 - MtSupportRunAllTests - Test execution time: 543.999s (Test 9 cumulative error count: 67, buffer full count: 0)  
2023-07-23 14:58:15 - Running test #10 (Test 10 [Bit fade test, 2 patterns, 1 CPU])  
2023-07-23 14:58:15 - MtSupportRunAllTests - Setting random seed to 0xD8593A78  
2023-07-23 14:58:15 - MtSupportRunAllTests - Start time: 7586598 ms  
2023-07-23 14:58:15 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 14:58:15 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 14:58:15 - Start bit fade test (0x0 - 0x100000000000)  
2023-07-23 14:58:15 - Starting Stage 0, Pattern=00000000  
2023-07-23 14:58:17 - Finished Stage 0, Pattern=00000000  
2023-07-23 14:58:17 - Sleep start time: 7588649  
2023-07-23 14:58:17 - Sleep time: 300000  
2023-07-23 14:58:17 - Test 10 - Sleeping (299 seconds remaining)  
2023-07-23 14:58:47 - Slept for 30 seconds  
2023-07-23 14:59:04 - DIMM0 temperature: 46.750C  
2023-07-23 14:59:04 - DIMM1 temperature: 46.000C  
2023-07-23 14:59:04 - Current CPU temperature: 53C  
2023-07-23 14:59:17 - Slept for 60 seconds  
2023-07-23 14:59:47 - Slept for 90 seconds  
2023-07-23 15:00:04 - DIMM0 temperature: 44.500C  
2023-07-23 15:00:04 - DIMM1 temperature: 43.750C  
2023-07-23 15:00:04 - Current CPU temperature: 52C  
2023-07-23 15:00:18 - Slept for 120 seconds  
2023-07-23 15:00:48 - Slept for 151 seconds  
2023-07-23 15:01:04 - DIMM0 temperature: 43.000C  
2023-07-23 15:01:04 - DIMM1 temperature: 42.500C  
2023-07-23 15:01:04 - Current CPU temperature: 52C  
2023-07-23 15:01:18 - Slept for 181 seconds  
2023-07-23 15:01:48 - Slept for 211 seconds  
2023-07-23 15:02:04 - DIMM0 temperature: 42.000C  
2023-07-23 15:02:04 - DIMM1 temperature: 41.500C  
2023-07-23 15:02:04 - Current CPU temperature: 51C  
2023-07-23 15:02:18 - Slept for 241 seconds  
2023-07-23 15:02:49 - Slept for 272 seconds  
2023-07-23 15:03:04 - DIMM0 temperature: 41.250C  
2023-07-23 15:03:04 - DIMM1 temperature: 40.750C  
2023-07-23 15:03:04 - Current CPU temperature: 51C



2023-07-23 15:03:17 - Starting Stage 1, Pattern=00000000  
2023-07-23 15:03:20 - Finished Stage 1, Pattern=00000000  
2023-07-23 15:03:20 - Starting Stage 0, Pattern=FFFFFFFF  
2023-07-23 15:03:22 - Finished Stage 0, Pattern=FFFFFFFF  
2023-07-23 15:03:22 - Sleep start time: 7894116  
2023-07-23 15:03:22 - Sleep time: 300000  
2023-07-23 15:03:22 - Test 10 - Sleeping (299 seconds remaining)  
2023-07-23 15:03:52 - Slept for 30 seconds  
2023-07-23 15:04:04 - DIMM0 temperature: 40.750C  
2023-07-23 15:04:04 - DIMM1 temperature: 40.250C  
2023-07-23 15:04:04 - Current CPU temperature: 51C  
2023-07-23 15:04:23 - Slept for 60 seconds  
2023-07-23 15:04:53 - Slept for 90 seconds  
2023-07-23 15:05:04 - DIMM0 temperature: 40.250C  
2023-07-23 15:05:04 - DIMM1 temperature: 39.750C  
2023-07-23 15:05:04 - Current CPU temperature: 51C  
2023-07-23 15:05:23 - Slept for 120 seconds  
2023-07-23 15:05:53 - Slept for 151 seconds  
2023-07-23 15:06:05 - DIMM0 temperature: 40.000C  
2023-07-23 15:06:05 - DIMM1 temperature: 39.500C  
2023-07-23 15:06:05 - Current CPU temperature: 51C  
2023-07-23 15:06:23 - Slept for 181 seconds  
2023-07-23 15:06:54 - Slept for 211 seconds  
2023-07-23 15:07:05 - DIMM0 temperature: 39.750C  
2023-07-23 15:07:05 - DIMM1 temperature: 39.250C  
2023-07-23 15:07:05 - Current CPU temperature: 50C  
2023-07-23 15:07:24 - Slept for 241 seconds  
2023-07-23 15:07:54 - Slept for 272 seconds  
2023-07-23 15:08:05 - DIMM0 temperature: 39.500C  
2023-07-23 15:08:05 - DIMM1 temperature: 39.000C  
2023-07-23 15:08:05 - Current CPU temperature: 51C  
2023-07-23 15:08:22 - Starting Stage 1, Pattern=FFFFFFFF  
2023-07-23 15:08:26 - Finished Stage 1, Pattern=FFFFFFFF  
2023-07-23 15:08:26 - MtSupportRunAllTests - Test execution time:  
610.951s (Test 10 cumulative error count: 0, buffer full count: 0)  
2023-07-23 15:08:26 - Running test #13 (Test 13 [Hammer test])  
