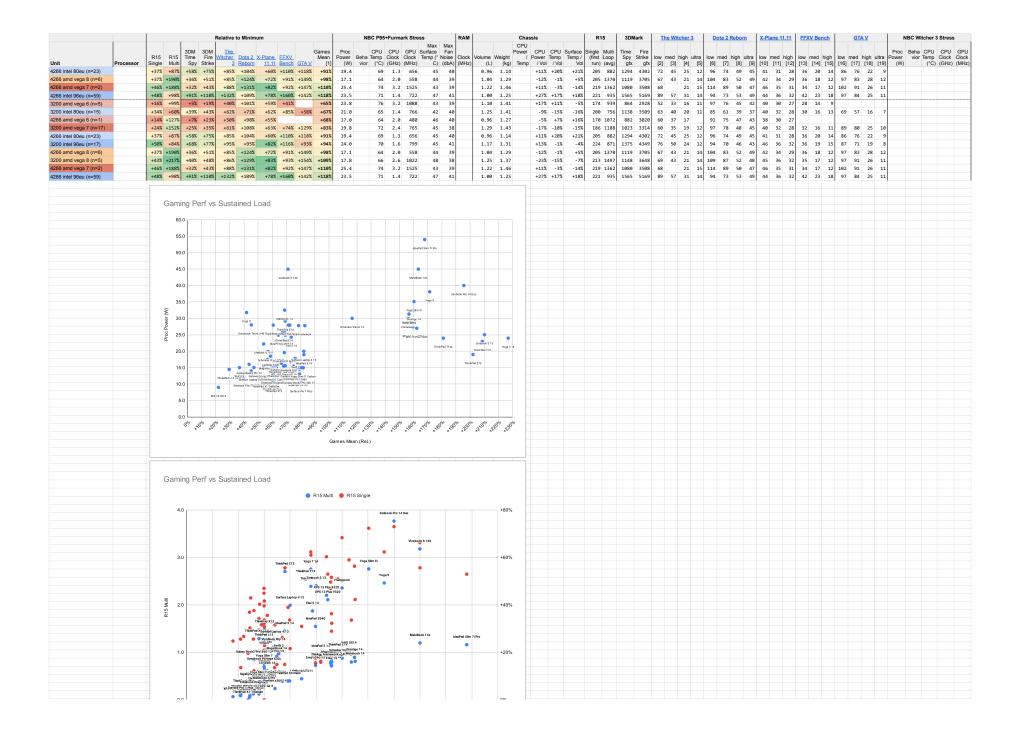
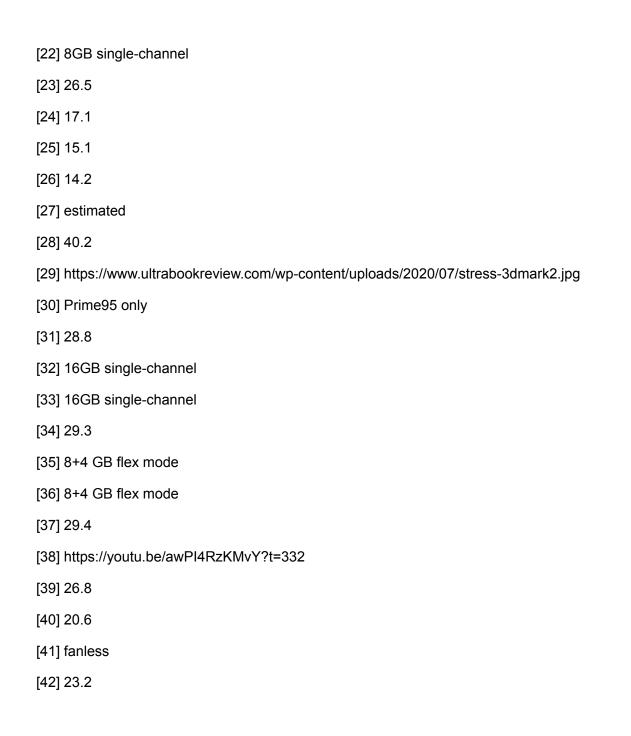
		Relative to Minimum									N	IBC P9	5+Furmark St		RA	М		Chassi	is		R15	3DMark	The Wi	tcher 3	Dota	2 Reborn	X-Pla	ne 11.11	FFXV B	ench	GT	AV	NBC	Witcher 3	Stress	
			BDM 3E		The tcher [Dota 2 X	X-Plane	FFXV		ames Mean	Proc Power Reha	CPU a Temp	CPU GPU Clock Clock	Surface	Max Fan oise Clo	ck V	olume Weight		CPU CPU	Surface Temp /	Single Multi (first Loop	Time Fire Spy Strike	low med	high ultra	low med	1 high ultra	low n	ned high	low med	high I	nw med	high ultra	Proc Be		CPU Clock	
Unit	Processor	Single Multi	Spy Str	rike	3 E	Reborn	11.11	Bench	GTA V	[1]	(W) vio	r (°C) (GHz) (MHz	c) (dbA) (MH	Hz)	(L) (kg)	Temp	/Vol /Vo	Vol	run) (avg)	gfx gfx	[2] [3]	[4] [5]		7] [8] [9	[10]	[11] [12]						(°C)	(GHz)	(MHz)
XPS 13 9315	1235U		+15% +3	_	+66%			0%	9%	+22%	9.0		1.0	45		200	0.82 1.16		-42% -1009		187 503	945 3247	67 47						19 11	5	31	10	8.6 JLJ	Л	1.0	100
ThinkPad L13 Yoga VAIO FE	1135G7 1235U		+21% +2		+19%	+37%	+33%	+40%	+26%	+30%	14.5 JULI 15.0	L 72			37 32 37 32	-	1.20 1.45 1.42 1.60		-35% -45 -43% -255		197 605 212 672	995 2950 985 3251	36 31 42 27			3 31 36 8 34 31	38	28 25 26 24	22 14	9	50 46	12 6	15.1 ЛЛ	Л 67.0	0.4	751
Zenbook Flip 13	1165G7	+37% +6%	+7	75%		+3%	+42%		+75%	+40%	12.2 ЛЛЛ			9 47	47 42	266	0.84 1.19	-40%	-22% +315	+35%	205 498	4297			36 3	2 32 36	35	27 25			59 54	20 9				
Yoga 7i	1135G7		+4%		+15%	+44%		+49%	+18%	+42%	31.8	73			46 32				+40% -43		200 848		51 29		76 5			34 31	24 13	11	60 46		22.4 —	- 59.0	2.4	1300
Galaxy Book2 Pro 13	1240P		+57% +7	_	+26%	+65%	+18%		+65%	+44%	16.0 [2	81				200	0.67 0.89		+27% +935			1285 4408		16 11							72 65	16 6				
Surface Laptop Go 2	1135G7		+23% +4		+26% +22%	+74%		+49%	. 0.207	+45%	14.0 ЛЛЛ	-			42 42	266	0.92 1.14		-18% +99 +11% -289		194 530 198 847	1008 3474 978 2762	43 35		77 7		[21]	25 26 31 29	31 14 25 14		56 44	40 5				
Dynabook Tecra A40 Gateway	1135G7 1235U		+19% +3			+75%		+73%		+45%	28.0 15.0	54			41 32	-	1.64 1.63		-51% -475		198 847	1079 3327	53 32 55 37		89 6		40		25 14		62 49		15.0 -	- 54.0	9.6	977
LifeBook U7311	1135G7		+35% +3		+49%	+58%		+79%		+54%	22.2	81		-	43 32	-	1.28 1.24		-7% +13		196 681	1112 3209	59 38		75 5		[23	30 27	30 16		63 51		10.0	34.0	0.0	311
Gateway	1135G7	+34% +30% +	+31% +3	38%	+56%	+50%	+34%	+76%		+54%	15.0	59	1.3 60	9 48	31 32	200	1.42 1.64	-15%	-43% -33%	-18%	200 612	1074 3387	56 39			0 35 33	35	25 22	27 16	13			15.0 -	60.0	2.0	1100
ThinkPad X1 Titanium	1160G7		+58% +9	_	+67%	+50%	+45%			+54%	12.3	76			36 42		0.80 1.19		-18% +419		195 515	1298 4686	56 41			5 34 33	34									
ThinkPad X1 Titanium	1140G7		+27% +3	32%	+35%	+76%				+55%	11.9	72		46	40 42		0.80 1.20		-20% +45%			1039 3258	46 32	18 10		4 41 36										
MagicBook 14 Schenker VIA 14	4500U 1135G7	+15% +92%	+23% +3	268	+53%	+89%	+52%	+29%		+57%	17.4	68			33 32 48 32	-	1.10 1.38 1.15 1.07	-14%	-15% -15 -8% -45		172 906 200 660	1009 3089	58 37	10	-	1 42 46 6 35 32		29 26	27 13							
Latitude 5320	1135G7	10110	+39% +3		+35%	T34.6	T03/6	+83%		+59%	18.5	66		35	51 32		1.08 1.29	+3%	-8% -113			1145 3308	55 37		70 3	0 33 32	3/	33 28	29 18	12						
Inspiron 13 5301	1135G7				+69%	+34%	+64%	+72%		+60%	 15.0 [2 Л.П.Л	67		0 48	42 42	266	0.99 1.15	-25%	-19% +85	+16%	198 627	1240 4260		23 12	68 3	4 32 [2	40	32 28	28 17	11						
ThinkBook Plus	1135G7	+27% +23% +	+29% +4	46%	+61%	+70%	+35%		+74%	+60%	11.1	63	1.0 49	3 45	35 42	266	0.87 1.17	-42%	-32% +175	+25%	190 582	1056 3586	66 40	21 10	82 6	4 40 35	37	25 22			60 55	19 9				
Elitebook Dragonfly	1185G7		+41% +4				+25%	+65%		+61%	13.0 ЛЛЛ				31 42		0.96 1.16				168 569	1160 3625	72 48		72 4			30	27 15	11			12.9	- 65.0	1.2	600
ThinkBook 14	1135G7		+26% +2		+50%	+61%	+71%			+61%	28.0	67		46	42 32		1.26 1.49		+19% -15%		204 818	1035 3080	59 36		77 6		39	37 29								
ThinkPad X1 Carbon ThinkPad X12	1250P 1160G7		+34% +3		+78%	+73%	+37%	+56%		+61%	10.5	56		0 45 42	35 52 37 42		1.08 1.19 0.84 1.11		-31% -55 -33% +85		201 1080 170 528	1098 4318 1319 3355	74 45 83 52		91 6 71 6		33		31 14	9						
