

Матрица перехода Intel® Xeon® Scalable

CPU v2/v3/v4		Skylake-SP
E5-2603 v4	→	3104
E5-2609 v4	→	3106
E5-2620 v4	→	4110
E5-2623 v4	→	4112
E5-2630 v4	→	4114
E5-2637 v4	→	5122
E5-2640 v4	→	4116
E5-2643 v4	→	6128
E5-2650 v4	→	5118
E5-2660 v4	→	5120
E5-2667 v4	→	6134
E5-2680 v4	→	6130
E5-2683 v4	→	6130
E5-2687W v4	→	6136
E5-2690 v4	→	6140
E5-2695 v4	→	6138
E5-2697 v4	→	6148
E5-2697A v4	→	6148
E5-2698 v4	→	6152
E5-2699 v4	→	8160
E5-2699A v4	→	8164

			6146 12C, X.XG, 165W	M SKUs support 1.5TB/socket
			6144 8C, X.XG, 1xxW	
			6154 18C, 3.0G, 200W	
			6152 22C, 2.1G, 140W	
			6150 18C, 2.7G, 165W	
			6148 20C, 2.4G, 150W	8180M 28C, 2.5G, 205W
			6142M 16C, 2.6G, 150w	8180 28C, 2.5G, 205W
			6142 16C, 2.6G, 150w	8176M 28C, 2.1G, 165W
			6140M 18C, 2.3G, 140w	8176 28C, 2.1G, 165W
			6140 18C, 2.3G, 140w	8170M 26C, 2.1G, 165W
			6138 20C, 2.0G, 125W	8170 26C, 2.1G, 165W
			6136 12C, 3.0G, 150W	8168 24C, 2.7G, 205W
			6134 8C, 3.2G, 130W	8164 26C, 2.0G, 150W
		4116 12C, 2.1G, 85W	6134M 8C, 3.2G, 130W	8160M 24C, 2.1G, 150W
		4114 10C, 2.2G, 85W	5122 4C, 3.6G, 105W	8160 24C, 2.1G, 150W
		4112 4C, 2.6G, 85W	5120 14C, 2.2G, 105W	8158 12C, 3.0G, 150W
		4110 8C, 2.1G, 85W	5118 12C, 2.3G, 105W	8156 4C, 3.6G, 105W
		4108 8C, 1.8G, 85W	5115 10C, 2.4G, 85W	8153 16C, 2.0G, 125W
3106 8C, 1.7G, 85W				
3104 6C, 1.7G, 85W				
31xx (Bronze)	41xx (Silver)	51xx (Gold 1)	61xx (Gold 2)	81xx (Platinum)

Матрица перехода Intel® Xeon® Scalable

Shelf	CPU v2/v3/v4		Skylake-SP	Shelf
Basic	E5-2603 v4	→	3104	Bronze
Basic	E5-2609 v4	→	3106	Bronze
Basic	E5-2620 v4	→	4110	Silver
Standard	E5-2623 v4	→	4112	Silver
Standard	E5-2630 v4	→	4114	Silver
Advanced	E5-2637 v4	→	5122	Gold
Standard	E5-2640 v4	→	4116	Silver
Advanced	E5-2643 v4	→	6128	Gold
Advanced	E5-2650 v4	→	5118	Gold
Advanced	E5-2660 v4	→	5120	Gold
Advanced	E5-2667 v4	→	6134	Gold
Advanced	E5-2680 v4	→	6130	Gold
Advanced	E5-2683 v4	→	6130	Gold
Advanced	E5-2687W v4	→	6136	Gold
Advanced	E5-2690 v4	→	6140	Gold
Advanced	E5-2695 v4	→	6138	Gold
Advanced	E5-2697 v4	→	6148	Gold
Advanced	E5-2697A v4	→	6148	Gold
Advanced	E5-2698 v4	→	6152	Gold
Advanced	E5-2699 v4	→	8160	Platinum
Advanced	E5-2699A v4	→	8164	Platinum

По двухсокетным процессорам в среднем увеличение:

