

Intel CPU

Year	Name/Link	tech	feature	Passmark	Geekbench 6
2008	https://en.wikipedia.org/wiki/Nehalem_(microarchitecture)	45 nm	- MMX, SSE, SSE2, SSE3, SSSE3, SSE4, SSE4.1, SSE4.2 - VT-x, VT-d		
2010	https://en.wikipedia.org/wiki/Westmere_(microarchitecture)	32nm	- AES-NI, CLMUL - MMX, SSE, SSE2, SSE3, SSSE3, SSE4, SSE4.1, SSE4.2 - VT-x, VT-d		
2011	https://en.wikipedia.org/wiki/Sandy_Bridge	32nm	- MMX, SSE, SSE2, SSE3, SSSE3, SSE4, SSE4.1, SSE4.2, AVX - VT-x, VT-d - AES-NI, CLMUL, TXT		
2012	https://en.wikipedia.org/wiki/Ivy_Bridge_(microarchitecture)	Intel 22 nm	- MMX, SSE, SSE2, SSE3, SSSE3, SSE4, SSE4.1, SSE4.2, AVX, F16C - AES-NI, CLMUL, RDRAND, TXT - VT-x, VT-d		
2013	https://en.wikipedia.org/wiki/Haswell_(microarchitecture)	22 nm (Tri-Gate)	- AES-NI, CLMUL, RDRAND, TXT - MMX, SSE, SSE2, SSE3, SSSE3, SSE4, SSE4.1, SSE4.2, FMA3, AVX, AVX2, and TSX (disabled via microcode, except for Haswell-EX) - VT-x, VT-d	Core i5-4250U (TDP 15W) 428/1339 Intel nuc d54250	816/1617
2014	https://en.wikipedia.org/wiki/Broadwell_(microarchitecture) Rockwell	14 nm (Tri-Gate)	- MMX, SSE, SSE2, SSE3, SSSE3, SSE4, SSE4.1, SSE4.2, AVX, AVX2, TSX, FMA3 - AES-NI, CLMUL, RDRAND, TXT - VT-x, VT-d - encode: AVC ff, MPEG2, - decode: AVC, MPEG2, VC1, MJPEG, VP8, HEVC 8bit	Core i7-5500U (TDP 15W) 1655/5119 Gigabyte brix i7-5500	1037/2112
2015	https://en.wikipedia.org/wiki/Skylake_(microarchitecture)	14 nm (Tri-Gate)	- AES-NI, CLMUL, RDRAND, MPX, TXT, SGX^[1] - MMX, SSE, SSE2, SSE3, SSSE3, SSE4, SSE4.1, SSE4.2, ADX - AVX, AVX2, AVX-512 (Skylake-SP, Skylake-W & Skylake-X^{[2][3][4]}), TSX, FMA3 - VT-x, VT-d - encode: AVC, MPEG2, MJPEG, VP8, HEVC 8bit - decode: AVC, MPEG2, VC1, MJPEG, VP8, HEVC 8bit	Core i7-6700HQ (TDP 45W) 2923/6530 Dell XPS 15 9550	1102/3879
2016	https://en.wikipedia.org/wiki/Kaby_Lake	Intel 14FF+	- MMX, AES-NI, CLMUL, FMA3, RDRAND - SSE, SSE2, SSE3, SSSE3, SSE4, SSE4.1, SSE4.2 - AVX, AVX2, TXT, TSX, SGX - VT-x, VT-d - encode: AVC, MPEG2, MJPEG, VP8, HEVC 8/10bit - decode: AVC, MPEG2, VC1, MJPEG, VP8, HEVC 8/10bit, VP9 8/10bit		

2023	https://en.wikipedia.org/wiki/Meteor_Lake	Intel 4 proce ss TSMC N5	- AES-NI, CLMUL, RDRAND,SHA, TXT, - MMX, SSE, SSE2, SSE3, SSSE3, SSE4, SSE4.1, SS E4.2, - AVX, AVX2, FMA3, AVX-VNNI, - VT-x, VT-d	Core Ultra 7 165H (TDP 28-115W) 3942/32163	2320 /12621
2024	https://en.wikipedia.org/wiki/Lunar_Lake				
	https://en.wikipedia.org/wiki/Arrow_Lake_(microprocessor)				

