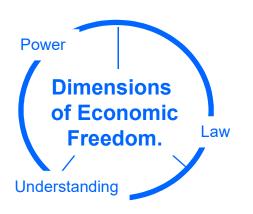
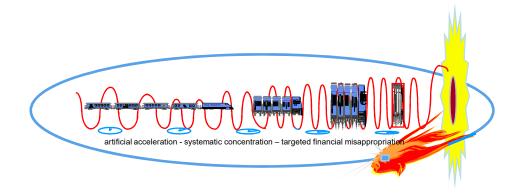
Camp Marketing Consultancy



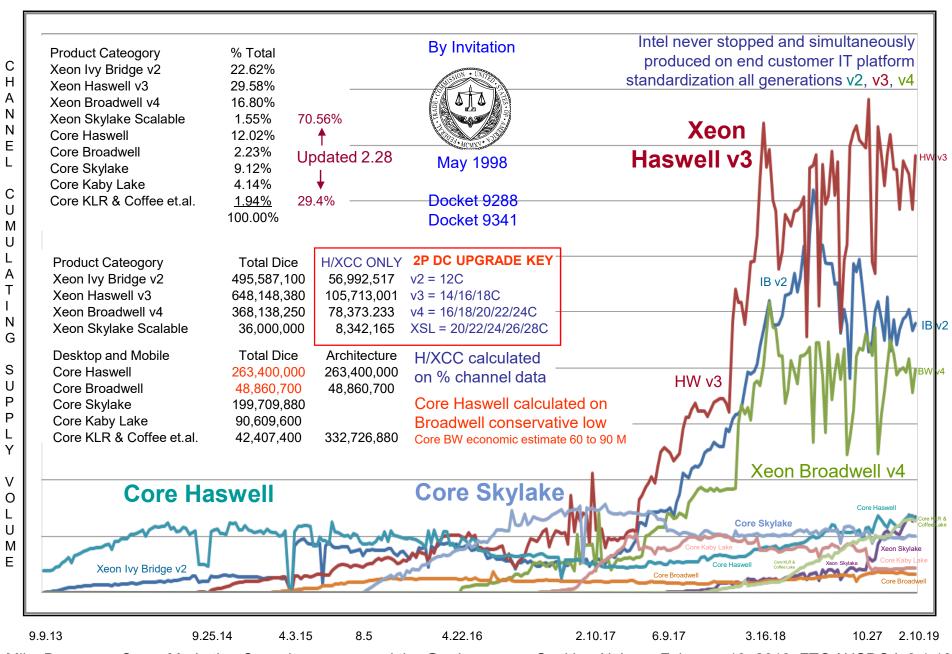
NOW all XSL v Epyc/TR and AMD Cost plus Refined XSL 26/28C Cost Consideration |



Intel Xeon v2 / v3 / v4 volume by architecture generation with by Cores and Grade SKU volume on channel data

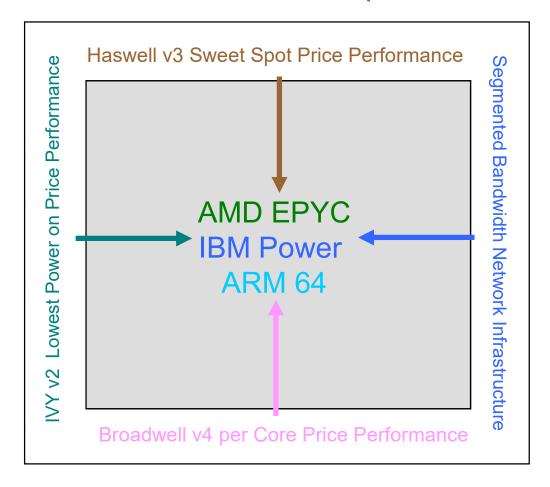
Completes Haswell by Grades Analysis Teon Supply Core Supply Revenue Value Cornolete Complete Co DCG Unreported Revenue Haswell v3 Full Run Defined Broadwell va on skylake Haswell v3 on Broadwell v4 Leon by Cores Volume Thread Ripper VEXTremes Broadwell EllEs va Complet

Camp Marketing Consultancy – Intel Core and Xeon at 282 Weeks of Supply



Camp Marketing Consultancy

Four fronts of Intel Xeon competitive address



Economic assessment shows 532,312,557 units of Xeon v2, v3, v4 production Price < Average Marginal Cost at 85% off \$1K that is \$30,849,246,619 industry competitive financial theft; Q3 2013 through current

See slides 5, 6, 7, 20, 53, 72, 126, 127

Camp Marketing Consultancy

Management is the heart of an institution; and the institution, whether a business or a public service, is in turn an organ of society, existing to make specific contributions and follow specific social, industrial, enterprise and governance functions. Management, therefore, is defined and understood in terms of its performance dimensions and of the demands of performance on it. The tasks of management are the reasons for its existence, the determinants of its works, and the grounds of its authority and legitimacy.

- Peter Drucker, Management Tasks, Responsibilities, Practices 1973

Camp Marketing Consultancy - Xeon Revenue Value at Full Line Average Weighed Price

Summary non-accounted / nor reported DCG Xeon revenue, *updated at v4*; Confirms FTC 2013 Intel Corporate and Stockholder theft assessment for further discovery.

495,587,100 units Ivy Bridge E7/E5/EE 1K AWP \$1287.32 = \$637,977,075,678 at 50% long run discount = \$318,988,538,838

648,148,380 units Haswell E7/E5/EE 1K AWP \$2091.80 = \$1,355,797,638,644 at 60% discount = \$542,319,055,457

368,138,250 units Broadwell E7/E5/EE 1K AWP \$1396.65 = \$509,970,336,862 at 70% discount = \$152,991,101,058

5 year DCG 1K revenue = \$2,503,745,051,184

5 year DCG gross revenue at 60% discount = \$1,001,498,020,473

5 year DCG 1K revenue = \$2,503,745,051,184

5 years gross revenue at current 85% discount = \$375,561,757,677 \$54,932,351,535*

DCG **Annual Unreported**

5 year Intel reported DCG Revenue = \$100,900,000,000 or 96% off 1K \$2.503 T In other words Xeon is bundled into a Core sales package for/next to nothing?

5 year non reported non accounted range **\$274,661,757,677** to \$900,598,020,473

*\$54.932 B annual is greater but intuitively proximate Supply Signal Cipher annual revenue discrepancy 2010 through 2016.

