



MICROCODE REVISION GUIDANCE

JANUARY 24 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	84	0x72	
Kaby Lake Refresh U4+2	8th Generation Intel® Core™ Mobile Processor Family	806EA	84	0x70	
Kaby Lake U/Y, U23e	7th Generation Intel® Core™ Mobile Processors	806E9	84	0x70	
Kaby Lake H/S/X/G,	7th Generation Intel® Core™ Processor Family	906E9	84	0x70	
Skylake X	Intel® Core™ i9 79xxX, 78xxX	50654	0x0200003C 0x0200003A	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/J/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	0x11	
Broadwell DE	Intel® Xeon® Processor D-1500 Product Family	50663	0x7000011	0x700000E	
Broadwell DE	Intel® Xeon® Processor D-1500 Product Family	50664	N/A	0x700000C	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	0x35	

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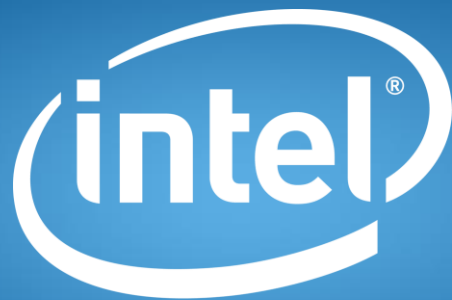
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