ThinkPad X12 ThinkPad L13	1160G7 5650U		+61% +3			+52%	+20%			+61%	15.0	73			37 42 44 32	_	0.84 1.11 1.20 1.38		-33% +87 -33% -25		217 1041	923 3085	83 52 49 31			9 34 31 5 44 42										
ThinkPad X13	4750U		+16% +2			+87%				+63%	15.1	91		42		-	1.15 1.29		-30% +275		184 1173	949 3019	56	18		0 42 46	_	29 26								
IdeaPad S540	4600U	+18% +155%	+4% +3	14%	+32%	+104%	+67%	+53%		+64%	24.9	69	3.5 121	9 38	45 32	200	1.00 1.43	+20%	+34% +115	-7%	176 1202	852 2793	49 35	15		7 45 42		31	29 15	9						
Pavilion x360 14	1135G7		+57% +6			+45%		+65%	+68%	+65%	17.1 JUL	_			38 32	-			-32% -15		197 584	1289 4143	63 43			6 33 31			29 15	11	69 58	17 7				
ThinkBook 14s Yoga	1165G7		+44% +5		+71%	+58%	+71%			+66%	16.4	- 58			30 32		1.17 1.50 1.15 1.38		-25% -20%		199 675 174 930	1184 3750 852 2876	65 42 50 32		78 5		41									
IdeaPad 5 14 Surface Laptop 4 13	4500U 4680U		+4% +3	-	+37%	+104%	+61%			+67%	25.9 17.0	70 [:		39 0 46	41 32 40 42		1.15 1.38 0.96 1.27		+21% -25 -5% +75		174 930 170 1072	852 2876 882 3020	50 32 60 37			8 46 43 5 47 43		31 27								_
Pavilion 14	1135G7		+47% +6			+53%	TJJ/6	+94%	+71%	+68%	15.5 [3 DW	68			36 32				-38% -189		674	1206 3956	51 38			0 35 39	36	30 27	30 18	14	65 60	18 8				
ThinkPad X1 Nano	1160G7	+39% +40% +	+53% +7	70%	+92%	+74%	+40%			+69%	19.6	71		9 48	38 42	266	0.97 0.95	-8%	+8% +173	+19%	208 659	1260 4192	79 46	26 11	76 6	8 44 36	[31]	29 27								
ThinkPad E14	4500U	+18% +79%	0% +3			+104%	+61%			+69%	25.9	91				200	1.28 1.60		+9% +149		177 845	821 2802	53	16	98 7	9 44 42										
Matebook 14	1165G7		+55% +5			+71%		+61%		+69%	32.5	66			40 32	200	1.09 1.49		+59% -43		213 855	1271 3824	59 44		76 6			35 31	32 17		76 59					
LG Gram 14 ThinkPad E14	1240P 1165G7	100.0	+68% +4		+55% +71%	+80%	+44%	+112%		+69% 69% [3	15.6 DW	72		-	36 52 33 320		1.12 0.98 1.28 1.60		-26% +39 +23% -39	9.10	203 761	1378 3499 1179 3749	47 30 68 42		104 6 81 6		38		32 17	16	67 58	15	16.8 □V	V 73	1.8	1247
Envy x360 13	4500U		+14% +			+/1%	+57%		+	+69%	29.2	81		46 0 45	44 32		0.98 1.26		+36% +33%		173 814	932 3239	56 42	17 11	95 7		39	30 27					21 0 111	Л 74.0	1.4	1500
Vivobook S 14X	12700H		+22% +3					+61%	+35% +		45.0	78			53 320				+81% -63		249 1973	1003 3263	68 40		106 7			39 35	28 14	11	78 52	12 4	44.8			
MagicBook 14	1165G7	+52% +84% +	+55% +6	52%	+74%	+65%	+73%	+74%		+71%	27.9	73		9 47	46 32	200	1.10 1.38	+28%	+36% +63	+4%	227 870	1269 3988	59 50	20	80 5	8 38 37	[37	36 32	33 17	10						
Envy 14	1135G7		+38% +3	-	+63%	+97%		+53%	+67%	+72%	28.0	61		-	36 32				+19% -225		193 809	1134 3388	66 40		104 7		- 22	34 32	29 14		75 59	16	17.5		2.4	
VivoBook Flip 14	4700U		+10% +2		+69%	+93%	+66%	+63%		+73%	16.8	65			41 32		1.30 1.56		-31% -209		182 996	903 3036	61 39	20 13	94 7		41	33 29	30 15	10			17.0 —	61.0	1.4	1462
Flex 5 14 HP 14s	5500U 5500U	+18% +187%	+30% +3			+105%	+69%	+70%	.100%	+73% +75%	<u>24.3</u> ЛЛЛ	L 93			44 32	_	1.50 1.53		-13% -13 -36% -233		177 1356 177 970	3109 1064 3383	58 31	15 13 15 10	94 7	8 48 45 5 47 44	41	33 30 30 26	35 17	,	82 74	22				
ThinkPad X13 Yoga	1165G7		+70% +8		+83%	+112%	+44%	+/0/4		+76%	14.1	69			34 42		1.00 1.22		-25% +103			1394 4616	65 43			7 33 33		30 24	35 17		100 61					
Swift 3	4700U	+20% +97% +	+19% +2	27%	+41%	+97%	+44%			+76%	17.8	64 [3: 2.5 73		34 32	200	1.17 1.20	-7%	-19% -129	-10%	180 932	973 3134	52 34			3 46 44		28 25			87 77					
Dynabook Portege X30L	1240P	9% +79% +	+44% +6	68%	+80%	+85%	+63%	+89%	+66%	+77%	15.0	65	0.9 78	6 43	36 48	800	1.15 0.91	-23%	-30% -99	-10%	150 802	1181 4142	70 47	23 11	96 6	5 40 39	44	29 27	31 18	13	69 56	17 8				
Yoga Slim 7	1135G7		+36% +3		+58%	+82%		+117%	+66%	+77%	15.0 JUL				30 32	_	0.99 1.36		-19% -109		181 833	1119 3210	60 39		82 7		39	31 29	31 17	17	75 61					
Gigabyte U4 UD	1195G7		+67% +6			+105%	+58%		+78%	+78%	12.4	57			45 32				-44% -235		214 650	1369 3952		22 10	110 7		[39]				83 66	18 7		- 60.0		
Mi Notebook Pro Yoga 6	11370H 5500U		+64% +6			+101%	_	+112%	+1019	+79% +79%	27.8 15.0	76			44 32		1.20 1.40 1.16 1.33				220 838 177 960	1349 3999 978 3200	70 47 67	23 12 20 14	114 6	2 43 43	26	24 22 29 25	35 19 30 19		86	22 9	21.1 — 15.0 —		3.3	
