



# MICROCODE REVISION GUIDANCE

AUGUST 8 2018

# MCU RECOMMENDATIONS

The following table provides details of availability for microcode updates currently planned by Intel. Changes since the previous version are highlighted in yellow.

## LEGEND:

Production Status:

- Beta – Intel has released this production signed MCU under NDA for all customers to validate.
- Production – Intel has completed all validation and is authorizing customers to use this MCU in a production environment.

# MICROCODE UPDATE GUIDANCE

Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Apollo Lake	Intel® Pentium® Processor J Series Intel® Pentium® Processor N Series Intel® Celeron® Processor J Series Intel® Celeron® Processor N Series Intel® Atom® Processor A Series Intel® Atom® Processor E3900 Series	Intel® Pentium® Processor J4205, N4200 Intel® Celeron® Processor J3355, J3455, N3350, N3450 Intel® Atom® Processor x5-A3930, x5-A3940, x7-A3950, x7-A3960 Intel® Atom® Processor x5-E3930, x5-E3940, x7-E3950	Desktop Mobile Embedded	506C9	03	Yes	Production	0000002E	0x32
Apollo Lake	Intel® Atom® Processor E3900 Series	Intel® Atom® Processor x5-E3930, x5-E3940, x7-E3950	Embedded	506CA	03	Yes	Production	00000008	0x0C
Arrandale	Legacy Intel® Core™ Processors	Intel® Core™ Processor i7-620M, i7-620LM, i7-620UM, i7-640LM, i7-640UM Intel® Core™ Processor i5-430M, i5-520M, i5-520UM, i5-540M Intel® Core™ Processor i3-330M, i3-350M Intel® Celeron® Processor P4500, P4505	Mobile	20652	12	Yes	Production	0x10	0x11
Arrandale	Legacy Intel® Core™ Processors	Intel® Core™ Processor i7-610E, i7-620LE, i7-620LM, i7-620M, i7-620UE, i7-620UM, i7-640LM, i7-640M, i7-640UM, i7-660LM, i7-660UE, i7-660UM, i7-680UM Intel® Core™ Processor i5-430M, i5-430UM, i5-450M, i5-460M, i5-470UM, i5-480M, i5-520E, i5-520M, i5-520UM, i5-540M, i5-540UM, i5-560M, i5-560UM, i5-580M Intel® Core™ Processor i3-330E, i3-330M, i3-330UM, i3-350M, i3-370M, i3-380M, i3-380UM, i3-390M Intel® Pentium® Processor P6000, P6100, P6200, P6300, U5400, U5600 Intel® Celeron® Processor P4500, P4505, P4600, U3400, U3405, U3600	Mobile Embedded	20655	92	Yes	Production	0x6	0x7

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Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Broadwell DE A1	Intel® Xeon® Processor D Family	Intel® Xeon® Processor D-1513N, D-1523N, D-1533N, D-1543N, D1553N	Server	50665	10	Yes	Production	0xE000009	0xE00000A
Broadwell DE V1	Intel® Xeon® Processor D Family	Intel® Xeon® Processor D-1520, D-1540	Server	50662	10	Yes	Production	0x15	0x17
Broadwell DE V2,V3	Intel® Xeon® Processor D Family	Intel® Xeon® Processor D-1518, D-1519, D-1521, D-1527, D-1528, D-1529, D-1531, D-1533, D-1537, D-1541, D-1548 Intel® Pentium® Processor D1507, D1508, D1509, D1517, D1519	Server	50663	10	Yes	Production	0x7000012	0x7000013
Broadwell DE Y0	Intel® Xeon® Processor D Family	Intel® Xeon® Processor D-1557, D-1559, D-1567, D-1571, D-1577, D-1581, D-1587	Server	50664	10	Yes	Production	0xF000011	0xF000012
Broadwell E	Intel® Core™ X-series Processors	Intel® Core™ Processor Extreme Edition i7-6950K Intel® Core™ Processor i7-6800K, i7-6850, i7-6900K	Desktop	406F1	EF	Yes	Production	0xB00002A	0xB00002E
Broadwell H 43e	5th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-5700EQ, i7-5700HQ, i7-5750HQ, i7-5850EQ, i7-5850HQ, i7-5950HQ, Intel® Core™ Processor i5-5575R, i5-5675C, i5-5675R, i7-5775C, i7-5775R	Desktop Mobile Embedded	40671	22	Yes	Production	0x1D	0x1E
Broadwell Server E, EP, EP4S	Intel® Xeon® Processor E5 v4 Family	Intel® Xeon® Processor v4 E5-2603, E5-2608L, E5-2609, E5-2618L, E5-2620, E5-2623, E5-2628L, E5-2630L, E5-2630, E5-2637, E5-2640, E5-2643, E5-2648L, E5-2650L, E5-2650, E5-2658, E5-2660, E5-2667, E5-2679, E5-2680, E5-2683, E5-2690, E5-2695, E5-2697A, E5-2697, E5-2698, E5-2699A, E5-2699, E5-2699R, E5-4628L	Server Embedded	406F1	EF	Yes	Production	0xB00002A	0xB00002E
Broadwell Server EX	Intel® Xeon® Processor E7 v4 Family	Intel® Xeon® Processor v4 E7-4809, E7-4820, E7-4830, E7-4850, E7-8855, E7-8860, E7-8867, E7-8870, E7-8880, E7-8890, E7-8891, E7-8893, E7-8894	Server	406F1	EF	Yes	Production	0xB00002A	0xB00002E