Camp Marketing Consultancy - Summary of Enterprise, Stockholder & Industry Financial Harms

Intel Enterprise and Stockholder harm; 2013 to date;

5year DCG 1K revenue = \$2,503,745,051,184

5 year DCG gross revenue at 60% discount = \$1,001,498,020,473

5 year DCG 1K revenue = \$2,503,745,051,184

5 years gross revenue <u>at current 85% discount</u> = **\$375,561,757,677**

5 year Intel reported DCG Revenue = \$100,900,000,000 or 96% off 1K \$2.503 T

5 year non reported non accounted range **\$274,661,757,677** to \$900,598,020,473

Competitor Enterprise and Industry financial harm on Xeon processors supplied at Price < Cost

Xeon v2/v3/v4 + XSL Processors P < C = \$30,858,095,444

Ivy Bridge Generation -

29% of full run volume, 144,010,887 units < AMC \$138 =\$8,555,813,552 industry financial harm.

Haswell Generation -

35% of full run volume, 228,511,435 units < AMC \$129 = \$14,312,073,548 industry financial harm

Broadwell Generation –

44% of full run volume, 159,790,235 units < AMC \$160 = \$7,981,359,518 industry financial harm

Skylake Generation –

0.27% of full run volume, 116,756 units < AMC \$143 = \$8,848,826 industry financial harm

DCG per YEAR

Annual Unreported

\$54,932,351,535*

Camp Marketing Consultancy - Summary of Enterprise, Stockholder & Industry Financial Harms

Intel Enterprise and Stockholder harm; 2007 through 2013

Annual Revenue Discrepancy calculated 2007 through supply signal cipher end.

Year	Revenue on Supply Statement & Product Split	Intel Annual Revenue Statement	
2015	\$58,845,389,744	\$55,355,000,000	Supply signal ends requiring new method of revenue verification; on volume discount.
2014	\$54,464,656,324	\$55,870,000,000	
2013	\$74,071,256,544	\$52,708,000,000	Production value theft escalates here.
2012	\$98,365,455,032	\$53,341,000,000	
2011	\$104,346,365,564	\$53,999,000,000	
2010	\$48,564,553,236	\$45,623,000,000	Non reported non accounted existed well before 2008 a core focus of EUCC v Intel 37.990.
2009	\$35,373,428,991	\$35,100,000,000	
2008 2007	\$37,772,888,907 \$38,640,439,822 \$550,444,434,163	\$37,600,000,000 \$38,300,000,000 \$427,896,000,000	
	\$122,548,434,163 Unaccounted / non reported	ψ 121,000,000,000	

Analyst estimates Intel \$1K price non reported non accounted over 30 years ~ \$3.7 trillion. Validates the down fall of unregulated monopoly free for all; theft in a financial chaos.

2007 through 2015

Camp Marketing Consultancy – Xeon Production Theft – Types of Money Laundering

United States Code Section 1956(a) defines three types of criminal conduct: domestic money laundering transactions (§ 1956(a)(1)); international money laundering transactions (§ 1956(a)(2)); and undercover "sting" money laundering transactions (§ 1956(a)(3)).

To be criminally culpable under 18 U.S.C. § 1956(a)(1), a defendant must conduct or attempt to conduct a financial transaction, knowing that the property involved in the financial transaction represents the proceeds of some unlawful activity, with one of the four specific intents discussed below, and the property must *in fact* be derived from a specified unlawful activity.

The actual source of the funds must be one of the specified forms of criminal activity identified by the statute, in 18 U.S.C. § 1956(c)(7), or those incorporated by reference from the RICO statute (18 U.S.C. § 1961(1)). Section 1956(c)(7)(B) includes in the list of specified unlawful activity certain offenses against a *foreign* nation. Thus, proceeds of certain crimes committed in another country may constitute proceeds of a specified unlawful activity for purposes of the money laundering statutes.

To prove a violation of § 1956(a)(1), the prosecutor must prove, either by direct or circumstantial evidence, that the defendant knew that the property involved was the proceeds of any felony under State, Federal or foreign law. The prosecutor need not show that the defendant knew the specific crime from which the proceeds were derived; the prosecutor must prove only that the defendant knew that the property was illegally derived in some way. See § 1956(c)(1).

The prosecutor must also prove that the defendant initiated or concluded, or participated in initiating or concluding, a financial transaction. A "transaction" is defined in § 1956(c)(3) as a purchase, sale, loan, pledge, gift, transfer, delivery, other disposition, and with respect to a financial institution, a deposit, withdrawal, transfer between accounts, loan, exchange of currency, extension of credit, purchase or sale safe-deposit box, or any other payment, transfer or delivery by, through or to a financial institution.

Camp Marketing Consultancy – Xeon Production Value Theft – Types of Money Laundering

The transportation, transmission or transfer must cross the border -- either originating or terminating in the United States. That term includes all means of transporting funds or monetary instruments, including wire or electronic funds transfers, and the transfer of currency, checks, money orders, bearer securities and negotiable instruments (processing components).

Section 1956(a)(3) relates to undercover operations where the financial transaction <u>involves</u> <u>property represented to be proceeds of specified unlawful activity</u>. The proceeds in § 1956(a)(3) cases are not actually derived from a real crime; they are undercover funds supplied by the Government. The representation must be made by or authorized by a Federal officer with authority to investigate or prosecute money laundering violations. The representation may also be made by another at the direction of or approval of a Federal officer. It should be noted that the specific intent provisions in § 1956(a)(3) are slightly different from those in § 1956(a)(1). First, the intent to violate the tax laws is not included in this subsection. Second, subsections 1956(a)(3)(B) and (C) require that the transaction be conducted with the intent to conceal or disguise the nature, location, source, ownership or control of the property or to avoid a transaction reporting requirement, respectively, in contrast to subsections 1956(a)(1)(B)(i) and (ii), which only require that defendant know that the transaction is designed, in whole or in part, to accomplish one of those ends.

Violations of § 1956 have a maximum potential twenty year prison sentence and a \$500,000 fine or twice the amount involved in the transaction, whichever is greater. The general sentencing provisions in 18 U.S.C. §§ 3551-3571 should also be consulted. There is also a civil penalty provision in § 1956(b) which may be pursued as a civil cause of action. Under this provision, persons who engage in violations of subsections 1956(a)(1), (a)(2) or (a)(3) are liable to the United States for a civil penalty of not more than the greater of \$10,000 or the value of the funds involved in the transaction. Copies of pleadings in § 1956(b) actions are available from the Section Prosecutions under 18 U.S.C. § 1957 arise when the defendant knowingly conducts a monetary transaction in criminally derived property in an amount greater than

Camp Marketing Consultancy – Xeon Production Value Theft – Types of Money Laundering

\$10,000, which is in fact proceeds of a specified unlawful activity. Section 1957(f)(1) defines a monetary transaction as a "deposit, withdrawal, transfer, or exchange, in or affecting interstate or foreign commerce, of funds. by, through, or to a financial institution (as defined in section 1956 of this title), including any transaction that would be a financial transaction under section 1956(c)(4)(B) " Section 1957 carries a maximum penalty of ten years in prison and maximum fine of \$250,000 or twice the value of the transaction. There is no civil penalty provision.