2023-07-23 15:08:26 - MtSupportRunAllTests - Setting random seed to  
0x0C48E9B9  
2023-07-23 15:08:26 - MtSupportRunAllTests - Start time: 8197616 ms  
2023-07-23 15:08:26 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 15:08:26 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 15:08:26 - Start double-sided hammer test (0x0 -  
0x1000000000, Step size: 0x1000000)  
2023-07-23 15:08:26 - Using random pattern  
2023-07-23 15:08:26 - # of segments to hammer: 15 (SegSize=2048MB,  
SkipSize=0MB)  
2023-07-23 15:09:05 - DIMM0 temperature: 39.750C  
2023-07-23 15:09:05 - DIMM1 temperature: 39.250C  
2023-07-23 15:09:05 - Current CPU temperature: 79C  
2023-07-23 15:09:43 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x1000B000 - 0x9000B000]  
2023-07-23 15:10:05 - DIMM0 temperature: 39.750C

2023-07-23 15:10:05 - DIMM1 temperature: 39.250C  
2023-07-23 15:10:05 - Current CPU temperature: 82C  
2023-07-23 15:10:55 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x100000000 - 0x180000000]  
2023-07-23 15:11:05 - DIMM0 temperature: 40.000C  
2023-07-23 15:11:05 - DIMM1 temperature: 39.250C  
2023-07-23 15:11:05 - Current CPU temperature: 81C  
2023-07-23 15:11:31 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x180000000 - 0x200000000]  
2023-07-23 15:12:05 - DIMM0 temperature: 40.000C  
2023-07-23 15:12:05 - DIMM1 temperature: 39.250C  
2023-07-23 15:12:05 - Current CPU temperature: 77C  
2023-07-23 15:12:08 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x200000000 - 0x280000000]  
2023-07-23 15:12:45 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x280000000 - 0x300000000]  
2023-07-23 15:13:05 - DIMM0 temperature: 40.000C  
2023-07-23 15:13:05 - DIMM1 temperature: 39.250C  
2023-07-23 15:13:05 - Current CPU temperature: 82C  
2023-07-23 15:13:21 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x300000000 - 0x380000000]  
2023-07-23 15:13:58 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x380000000 - 0x400000000]  
2023-07-23 15:14:05 - DIMM0 temperature: 40.250C  
2023-07-23 15:14:05 - DIMM1 temperature: 39.250C  
2023-07-23 15:14:05 - Current CPU temperature: 76C  
2023-07-23 15:14:35 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x400000000 - 0x480000000]  
2023-07-23 15:15:05 - DIMM0 temperature: 40.250C  
2023-07-23 15:15:05 - DIMM1 temperature: 39.500C  
2023-07-23 15:15:05 - Current CPU temperature: 78C  
2023-07-23 15:15:12 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x480000000 - 0x500000000]  
2023-07-23 15:15:48 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x500000000 - 0x580000000]  
2023-07-23 15:16:06 - DIMM0 temperature: 40.250C  
2023-07-23 15:16:06 - DIMM1 temperature: 39.500C  
2023-07-23 15:16:06 - Current CPU temperature: 82C  
2023-07-23 15:16:25 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x580000000 - 0x600000000]  
2023-07-23 15:17:01 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x600000000 - 0x680000000]  
2023-07-23 15:17:06 - DIMM0 temperature: 40.250C  
2023-07-23 15:17:06 - DIMM1 temperature: 39.500C  
2023-07-23 15:17:06 - Current CPU temperature: 63C  
2023-07-23 15:17:38 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x680000000 - 0x700000000]  
2023-07-23 15:18:06 - DIMM0 temperature: 40.250C  
2023-07-23 15:18:06 - DIMM1 temperature: 39.500C  
2023-07-23 15:18:06 - Current CPU temperature: 79C  
2023-07-23 15:18:15 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x700000000 - 0x780000000]  
2023-07-23 15:18:51 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x780000000 - 0x800000000]

2023-07-23 15:19:06 - DIMM0 temperature: 40.250C  
2023-07-23 15:19:06 - DIMM1 temperature: 39.500C  
2023-07-23 15:19:06 - Current CPU temperature: 82C  
2023-07-23 15:19:55 - MtSupportRunAllTests - Test execution time:  
689.041s (Test 13 cumulative error count: 0, buffer full count: 0)  
2023-07-23 15:19:55 - Finished pass #3 (of 4) (Cumulative error count:  