Latitude 13 7320	1180G7		+61% +9		-	+54%		+99%		+79%	12.9 ЛЛЛ					266	0.51 0.78		+37% +975		188 531	1324 4893	80 53		77 5		F401	28 26	32 18		64 58		13.1			
Galaxy Book2 Pro 360 13			+76% +9		+83%	+91%		+79%		+79%	13.0 ЛЛЛ					200	0.70 1.04	-40%	-1% +673		206 872	1446 4762	71 45				44		33 19		78 61				-10	
Surface Pro 7 Plus	1135G7	+26% +9% +	+68% +8	89% +	119%	+67%	+55%			+81%	10.5 Л.П.Л		1.0 10	0 45			0.50 0.80	-33%	+12% +679	+118%	188 513	1376 4652	82 56	29 14	80 6	1 39 37	37	30 28								
Matebook X Pro	1165G7		+74% +1		+95%	+56%	+54%	+99%	+101%	+81%	15.0 ЛЛЛ	L 64			38 42	266	0.96 1.31		-17% +7		209 611	1430 5169	70 47		77 4		[42]	32 29	31 18	14	71 61	23 10	18.0 -	64.0	1.7	950
Yoga Slim 7i Carbon	1165G7		+90% +9			+57%	+69%			+82%	15.0	67		50		266	0.93 0.98		-14% +169		220 667	1562 4669	82 52			7 40 36	40									
Surface Laptop 4 15	4980U		+38% +5	_		+106%	+63%			+82%	20.0	68			40 42	_	1.22 1.56		-12% -109		182 1412	1135 3860	71 44		91 7		40	32 27								
IdeaPad 5 14 Framework	5500U 1165G7		+20% +3		+70%	+107%		+77%		+82% 83% [4	19.0 27.8	74		-	41 32 48 320	-	1.30 1.38 1.08 1.30		-22% -219 +38% +109		172 1156 224 845	985 3253 1216 3709	61 39 76 45	20 14	97 7		41	33 30	29 16	12			27 0 .	- 73.0	3 1	1200
Schenker Vision 14	1165G7		+76% +9						+126%		30.0	84			48 320				+55% +30%		224 845	1441 4795	90 56					38 39	41 21		103 86	21 9	21.9	75.0	3.1	ששכב
Framework	1260P	+68% +236% +1	104% +1	11% +	147%	+158%	+144%	+195%	+136%	+156%	30.0	83			50 32	200	1.08 1.33		+49% +245		252 1585	1675 5200	98 61	32 15	122 9	0 63 58	63	46 41	43 23	23	118 97	20 8		- 82.0		
VAIO SX14	1195G7	+59% +104% +1		ننكا إننت					+194%		31.3	74				266			+31% -7	-5%	238 962	1819 5661	96 58		136 9	-	44		45 25		113 99		28.7	- 77.0	3.6	1250
XPS 13 Plus 9320	1280P		114% +13						+186%		27.3	83			40 52	0.0	0.90 1.27		+62% +483	+29%	229 1467	1760 5393	105 66	37 16			55		46 25		124 109					
Prestige 14 Yoga Slim 9i	1195G7 1280P	+56% +90% +1 +72% +276% +1						_	+175%		35.1	96			44 42	266	1.10 1.22 1.01 1.39		+58% +329		234 895 258 1774	1819 5580 1871 5708	97 63	35 16 35 16				37 33 46 40	51 28 50 28		101 89 121 103		35.4 —	67.0	9.4	1446
XPS 13 Plus 9320	1260P	+60% +220% +1							+170%		27.0	78			46 52				+61% +389		240 1512	1758 5421	99 62				-		45 25			26 11	55.4	37.0	3.4	2-40
MateBook 14s	11370H	+56% +120% +1	106% +1	17% +	157%	+165%	+99%	+226%	+170%	+163%	45.0	73			47 37		1.21 1.44	+105% +	100% -3	-9%	233 1038	1688 5327	101 65	35 15		1 66 58	48	39 35	46 26	26	111 96	29 11				
IdeaPad Slim 7i Pro	11370H	+53% +116% +1							+182%		54.0	92			46 42				147% +265		229 1020	1709 5652	101 61					46 36	49 27			30 12	33.8 -	- 66.0	3.3	1250
Yoga 9	1260P	+62% +246% +1				+153%			+170%	+171%	38.1	82			39 52	200	1.12 1.43 1.22 1.32		+83% +173		243 1634 241 1600	1784 5479 1938 6431	100 65 120	36 14 41 25	111 8	4 68 63 0 66 57		46 40	48 27		115 101	26 11				
ThinkPad T14s Zenbook Pro 14 Duo	6850U	+61% +239% +1							+192%		24.0 □W	66		49	27 64 42 48	300			+6% -35		259 2250	1938 6431 1830 5955	109 68		_		51	39 31 49 44	59 36		131 110	27 11				
ThinkPad Z13	6860Z	+56% +270% +1		فكال أخنطنا	_				+192%		19.0	75			42 48	100			+24% +469		233 1748	2170 6865									137 123	47 21				
ThinkPad T14	6850U	+58% +254% +1				+168%			+293%		23.0	77			39 64	100	1.29 1.45		-5% -5%		237 1673	2289 7050		41 24		6 73 63	-	-			134 120					
Zenbook S 13	6800U	+58% +240% +1				+168%			+308%		25.0	77			42 64	-	0.93 1.10		+44% +33%		237 1607	2287 6683	123	40 23	111 9			40 34	60 32		136 120					
Yoga 7 14	6800U	+62% +275% +1	198% +19	96% +	-241%	+173%	+116%	+280%	+324%		24.0	65			43 64	-		+23%	+6% -14	-9%	243 1771	2449 7279		43 25	115 9			42 36			131 120			- 59.9		_
median (n=158										96%	9.0	69	9 1.5 75 9 0.4 10			266	1.11 1.32 0.50 0.78				214 889 150 472	1350 4374 821 2460		25 13		5 48 45		34 30	37 26 19 11			24 10 10 4	21.1 8.6		1.7	
minimun										22%	9.0		0.4 10 3.7 152			100	0.50 0.78 1.88 1.83					821 2460 2449 7279				2 31 29 0 76 69		21 19 49 44			50 31 137 123	10 4 53 24			0.4 4.2	
																	2.33													- "						
Swift 3X	1165G7 Xe MAX	-12% -59% -							-35%		21.0?	65	1.3 120	9 45		266	1.23 1.37		-153	-10%		1766 6447				2 51 47		35 29		18	99 90	31 13				