# MICROCODE UPDATE GUIDANCE

Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Broadwell U	5th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-5650U, i7-5600U, i7-5557U, i7-5550U, i7-5500U Intel® Core™ Processor i5-5350U, i5-5350, i5-5300U, i5-5287U, i5-5257U, i5-5250U, i5-5200U Intel® Core™ Processor i3-5157U, i3-5020U, i3-5015U, i3-5010U, i3-5006U, i3-5005U, i3-5010U Intel® Pentium® Processor 3805U, 3825U, 3765U, 3755U, 3215U, 3205U Intel® Celeron® 3765U	Mobile	306D4	C0	Yes	Production	0x2A	0x2B
Broadwell Xeon E3	Intel® Xeon® Processor E3 v4 Family	Intel® Xeon® Processor v4 E3-1258L, E3-1265L, E3-1278L, E3-1285, E3-1285	Server	40671	22	Yes	Production	0x1D	0x1E
Broadwell Y	5th Generation Intel® Core™ Processor Family	Intel® Core™ Processor M-5Y71, M-5Y70, M-5Y51, M-5Y3, M-5Y10c, M-5Y10a, M-5Y10	Mobile	306D4	C0	Yes	Production	0x2A	0x2B
Broxton	Intel® Atom® Processor T Series	Intel® Atom® Processor T5500, T5700	Embedded	506C2	01	Yes	Production	0x10	0x14
Clarkdale	Legacy Intel® Core™ Processors Legacy Intel® Pentium® Processor	Intel® Core™ Processor i5-650, 660, 661, 670 Intel® Core™ Processor i3-530, 540, 550, 560 Intel® Pentium® Processor G6950	Desktop	20652	12	Yes	Production	0x10	0x11
Clarkdale	Legacy Intel® Core™ Processors Legacy Intel® Pentium® Processor	Intel® Core™ Processor i5-650, 655K, 660, 661, 670, 680 Intel® Core™ Processor i3-530, 540 Intel® Pentium® Processor G6950, G6951, G6960	Desktop	20655	92	Yes	Production	0x6	0x7
Clarkdale Xeon	Legacy Intel® Xeon® Processors	Intel® Xeon® Processor L3406	Server	20652	12	Yes	Production	0x10	0x11
Coffee Lake H (6+2)	8th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i9-8950HK Intel® Core™ Processor i7-8700B, i7-8750H, i7-8850H Intel® Core™ Processor i5-8300H, i5-8400B, i5-8400H, i5-8500B	Mobile	906EA	22	Yes	Production	0x84	0x96