99, buffer full count: 0)  
2023-07-23 15:19:55 - Starting pass #4 (of 4)  
2023-07-23 15:19:55 - Running test #0 (Test 0 [Address test, walking  
ones, 1 CPU])  
2023-07-23 15:19:55 - MtSupportRunAllTests - Setting random seed to  
0x17FCB022  
2023-07-23 15:19:55 - MtSupportRunAllTests - Start time: 8886746 ms  
2023-07-23 15:19:55 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 15:19:55 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 15:19:55 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 15:19:56 - MtSupportRunAllTests - Test execution time: 0.790s  
(Test 0 cumulative error count: 0, buffer full count: 0)  
2023-07-23 15:19:56 - Running test #1 (Test 1 [Address test, own address,  
1 CPU])  
2023-07-23 15:19:56 - MtSupportRunAllTests - Setting random seed to  
0xFD5BE8C2  
2023-07-23 15:19:56 - MtSupportRunAllTests - Start time: 8887601 ms  
2023-07-23 15:19:56 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 15:19:56 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 15:19:56 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 15:19:59 - MtSupportRunAllTests - Test execution time: 3.516s  
(Test 1 cumulative error count: 0, buffer full count: 0)  
2023-07-23 15:19:59 - Running test #2 (Test 2 [Address test, own  
address])  
2023-07-23 15:19:59 - MtSupportRunAllTests - Setting random seed to  
0xBD9D484E  
2023-07-23 15:19:59 - MtSupportRunAllTests - Start time: 8891181 ms  
2023-07-23 15:19:59 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 15:19:59 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 15:19:59 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 15:20:06 - MtSupportRunAllTests - Test execution time: 6.461s  
(Test 2 cumulative error count: 0, buffer full count: 0)  
2023-07-23 15:20:06 - Running test #3 (Test 3 [Moving inversions, ones &  
zeroes])  
2023-07-23 15:20:06 - MtSupportRunAllTests - Setting random seed to  
0x95ABA630  
2023-07-23 15:20:06 - MtSupportRunAllTests - Start time: 8897713 ms  
2023-07-23 15:20:06 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 15:20:06 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 15:20:06 - Start memory range test (0x0 - 0x100000000000)

2023-07-23 15:20:06 - DIMM0 temperature: 40.500C  
2023-07-23 15:20:06 - DIMM1 temperature: 39.750C  
2023-07-23 15:20:06 - Current CPU temperature: 61C  
2023-07-23 15:20:44 - MtSupportRunAllTests - Test execution time: 37.823s  
(Test 3 cumulative error count: 0, buffer full count: 0)  
2023-07-23 15:20:44 - Running test #4 (Test 4 [Moving inversions, 8-bit  
pattern])  
2023-07-23 15:20:44 - MtSupportRunAllTests - Setting random seed to  
0x47EB7E89  
2023-07-23 15:20:44 - MtSupportRunAllTests - Start time: 8935599 ms  
2023-07-23 15:20:44 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 15:20:44 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 15:20:44 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 15:21:06 - DIMM0 temperature: 43.750C  
2023-07-23 15:21:06 - DIMM1 temperature: 43.250C  
2023-07-23 15:21:06 - Current CPU temperature: 70C  
2023-07-23 15:22:06 - DIMM0 temperature: 45.750C  
2023-07-23 15:22:06 - DIMM1 temperature: 45.250C  
2023-07-23 15:22:06 - Current CPU temperature: 71C  
2023-07-23 15:23:06 - DIMM0 temperature: 47.000C  
2023-07-23 15:23:06 - DIMM1 temperature: 46.500C  
2023-07-23 15:23:06 - Current CPU temperature: 71C  
2023-07-23 15:23:08 - MtSupportRunAllTests - Test execution time:  
144.911s (Test 4 cumulative error count: 16, buffer full count: 0)  
2023-07-23 15:23:08 - Running test #5 (Test 5 [Moving inversions, random  
pattern])  
2023-07-23 15:23:09 - MtSupportRunAllTests - Setting random seed to  
0x2E4CEB3C  
2023-07-23 15:23:09 - MtSupportRunAllTests - Start time: 9080574 ms  
2023-07-23 15:23:09 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 15:23:09 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 15:23:09 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 15:24:06 - DIMM0 temperature: 48.000C  