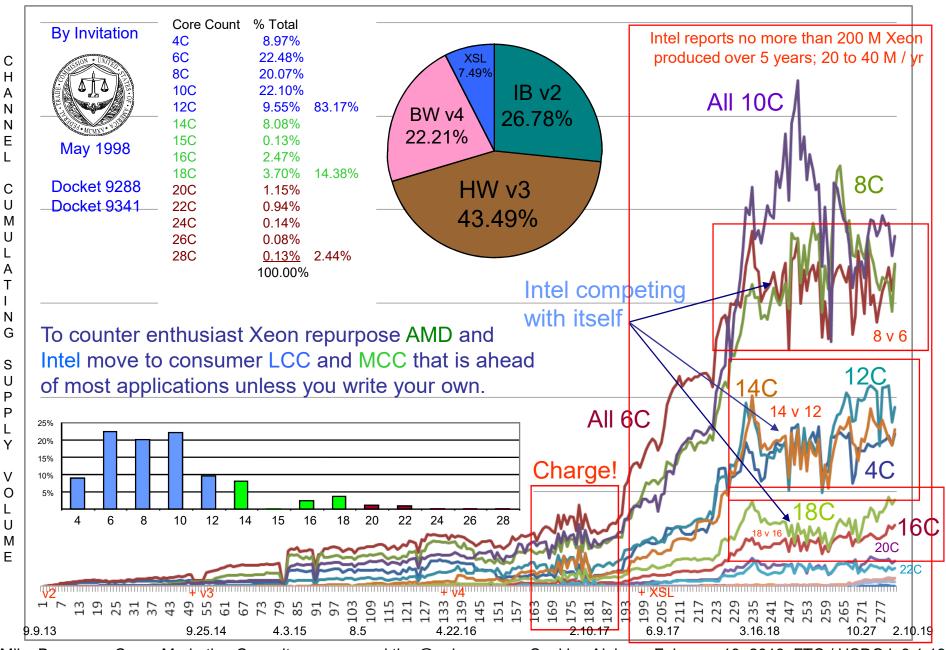
The most significant difference from § 1956 prosecutions is the intent requirement. Under § 1957, the four intents have been replaced with a \$10,000 threshold amount for each non-aggregated transaction and the requirement that a financial institution be involved in the transaction. Although the prosecutor need not prove any intent to promote, conceal or avoid the reporting requirements, it still must be shown that the defendant knew the property was derived from some criminal activity and that the funds were in fact derived from a specified unlawful activity.

There is extraterritorial jurisdiction for violations of § 1956 if: (1) the transaction or series of related transactions exceeds \$10,000; and (2) the laundering is by a United States citizen, or, if by a foreign national, the conduct occurs in part in the United States. See § 1956(f). There is extraterritorial jurisdiction for violations of § 1957 if the defendant is a United States person. See § 1957(d).

Sections 1956 and 1957 include "attempts" as well as completed offenses. Conspiracies are indictable under 18 U.S.C. § 1956(h). It should be noted that, in October 1992, Congress added § 1956(g), which provides a separate offense for money laundering conspiracy. Since Congress inadvertently added two sections designated as § 1956(g), the conspiracy provision was redesignated § 1956(h) in September 1994. The conspiracy provision in § 1956(h) is modeled after the conspiracy provision in 21 U.S.C. § 846. Thus, it should not be necessary to plead overt acts in the indictment. However, the Section recommends that overt acts be included in the indictment if practicable.

United States Department of Justice, 2101. Resource Manual, Money Laundering Overview, www.justice.gov

Camp Marketing Consultancy – Intel Xeon E7/E5/SL by Core Count at 282 Weeks



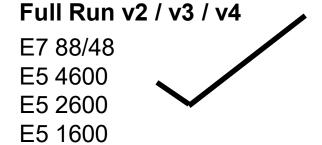
Camp Marketing Consultancy – Brief Opening of October 28 by Elliott Jaques

During the years of World War II there has been a widespread development and usage of novel social methods. Establishing techniques of personnel and leadership selection, social and anthropological surveys, propaganda studies and psychological warfare, the creation of transitional communities to facilitate readjustment of repatriates are some examples of what has been done. The list is long and the immensity of the job inspiring. In this common task teams of psychologists, sociologists, anthropologists, psychiatrists, social workers, economists, management, clergy and social scientists, government service, technicians and engineers have learned to work together with program administrators and executives to get the job done.

The civil community, harassed by difficulties of geopolitical industrial, the ideological, the genocides, reconstruction, political and economic wars is now looking for help, and certain sections of the community have begun to turn to a novel management science for assistance. The challenge of this demand is great. It forces on established sciences a necessity for developing new methods of society approach, within community, enabling creative expression and release of spontaneous adjustment mechanisms with a consequent growth. Proper collaboration within community then can help to straighten out its difficulties, in turn, makes possible a healthy evolution of the industrial social order and enterprise political institution within community for society good in progress.

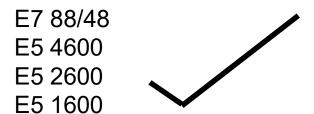
The problem of collaboration however is complex. On the one hand community is somewhat uncertain about the little known or new science. This shows, for example, as a confusion in what change agency and change management does. Attitudes of submission to the omnipotence of mighty science occur on one hand, and feelings of anxiety occur on the other. It is understandable that anxiety and apprehension arise in any social setting which finds itself experimenting to cope with a particularly novel problem. And reasonably enough resent intrusion by particular forms of novel reference or unique knowledge called in to help. On the other hand there is a complex of attitudes

Camp Marketing Consultancy – Xeon in Channel by Cores and Grade SKUs Inventory



Goal; Inventory Sales Clearing
Objective; Product Sales Administration
Strategy; Inventory Financial Risk Management
Tactic; Coordinated Planning
Deliverable; Unlock Financial Values

Within Year v2 / v3 / v4



Current v2/ v3 /v4 / Sky Lake Scalable

Platinum, Gold, Silver, Bronze, W & E Series (Next in Series)