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Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Coffee Lake S (6+2)	8th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-8670, i7-8670T, i7-8700, i7-8700K, i7-8700T Intel® Core™ Processor i5-8400, i5-8400T, i5-8420, i5-8420T, i5-8500, i5-8500T, i5-8550, i5-8600, i5-8600K, i5-8600T, i5-8650, i5-8650K	Desktop	906EA	22	Yes	Production	0x84	0x96
Coffee Lake S (6+2) Xeon E	Intel® Xeon® Processor E Family	Intel® Xeon® Processor E-2176M, E-2186M	Mobile	906EA	22	Yes	Production	0x84	0x96
Coffee Lake U43e	8th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-8559U Intel® Core™ Processor i5-8259U, 8269U Intel® Core™ Processor i3-8109U	Mobile	806EA	C0	Yes	Production	0x84	0x96
Coffee Lake S (4+2)	8th Generation Intel® Core™ Processor Family Intel® Pentium® Gold Processor Series Intel® Celeron® Processor G Series	Intel® Core™ Processor i3-8000, i3-8000T, i3-8020, i3-8100, i3-8100, i3-8100T, i3-8120, i3-8300, i3-8300T, i3-8350K Intel® Pentium® Gold G5400, G5400T, G5400T, G5420, G5420T, G5420T, G5500, G5500T, G5600 Intel® Celeron® Processor G4900, G4900T, G4920	Desktop	906EB	02	Yes	Production	0x84	0x8E
Coffee Lake S (4+2) Xeon E	Intel® Xeon® Processor E Family	TBD	Mobile	906EA	22	Yes	Production	0x84	0x96
Coffee Lake S (6+2) x/KBP	8th Generation Intel® Core™ Processor Family	TBD	Desktop	906EA	22	Yes	Production	0x84	0x96
Denverton	Intel® Atom® Processor C Series	Intel® Atom® Processor C3308, C3338, C3508, C3538, C3558, C3708, C3750, C3758, C3808, C3830, C3850, C3858, C3950, C3955, C3958	Server Embedded	506F1	01	Yes	Production	0x20	0x24

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Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Gemini Lake	Intel® Pentium® Processor Silver Series Intel® Celeron® Processor J Series Intel® Celeron® Processor N Series	Intel® Pentium® Silver Processor J5005, N5000 Intel® Celeron® Processor J4005, J4105 Intel® Celeron® Processor N4000, N4100	Desktop Mobile Embedded	706A1	01	Yes	Production	0x22	0x28
Gladden	Legacy Intel® Core™ Processors Legacy Intel® Pentium® Processor Legacy Intel® Celeron® Processor Intel® Xeon® Processor E3 Family	Intel® Core™ Processor i3-2115C, i3-3115C Intel® Pentium® Processor B915C, B925C Intel® Celeron® Processor 725C Intel® Xeon® Processor E3-1105C, E3-1125C, E3-1105C v2, E3-1125C v2	Embedded	306A9	---	Yes	Production	0x1F	0x20
Haswell Desktop	4th Generation Intel® Core™ Processor Family Intel® Pentium® Processor Family	Intel® Core™ Processor i7-4765T, i7-4770, i7-4770K, i7-4770S, i7-4770T, i7-4771 Intel® Core™ Processor i5-4430, i5-4430S, i5-4440, i5-4440S, i5-4570, i5-4570S, i5-4570T, i5-4670, i5-4670K, i5-4670S, i5-4670T Intel® Core™ Processor i3-4130, i3-4130T, i3-4330, i3-4330T, i3-4340 Intel® Pentium® Processor G3220, G3220T, G3420, G3430	Desktop	306C3	32	Yes	Production	0x24	0x25
Haswell E	Intel® Core™ X-series Processors	Intel® Core™ Processor Extreme Edition i7-5960X Intel® Core™ Processor i7-5820K, i7-5930K	Desktop	306F2	6F	Yes	Production	0x3C	0x3D
Haswell H	4th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-4700EC, i7-4700HQ, i7-4702EC, i7-4702HQ, i7-4710HQ, i7-4712HQ, i7-4720HQ, i7-4722HQ, i7-4750HQ, i7-4760HQ, i7-4770HQ, i7-4850HQ, i7-4870HQ, i7-4950HQ, i7-4960HQ, i7-4980HQ Intel® Core™ Processor i5-4210H, i5-4402EC	Mobile	40661	32	Yes	Production	0x19	0x1A