2023-07-23 15:24:06 - DIMM1 temperature: 47.500C  
2023-07-23 15:24:06 - Current CPU temperature: 72C  
2023-07-23 15:25:06 - DIMM0 temperature: 48.500C  
2023-07-23 15:25:06 - DIMM1 temperature: 48.000C  
2023-07-23 15:25:06 - Current CPU temperature: 71C  
2023-07-23 15:26:06 - DIMM0 temperature: 49.000C  
2023-07-23 15:26:06 - DIMM1 temperature: 48.500C  
2023-07-23 15:26:06 - Current CPU temperature: 72C  
2023-07-23 15:26:18 - MtSupportRunAllTests - Test execution time:  
189.324s (Test 5 cumulative error count: 0, buffer full count: 0)  
2023-07-23 15:26:18 - Running test #6 (Test 6 [Block move, 64-byte  
blocks])  
2023-07-23 15:26:18 - MtSupportRunAllTests - Setting random seed to  
0x9D9271FD  
2023-07-23 15:26:18 - MtSupportRunAllTests - Start time: 9269963 ms  
2023-07-23 15:26:18 - MtSupportRunAllTests - Enabling memory cache for  
test

2023-07-23 15:26:18 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 15:26:18 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 15:27:07 - DIMM0 temperature: 47.250C  
2023-07-23 15:27:07 - DIMM1 temperature: 46.500C  
2023-07-23 15:27:07 - Current CPU temperature: 53C  
2023-07-23 15:28:07 - DIMM0 temperature: 46.000C  
2023-07-23 15:28:07 - DIMM1 temperature: 45.500C  
2023-07-23 15:28:07 - Current CPU temperature: 52C  
2023-07-23 15:29:07 - DIMM0 temperature: 45.250C  
2023-07-23 15:29:07 - DIMM1 temperature: 44.750C  
2023-07-23 15:29:07 - Current CPU temperature: 52C  
2023-07-23 15:30:07 - DIMM0 temperature: 44.500C  
2023-07-23 15:30:07 - DIMM1 temperature: 44.000C  
2023-07-23 15:30:07 - Current CPU temperature: 52C  
2023-07-23 15:31:07 - DIMM0 temperature: 44.250C  
2023-07-23 15:31:07 - DIMM1 temperature: 43.750C  
2023-07-23 15:31:07 - Current CPU temperature: 52C  
2023-07-23 15:32:07 - DIMM0 temperature: 43.750C  
2023-07-23 15:32:07 - DIMM1 temperature: 43.500C  
2023-07-23 15:32:07 - Current CPU temperature: 52C  
2023-07-23 15:33:08 - DIMM0 temperature: 43.500C  
2023-07-23 15:33:08 - DIMM1 temperature: 43.250C  
2023-07-23 15:33:08 - Current CPU temperature: 52C  
2023-07-23 15:34:08 - DIMM0 temperature: 43.500C  
2023-07-23 15:34:08 - DIMM1 temperature: 43.000C  
2023-07-23 15:34:08 - Current CPU temperature: 52C  
2023-07-23 15:34:19 - MtSupportRunAllTests - Test execution time: 481.228s (Test 6 cumulative error count: 0, buffer full count: 0)  
2023-07-23 15:34:19 - Running test #7 (Test 7 [Moving inversions, 32-bit pattern])  
2023-07-23 15:34:19 - MtSupportRunAllTests - Setting random seed to 0xE5B3FBB5  
2023-07-23 15:34:19 - MtSupportRunAllTests - Start time: 9751256 ms  
2023-07-23 15:34:19 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 15:34:19 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 15:34:19 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 15:35:08 - DIMM0 temperature: 45.750C  
2023-07-23 15:35:08 - DIMM1 temperature: 45.250C  
2023-07-23 15:35:08 - Current CPU temperature: 75C  
2023-07-23 15:36:08 - DIMM0 temperature: 47.000C  
2023-07-23 15:36:08 - DIMM1 temperature: 46.500C  
2023-07-23 15:36:08 - Current CPU temperature: 77C  
2023-07-23 15:37:08 - DIMM0 temperature: 48.000C  
2023-07-23 15:37:08 - DIMM1 temperature: 47.250C  
2023-07-23 15:37:08 - Current CPU temperature: 75C  
2023-07-23 15:38:08 - DIMM0 temperature: 48.500C  
2023-07-23 15:38:08 - DIMM1 temperature: 47.750C  
2023-07-23 15:38:08 - Current CPU temperature: 76C  
2023-07-23 15:39:08 - DIMM0 temperature: 49.000C  
2023-07-23 15:39:08 - DIMM1 temperature: 48.250C  
2023-07-23 15:39:08 - Current CPU temperature: 77C

2023-07-23 15:40:09 - DIMM0 temperature: 49.250C  
2023-07-23 15:40:09 - DIMM1 temperature: 48.500C  
2023-07-23 15:40:09 - Current CPU temperature: 76C  
2023-07-23 15:41:09 - DIMM0 temperature: 49.500C  
2023-07-23 15:41:09 - DIMM1 temperature: 48.750C  