цены +12%,
производительности +22%

6146 12C, X.XG, 165W	M SKUs support 1.5TB/socket
6144 8C, X.XG, 1xxW	
6154 18C, 3.0G, 200W	
6152 22C, 2.1G, 140W	
6150 18C, 2.7G, 165W	
6148 20C, 2.4G, 150W	8180M 28C, 2.5G, 205W
6142M 16C, 2.6G, 150w	8180 28C, 2.5G, 205W
6142 16C, 2.6G, 150w	8176M 28C, 2.1G, 165W
6140M 18C, 2.3G, 140w	8176 28C, 2.1G, 165W
6140 18C, 2.3G, 140w	8170M 26C, 2.1G, 165W
6138 20C, 2.0G, 125W	8170 26C, 2.1G, 165W
6136 12C, 3.0G, 150W	8168 24C, 2.7G, 205W
6134 8C, 3.2G, 130W	8164 26C, 2.0G, 150W
6134M 8C, 3.2G, 130W	8160M 24C, 2.1G, 150W
6132 14C, 2.6G, 140W	8160 24C, 2.1G, 150W
6130 16C, 2.1G, 125W	8158 12C, 3.0G, 150W
6128 6C, 3.4G, 115W	8156 4C, 3.6G, 105W
6126 12C, 2.6G, 125W	8153 16C, 2.0G, 125W

3106 8C, 1.7G, 85W	4116 12C, 2.1G, 85W	5122 4C, 3.6G, 105W	6146 12C, X.XG, 165W	8180M 28C, 2.5G, 205W
3104 6C, 1.7G, 85W	4114 10C, 2.2G, 85W	5120 14C, 2.2G, 105W	6144 8C, X.XG, 1xxW	8180 28C, 2.5G, 205W
	4112 4C, 2.6G, 85W	5118 12C, 2.3G, 105W	6142M 16C, 2.6G, 150w	8176M 28C, 2.1G, 165W
	4110 8C, 2.1G, 85W	5115 10C, 2.4G, 85W	6142 16C, 2.6G, 150w	8176 28C, 2.1G, 165W
	4108 8C, 1.8G, 85W		6140M 18C, 2.3G, 140w	8170M 26C, 2.1G, 165W
			6140 18C, 2.3G, 140w	8170 26C, 2.1G, 165W
			6138 20C, 2.0G, 125W	8168 24C, 2.7G, 205W
			6136 12C, 3.0G, 150W	8164 26C, 2.0G, 150W
			6134 8C, 3.2G, 130W	8160M 24C, 2.1G, 150W
			6134M 8C, 3.2G, 130W	8160 24C, 2.1G, 150W
			6132 14C, 2.6G, 140W	8158 12C, 3.0G, 150W
			6130 16C, 2.1G, 125W	8156 4C, 3.6G, 105W
			6128 6C, 3.4G, 115W	8153 16C, 2.0G, 125W
			6126 12C, 2.6G, 125W	
31xx (Bronze)	41xx (Silver)	51xx (Gold 1)	61xx (Gold 2)	81xx (Platinum)

Матрица перехода Intel® Xeon® Scalable

GHz	CC	TDP	SPECint*	Shelf	CPU v2/v3/v4		Skylake-SP	Shelf	SPECint* Est.	ILP % Delta	TDP	CC	GHz	SIR/Core	SIR/TDP	SIR*
2.1	8	85	631	Standard	E5-2620 v4	→	4108	Silver	631	2%	85	8	1.8	0%	0%	0%
2.1	8	85	631	Standard	E5-2620 v4	→	4110	Silver	695	16%	85	8	2.1	10%	10%	10%
2.1	8	85	631	Standard	E5-2620 v4	→	4114	Silver	892	49%	85	10	2.2	13%	41%	41%
2.1	8	85	631	Standard	E5-2620 v4	→	4116	Silver	1030	110%	85	12	2.1	9%	63%	63%
2.1	8	85	631	Standard	E5-2620 v4	→	5115	Gold	975	160%	85	10	2.4	24%	55%	55%
2.1	8	85	631	Standard	E5-2620 v4	→	5118	Gold	1130	167%	105	12	2.3	19%	45%	79%
2.1	8	85	631	Standard	E5-2620 v4	→	5120	Gold	1270	225%	105	14	2.2	15%	63%	101%