Processors vulnerabilities <https://www.intel.com/content/www/us/en/developer/topic-technology/software-security-guidance/processors-affected-consolidated-product-cpu-model.html>

Video encoding and decoding 7th-11th gen <https://www.intel.com/content/www/us/en/developer/articles/technical/encode-and-decode-capabilities-for-7th-generation-intel-core-processors-and-newer.html>

Wikipedia on Intel graphics - https://en.wikipedia.org/wiki/Intel_Graphics_Technology

CPU	i7-10710U	N200
/cpu/info bugs	spectre_v1 spectre_v2 spec_store_bypass swapgs itlb_multihit mmio_stale_data retbleed eibrs_pbrsb	spectre_v1 spectre_v2 spec_store_bypass swapgs

profiles	Intel Core i7-10710U	Intel N200	
VAProfileNone	VAEntrypointVideoProc VAEntrypointStats	VAEntrypointVideoProc VAEntrypointStats	
VAProfileMPEG2Simple	VAEntrypointVLD VAEntrypointEncSlice	VAEntrypointVLD VAEntrypointEncSlice	
VAProfileMPEG2Main	VAEntrypointVLD VAEntrypointEncSlice	VAEntrypointVLD VAEntrypointEncSlice	
VAProfileH264Main	VAEntrypointVLD VAEntrypointEncSlice VAEntrypointFEI VAEntrypointEncSliceLP	VAEntrypointVLD VAEntrypointEncSlice VAEntrypointFEI VAEntrypointEncSliceLP	
VAProfileH264High	VAEntrypointVLD VAEntrypointEncSlice VAEntrypointFEI VAEntrypointEncSliceLP	VAEntrypointVLD VAEntrypointEncSlice VAEntrypointFEI VAEntrypointEncSliceLP	
VAProfileVC1Simple	VAEntrypointVLD	VAEntrypointVLD	
VAProfileVC1Main	VAEntrypointVLD	VAEntrypointVLD	
VAProfileVC1Advanced	VAEntrypointVLD	VAEntrypointVLD	

VAProfileJPEGBaseline	VAEntrypointVLD	VAEntrypointVLD	
	VAEntrypointEncPicture	VAEntrypointEncPicture	
VAProfileH264ConstrainedBaseline	VAEntrypointVLD	VAEntrypointVLD	
	VAEntrypointEncSlice	VAEntrypointEncSlice	
	VAEntrypointFEI	VAEntrypointFEI	
	VAEntrypointEncSliceLP	VAEntrypointEncSliceLP	
VAProfileVP8Version0_3	VAEntrypointVLD	VAEntrypointVLD	
	VAEntrypointEncSlice	VAEntrypointEncSlice	
VAProfileHEVCMail	VAEntrypointVLD	VAEntrypointVLD	
	VAEntrypointEncSlice	VAEntrypointEncSlice	
	VAEntrypointFEI	VAEntrypointFEI	
		VAEntrypointEncSliceLP	
VAProfileHEVCMail10	VAEntrypointVLD	VAEntrypointVLD	
	VAEntrypointEncSlice	VAEntrypointEncSlice	
		VAEntrypointFEI	
VAProfileVP9Profile0	VAEntrypointVLD	VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileVP9Profile2	VAEntrypointVLD	VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileVP9Profile3		VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileHEVCMail12		VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileHEVCMail422_10		VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileHEVCMail422_12		VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileHEVCMail444		VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileHEVCMail444_10		VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileHEVCMail444_12		VAEntrypointVLD	
VAProfileHEVCSccMail		VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileHEVCSccMail10		VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileHEVCSccMail444		VAEntrypointVLD	
		VAEntrypointEncSlice	
VAProfileAV1Profile0		VAEntrypointVLD	
VAProfileHEVCSccMail444_10		VAEntrypointVLD	
		VAEntrypointEncSlice	