				Re	lative to M	/linimum	n					NBC P	95+Furma			RAM			Chassis			R15	3DMark	1	he Witch	er 3	Dota	2 Reborn	X-Plane	11.11	FFXV B	ench	<u>G</u>	AV		NBC Witcher	r 3 Stress	
		R15 R15	3DM :	3DM Fire W	The D	0 71	Plane F		Gam		Proc			GPU Su	Max Max rface Fan	1 011		Weight	Power CP			Single Multi	Time F					L blak . bas						blab other	Proc	Beha CPL		
Unit	Processor	Single Mul			itcher Do		11.11 B			[1]	Power B (W)	vior (°C	Clock C) (GHz)		mp (° Noise C) (dbA	(MHz)	(L)			er Temp fol / Vol	Temp / Vol	(first Loop run) (avg	Spy Stri	gfx [2]	med nig	n uitra 4] [5]	low med [6] [7	nign uitra [8]	1 low me	nign 1] [12]	[13] [14	nign] [15]	[16] [17	[18] [19	Power (W)	vior Temp	C) (GHz)	(MHz)
Latitude 5411	10850H MX250	-22% -53	% -52%	-47%	-57%	-4%	+15%	-42%		22% 1	7.5+?	8	5 1.7	1367	46 4	6 3200	1.47	1.54		-7%	-23%	203 1055	1165 3	324 50	36 2	21	129 10	9 76 61	8 74 5	7 53	41 19	9						
ThinkPad P14s	1185G7 T500	-18% -67	% -33%	-48%	-37%	+3%	+16%	-32%	-9% -	12% 1	8.7 [4 <u>1</u>	ЛЛ 7	3 1.1	100	64 3	9 3200	1.34	1.49	-14% -26	5% -13%	+15%	213 751	1636 3	314 79	50 2	28 17	146 11	7 79 7:	1 [49] 7	1 39	51 24	1 17	148 118	41 1	9			
Modern 14	1165G7 MX450	-22% -61	% -20%	-36%	-24%	+5%	+11%	- 30%	+5%	-7% 2	1.6+?	8	9 1.5	1395	68 5	3 3200	1.18	1.30		+21%	+40%	202 876	1968 4	89 103	60	33 20	125 10	9 88 83	2 85 3	8 57	56 26	5 15	151 135	52 2	4			
ThinkPad T14	1165G7 MX450LP	-15% -62	% -33%	-40%	-28%	+1%	+8%			-6% 1	0.0+?	_ 7	0.6	855	58 4	0 3200	1.34	1.48		-16%	+6%	220 859	1633 4	336 98	55 3	32 19	126 11	0 83 7	5 70 4	1 59								
ZBook Firefly 14	1165G7 T500	-13% -68	% -21%	-36%	-25%	+11%	+23%	-31%		-6% 1	4.9+?	- 6	7 1.9	1710	49 4	0 3200	1.24	1.41		-13%	-3%	225 716	1939 4	35 96	57	31 22	133 11	7 101 7	8 76 6	4 56	49 25	5 17						
Yoga Slim 7	1065G7 MX350	-29% -69	% -46%	-40%	-39%	+1%	+27%			-4% 1	4.0+?	9	3 1.5	1354	56 4	2 3200	0.99	1.44		+51%	+38%	184 706	1326 4	332 80	47	27 16	116 11	2 85 7	7 78 6	5 59								
Inspiron 13 5310	11300H MX450	-64		-26%		+13%	+2%	-11%			[51]	6			58 4	8 4266	0.99	1.31		+4%	1/13%	[52] 816	1347 5				130 11		3 65 5		58 32	,						
Zenbook 14	1165G7 MX450LP	-19% -73		4097		+5%	+23%		+1%		2.5+? π				27 4	2 4266	1.07	1.29		+2%	-17%	210 603				31 18	131 11		0 78 5		50 5.		143 136	51 2:				
Envv 13	1165G7 MX450LP	-21% -69		-37%		+9%	+23%		+1/6	-0% 1	.2.5+r 1L	int c	0.9	5/5	46 4	3 2933	1.02			+2/6	-1/6	206 687	1002 4			85 18	133 11		2 72 6				145 156	51 2.	2			
ZBook Firefly 14	1265U T550	-21% -69 -17% -70				+4%		-14% +	+12%	+1%	2.0 [5 -	- 6	1 1.1	500	48 4	1 4800			+75% +22	2% -30%	-17%	215 676				35 18 39 20					60 31	1 22	[54] 117	62 2	9			
XMG Core 14	1135G7 1650M	-30% -66	% +37%	+22%	+16%	-0%	+5%		+12%	+8% 64	4.2 [5 -	6	5 1.0	1245	46 5:	2 3200	1.32	1.44	+229% +16	1% -21%	-15%	183 756	3344 8	001 139	90 5	54 32	111 9	1 88 8	6 61 5	5 49			108 95	68 3	8 69.9 [₆₂ .	0 3.3	1740
Zenbook 14X	1165G7 MX450	-17% -60	% -7%	-21%	-6%	+27%	+53%	-0%	-4% +	-14% 4	10.0+?		8 3.4		50 4	0 4266		1.44				216 897	2276 5	753		14 24	136 12	3 115 10	5 95 8	2 67	70 33	3		50 2	3 37.0		4.2	1498
Yoga Slim Pro	5900HS MX450	-8% -15	% -6%	-24%	+2%	+23%	+62%	-13% 4	+25% +	-20% 4	6.3 [5 —	8	1 2.6	1782	56 4	4 4266	1.24	1.37	+91% +100	9% +5%	+11%	238 1911	2297 5	140		16 25	136 13	3 106 9	6 99 8	8 71	69 33	3 18	172 166	66 2	8			
Summit E14	1185G7 1650TiMQ	-14% -62					+54%				9.6 [5 —		6 0.9		61 5	2 4266			+118% +13			224 866						8 113 10			72 38			73 3		go	0 4.6	1035
ROG Flow X13	5980HS	-7% -17		+11%			+45%				4.5 [6 Л			1159	53 4	3 4266			+1163% +178			243 1873		396 168				0 111 10			91 46		10, 13,	.,,	37.10	. 65.	. 4.0	2033
ThinkPad X1 Extreme	10750H 1650TiMQ					+24%	+45%	+29A			1.0 [6 -					4 3200	1.66														91 4t	, 33						
Razer Blade Stealth	1165G7	-21% -47										_ 7		1459	51 4				+202% +129			205 1183						7 107 10:										
Envy 14	1650TiMQ 1135G7	-16% -64			+15% +					40% 6				1050	47 4	6 3733			+178% +23			219 813				30		9 121 110			94 48		171 164		5 49.9			1658
IdeaPad 5 Pro 16	1650TiMQ 5800H	-24% -59				+22%		+28% +			8.9 [6 -	8			46 4	9 3200			+209% +236		-12%	198 919				38 45		6 109 10			90 46	5 33	156 145		5 48.8 [62.	0 4.1	1440
	1650M 5600H 3050	-14% -14				+25%	+58%				6.8 [6 —	9		870	52 5	3 3200			+133% +129			224 1945				8 33		2 112 10					171 162		5			
Vivobook Pro 14	35W 11370H	-16% -35	% +84%	+58%	+67%	+26%	+50%		+99% +	61% 6	0.6 [6 —	7	0 1.4	1261	50 5	6 3200	1.36	1.47	+190% +139	-18%	-11%	218 1466	4497 114	185	6	57 48	130 12	4 113 10	8 91 8	0 67			172	115 6	9			
Vision 14	3050Ti 35W 11370H	-11% -53	% +93%	+52%	+88%	+35%	+66%	+60% +	+66% +	-63% <u>6</u> -	4.9 [6 —	8	3.2	958	56 56	0 3200	1.04	1.13	+156% +23	5% +31%	+31%	232 1053	4721 110	955 163	154 16	94 52	148 13	2 117 11	3 98 8	8 76	110 58	3 41	163 154	104 5	2 60.0 [65.	0 4.5	1294
Surface Laptop Studio	3050Ti 50W	-14% -58	% +100%	+60%	+74% +	+29%	+68%	+66% +	+84% +	64% 7	0.0 [7 —	7	4 2.7	1314	42 4	7 4266	1.40	1.83	+213% +168	3% -15%	-27%	223 947	4893 110	556 212	145 8	35 42	137 12	1 115 11	1 101 9	0 75	101 64	4 45	170 163	111 6	3 63.9	61.	6 3.8	1408
Precision 5470	A1000 40W	-5% -18	% +67%	+50%	+80% +	+46%	+80%	+61% +	+80% +	69% 5	5.7 [7 —	6	7 1.0	1027	42 50	9 5200	1.24	1.62	+177% +14	1% -13%	-18%	248 1847	4101 10	244	148 8	32 43	161 14	8 112 13	2 119 9	5 76	105 59	43	168 166	114 5	9 62.6 [₈₂ .	0 0.5	1380
Magicbook 14	12500H 2050 60W	-8% -17	% +61%	+46%	+67%	+52%	+83%	+66% +	+81% +	-70% <u>71</u>	0.0 [7	7	3 1.7	1284	52 5:	1 4800	1.18	1.56	+220% +21	7% -1%	+6%	240 1875	3938 10	217	141	78 40	159 14	4 138 136	0 117 9	4 82	113 61	1 43	183 176	112 5	61.0	64.	0 2.1	1717