GHz	CC	TDP	SPECint*	Shelf	CPU v2/v3/v4		Skylake-SP	Shelf	SPECint* Est.	ILP % Delta	TDP	CC	GHz	SIR/Core	SIR/TDP	SIR*
2.2	10	85	780	Standard	E5-2630 v4	→	4114	Silver	892	5%	85	10	2.2	14%	14%	14%
2.2	10	85	780	Standard	E5-2630 v4	→	4116	Silver	1030	48%	85	12	2.1	10%	32%	32%
2.2	10	85	780	Standard	E5-2630 v4	→	5118	Gold	1130	87%	105	12	2.3	21%	17%	45%
2.2	10	85	780	Standard	E5-2630 v4	→	5120	Gold	1270	128%	105	14	2.2	16%	32%	63%
2.2	10	85	780	Standard	E5-2630 v4	→	6126	Gold	1290	164%	125	12	2.6	38%	12%	65%

GHz	CC	TDP	SPECint*	Shelf	CPU v2/v3/v4		Skylake-SP	Shelf	SPECint* Est.	ILP % Delta	TDP	CC	GHz	SIR/Core	SIR/TDP	SIR*
2.2	12	105	983	Advanced	E5-2650 v4	→	5118	Gold	1130	16%	105	12	2.3	15%	15%	15%
2.2	12	105	983	Advanced	E5-2650 v4	→	5120	Gold	1270	41%	105	14	2.2	11%	29%	29%
2.2	12	105	983	Advanced	E5-2650 v4	→	6126	Gold	1290	63%	125	12	2.6	31%	10%	31%
2.2	12	105	983	Advanced	E5-2650 v4	→	6130	Gold	1470	72%	125	16	2.1	12%	26%	50%
2.2	12	105	983	Advanced	E5-2650 v4	→	6138	Gold	1710	138%	125	20	2.0	4%	46%	74%

Матрица перехода Intel® Xeon® Scalable

CPU v2/v3/v4		Skylake-SP
E5-4610 v4	→	5118
E5-4620 v4	→	5120
E5-4650 v4	→	6130
E5-4655 v4	→	6134
E5-4627 v4	→	6136
E5-4667 v4	→	8160
E5-4669 v4	→	8164

CPU v2/v3/v4		Skylake-SP
E7-4809 v4	→	5120
E7-4820 v4	→	6126
E7-4830 v4	→	6140
E7-4850 v4	→	6148
E7-8860 v4	→	8160
E7-8870 v4	→	8160
E7-8880 v4	→	8164
E7-8867 v4	→	8168
E7-8890 v4	→	8176
E7-8894 v4	→	8180

По E5-4600 процессорам в среднем увеличение:
цены -25%, производительности +48%

По E7 процессорам в среднем увеличение:
цены +19%,
производительности +70%

	4116 12C, 2.1G, 85W		6146 12C, X.XG, 165W	M SKUs support 1.5TB/socket
	4114 10C, 2.2G, 85W		6144 8C, X.XG, 1xxW	
	4112 4C, 2.6G, 85W		6154 18C, 3.0G, 200W	
	4110 8C, 2.1G, 85W		6152 22C, 2.1G, 140W	
3106 8C, 1.7G, 85W	4108 8C, 1.8G, 85W	5115 10C, 2.4G, 85W	6150 18C, 2.7G, 165W	
3104 6C, 1.7G, 85W			6148 20C, 2.4G, 150W	8180M 28C, 2.5G, 205W
			6142M 16C, 2.6G, 150w	8180 28C, 2.5G, 205W
			6142 16C, 2.6G, 150w	8176M 28C, 2.1G, 165W
			6140M 18C, 2.3G, 140w	8176 28C, 2.1G, 165W
			6140 18C, 2.3G, 140w	8170M 26C, 2.1G, 165W
			6138 20C, 2.0G, 125W	8170 26C, 2.1G, 165W
			6136 12C, 3.0G, 150W	8168 24C, 2.7G, 205W
			6134 8C, 3.2G, 130W	8164 26C, 2.0G, 150W
			6134M 8C, 3.2G, 130W	8160M 24C, 2.1G, 150W
		5122 4C, 3.6G, 105W	6132 14C, 2.6G, 140W	8160 24C, 2.1G, 150W
		5120 14C, 2.2G, 105W	6130 16C, 2.1G, 125W	8158 12C, 3.0G, 150W
		5118 12C, 2.3G, 105W	6128 6C, 3.4G, 115W	8156 4C, 3.6G, 105W
			6126 12C, 2.6G, 125W	8153 16C, 2.0G, 125W
31xx (Bronze)	41xx (Silver)	51xx (Gold 1)	61xx (Gold 2)	81xx (Platinum)