2023-07-23 15:41:09 - Current CPU temperature: 76C  
2023-07-23 15:42:09 - DIMM0 temperature: 49.750C  
2023-07-23 15:42:09 - DIMM1 temperature: 49.000C  
2023-07-23 15:42:09 - Current CPU temperature: 77C  
2023-07-23 15:43:09 - DIMM0 temperature: 50.000C  
2023-07-23 15:43:09 - DIMM1 temperature: 49.250C  
2023-07-23 15:43:09 - Current CPU temperature: 78C  
2023-07-23 15:43:44 - MtSupportRunAllTests - Test execution time:  
564.358s (Test 7 cumulative error count: 16, buffer full count: 0)  
2023-07-23 15:43:44 - Running test #8 (Test 8 [Random number sequence])  
2023-07-23 15:43:44 - MtSupportRunAllTests - Setting random seed to  
0x4758AB8F  
2023-07-23 15:43:44 - MtSupportRunAllTests - Start time: 10315677 ms  
2023-07-23 15:43:44 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 15:43:44 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 15:43:44 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 15:44:09 - DIMM0 temperature: 49.250C  
2023-07-23 15:44:09 - DIMM1 temperature: 48.250C  
2023-07-23 15:44:09 - Current CPU temperature: 95C  
2023-07-23 15:45:09 - DIMM0 temperature: 48.000C  
2023-07-23 15:45:09 - DIMM1 temperature: 47.250C  
2023-07-23 15:45:09 - Current CPU temperature: 95C  
2023-07-23 15:46:09 - DIMM0 temperature: 47.500C  
2023-07-23 15:46:09 - DIMM1 temperature: 46.750C  
2023-07-23 15:46:09 - Current CPU temperature: 95C  
2023-07-23 15:46:22 - MtSupportRunAllTests - Test execution time:  
158.283s (Test 8 cumulative error count: 0, buffer full count: 0)  
2023-07-23 15:46:22 - Running test #9 (Test 9 [Modulo 20, ones & zeros])  
2023-07-23 15:46:22 - MtSupportRunAllTests - Setting random seed to  
0x311D3B14  
2023-07-23 15:46:22 - MtSupportRunAllTests - Start time: 10474027 ms  
2023-07-23 15:46:22 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 15:46:22 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 15:46:22 - Start memory range test (0x0 - 0x100000000000)  
2023-07-23 15:46:51 - [MEM ERROR - Data] Test: 9, CPU: 10, Address:  
5A6A887C, Expected: 662C48DC, Actual: 99D3B723  
2023-07-23 15:47:00 - [MEM ERROR - Data] Test: 9, CPU: 14, Address:  
73CBA2E8, Expected: 808BF15B, Actual: 7F740EA4  
2023-07-23 15:47:09 - DIMM0 temperature: 48.750C  
2023-07-23 15:47:09 - DIMM1 temperature: 47.750C  
2023-07-23 15:47:09 - Current CPU temperature: 76C  
2023-07-23 15:47:32 - [MEM ERROR - Data] Test: 9, CPU: 10, Address:  
14A4BEBD8, Expected: 95282D8F, Actual: 6AD7D270  
2023-07-23 15:47:41 - [MEM ERROR - Data] Test: 9, CPU: 8, Address:  
16FB79068, Expected: C221967A, Actual: 3DDE6985

2023-07-23 15:47:58 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 1B1EA9FC0, Expected: 8A0A96E4, Actual: 75F5691B  
2023-07-23 15:48:09 - DIMM0 temperature: 49.500C  
2023-07-23 15:48:09 - DIMM1 temperature: 48.500C  
2023-07-23 15:48:09 - Current CPU temperature: 76C  
2023-07-23 15:48:15 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 1F42B9268, Expected: A274F4BE, Actual: 5D8B0B41  
2023-07-23 15:48:50 - [MEM ERROR - Data] Test: 9, CPU: 14, Address: 2638BF84C, Expected: 6652613D, Actual: 99AD9EC2  
2023-07-23 15:49:09 - DIMM0 temperature: 49.750C  
2023-07-23 15:49:09 - DIMM1 temperature: 49.000C  
2023-07-23 15:49:09 - Current CPU temperature: 76C  
2023-07-23 15:49:16 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 2C7CB8650, Expected: 2B3A7EAB, Actual: D4C58154  
2023-07-23 15:49:24 - [MEM ERROR - Data] Test: 9, CPU: 2, Address: 2F9AAC65C, Expected: 01FC2779, Actual: FE03D886  
2023-07-23 15:49:24 - [MEM ERROR - Data] Test: 9, CPU: 14, Address: 2E3895CEC, Expected: FE03D886, Actual: 01FC2779  
2023-07-23 15:49:50 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 351CA9040, Expected: 0D4DA5DF, Actual: F2B25A20  
2023-07-23 15:49:59 - [MEM ERROR - Data] Test: 9, CPU: 4, Address: 377CBFE58, Expected: 155BA60A, Actual: EAA459F5  