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Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Haswell M	4th Generation Intel® Core™ Processor Family Intel® Pentium® Processor Family Intel® Celeron® Processor Family	Intel® Core™ Processor Extreme Edition i7-4930MX Intel® Core™ Processor i7-4700EQ, i7-4700MQ, i7-4702MQ, i7-4710MQ, i7-4712MQ, i7-4800MQ, i7-4900MQ Intel® Core™ Processor i5-4210M, i5-4400E, i5-4422E Intel® Core™ Processor i3-4100M, i3-4110M Intel® Pentium® 3560M Intel® Celeron® 2970M	Mobile	306C3	32	Yes	Production	0x24	0x25
Haswell R	4th Generation Intel® Core™ Processor Family Intel® Pentium® Processor Family	Intel® Core™ Processor i7-4770R Intel® Core™ Processor i5-4570R, i5-4670R	Desktop	40661	32	Yes	Production	0x19	0x1A
Haswell Server EP, EP4S	Intel® Xeon® Processor E5 v3 Family	Intel® Xeon® Processor v3 E5-1428L, E5-1603, E5-1607, E5-1620, E5-1630, E5-1650, E5-1660, E5-1680, E5-2408L, E5-2418L, E5-2428L, E5-2438L, E5-2603, E5-2608L, E5-2608L, E5-2609, E5-2618L, E5-2620, E5-2623, E5-2628L, E5-2630, E5-2630L, E5-2637, E5-2640, E5-2643, E5-2648L, E5-2650, E5-2650L, E5-2658, E5-2660, E5-2667, E5-2670, E5-2680, E5-2683, E5-2685, E5-2687W, E5-2690, E5-2695, E5-2697, E5-2698, E5-2699, E5-4610, E5-4620, E5-4627, E5-4640, E5-4648, E5-4650, E5-4655, E5-4660, E5-4667, E5-4669	Server	306F2	6F	Yes	Production	0x3C	0x3D
Haswell Server EX	Intel® Xeon® Processor E7 v3 Family	Intel® Xeon® Processor v3 E7-4809, E7-4820, E7-4830, E7-4850, E7-8860, E7-8867, E7-8870, E7-8880L, E7-8880, E7-8890, E7-8891, E7-8893	Server	306F4	80	Yes	Production	0x11	0x12



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Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Haswell U	4th Generation Intel® Core™ Processor Family Intel® Pentium® Processor Family	Intel® Core™ Processor i7-4500U, i7-4510U, i7-4550U, i7-4558U, i7-4578U, i7-4600U, i7-4650U Intel® Core™ Processor i5-4200U, i5-4210U, i5-4250U, i5-4258U, i5-4260U, i5-4278U, i5-4288U, i5-4300U, i5-4308U, i5-4350U Intel® Core™ Processor i3-4005U, i3-4010U, i3-4025U, i3-4030U, i3-4100U, i3-4120U, i3-4158U Intel® Pentium® Processor 3556U, 3558U, 3665U Intel® Celeron® Processor 2955U, 2957U, 2980U, 2981U	Mobile	40651	72	Yes	Production	0x23	0x24
Haswell Xeon E3	Intel® Xeon® Processor E3 v3 Family	Intel® Xeon® Processor v3 E3-1220, E3-1225, E3-1230L, E3-1230, E3-1240, E3-1245, E3-1270, E3-1275L, E3-1275, E3-1280, E3-1285L, E3-1285, E3-1285L, E3-1285	Server	306C3	32	Yes	Production	0x24	0x25
Haswell Y	4th Generation Intel® Core™ Processor Family Intel® Pentium® Processor Family	Intel® Core™ Processor i7-4610Y Intel® Core™ Processor i5-4200Y, i5-4202Y, i5-4210Y, i5-4220Y, i5-4300Y, i5-4302Y Intel® Core™ Processor i3-4010Y, i3-4012Y, i3-4020Y, i3-4030Y Intel® Pentium® Processor 3560Y, 3561Y	Mobile	40651	72	Yes	Production	0x23	0x24