Матрица перехода Intel® Xeon® Scalable

GHz	CC	TDP	SPECint*	ILP USD	Shelf	CPU v2/v3/v4		Skylake-SP	Shelf	SPECint* Est.	ILP USD	ILP % Delta	TDP	CC	GHz	SIR/Core	SIR/TDP	SIR*
1.8	10	105	1270	2,250	Basic	E5-4610 v4	→	5118	Gold	2256	2,080	-8%	105	12	2.3	48%	78%	78%
2.1	10	105	1550	3,045	Standard	E5-4620 v4	→	5120	Gold	2464	2,535	-17%	105	14	2.2	14%	59%	59%
2.2	14	105	2210	6,440	Advanced	E5-4650 v4	→	6130	Gold	2858	3,095	-52%	125	16	2.1	13%	9%	29%
2.5	8	135	1440	8,265	Advanced	E5-4655 v4	→	6134	Gold	2045	3,610	-56%	130	8	3.2	42%	47%	42%
2.6	10	135	1690	4,120	Advanced	E5-4627 v4	→	6136	Gold	2789	4,040	-2%	150	12	3.0	38%	49%	65%
2.2	18	135	2800	10,490	Advanced	E5-4667 v4	→	8160	Platinum	3946	8,115	-23%	150	24	2.1	6%	27%	41%
2.2	22	135	3240	12,940	Advanced	E5-4669 v4	→	8164	Platinum	4060	10,540	-19%	150	26	2.0	6%	13%	25%

GHz	CC	TDP	SPECint*	ILP USD	Shelf	CPU v2/v3/v4		Skylake-SP	Shelf	SPECint* Est.	ILP USD	ILP % Delta	TDP	CC	GHz	SIR/Core	SIR/TDP	SIR*
2.1	8	115	1100	1,900	Basic	E7-4809 v4	→	5120	Gold	2464	2,535	33%	105	14	2.2	28%	145%	124%
2.0	10	115	1310	2,535	Basic	E7-4820 v4	→	6126	Gold	2501	2,930	16%	125	12	2.6	59%	76%	91%
2.0	14	115	1940	3,475	Standard	E7-4830 v4	→	6140	Gold	3298	3,980	15%	140	18	2.3	32%	40%	70%
2.1	16	115	2300	4,855	Standard	E7-4850 v4	→	6148	Gold	3726	4,990	3%	150	20	2.4	30%	24%	62%
2.2	18	140	2860	6,610	Advanced	E7-8860 v4	→	8160	Platinum	3946	8,115	23%	150	24	2.1	3%	29%	38%
2.1	20	140	3030	7,355	Advanced	E7-8870 v4	→	8160	Platinum	3946	8,115	10%	150	24	2.1	9%	22%	30%
2.2	22	150	3300	9,460	Advanced	E7-8880 v4	→	8164	Platinum	4060	10,540	11%	150	26	2.0	4%	23%	23%
2.4	18	165	3060	7,180	Advanced	E7-8867 v4	→	8168	Platinum	4835	10,155	41%	205	24	2.7	19%	27%	58%
2.2	24	165	3520	11,630	Advanced	E7-8890 v4	→	8176	Platinum	4576	15,015	29%	165	28	2.1	11%	30%	30%
2.4	24	165	1840	16,715	Advanced	E7-8894 v4	→	8180	Platinum	5104	17,985	8%	205	28	2.5	138%	123%	177%