Zephyrus G14	4900HS 2060MQ	-26% -26	% +139% +	115%	+110% +	+20%	+55% +	125%	+	-77% <u>6</u> -	4.5 [7 -	8	3.3	1054	46 5	4 3200	1.29	1.60	+163% +168	3% +2%	-12%	193 1655	5850 15	550 232	168 16	91 58	121 11	5 108 104	4 95 8	2 70	141 83	3 62			88.4	90.	1 3.2	1413
ROG Flow Z13	12900H 3050Ti 40W	+6% -3	% +65%	+46%	+65%	+70%	+113%		+81% +	- 82 % <u>5</u> (6.2 [7 <u>1</u>	nn 7	4 1.0	929	48 4	1 5200	0.74	1.19	+153% +30	7% +61%	+59%	275 2196	4041 10	500 225	142	74 37	187 17	2 151 13	7 134 11	4 93			181 174	114 5	5 [80]	60.	0 3.8	972
Inspiron 14 Plus 7420	12700H 3050 50W	-3% -16	% +84%	+67%	+81% +	+62%	+119%	+77% +	+84% +	-85% <u>5</u> 1	0.0 [8 _	6	9 0.8	1762	40 5:	2 4800	1.35	1.67	+142% +99	9% -18%	-28%	253 1906	4503 12:	125 222	150 8	34 46	174 15	9 145 134	4 138 11	7 94	114 66	5 47	182 161	112 6	2 68.0 [80.	0 2.5	1582
Vision 14	12700H 3050Ti 35W	+1% -12	% +95%	+70%	+125% +	+30%	+85%	+93% +	+93% +	85% 6	0.0 [8 _	8	4 1.6	631	57 49	9 3200	1.10	1.31	+139% +193	1% +22%	+26%	263 1988	4773 12	349 249	264 9	92 44	148 12	2 114 109	9 112 16	0 82	131 71	1 50	171 163	121 6	8			
Zephyrus G14	5900HS 3060 80W	-10% -7	% +195% +	153%	+150%	+30%	+51% +	-137% +1	139% +1	01% 9	5.4 [8 JL	лл 9	5 3.6	1410	62 5	2 3200	1.43	1.68	+233% +25	7% +7%	+6%	235 2088	7234 184	136 267	12	28 68	133 13	2 115 116	97 8	3 62	139 89	9 69	172	134 8	93.7	84.	3 3.3	1560
Razer Blade 14	5900HX 3070 100W	-24% -9			+209%	+26%	+40% +	185% +1	137% +1	19% 1	09.6 [_	9	0 4.2	1635 52	[87] 5:	2 3200	1.18	1.77	+308% +39	7% +22%	+6%	197 2052	9768 23	373 288	16	4 89		6 112 10			139 114	1 88	169	132 8	9 119.1	82.	9 3.9	1740
Alienware x14	12700H 3060 75W	-3% -2				+78%			143% +1			_ 7		1233	51 5:	2 5200	1.22		+319% +29		+2%	252 2194			239 14			8 161 15			151 97			165 8			5 1.8	
Zephyrus G14	6900HS					+44%			174% +1					1233	55 4	5 4800	1.38		+220% +24		-3%	254 2046			273 16		147	128 10	7 73 6	0 50	122			162 8			1 2.2	
Razer Blade 14	6800S 105W 6900HX													700																								
GE76 Raider	3070Ti 100W 12900HK	-6% +1							142% +1		42.0 [9		780	43 4:	2 4800	1.18		+410% +54		-12%	245 2265			300 18			1 126 12			177 129			158 9		80.		
averages	3080Ti 175W	+6% +21	% +444% +	368%	+407% +	+81%	+149% +	-387% +2	238% +2	52% 1	84.1 [_	_ 7	4 2.2	1770	47 5	3 4800	2.93	3.02	+729% +236	-59%	-61%	275 2722	13324 34	941	384 24	17 126	186 17	2 164 156	6 155 13	3 109	171	1 131	184	176 12	203.0	78.	0 4.4	1710
amd (n=35)	^[45].*U\$	+28% +157			+67% +1			+78% +1		-86% -96%	19.7		0 2.5		45 35 46 46	9		1.40		1% -5% 3% +8%	-8% +10%	191 1214				19 13	100 8 87 6			2 29	33 16 37 21			25 1: 24 10				
amd vega 6 (n=6)	^4[56].*U\$	+16% +104	% +6%	+20%	+42% +1	100%	+59%	+41%	+	-66%	22.7	7	4 3.0	966	43 3	-	1.08	1.39	+1	3% +10%	-1%	174 962	868 2	946 54	35 1	16 11	96 7	6 45 4	2 39 3	0 27	28 14	1 9			0			
intel 80eu (n=38) amd yega 7 (n=19)	^(11 12)([34	+36% +76		-	+76% +	+92%	+61% +	+76% +1		-82% -86%	20.0		7 1.3		44 44	-	1.08	1.24		3% +6% 1% -9%	+6%	203 832 189 1206				23 12 19 13	92 6 99 7				34 18 33 16		79 68 92 82		8 8			
amd vega 8 (n=11)	^(4[89] 5[78	+40% +202	% +38%	+50%	+86% +1	126%	+77%	+92% +1	152% +1	103%	17.4		4 2.3	743	46 3	9	1.13		-17	7% -7%	-0%	209 1427	1133 3	579 68	43 2	21 14	106 8	5 52 49	9 44 3	5 30	35 18	3 12	97 88					
intel 96eu (n=76) intel 12th (n=31)	^(11 12)([68	+48% +95			+123% +1	105% 131%			132% +1 123% +1		23.6 25.4		1 1.5	739 658	47 4: 45 4:		1.04	1.26		1% +13% 2% +17%	+13%	222 926 234 1326				29 14 29 13	94 7 108 8		7 44 3 1 47 3	6 32 6 33	40 22		95 81 99 84		9			
amd 6000 (n=7)	^6	+55% +180				150%	+88% +				24.3	7	5 2.1	654	50 3		1.05		+2	2% +16%	+17%	234 1326	2011 6	984 116	65 3	34 20	109 9		7 47 3	7 32	55 28	3 20	134 117	46 20	0			
3200 (n=60)	3200	+35% +117				+97% +78%	+70%			-83% -78%	22.3		0 2.0		44 4	-	1.23			1% -7% 3% -7%	-11% -9%	203 1022				21 12	94 7			4 30	33 17		83 76		8			
3200 intel (n=27) 3200 amd (n=26)		+39% +61 +25% +148	% +23%	+34%	17070	+78% 109%		+74% +1		-78% -82%	22.6		8 1.6 1 2.6		44 3: 45 3:	-	1.20			3% -7% 3% -7%		208 758 187 1172	1240 5		75 .	22 11 19 13	86 6 98 7			4 30 2 28	33 18 32 16		76 63 89 86		1			
3200 amd vega 6 (n=5)		+16% +99	% +5%		+40% +1	101% +71%	+59%	+41%	+	-65% -67%	23.8	7		1088	43 39	-	1.10	1.41	+1	7% +11% 9% -15%	-5% -16%	174 939 200 756	864 2		33 1	16 11 20 11	97 7 85 6	6 45 42	2 40 3	0 27	28 14 30 16	1 9	69 57	16	,			
3200 intel 80eu (n=15) 3200 amd vega 7 (n=17)		+34% +60				+71% 108%		+85% +		-67% -83%	19.8		2 2.4	766 765	42 4	8		1.41		9% -15% 7% -10%	-16% -15%	200 756 186 1188				20 11 19 12	85 6 97 7			2 28	30 16		69 57 89 86		9			
3200 intel 96eu (n=17)		+50% +84					+82% +				24.0		0 1.6		45 4:	1		1.31		3% -1%	-4%	224 871	-0.0			24 12	94 7				36 19		87 71		8			
3200 amd vega 8 (n=5) 4266 (n=95)	3733	+43% +217			+86% +1				154% +1 152% +1		17.8 22.4		6 2.6 0 1.5		48 31 47 48	0	1.25	1.37		3% -15% 9% +15%	-7% +17%	213 1497 218 1013			43 2	21 14 29 14	109 8 97 7				35 17 42 23		97 91 99 86	26 1 27 1				
4266 amd (n=9)		+37% +183			+81% +1		+72%			97%	18.9		6 2.3		44 3			1.33		5% -0%	+2%	204 1335				20 14				4 29				27 1				
4266 intel (n=54) 4266 amd vega 6 (n=1)		+41% +58				+95% +98%	+69% +	-144% +1	138% +1	_	21.9 17.0		9 1.5		47 4: 46 4	-	1.00 0.96	1.22		3% +15% 5% +7%		211 744 170 1072			37	29 14 17	88 7 91 7	0 48 49 5 47 43		4 30 0 27	40 22	2 17	91 78	26 1:	1			
																1	, ,,,,,,							., 50											-			