# MICROCODE UPDATE GUIDANCE

Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Ivy Bridge	3rd Generation Intel® Core™ Processor Family Intel® Pentium® Processor Family Intel® Celeron® Processor Family	Intel® Core™ Processor Extreme Edition i7-3920XM, i7-3940XM Intel® Celeron® Processor 1000M, 1005M, 1007U, 1017U, 1019Y, 1020E, 1020M, 1037U, 1047UE, 927UE, G1610, G1610T, G1620, G1620T, G1630 Intel® Core™ Processor i7-3517U, i7-3517UE, i7-3520M, i7-3537U, i7-3540M, i7-3555LE, i7-3610QE, i7-3610QM, i7-3612QE, i7-3612QM, i7-3612QM, i7-3615QE, i7-3615QM, i7-3630QM, i7-3632QM, i7-3632QM, i7-3635QM, i7-3667U, i7-3687U, i7-3689Y, i7-3720QM, i7-3740QM, i7-3770, i7-3770K, i7-3770S, i7-3770T, i7-3820QM, i7-3840QM Intel® Core™ Processor i5-3210M, i5-3210M, i5-3230M, i5-3230M, i5-3317U, i5-3320M, i5-3330, i5-3330S, i5-3337U, i5-3339Y, i5-3340, i5-3340M, i5-3340S, i5-3350P, i5-3360M, i5-3380M, i5-3427U, i5-3437U, i5-3439Y, i5-3450, i5-3450S, i5-3470, i5-3470S, i5-3470T, i5-3475S, i5-3550, i5-3550S, i5-3570, i5-3570K, i5-3570S, i5-3570T, i5-3610ME Intel® Core™ Processor i3-3110M, i3-3120M, i3-3120ME, i3-3130M, i3-3210, i3-3217U, i3-3217UE, i3-3220, i3-3220T, i3-3225, i3-3227U, i3-3229Y, i3-3240, i3-3240T, i3-3245, i3-3250, i3-3250T Intel® Pentium® Processor 1405 v2, 2020M, 2030M, 2117U, 2127U, 2129Y, A1018, G2010, G2020, G2020T, G2030, G2030T, G2100T, G2120, G2120T, G2130, G2140	Mobile	306A9	12	Yes	Production	0x1F	0x20
Ivy Bridge E	Intel® Core™ X-series Processors	Intel® Core™ Processor Extreme Edition i7-4960X Intel® Core™ Processor i7-4820K, i7-4930K	Desktop	306E4	ED	Yes	Production	0x42C	0x42D

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Ivy Bridge Server EN, EP, EP4S	Intel® Xeon® Processor E5 v2 Family	Intel® Xeon® Processor v2 E5-1428L, E5-1620, E5-1650, E5-1660, E5-2403, E5-2407, E5-2418L, E5-2420, E5-2428L, E5-2430, E5-2430L, E5-2440, E5-2448L, E5-2450, E5-2450L, E5-2470, E5-2603, E5-2609, E5-2618L, E5-2620, E5-2628L, E5-2630, E5-2630L, E5-2637, E5-2640, E5-2643, E5-2648L, E5-2650, E5-2650L, E5-2658, E5-2660, E5-2667, E5-2670, E5-2680, E5-2687W, E5-2690, E5-2695, E5-2697, E5-4603, E5-4607, E5-4610, E5-4620, E5-4624L, E5-4627, E5-4640, E5-4650, E5-4657L	Server	306E4	ED	Yes	Production	0x42C	0x42D
Ivy Bridge Server EX	Intel® Xeon® Processor E7 v2 Family	Intel® Xeon® Processor v2 E7-2850, 2870, 2880, 2890, 4809, 4820, 4830, 4850, 4860, 4870, 4880, 4890, 8893, 8891, 8890, 8880L, 8880, 8870, 8857, 8850	Server	306E7	ED	Yes	Production	0x713	0x714
Ivy Bridge Xeon E3	Intel® Xeon® Processor E3 v2 Family	Intel® Xeon® Processor v2 E3-1220, E3-1220L, E3-1225, E3-1230, E3-1235, E3-1240, E3-1245, E3-1265L, E3-1270, E3-1275, E3-1280, E3-1290	Server	306A9	12	Yes	Production	0x1F	0x20
Kaby Lake G	8th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-8705G, i7-8706G, i7-8709G, i7-8809G Intel® Core™ Processor i5-8305G	Mobile	906E9	2A	Yes	Production	0x84	0x8E
Kaby Lake H	7th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-7700HQ, i7-7820HK, i7-7820HQ, i7-7920HQ Intel® Core™ Processor i5-7300HQ, i5-7440HQ Intel® Core™ i3-7100H	Mobile	906E9	2A	Yes	Production	0x84	0x8E
Kaby Lake Refresh U 4+2	8th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-8550U, i7-8650U Intel® Core™ Processor i5-8250U, i5-8350U Intel® Core™ Processor i3-7020U, i3-8130U	Mobile	806EA	C0	Yes	Production	0x84	0x96

