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| H:\EFI\BOOT\mt86.png |

Summary

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| Report Date | 2019-02-24 09:59:40 |
| Generated by | MemTest86 V8.1 Free (64-bit) |
| Result | FAIL |

System Information

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| EFI Specifications | 2.60 |
| System |  |
| Manufacturer | Micro-Star International Co., Ltd |
| Product Name | MS-7C02 |
| Version | 1.0 |
| Serial Number | To be filled by O.E.M. |
| BIOS |  |
| Vendor | American Megatrends Inc. |
| Version | 1.30 |
| Release Date | 11/06/2018 |
| Baseboard |  |
| Manufacturer | Micro-Star International Co., Ltd |
| Product Name | B450 TOMAHAWK (MS-7C02) |
| Version | 1.0 |
| Serial Number | IC16253904 |
| CPU Type | AMD Ryzen 7 1700 Eight-Core  |
| CPU Clock | 3018 MHz [Turbo: 3772.9 MHz] |
| # Logical Processors | 16 |
| L1 Cache | 16 x 96K (83108 MB/s) |
| L2 Cache | 16 x 512K (62619 MB/s) |
| L3 Cache | 1 x 16384K (25900 MB/s) |
| Memory | 16346M (14137 MB/s) |
| DIMM Slot #0 | 8GB DDR4 XMP PC4-25600 |
|  | G Skill Intl / F4-3200C16-8GTZRX |
|  | 16-18-18-38 / 3200 MHz / 1.350V |
| DIMM Slot #1 | 8GB DDR4 XMP PC4-25600 |
|  | G Skill Intl / F4-3200C16-8GTZRX |
|  | 16-18-18-38 / 3200 MHz / 1.350V |

Result summary

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| Test Start Time | 2019-02-24 02:34:36 |
| Elapsed Time | 3:45:59 |
| Memory Range Tested | 0x0 - 41F380000 (16883MB) |
| CPU Selection Mode | Parallel (All CPUs) |
| ECC Polling | Enabled |
| # Tests Passed | 31/48 (64%) |

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| Lowest Error Address | 0x2D8708350 (11655MB) |
| Highest Error Address | 0x2DA710270 (11687MB) |
| Bits in Error Mask | 0000000000020000 |
| Bits in Error | 1 |
| Max Contiguous Errors | 1 |

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| Test | # Tests Passed | Errors |
| Test 0 [Address test, walking ones, 1 CPU] | 4/4 (100%) | 0 |
| Test 1 [Address test, own address, 1 CPU] | 4/4 (100%) | 0 |
| Test 2 [Address test, own address] | 4/4 (100%) | 0 |
| Test 3 [Moving inversions, ones & zeroes] | 4/4 (100%) | 0 |
| Test 4 [Moving inversions, 8-bit pattern] | 4/4 (100%) | 0 |
| Test 5 [Moving inversions, random pattern] | 4/4 (100%) | 0 |
| Test 6 [Block move, 64-byte blocks] | 0/4 (0%) | 2189 |
| Test 7 [Moving inversions, 32-bit pattern] | 0/4 (0%) | 160 |
| Test 8 [Random number sequence] | 0/4 (0%) | 126 |
| Test 9 [Modulo 20, ones & zeros] | 0/4 (0%) | 29 |
| Test 10 [Bit fade test, 2 patterns, 1 CPU] | 4/4 (100%) | 0 |
| Test 13 [Hammer test] | 3/4 (75%) | 1 |

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| Last 10 Errors |
| 2019-02-24 05:49:27 - [Data Error] Test: 9, CPU: 7, Address: 2D870C750, Expected: 1CB79AB4, Actual: 1CB59AB4 |
| 2019-02-24 05:49:24 - [Data Error] Test: 9, CPU: 7, Address: 2D870EB10, Expected: E348654B, Actual: E34A654B |
| 2019-02-24 05:49:24 - [Data Error] Test: 9, CPU: 7, Address: 2D8709ED0, Expected: E348654B, Actual: E34A654B |
| 2019-02-24 05:49:19 - [Data Error] Test: 9, CPU: 7, Address: 2D870EB10, Expected: 05B10CD7, Actual: 05B30CD7 |
| 2019-02-24 05:49:12 - [Data Error] Test: 9, CPU: 7, Address: 2D870C750, Expected: FA4EF328, Actual: FA4CF328 |
| 2019-02-24 05:49:08 - [Data Error] Test: 9, CPU: 7, Address: 2D870EB10, Expected: 38D5A576, Actual: 38D7A576 |
| 2019-02-24 05:49:08 - [Data Error] Test: 9, CPU: 7, Address: 2D8709ED0, Expected: 38D5A576, Actual: 38D7A576 |
| 2019-02-24 05:49:01 - [Data Error] Test: 9, CPU: 7, Address: 2D870C750, Expected: C72A5A89, Actual: C7285A89 |
| 2019-02-24 05:49:00 - [Data Error] Test: 9, CPU: 7, Address: 2D870F210, Expected: C72A5A89, Actual: C7285A89 |
| 2019-02-24 05:42:42 - [Data Error] Test: 8, CPU: 7, Address: 2D8708F90, Expected: EE86571D, Actual: EE84571D |

Certification

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| This document certifies that the Tests described above have been carried out by a suitably qualified technician on the System described above.  |

Signed

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