



MICROCODE REVISION GUIDANCE

JANUARY 23 2018

MICROCODE REVISION LIST – CLIENT

For those concerned about system stability while we finalize the updated solutions, we are also working with our OEM partners on the option to utilize a previous version of microcode that does not display these issues, but removes the Variant 2 (Spectre) mitigations. This would be delivered via a BIOS update, and would not impact mitigations for Variant 1 (Spectre) and Variant 3 (Meltdown).

| Product Names | Public Name | CPUID | STOP deployment of these MCU versions | Continue use of these MCU versions | Comments |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------|------------------------------------|-----------------------------------------------------------------|
| Coffee Lake-S + KBL PCH | 8th Generation Intel® Core™ Desktop Processor Family | 906EB | 80 | 0x72 | |
| Kaby Lake Refresh U4+2 | 8th Generation Intel® Core™ Mobile Processor Family | 806EA | 80 | 0x70 | |
| Kaby Lake U/Y, U23e | 7th Generation Intel® Core™ Mobile Processors | 806E9 | 80 | 0x70 | |
| Kaby Lake H/S/X/G, | 7th Generation Intel® Core™ Processor Family | 906E9 | 80 | 0x70 | |
| Skylake X | Intel® Core™ i9 79xxX, 78xxX | 50654 | 0200003A | 0200002E | |
| Skylake U/Y/U23e | 6th Generation Intel® Core™ m Processors | 406E3 | 000000C2 | 0xBE | |
| Skylake H/S | 6th Generation Intel® Core™ Processor Family | 506E3 | 000000C2 | 0xBE | |
| Broadwell U/Y | 5th Generation Intel® Core™ Processor Family, Intel® Pentium® Mobile Processor Family, and Intel® Celeron® Mobile Processor Family | 306D4 | 28 | 0x25 | |
| Broadwell H | 5th Generation Intel® Core™ Mobile Processor Family | 40671 | 0000001B | 0x17 | |
| Haswell ULT | 4th Generation Intel® Core™ Mobile Processor Family, Intel® Pentium® Mobile Processor Family, and Intel® Celeron® Mobile Processor Family | 40651 | 21 | 0x20 | |
| Haswell Perf | Intel® Core™ Extreme Processor (5960x, 5930x, 5820x) | 40661 | 18 | 0x17 | |
| Haswell | 4th Generation Intel® Core™ Mobile Processor Family, Intel® Pentium® Mobile Processor Family, and Intel® Celeron® Mobile Processor Family | 306C3 | 23 | 0x22 | |
| Ivy Bridge | 3rd Generation Intel® Core™ Mobile Processor Family, Intel® Pentium® Mobile Processor Family, and Intel® Celeron® Mobile Processor Family | 306A9 | N/A | 0x1C | Intel did not post a variant #2 mitigation MCU for this product |
| Sandy Bridge | Intel® Core™ i3-21xx/23xx-T/M/E/UE Processor, Intel® Core™ i5-23xx/24xx/25xx-T/S/M/K Processor Intel® Core™ i7-2xxx-S/K/M/QM/LE/UE/QE Processor Intel® Core™ i7-29xxXM Extreme Processor Intel® Celeron® Desktop G4xx, G5xx Processor Intel® Celeron® Mobile 8xx, B8xx Processor Intel® Pentium® Desktop 350, G6xx, G6xxT, G8xx Processor Intel® Pentium® Mobile 9xx, B9xx Processor | 206A7 | N/A | 0x29 | Intel did not post a variant #2 mitigation MCU for this product |

MICROCODE REVISION LIST - DATACENTER/WORKSTATION

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| Product Names | Public Name | CPUID | STOP deployment of these MCU versions | Continue use of these MCU versions | Comments |
|------------------------------|------------------------------------------------------------------------------------------|-------|---------------------------------------|------------------------------------|-----------------------------------------------------------------|
| Sandy Bridge | Intel® Xeon® Processor E3-1200 Product Family | 206A7 | N/A | 0x29 | Intel did not post a variant #2 mitigation MCU for this product |
| Sandy Bridge E, EN, EP, EP4S | Intel® Xeon® Processor E5 Product Family Intel® Pentium® Processor 1405 | 206D7 | N/A | 0x710 | Intel did not post a variant #2 mitigation MCU for this product |
| Sandy Bridge E, EN, EP, EP4S | Intel® Xeon® Processor E5 Product Family Intel® Pentium® Processor 1405 | 206D6 | N/A | 0x619 | Intel did not post a variant #2 mitigation MCU for this product |
| Ivy Bridge | Intel® Xeon® Processor E3-1200 v2 Product Family | 306A9 | N/A | 0x1C | Intel did not post a variant #2 mitigation MCU for this product |
| Ivy Bridge EN, EP | Intel® Xeon® Processor E5v2 Product Family | 306E4 | 0x42a | 0x428 | |
| Ivy Bridge EX | Intel® Xeon® Processor E7v2 Product Family | 306E7 | N/A | 0x70D | Intel did not post a variant #2 mitigation MCU for this product |
| Haswell EP, EN | Intel® Xeon® Processor E5v3 Product Family | 306F2 | 0x3b | 0x3a | |
| Haswell EX | Intel® Xeon® Processor E7v3 Product Family | 306F4 | 0x10 | 0x9 (M), 0xF (L) | |
| Haswell | Intel® Xeon® Processor E3-1200 v3 Product Family | 306C3 | 23 | 0x22 | |
| Broadwell DE | Intel® Xeon® Processor D-1500 Product Family | 50662 | 0x14 | 0xF | |
| Broadwell DE | Intel® Xeon® Processor D-1500 Product Family | 50663 | 0x7000011 | 0x700000D | |
| Broadwell DE | Intel® Xeon® Processor D-1500 Product Family | 50664 | N/A | 0x700000A | Intel did not post a variant #2 mitigation MCU for this product |
| Broadwell NS | Intel® Xeon® Processor D-1500 NS Product Family | 50665 | N/A | N/A | Intel did not post a variant #2 mitigation MCU for this product |
| Broadwell | Intel® Xeon® Processor E3v4 Product Family | 40671 | 0000001B | 0x17 | |
| Broadwell E, EP, EP4S, EX | Intel® Xeon® Processor E5v4 Product Family Intel® Xeon® Processor E7v4 Product Family | 406F1 | 0x25, 0x23 | 0x22 | |
| Kaby Lake (Xeon E3) | 7th Generation Intel® Core™ Processor Family | 906E9 | 0x80 | 0x5e | |
| Skylake (Xeon E3) | Intel Xeon Processor E3-1200 v5 Product Family | 506E3 | 000000C2 | 0xBE | |
| Skylake SP Basin Falls | Intel® Xeon® Scalable Processor Family Intel® Xeon® Processor W Product Family | 50654 | 0x3a, 0x3c | 0x39 | |

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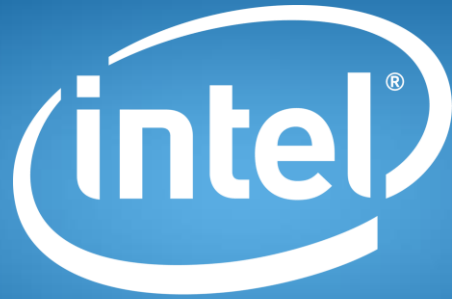
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