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Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Kaby Lake S	7th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-7700, i7-7700K, i7-7700T Intel® Core™ Processor i5-7400, i5-7400T, i5-7500, i5-7500T, i5-7600, i5-7600K, i5-7600T Intel® Core™ Processor i3-7120, i3-7120T, i3-7320T, i3-7340 Intel® Celeron® Processor G3930E, G3930TE	Desktop	906E9	2A	Yes	Production	0x84	0x8E
Kaby Lake U	7th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-7500U, i7-7510U, i7-7600U Intel® Core™ Processor i5-7200U, i5-7210U, i5-7300U, i5-7500U Intel® Core™ Processor i3-7007U, i3-7100U, i3-7110U, i3-7130U, Intel® Pentium® Processor 4415U Intel® Celeron® Processor 3865U, 3965U	Mobile	806E9	C0	Yes	Production	0x84	0x8E
Kaby Lake U23e	7th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-7560U, i7-7567U, i7-7660U, Intel® Core™ Processor i5-7260U, i5-7267U, i5-7287U, i5-7360U Intel® Core™ Processor i3-7167U	Mobile	806E9	C0	Yes	Production	0x84	0x8E
Kaby Lake X	Intel® Core™ X-series Processors	Intel® Core™ Processor i7-7740X Intel® Core™ Processor i5-7640X	Desktop	906E9	2A	Yes	Production	0x84	0x8E
Kaby Lake Xeon E3	Intel® Xeon® Processor E3 v6 Family	Intel® Xeon® Processor v6 E3-1220, E3-1225, E3-1230, E3-1240, E3-1245, E3-1270, E3-1275, E3-1280, E3-1501L, E3-1501M, E3-1505L, E3-1505M, E3-1535M	Mobile Server Embedded	906E9	2A	Yes	Production	0x84	0x8E
Kaby Lake Y	7th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-7Y75 Intel® Core™ Processor i5-7Y54, i5-7Y57 Intel® Core™ Processor M3-7Y30, M3-7Y30 Intel® Pentium® Processor 4410Y, 4415Y Intel® Celeron® Processor 3965Y	Mobile	806E9	C0	Yes	Production	0x84	0x8E

# MICROCODE UPDATE GUIDANCE

Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Lynnfield	Legacy Intel® Core™ Processors	Intel® Core™ Processor i7-860, 860S, 870, 870S, 875K, 880 Intel® Core™ Processor i5-750, 750S, 760	Desktop	106E5	13	Yes	Production	0x09	0x0A
Lynnfield Xeon	Legacy Intel® Xeon® Processors	Intel® Xeon® Processor L3426 Intel® Xeon® Processor X3430, X3440, X3450, X3460, X3470, X3480	Server	106E5	13	Yes	Production	0x09	0x0A
Nehalem EP, Nehalem WS	Legacy Intel® Xeon® Processors	Intel® Xeon® Processor E5502, E5503, E5504, E5506, E5507, E5520, E5530, E5540 Intel® Xeon® Processor L5506, L5508, L5518, L5520, L5530 Intel® Xeon® Processor W5580, W5590 Intel® Xeon® Processor X5550, X5560, X5570	Server Embedded	106A5	03	Yes	Production	0x1C	0x1D
Nehalem EX	Legacy Intel® Xeon® Processors	Intel® Xeon® Processor E6510, E6540, E7520, E7530, E7540, L7545, L7555, X6550, X7542, X7550, X7560	Server	206E6	04	Yes	Production	0x0C	0x0D

# MICROCODE UPDATE GUIDANCE

Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Sandy Bridge	Legacy Intel® Core™ Processors	<p>Intel® Core™ Processor Extreme Edition i7-2920XM, i7-2960XM</p> <p>Intel® Core™ Processor i7-2600, i7-2600K, i7-2600S, i7-2610UE, i7-2617M, i7-2620M, i7-2629M, i7-2630QM, i7-2635QM, i7-2637M, i7-2640M, i7-2649M, i7-2655LE, i7-2657M, i7-2670QM, i7-2675QM, i7-2677M, i7-2700K, i7-2710QE, i7-2715QE, i7-2720QM, i7-2760QM, i7-2820QM, i7-2860QM</p> <p>Intel® Core™ Processor i5-2300, i5-2310, i5-2320, i5-2380P, i5-2390T, i5-2400, i5-2400S, i5-2405S, i5-2410M, i5-2430M, i5-2435M, i5-2450M, i5-2450P, i5-2467M, i5-2500, i5-2500K, i5-2500S, i5-2500T, i5-2510E, i5-2515E, i5-2520M, i5-2537M, i5-2540M, i5-2550K, i5-2557M</p> <p>Intel® Core™ Processor i3-2100, i3-2100T, i3-2102, i3-2105, i3-2120, i3-2120T, i3-2125, i3-2130, i3-2310E, i3-2310M, i3-2312M, i3-2328M, i3-2330E, i3-2330M, i3-2332M, i3-2340UE, i3-2348M, i3-2350M, i3-2357M, i3-2365M, i3-2367M, i3-2370M, i3-2375M, i3-2377M</p> <p>Intel® Pentium® Processor 957, 967, 977, 987, 997, B940, B950, B960, B970, B980, G620, G620T, G622, G630, G630T, G632, G640, G640T, G645, G645T, G840, G850, G860, G860T, G870</p> <p>Intel® Celeron® Processor 787, 797, 807, 807UE, 827E, 847, 847E, 857, 867, 877, 887, B710, B720, B800, B810, B810E, B815, B820, B830, B840, G440, G460, G465, G470, G530, G530T, G540, G540T, G550, G550T, G555</p>	Desktop Mobile Embedded	206A7	12	Yes	Production	0x2D	0x2E
Sandy Bridge E	Intel® Core™ X-series Processors	<p>Intel® Core™ Processor Extreme Edition i7-3960X, i7-3970X</p> <p>Intel® Core™ Processor i7-3820, 3930K</p>	Desktop	206D7	6D	Yes	Production	0x713	0x714