			Relative to Minimum										NBC	1	RAM		Chassis					R15	3DMark		The Witcher 3		Dota 2 Reborn		om	X-Plane 11.11		FXV Bench		GTA V			NBC Witcher 3		ess				
Ur	nit	Processor	R15 Single	R15	3DM Time	1 3DN Fire	M It Witch	ne Dota 2	2 X-Plan n 11.	ne FFX\	/ h GTAV	Games Mean [1]	Proc Power (W)	Beha Ter	PU CPU np Cloc °C) (GH	J GPU k Clock z) (MHz)	Surface Temp (°	Max Fan Noise (dbA)	Clock (MHz)	Volume W	eight	CPU Power / I Temp	CPU (Power T	CPU Sur emp Te / Vol	face S mp / Vol	Single Multi (first Loop run) (avg)	Time Spy gfx	Fire Strike gfx	ow med [2] [3	high ultra	l low r	ned high	ultra] [9]	low med hig [10] [11] [1	jh lov i2] [1:	v med hig	h low 5] [16	med hi	gh ultra [18] [19]	Proc Power (W)	Beha C vior To		PU GPU ick Clock Hz) (MHz)
					0.0		5	10	15	2	0	25	30	35	40	4	45	50	55	60	0%																						
												Sustaine	d CPU Po	wer (W)																													