E7 88/48 E5 4600 E5 2600 E5 1600

Xeon by Architecture Grade SKUs holdings

Xeon by Architecture in Relation AMD Epyc/TR – Scalable M, F, T, Performance / w

Camp Marketing Consultancy

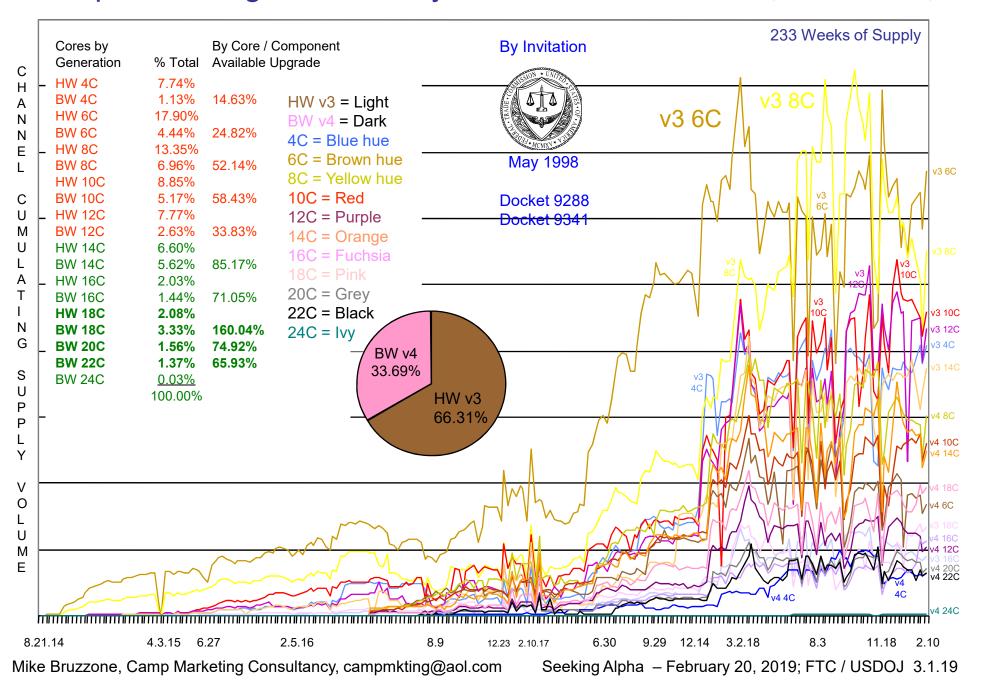
among scientists, generally, just as in individual therapy ambivalence tends to be directed against the therapist. This process, known as transference, is utilized in psychoanalysis as the basis for social therapy. It is our belief that it can be similarly applied in a collaborative management science for change agency, social regulation and collaborative decision making.

Social treatment is made possible by the transference of positive feelings toward the management scientist through collaborative compliment for system progress. These feelings reflect a desire for change and improvement interpreted as such. On the other hand, negative transference, or the transference to management science and change agent may result in hostility and resentment. Arising from anxieties about how change agency may occur. Or out of inter person and inter group frictions in the corporate political or any social situation reflected in resistances against going through with collaboration for group learning and a coordinated plan achieved.

The handling of these resistances is crucial. They show in many small and insignificant ways as pointed out by Wilson, a concealed hostility, from apparent innocent questions, the continuous testing out of the good intentions and the quashing of effort. Change can only be accomplished as rapidly as resistances are overcome and removed requiring rational support in this endeavor.

Lewin has pointed out that evolving participation in group decisions frequently overcome individual resistances very rapidly. On the other hand direct interpretation of the resistances, in terms of negative transference behavior towards change agency has probably been more deeply rooted. Where lasting effect properly worked out demonstrate across group both expertise and a legitimate science in progress. Take for example the expert with unique knowledge reference entering a group for purpose of additive and modifying practice. Such an individual is sometimes seen as a threat to the security, and an usurper of the roles of certain of group members. The result is the coming into

Camp Marketing Consultancy - Channel Xeon E7 / E5 v3 / v4 by Cores Inventory



Camp Marketing Consultancy

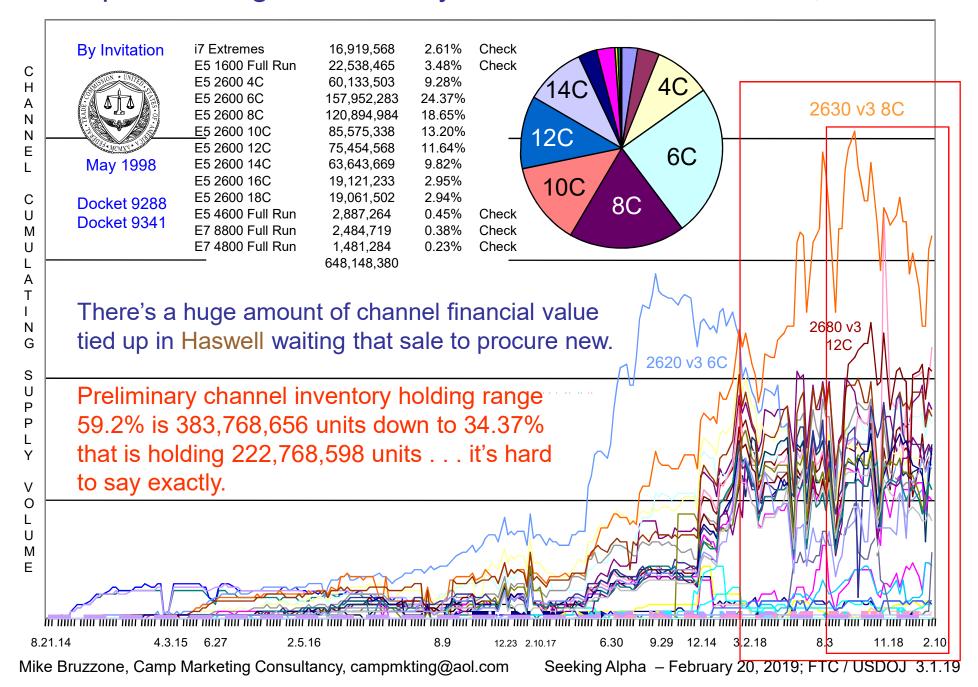
play of various defense mechanisms, which are largely unconscious in operation, yet may at times be conscious, destructive and self serving. Having as their aim the manipulation of the intruder in order to render them harmless. Crude refusals to cooperate for greater good is rarer than might be expected and these manipulations usually take subtle forms. They range from side tracking, moving into absorption, into relatively unimportant details while the essentials of traditional methods remain as before and perhaps masked or forgotten. Or by misrepresentation and disarming by enthusiasm to lure in, dulling the critical perception on efforts that negate, or to undermine, or to disqualify the additive components of management science and change agency as critical contributors.