2023-07-23 15:50:07 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 393A352DC, Expected: 5C810581, Actual: A37EFA7E  
2023-07-23 15:50:07 - [MEM ERROR - Data] Test: 9, CPU: 6, Address: 393AB52FC, Expected: 5C810581, Actual: A37EFA7E  
2023-07-23 15:50:09 - DIMM0 temperature: 50.000C  
2023-07-23 15:50:09 - DIMM1 temperature: 49.250C  
2023-07-23 15:50:09 - Current CPU temperature: 77C  
2023-07-23 15:50:59 - [MEM ERROR - Data] Test: 9, CPU: 14, Address: 443CB9CEC, Expected: 9DC91E87, Actual: 6236E178  
2023-07-23 15:51:09 - DIMM0 temperature: 50.250C  
2023-07-23 15:51:09 - DIMM1 temperature: 49.250C  
2023-07-23 15:51:09 - Current CPU temperature: 76C  
2023-07-23 15:51:18 - [MEM ERROR - Data] Test: 9, CPU: 0, Address: 4BF928CF8, Expected: 028FD503, Actual: FD702AFC  
2023-07-23 15:51:18 - [MEM ERROR - Data] Test: 9, CPU: 0, Address: 4BFB28CD8, Expected: 028FD503, Actual: FD702AFC  
2023-07-23 15:51:34 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 4C7BEA2FC, Expected: 804097FB, Actual: 7FBF6804  
2023-07-23 15:52:10 - DIMM0 temperature: 50.250C  
2023-07-23 15:52:10 - DIMM1 temperature: 49.500C  
2023-07-23 15:52:10 - Current CPU temperature: 76C  
2023-07-23 15:52:34 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 5A94ABE74, Expected: 43B75504, Actual: BC48AAFB  
2023-07-23 15:52:51 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 5EAC9EBD4, Expected: 46C55DDE, Actual: B93AA221  
2023-07-23 15:53:10 - DIMM0 temperature: 50.250C  
2023-07-23 15:53:10 - DIMM1 temperature: 49.500C  
2023-07-23 15:53:10 - Current CPU temperature: 77C  
2023-07-23 15:53:52 - [MEM ERROR - Data] Test: 9, CPU: 12, Address: 6C6C9FA70, Expected: 9E433D4B, Actual: 61BCC2B4  
2023-07-23 15:54:10 - DIMM0 temperature: 50.250C  
2023-07-23 15:54:10 - DIMM1 temperature: 49.500C

2023-07-23 15:54:10 - Current CPU temperature: 77C  
2023-07-23 15:54:26 - [MEM ERROR - Data] Test: 9, CPU: 14, Address: 74369B87C, Expected: 83C60580, Actual: 7C39FA7F  
2023-07-23 15:54:26 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 749AAA060, Expected: 7C39FA7F, Actual: 83C60580  
2023-07-23 15:55:01 - [MEM ERROR - Data] Test: 9, CPU: 8, Address: 7CF09DC7C, Expected: 6F6CAB8C, Actual: 90935473  
2023-07-23 15:55:09 - [MEM ERROR - Data] Test: 9, CPU: 10, Address: 7E9EBB8F4, Expected: 7EA3AC6E, Actual: 815C5391  
2023-07-23 15:55:10 - DIMM0 temperature: 50.500C  
2023-07-23 15:55:10 - DIMM1 temperature: 49.500C  
2023-07-23 15:55:10 - Current CPU temperature: 77C  
2023-07-23 15:55:26 - MtSupportRunAllTests - Test execution time: 544.050s (Test 9 cumulative error count: 92, buffer full count: 0)  
2023-07-23 15:55:26 - Running test #10 (Test 10 [Bit fade test, 2 patterns, 1 CPU])  
2023-07-23 15:55:26 - MtSupportRunAllTests - Setting random seed to 0x4C2F1E22  
2023-07-23 15:55:26 - MtSupportRunAllTests - Start time: 11018143 ms  
2023-07-23 15:55:26 - MtSupportRunAllTests - Enabling memory cache for test  
2023-07-23 15:55:26 - MtSupportRunAllTests - Enabling memory cache complete  
2023-07-23 15:55:26 - Start bit fade test (0x0 - 0x100000000000)  
2023-07-23 15:55:28 - Starting Stage 0, Pattern=00000000  
2023-07-23 15:55:30 - Finished Stage 0, Pattern=00000000  
2023-07-23 15:55:30 - Sleep start time: 11021763  
2023-07-23 15:55:30 - Sleep time: 300000  
2023-07-23 15:55:30 - Test 10 - Sleeping (299 seconds remaining)  
2023-07-23 15:56:00 - Slept for 30 seconds  
2023-07-23 15:56:10 - DIMM0 temperature: 47.000C  
2023-07-23 15:56:10 - DIMM1 temperature: 46.250C  
2023-07-23 15:56:10 - Current CPU temperature: 53C  
2023-07-23 15:56:30 - Slept for 60 seconds  
2023-07-23 15:57:00 - Slept for 90 seconds  
2023-07-23 15:57:10 - DIMM0 temperature: 44.750C  
2023-07-23 15:57:10 - DIMM1 temperature: 44.000C  
2023-07-23 15:57:10 - Current CPU temperature: 52C  
2023-07-23 15:57:31 - Slept for 120 seconds  
2023-07-23 15:58:01 - Slept for 151 seconds  
2023-07-23 15:58:10 - DIMM0 temperature: 43.000C  