- [1] igpu: relative to min igpu dgpu: relative to max igpu
- [2] 1024x768 Low
- [3] 768p Med
- [4] 1080p High
- [5] 1080p Ultra
- [6] 720p Min
- [7] 768p Med
- [8] 1080p High
- [9] 1080p Ultra
- [10] 720p Low
- [11] 1080p Med
- [12] 1080p High
- [13] 720p Lite
- [14] 1080p Standard
- [15] 1080p High
- [16] 1024x768 Low
- [17] 768p Normal
- [18] 1080p High
- [19] 1080p Highest
- [20] Cinebench R15 Multi
- [21] 19.5



- [43] 16GB single-channel
- [44] 16GB single-channel
- [45] 26.3
- [46] 87
- [47] 99.1
- [48] 10 CPU + 8.7 GPU
- [49] 47.4
- [50] 16GB single-channel
- [51] https://www.notebookcheck.com/fileadmin/Notebooks/Dell/Inspiron_13_5310-NJ24J/stress_screen.PNG
- [52] 123
- [53] 12 CPU + 20 GPU
- [54] 116
- [55] 14.6 CPU + 49.6 GPU
- [56] 20.1 CPU + 49.8 GPU
- [57] 15 CPU + 22 GPU
- [58] 23.18 CPU + 23.14 GPU
- [59] 14.9 CPU + 34.7 GPU
- [60] 21.8 CPU + 25.2 GPU
- [61] 20.0 CPU + 34.5 GPU
- [62] 36 CPU + 35 GPU
- [63] 26.1 CPU + 34.7 GPU

