



Processor Number	Frequency Type	Clock GHz	CTP	GFLOP	APP 1-way	APP 2-way	APP 4-way
E5603	Base	1.6	48533	25.6	0.00768	0.01536	0.03072
	Single Core Max Turbo	N/A	N/A	N/A	N/A	N/A	N/A
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
E5606	Base	2.13	64701	34.128	0.0102384	0.0204768	0.0409536
	Single Core Max Turbo	N/A	N/A	N/A	N/A	N/A	N/A
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
E5607	Base	2.26	68735	36.256	0.0108768	0.0217536	0.0435072
	Single Core Max Turbo	N/A	N/A	N/A	N/A	N/A	N/A
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
E5620	Base	2.4	72800	38.4	0.01152	0.02304	0.04608
	Single Core Max Turbo	2.66	80869	43	0.0127968	0.0255936	0.0511872
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
E5630	Base	2.53	76834	40.528	0.0121584	0.0243168	0.0486336
	Single Core Max Turbo	2.8	84933	45	0.01344	0.02688	0.05376
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
E5640	Base	2.66	80869	42.656	0.0127968	0.0255936	0.0511872
	Single Core Max Turbo	2.93	88968	47	0.0140784	0.0281568	0.0563136
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
E5645	Base	2.4	108000	57.6	0.01728	0.03456	0.06912
	Single Core Max Turbo	2.8	126000	67	0.02016	0.04032	0.08064
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A



Processor Number	Frequency Type	Clock GHz	CTP	GFLOP	APP 1-way	APP 2-way	APP 4-way
E5649	Base	2.53	113985	60.792	0.0182376	0.0364752	0.0729504
	Single Core Max Turbo	2.93	131985	70	0.0211176	0.0422352	0.0844704
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
L5609	Base	1.86	56602	29.856	0.0089568	0.0179136	0.0358272
	Single Core Max Turbo	N/A	N/A	N/A	N/A	N/A	N/A
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
L5618	Base	1.87	56723	29.92	0.008976	0.017952	0.035904
	Single Core Max Turbo	2.26	68735	36	0.0108768	0.0217536	0.0435072
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
L5630	Base	2.13	64701	34.128	0.0102384	0.0204768	0.0409536
	Single Core Max Turbo	2.4	72800	38	0.01152	0.02304	0.04608
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
L5638	Base	2	90000	48	0.0144	0.0288	0.0576
	Single Core Max Turbo	2.4	108000	58	0.01728	0.03456	0.06912
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
L5640	Base	2.26	101970	54.384	0.0163152	0.0326304	0.0652608
	Single Core Max Turbo	2.8	126000	67	0.02016	0.04032	0.08064
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
X5647	Base	2.93	88968	46.928	0.0140784	0.0281568	0.0563136
	Single Core Max Turbo	3.2	97067	51	0.01536	0.03072	0.06144
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A



Processor Number	Frequency Type	Clock GHz	CTP	GFLOP	APP 1-way	APP 2-way	APP 4-way
X5650	Base	2.66	119970	63.984	0.0191952	0.0383904	0.0767808
	Single Core Max Turbo	3.06	137970	74	0.0220752	0.0441504	0.0883008
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
X5660	Base	2.8	126000	67.2	0.02016	0.04032	0.08064
	Single Core Max Turbo	3.2	144000	77	0.02304	0.04608	0.09216
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
X5667	Base	3.06	93002	49.056	0.0147168	0.0294336	0.0588672
	Single Core Max Turbo	3.46	105135	55	0.0166368	0.0332736	0.0665472
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
X5670	Base	2.93	131985	70.392	0.0211176	0.0422352	0.0844704
	Single Core Max Turbo	3.33	149985	80	0.0239976	0.0479952	0.0959904
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
X5672	Base	3.2	97067	51.2	0.01536	0.03072	0.06144
	Single Core Max Turbo	3.6	109200	58	0.01728	0.03456	0.06912
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
X5675	Base	3.06	137970	73.584	0.0220752	0.0441504	0.0883008
	Single Core Max Turbo	3.46	155970	83	0.0249552	0.0499104	0.0998208
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
X5677	Base	3.46	105135	55.456	0.0166368	0.0332736	0.0665472
	Single Core Max Turbo	3.73	113234	60	0.0179184	0.0358368	0.0716736
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A



Processor Number	Frequency Type	Clock GHz	CTP	GFLOP	APP 1-way	APP 2-way	APP 4-way
X5680	Base	3.33	149985	79.992	0.0239976	0.0479952	0.0959904
	Single Core Max Turbo	3.6	162000	86	0.02592	0.05184	0.10368
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
X5687	Base	3.6	109200	57.6	0.01728	0.03456	0.06912
	Single Core Max Turbo	3.86	117269	62	0.0185568	0.0371136	0.0742272
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A
X5690	Base	3.46	155970	83.184	0.0249552	0.0499104	0.0998208
	Single Core Max Turbo	3.73	167985	90	0.0268776	0.0537552	0.1075104
	GPU ONLY	N/A	N/A	N/A	N/A	N/A	N/A

Intel Corporation is providing the Product Export Compliance Matrix which contains the information necessary to complete an export assessment against the US Export Administration Regulations and local export country regulations such as Adjusted Peak Performance (APP) in Weighted Teraflops (WT), Export Control Classification Number (ECCN), AND/OR Harmonized Tariff Number (HTS), etc. APP values are calculated using the Single Core Max Turbo Frequency as published on ark.intel.com. Effective immediately, Intel will only be providing our customers with the APP information for the single core and multi-core processors based on the Single Core Maximum Turbo Boost Technology Frequency information, if applicable.

All information provided in the Product Export Compliance Matrix is strictly a recommendation to the user, and should be used in conjunction with the US Export Administration Regulations (EAR) and local country export regulations when assessing export requirements for the US and local export country.

All the information contained herein are based on Intel product specifications and are subject to change without notice. Intel makes no representation or warranty as to the accuracy or reliability of such specifications. These calculations are provided "AS IS" with no warranties whatsoever, including any warranty of merchantability, noninfringement, fitness for any particular purpose or any warranty otherwise arising out of any proposal, specification or sample. Intel disclaims all liability, including liability for infringement of any proprietary rights, relating to use of information in these calculations. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted herein.