It is also not uncommon for some member of the group to become dependent thus to absorb the bulk of time and energy in dealing with what is really a personal problem. It is important to interpret these unconscious mechanisms within the group. And to resolve purely conscious moves that they be recognized as a common restriction to expertise that represent resistance to change, and as group tensions are played out detrimental to the group, the community, and too collaborative progress.

If this transference is successfully exposed, it should allow the group to proceed through considering changes required among the current roles in the new situation. Opportunity for such interpretation usually crops up in a group or individual discussion, or through audit, or in socio dramatic or other training session. The timing and dosage of interpretations are a matter of clinical interpretation and management judgment, and present one of the greatest challenges of treatment. It is for this reason the institution sets a high value on engineering industrial management and social science training.

Such training is the best guarantee that the technique of utilizing the transference situation in group dynamics will never be taken lightly, ensuring management science maintains a continuous concern about working through tensions, aroused by presence, in the field of collaborative change, dialogue, legitimate governance in enterprise for operational excellence.

Camp Marketing Consultancy - Channel Xeon E7 / E5 v3 and EE by Grade SKU



Camp Marketing Consultancy

By interpretation of group resistance, management for group change agency can achieve a fully collaborative and neutral role. The individual participates in social industrial change not as a manipulator, nor as an engineer, but are clarifiers within community who mix and integrate in group for seeing their whole commonality. Makes manifest its own progress over the internal tensions of the dynamic collaborative and constructive process. Achieves legitimacy realizing whole decision making from management best practice for evolutionary improvement.

Successfully worked through management science as social collaboration of this type is beneficial to community. Eventually it may help society towards a greater awareness of some of the underlying and unconscious, and unscrupulous processes, which contribute to difficulties of inter person, inter corporate, corporate political, governance and intra group adjustment.

Elliott Jaques, Social Therapy: Technocracy or Collaboration, Journal of Social Issues, 1947



Camp Marketing Consultancy - Channel Xeon E7 / E5 v3 and EE by Grade SKU

																																				,
Ð									120	11.64%		14C	9.82%	2.95%	18C	2.04 %						All cores	E5 4 way	0.45%					All cores	E7 8 way	0.26%		F7 4 wav	0.23%		By Invitation
Full Run Volume	648,148,380	49,660	298,415	173,290	14,212	20,099,878	1,230,072	29,630,602	199,469	23,758,971	21,701,746	20,385,871	21,556,052	19,121,233	45,546	19,015,955	197,866 261 684	345,591	205,586	188,356	643.472	564,935	102,419	368,538	784,706	376.338	16,429	226,182	236,921	210,154	355,342	313,967	399,125	439,141		
SKU	% Total	0.01%	0.05%	0.03%	%00°0	3.10%	0.19%	4.57%	0.03%	3.67%	3,35%	3.15%	3.33%	2.95%	0.01%	2.93%	0.03%	0.05%	0.03%	0.03%	0.00%	96000	0.02%	%90 0	0.12%	0.04%	0.00%	0.03%	0.04%	0.03%	0.05%	0.00%	%90°0	0.07%	100.00%	May 1998 Docket 9288 Docket 9341
CATEGORY	GRADE SKU	E5 2648L 12C 1.8	E5 2650L 12C 1.8	E5 2658 12C 2.2	E5 2669 12C 2.3	E5 2670 12C 2.4	E5 2673 12C 2.4	E5 2680 12C 2.5	E5 2685 12C 2.6	E5 2690 12C 2.6	E5 2683 14C 2,0	E5 2695 14C 2.3	E5 2697 14C 2.6	E5 1698 16C 2.3	E5 2686 18C 2.0	E5 2699 18C 2.3	E5 4610 10C 1 7	E5 262010C 2.0	E5 4627 10C 2.6	E5 4640 12C 1.9	E5 4650 12C 1.7	E5 4660 14C 2.1	E5 4667 16C 2.0		E7 8893 4C 3.2	E7 8890 18C 2.5				E7 8867 16C 2.5		E7 4830 19C 2.2				
ø.					4C	11.57%							90	26.75%									8C	20.07%							10C	13.21%				
Full Run Volume	648,148,380	3,317,429	3.530.763	2,817,783	33,802,219	26.331.284	4,903,938	6,223,366	4,303,821	35,347,241	16,749	37,557,026	55,696,622	29,334,644	5,792,265	1,377,022	19.955	1.469	53,560	19,154	61,675,587	4,396,036	30,390,705	24,202,814	135,704	48,431	10,819	38,779,592	6,518	27,125,553	1,012,571	18,591,853			series	t installment in looks at what's g in Haswell and
SKU	% Total	0.51%	0.54%	0.43%	5.22%	4.06%	0.76%	%96:0	%99.0	5.45%	%00.0	2.79%	8.59%	4.53%	0.89%	0.21%	0.01%	0.00%	0.01%	%00.0	9.52%	%89.0	4.69%	3.73%	0.02%	0.01%	%00.0	2.98%	%00.0	4.19%	0.16%	2.87%			what	t's not moving.
CATEGORY	GRADE SKU	E5 1603 4C 2.8	E5 1607 4C 3.1 E5 1620 4C 3.5	E5 1630 4C 3.7	E5 2623 4C 3.0	E5 2637 4C 3.5	17 5930 6C 3.5	17 5820 6C 3.3	E5 1650 6C 3.5	E5 2603 6C 1.6	E5 2608L 6C 2.0	E5 2609 6C 1.9	E5 2620 6C 2.4	E5 2643 6C 3.4	I7 5960 8C 3.0	E5 1660 8C 3.0	E5 2618L 8C 2.3	E5 2622 8C 2.4	E5 2628 8C 2.5	E5 2629 8C 2.4	E5 2630 8C 2.4	E5 2630L 8C 1.8	E5 2540 8C 2.6	E5 2667 8C 3.2	E5 2666 10C 2.9	E5 2628L 10C 2.0	E5 2649 10C 2.3	E5 2650 10C 2.3	E5 2652 10C 2.3	E5 2660 10C 2.6	E5 2663 10C 2.8	E5 2687W 10C 3.1				