[64] 15.1 CPU + 34.8 GPU

[65] 44.3 CPU + 34.5 GPU

[66] 13.9 CPU + 34.8 GPU

[67] 33.0 CPU + 33.8 GPU

[68] 25.8 CPU + 34.8 GPU

[69] 30 CPU + 34.9 GPU

[70] 13.7 CPU + 45.3 GPU

[71] 25 CPU + 45 GPU

[72] 15.4 CPU + 48.5 GPU

[73] 20.9 CPU + 34.8 GPU

[74] 26.8 CPU + 35.8 GPU

[75] 25 CPU + 45 GPU

[76] 9 CPU + 52 GPU

[77] ~36 CPU + 28.5 GPU

[78] 23.7 CPU + 64.7 GPU

https://www.ultrabookreview.com/37852-asus-zephryus-g14-ryzen-9-4900hs/

[79] 21.4 CPU + 34.8 GPU

[80] 21.8 CPU + 34.9 GPU

[81] 20 CPU + 30 GPU

[82] 18 CPU + 50 GPU

[83] 25 CPU + 35 GPU

[84] 33.2 CPU + ~62.2 GPU

[85] 13.8 CPU + 79.9 GPU

[86] 44.6 CPU + 65 GPU

[87] during Witcher stress

[88] 25.6 CPU + 93.5 GPU

[89] 30.57 CPU + 59.88 GPU

[90] 17.19 CPU + 71.91 GPU

[91] 29.3 CPU + 60W GPU (?)

[92] 14 CPU + 56 GPU

[93] 52 CPU + 90 GPU

[94] 31.8 CPU + 101 GPU

[95] 45 CPU + 139.1 GPU

[96] 44.46 CPU + 158.5 GPU