2023-07-23 15:58:10 - DIMM1 temperature: 42.500C  
2023-07-23 15:58:10 - Current CPU temperature: 51C  
2023-07-23 15:58:31 - Slept for 181 seconds  
2023-07-23 15:59:01 - Slept for 211 seconds  
2023-07-23 15:59:10 - DIMM0 temperature: 42.000C  
2023-07-23 15:59:10 - DIMM1 temperature: 41.500C  
2023-07-23 15:59:10 - Current CPU temperature: 51C  
2023-07-23 15:59:32 - Slept for 241 seconds  
2023-07-23 16:00:02 - Slept for 272 seconds  
2023-07-23 16:00:11 - DIMM0 temperature: 41.250C  
2023-07-23 16:00:11 - DIMM1 temperature: 40.750C  
2023-07-23 16:00:11 - Current CPU temperature: 51C  
2023-07-23 16:00:30 - Starting Stage 1, Pattern=00000000



2023-07-23 16:00:33 - Finished Stage 1, Pattern=00000000  
2023-07-23 16:00:33 - Starting Stage 0, Pattern=FFFFFFFF  
2023-07-23 16:00:35 - Finished Stage 0, Pattern=FFFFFFFF  
2023-07-23 16:00:35 - Sleep start time: 11327230  
2023-07-23 16:00:35 - Sleep time: 300000  
2023-07-23 16:00:35 - Test 10 - Sleeping (299 seconds remaining)  
2023-07-23 16:01:05 - Slept for 30 seconds  
2023-07-23 16:01:11 - DIMM0 temperature: 40.750C  
2023-07-23 16:01:11 - DIMM1 temperature: 40.250C  
2023-07-23 16:01:11 - Current CPU temperature: 51C  
2023-07-23 16:01:36 - Slept for 60 seconds  
2023-07-23 16:02:06 - Slept for 90 seconds  
2023-07-23 16:02:11 - DIMM0 temperature: 40.250C  
2023-07-23 16:02:11 - DIMM1 temperature: 39.750C  
2023-07-23 16:02:11 - Current CPU temperature: 50C  
2023-07-23 16:02:36 - Slept for 120 seconds  
2023-07-23 16:03:06 - Slept for 151 seconds  
2023-07-23 16:03:11 - DIMM0 temperature: 40.000C  
2023-07-23 16:03:11 - DIMM1 temperature: 39.500C  
2023-07-23 16:03:11 - Current CPU temperature: 50C  
2023-07-23 16:03:37 - Slept for 181 seconds  
2023-07-23 16:04:07 - Slept for 211 seconds  
2023-07-23 16:04:11 - DIMM0 temperature: 39.750C  
2023-07-23 16:04:11 - DIMM1 temperature: 39.250C  
2023-07-23 16:04:11 - Current CPU temperature: 50C  
2023-07-23 16:04:37 - Slept for 241 seconds  
2023-07-23 16:05:07 - Slept for 272 seconds  
2023-07-23 16:05:11 - DIMM0 temperature: 39.500C  
2023-07-23 16:05:11 - DIMM1 temperature: 39.000C  
2023-07-23 16:05:11 - Current CPU temperature: 50C  
2023-07-23 16:05:35 - Starting Stage 1, Pattern=FFFFFFFF  
2023-07-23 16:05:39 - Finished Stage 1, Pattern=FFFFFFFF  
2023-07-23 16:05:39 - MtSupportRunAllTests - Test execution time:  
612.523s (Test 10 cumulative error count: 0, buffer full count: 0)  
2023-07-23 16:05:39 - Running test #13 (Test 13 [Hammer test])  
2023-07-23 16:05:39 - MtSupportRunAllTests - Setting random seed to  
0x25B67A59  
2023-07-23 16:05:39 - MtSupportRunAllTests - Start time: 11630732 ms  
2023-07-23 16:05:39 - MtSupportRunAllTests - Enabling memory cache for  
test  
2023-07-23 16:05:39 - MtSupportRunAllTests - Enabling memory cache  
complete  
2023-07-23 16:05:39 - Start double-sided hammer test (0x0 -  
0x1000000000, Step size: 0x1000000)  
2023-07-23 16:05:39 - Using random pattern  
2023-07-23 16:05:39 - # of segments to hammer: 15 (SegSize=2048MB,  
SkipSize=0MB)  
2023-07-23 16:06:11 - DIMM0 temperature: 39.500C  
2023-07-23 16:06:11 - DIMM1 temperature: 39.000C  
2023-07-23 16:06:11 - Current CPU temperature: 81C  
2023-07-23 16:06:56 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x1000B000 - 0x9000B000]  
2023-07-23 16:07:11 - DIMM0 temperature: 39.750C  
2023-07-23 16:07:11 - DIMM1 temperature: 39.000C

2023-07-23 16:07:11 - Current CPU temperature: 82C  
2023-07-23 16:08:08 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x100000000 - 0x180000000]  
2023-07-23 16:08:11 - DIMM0 temperature: 39.750C  
2023-07-23 16:08:11 - DIMM1 temperature: 39.250C  
2023-07-23 16:08:11 - Current CPU temperature: 65C  
2023-07-23 16:08:45 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x180000000 - 0x200000000]  
2023-07-23 16:09:11 - DIMM0 temperature: 39.750C  
2023-07-23 16:09:11 - DIMM1 temperature: 39.250C  