Cam	рΜ	ark	cet	tiı	n	g	(Co	on	S	u	lt	a	n	СУ	,
85% off 1K	Notation	Below Cost KEY \$20.40		Below Cost	Below Cost	Below Cost	Below Cost	Profit > Cost		Below Cost	Below Cost	Below Cost	\$2.46 Above AMC	Profit > Cost		Drufft > Cost
Price @	TR/TC Calc AMC \$129	(\$62.40) \$20.40		(\$97.05)	(\$62.85)	(\$83.10)	(\$66.45)	\$103.80		(\$12.15)	(\$28.95)	(\$37.20)	\$11.85	\$179.55		£75 60
Volume	85% OEM Discount 0.15	\$66.60 \$149.40		53.95 95.	\$66.15	\$45.90	\$62.55	\$232.80		\$116.85	\$100.05	\$91.80	\$140.85	\$308.55		\$204 BI
(U High	\$1K Price	\$44.00 \$996.00		\$213.00	\$441.00	\$306.00	\$417.00	\$1,552.00		8779.00	\$667.00	\$612.00	\$939.00	\$2,057.00		
E5 26xx v3 by Grade SKU High Volume Price @ 85% off 1K	35% of Run; 228,511,435 Units < AMC \$129 \$14,312,073.548 Industry Financial Theft FOUR CORE	E5 2623 3.0 GHz, 10 MB L3, 105w E5 2637, 3.5 GHz, 15 MB L3, 135w	SIX CORE	E5 2603 1.6 GHz, 15 MB L3, 85w	E5 2608L 2 0 GHz, 15 MB L3, 50w	E5 2609 1.9 GHz, 15 MB L3, 85w	E5 2620 24 GHz, 15 MB L3, 85w	E5 2643 3.4 GHz, 20 MB L3, 135w	EIGHT CORE	E5 2618L 2 3 GHz, 20 MB L3, 75w	E5 2630 24 GHz, 20 MB L3, 85w	E5 2630L v3 1.8 GHz, 20 MB L3, 55w	E5 2640 26 GHz, 20 MB L3, 90w	E5 2667 3.2 GHz, 20 MB L3, 135w	TIEN CORE	0 F5 26781 2 0 GHz 25 MR 13 75w
														υp	dat	e.

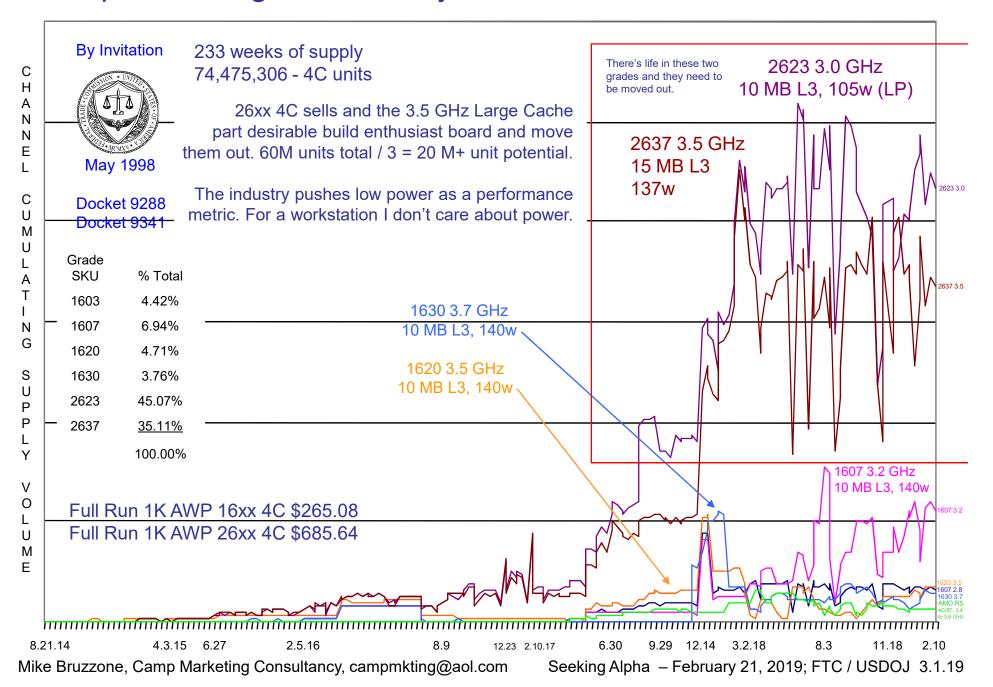
TIEN COOREE E5 2628L 2 0 GHZ, 25 MB L3, 75w E5 2650 2 3 GHZ, 25 MB L3, 105w E5 2660 2 6 GHZ, 25 MB L3, 105w E5 2663 2 8 GHZ, 25 MB L3, 105w E5 2683 2 8 GHZ, 25 MB L3, 120w E5 2687W 3.1 GHZ, 25 MB L3, 150w E5 2687W 3.1 GHZ, 30 MB L3, 75w E5 2650L 1.8 GHZ, 30 MB L3, 75w E5 2650L 1.8 GHZ, 30 MB L3, 65w E5 2659 2 3 GHZ, 30 MB L3, 105w E5 2669 2 3 GHZ, 30 MB L3, 120w E5 2669 2 3 GHZ, 30 MB L3, 120w	NO FOR A PORT OF	00.6% 00.40% 00.40%, te	\$1,166.00 \$174.90 \$45.90	\$1,445.00 \$216.75 \$87.75	25 MB L3, 120w \$1,600.00 \$240.00 \$111.00 Profit > Cost	\$2,141.00 \$ 321.15		\$1,554.00 \$233.10 \$104.10		\$1,832.00 \$274.80 \$145.80	\$1,442.00 \$216.30 \$87.30	\$1,589.00 \$238.35 \$109.35
--	--	-------------------------	-----------------------------	-----------------------------	---	-----------------------------	--	------------------------------	--	------------------------------	-----------------------------	------------------------------

TWELVE CORE				
E5 2648L 1.8 GHz, 30 MB L3, 75w	\$1,554.00	\$233.10	\$104.10	Profit > Cost
E5 2650L 1.8 GHz, 30 MB L3, 65w	\$1,329.00	\$199.35	\$70.35	Profit > Cost
E5 2658 22 GHz, 30 MB L3, 105w	\$1,832.00	\$274.80	\$145.80	Profit > Cost
E5 2669 23 GHz, 30 MB L3, 120w	\$1,442.00	\$216.30	\$87.30	Profit > Cost
E5 2670 24 GHz, 30 MB L3, 120w	\$1,539.00	\$238.35	\$109.35	Profit > Cost
E5 2673 24 GHz, 30 MB L3, 105w				
E5 2680 25 GHz, 30 MB L3, 120w	\$1,745.00	\$261.75	\$132.75	Profit > Cost
E5 2685 26 GHz, 30 MB L3, 120w	\$2,090.00	\$313.50	\$184.50	Profit > Cost
E5 2690 26 GHz, 30 MB L3, 135w	\$2,090.00	\$313.50	\$184.50	Profit > Cost