# MICROCODE UPDATE GUIDANCE

Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Sandy Bridge Server EN/EP/EP4S	Intel® Xeon® Processor E5 Family	Intel® Xeon® Processor E5-2620, E5-2630, E5-2630L, E5-2640, E5-2650, E5-2650L, E5-2660, E5-2667, E5-2670, E5-2680, E5-2690	Server	206D6	6D	Yes	Production	0x61C	0x61D
Sandy Bridge Server EN/EP/EP4S	Intel® Xeon® Processor E5 Family	Intel® Xeon® Processor E5-1428L, E5-1620, E5-1650, E5-1660, E5-2403, E5-2407, E5-2418L, E5-2420, E5-2428L, E5-2430, E5-2430L, E5-2440, E5-2448L, E5-2450, E5-2450L, E5-2470, E5-2603, E5-2609, E5-2620, E5-2630, E5-2630L, E5-2637, E5-2640, E5-2643, E5-2648L, E5-2650, E5-2650L, E5-2658, E5-2660, E5-2665, E5-2667, E5-2670, E5-2680, E5-2687W, E5-2690, E5-4603, E5-4607, E5-4610, E5-4617, E5-4620, E5-4640, E5-4650, E5-4650L Intel® Pentium® Processor 1405	Server Embedded	206D7	6D	Yes	Production	0x713	0x714
Sandy Bridge Xeon E3	Intel® Xeon® Processor E3 Family	Intel® Xeon® Processor E3-1120, E3-1120L, E3-1225, E3-1230, E3-1235, E3-1240, E3-1245, E3-1260L, E3-1265L, E3-1270, E3-1275, E3-1280, E3-1285, E3-1290	Server	206A7	12	Yes	Production	0x2D	0x2E
Skylake D, Bakerville	Intel® Xeon® Processor D Family	Intel® Xeon® Processor D-2123IT, D-2141I, D-2142IT, D-2143IT, D-2145NT, D-2146NT, D-2161I, D-2163IT, D-2166NT, D-2173IT, D-2177NT, D-2183IT, D-2187NT	Server	50654	B7	Yes	Production	0x2000043	0x200004D
Skylake H	6th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-6700HQ, i7-6770HQ, i7-6820HK, i7-6820HQ, i7-6870HQ, i7-6920HQ, i7-6970HQ Intel® Core™ Processor i5-6300HQ, i5-6350HQ, i5-6440HQ Intel® Core™ Processor i3-6100H	Mobile	506E3	36	Yes	Production	0xC2	0xC6