2023-07-23 16:09:11 - Current CPU temperature: 79C  
2023-07-23 16:09:22 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x200000000 - 0x280000000]  
2023-07-23 16:09:59 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x280000000 - 0x300000000]  
2023-07-23 16:10:12 - DIMM0 temperature: 40.000C  
2023-07-23 16:10:12 - DIMM1 temperature: 39.250C  
2023-07-23 16:10:12 - Current CPU temperature: 81C  
2023-07-23 16:10:36 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x300000000 - 0x380000000]  
2023-07-23 16:11:12 - DIMM0 temperature: 40.000C  
2023-07-23 16:11:12 - DIMM1 temperature: 39.250C  
2023-07-23 16:11:12 - Current CPU temperature: 77C  
2023-07-23 16:11:13 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x380000000 - 0x400000000]  
2023-07-23 16:11:49 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x400000000 - 0x480000000]  
2023-07-23 16:12:12 - DIMM0 temperature: 40.000C  
2023-07-23 16:12:12 - DIMM1 temperature: 39.250C  
2023-07-23 16:12:12 - Current CPU temperature: 82C  
2023-07-23 16:12:27 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x480000000 - 0x500000000]  
2023-07-23 16:13:03 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x500000000 - 0x580000000]  
2023-07-23 16:13:12 - DIMM0 temperature: 40.000C  
2023-07-23 16:13:12 - DIMM1 temperature: 39.250C  
2023-07-23 16:13:12 - Current CPU temperature: 79C  
2023-07-23 16:13:40 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x580000000 - 0x600000000]  
2023-07-23 16:14:12 - DIMM0 temperature: 40.000C  
2023-07-23 16:14:12 - DIMM1 temperature: 39.250C  
2023-07-23 16:14:12 - Current CPU temperature: 78C  
2023-07-23 16:14:17 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x600000000 - 0x680000000]  
2023-07-23 16:14:54 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x680000000 - 0x700000000]  
2023-07-23 16:15:12 - DIMM0 temperature: 40.000C  
2023-07-23 16:15:12 - DIMM1 temperature: 39.250C  
2023-07-23 16:15:12 - Current CPU temperature: 82C  
2023-07-23 16:15:31 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x700000000 - 0x780000000]  
2023-07-23 16:16:08 - RunHammerTest - Running hammer test on 4 CPUs  
(512MB each) [0x780000000 - 0x800000000]  
2023-07-23 16:16:12 - DIMM0 temperature: 40.000C

2023-07-23 16:16:12 - DIMM1 temperature: 39.250C  
2023-07-23 16:16:12 - Current CPU temperature: 64C  
2023-07-23 16:17:12 - MtSupportRunAllTests - Test execution time:  
692.834s (Test 13 cumulative error count: 0, buffer full count: 0)  
2023-07-23 16:17:12 - Finished pass #4 (of 4) (Cumulative error count:  
124, buffer full count: 0)  
2023-07-23 16:17:12 - Cleanup - Unlocking all memory ranges...  
2023-07-23 16:17:12 - All memory ranges successfully unlocked  
2023-07-23 16:17:14 - Test result: FAIL (Errors: 124)  
2023-07-23 16:17:42 - Display test result summary  
2023-07-23 16:18:23 - Saving test report to MemTest86-Report-20230723-  
125148.html  
2023-07-23 16:18:23 - poll\_timings\_ryzen - [MC0]  
DramConfiguration=80050960  
2023-07-23 16:18:23 - poll\_timings\_ryzen - [MC0] DebugMisc=0B0008F8  
2023-07-23 16:18:23 - poll\_timings\_ryzen - [MC1]  
DramConfiguration=80050960  
2023-07-23 16:18:23 - poll\_timings\_ryzen - [MC1] DebugMisc=0B0008F8  
2023-07-23 16:18:23 - Test report was successfully saved  
2023-07-23 16:18:23 - Enabling graphics mode  
2023-07-23 16:18:23 - Get screen size  
2023-07-23 16:18:23 - Current screen size: 800 x 600  
2023-07-23 16:18:23 - Setting graphics mode to: 3 [1024 x 768]  
2023-07-23 16:18:23 - Successfully set graphics mode to: 3  
2023-07-23 16:18:23 - New screen size = 1024 x 768  
2023-07-23 16:18:23 - poll\_timings\_ryzen - [MC0]  
DramConfiguration=80050960  
2023-07-23 16:18:23 - poll\_timings\_ryzen - [MC0] DebugMisc=0B0008F8  
2023-07-23 16:18:23 - poll\_timings\_ryzen - [MC1]  
DramConfiguration=80050960  
2023-07-23 16:18:23 - poll\_timings\_ryzen - [MC1] DebugMisc=0B0008F8