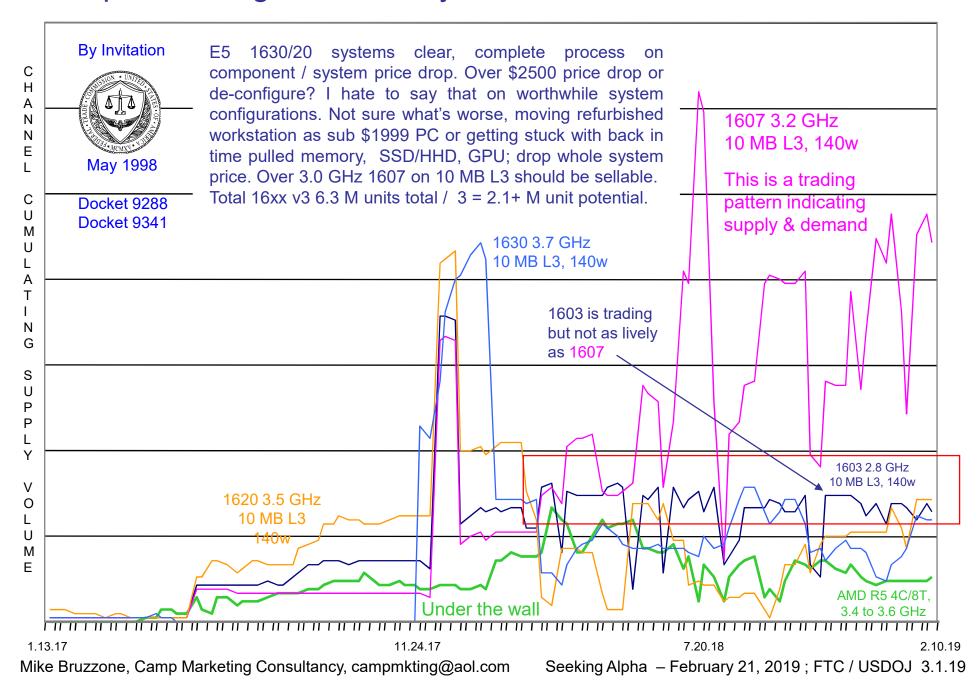
POINTS	\$488.25	\$617.25	24 115 B	E5 2600 23 CHz 45 MR L3, 1204
	•			BIGHTIBEN CORE
COMPETITIVE PROFIT	\$354.90	\$483.90	\$3,226.00	SIX TIEEN CORE E5 2688 2.3 GHz, 40 MB L3, 135w
COMPETITIVE PROFIT	\$ 276.30	\$405.30	\$2,702.00	E5 2697 2.6 GHz, 35 MB L3, 145w
COMPETITIVE PROFIT	\$234.60	\$363.60	\$2,424.00	E5 2695 23 GHz, 35 MB L3, 120w
Profit > Cost	\$147.90	\$276.90	\$1,846.00	E5 2683 20 GHz, 35 MB L3, 120w
				FOUR IEEN CORE

FTC March 13, 2017

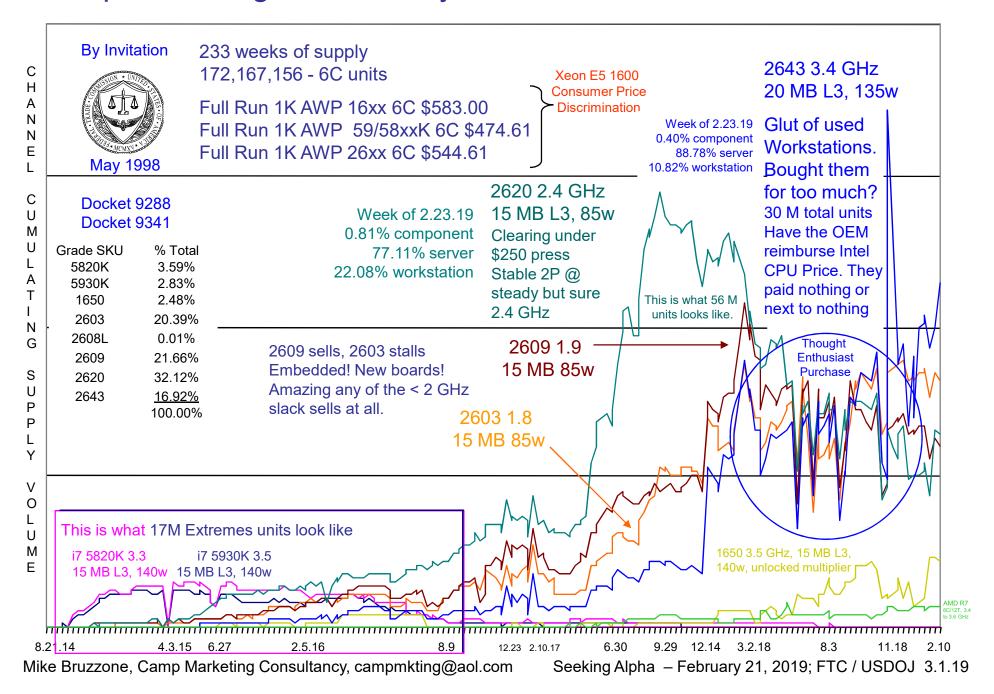
Camp Marketing Consultancy - Xeon E5 26/16xx v3 4C by Grade w/AMD R5 4C/8T