# MICROCODE UPDATE GUIDANCE

Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Skylake S	6th Generation Intel® Core™ Processor Family	Intel® Core™ Processor i7-6700, i7-6700K, i7-6700T Intel® Core™ Processor i5-6400, i5-6400T, i5-6500, i5-6500T, i5-6600, i5-6600K, i5-6600T Intel® Core™ Processor i3-6100, i3-6100T, i3-6120, i3-6120T, i3-6300, i3-6300T, i3-6320, i3-6320T Intel® Pentium® Processor G4400, G4400T, G4420, G4420T, G4500, G4500T, G4520, G4520T, G4540 Intel® Celeron® Processor G3900, G3900T, G3920, G3920T, G3940	Desktop	506E3	36	Yes	Production	0xC2	0xC6
Skylake Server	Intel® Xeon® Scalable Processors	Intel® Xeon® Platinum Processor 8153, 8156, 8158, 8160, 8160F, 8160M, 8160T, 8164, 8168, 8170, 8170M, 8176, 8176F, 8176M, 8180, 8180M Intel® Xeon® Gold Processor 5115, 5118, 5119T, 5120, 5120T, 5122, 6126, 6126F, 6126T, 6128, 6130, 6130F, 6130T, 6132, 6134, 6134M, 6136, 6138, 6138F, 6138T, 6140, 6140M, 6142, 6142F, 6142M, 6144, 6146, 6148, 6148F, 6150, 6152, 6154 Intel® Xeon® Silver Processor 4108, 4109T, 4110, 4112, 4114, 4114T, 4116, 4116T Intel® Xeon® Bronze Processor 3104, 3106	Server	50654	B7	Yes	Production	0x2000043	0x200004D
Skylake U	6th Generation Intel® Core™ Processors	Intel® Core™ Processor i7-6500U, i7-6510U, i7-6600U Intel® Core™ Processor i5-6200U, i5-6210U, i5-6300U, i5-6310U Intel® Core™ Processor i3-6100U, i3-6110U Intel® Pentium® Processor 4405U, 4415U Intel® Celeron® Processor 3855U, 3865U, 3955U, 3965U	Mobile	406E3	C0	Yes	Production	0xC2	0xC6



# MICROCODE UPDATE GUIDANCE

Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Skylake U23e	6th Generation Intel® Core™ Processor Family	Intel® Core™ Processor I7-6560U, I7-6567U, I7-6650U, I7-6660U Intel® Core™ Processor I5-6260U, I5-6267U, I5-6287U, I5-6360U Intel® Core™ Processor I3-6167U	Mobile	406E3	C0	Yes	Production	0xC2	0xC6
Skylake W	Intel® Xeon® Processor W Family	Intel® Xeon® Processor W-2123, W-2125, W-2133, W-2135, W-2145, W-2155, W-2195, W-2175	Server	50654	B7	Yes	Production	0x2000043	0x200004D
Skylake X	Intel® Core™ X-series Processors	Intel® Core™ Extreme Edition Processor i9-7980XE Intel® Core™ X-series Processor i9-7900X, i9-7920X, i9-7940X, i9-7960X Intel® Core™ X-series Processor i7-7800X, i7-7820X	Desktop	50654	B7	Yes	Production	0x2000043	0x200004D
Skylake Xeon E3	Intel® Xeon® Processor E3 v5 Family	Intel® Xeon® Processor v5 E3-1220, E3-1225, E3-1230, E3-1235L, E3-1240, E3-1240L, E3-1245, E3-1260L, E3-1270, E3-1275, E3-1280, E3-1505M, E3-1515M, E3-1535M, E3-1545M, E3-1558L, E3-1565L, E3-1575M, E3-1578L, E3-1585, E3-1585L	Server Mobile Embedded	506E3	36	Yes	Production	0xC2	0xC6
Skylake Y	6th Generation Intel® Core™ Processor Family	Intel® Core™ Processor m7-6Y75 Intel® Core™ Processor m5-6Y54, m5-6Y57 Intel® Core™ Processor m3-6Y30 Intel® Pentium® Processor 4405Y	Mobile	406E3	C0	Yes	Production	0xC2	0xC6
Westmere EP, WS	Legacy Intel® Xeon® Processors	Intel® Xeon® Processor E5603, E5606, E5607, E5620, E5630, E5640, E5645, E5649 Intel® Xeon® Processor L5609, L5618, L5630, L5638, L5640 Intel® Xeon® Processor W3670, W3680 Intel® Xeon® Processor X5647, X5650, X5660, X5667, X5670, X5672, X5675, X5677, X5680, X5687, X5690	Server	206C2	03	Yes	Production	0x1E	0x1F

# MICROCODE UPDATE GUIDANCE

Code Name	Product Collection	Product Names	Vertical Segment	CPUID	Platform ID	OS Update for Q2	Production Status	Pre-Mitigation Production MCU	New Production MCU Rev
Westmere EX (EGL, WSM)	Intel® Xeon® Processor E7 Family	Intel® Xeon® Processor E7-2803, 2820, 2830, 2850, 2860, 2870, 4807, 4820, 4830, 4850, 4860, 4870, 8830, 8837, 8850, 8860, 8867L, 8870	Server	206F2	05	Yes	Production	0x3A	0x3B

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