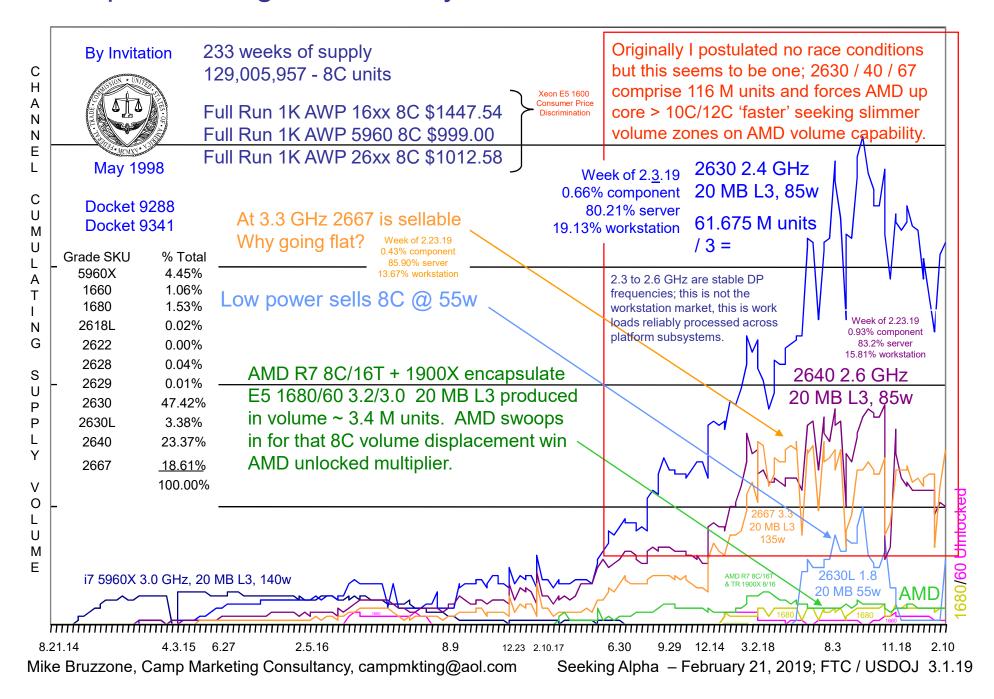
Camp Marketing Consultancy - Xeon E5 26/16xx v3 4C by Grade w/AMD R5 4C/8T



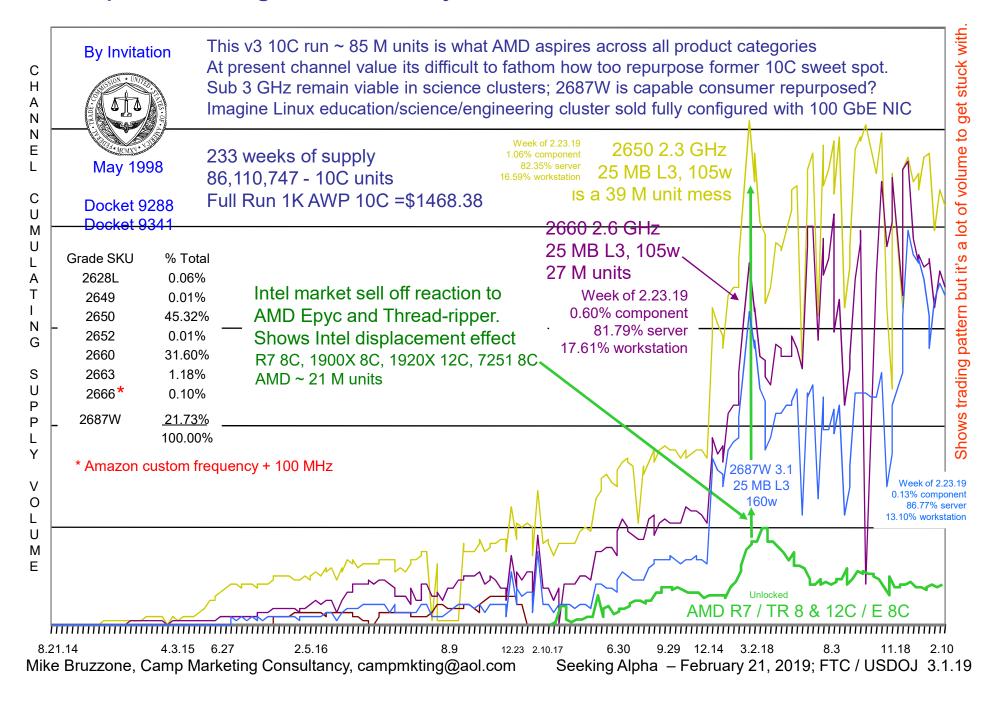
Camp Marketing Consultancy – Xeon E5 26/16xx v3 6C by Grade w/AMD R7 6C/12T



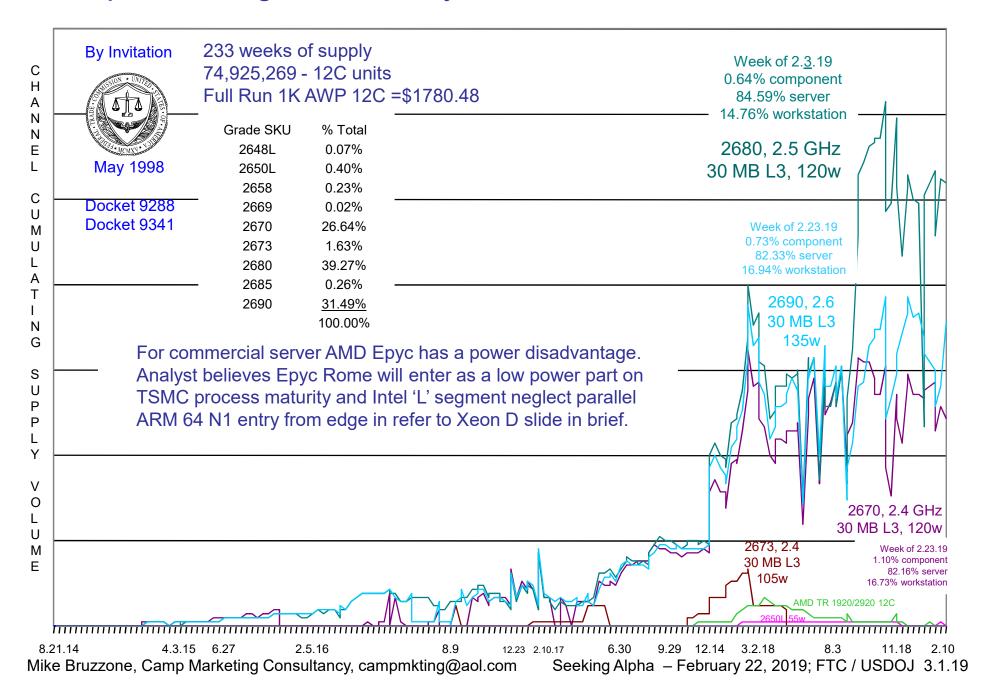
Camp Marketing Consultancy – Xeon E5 26/16xx v3 8C by Grade w/AMD All 8C/16T



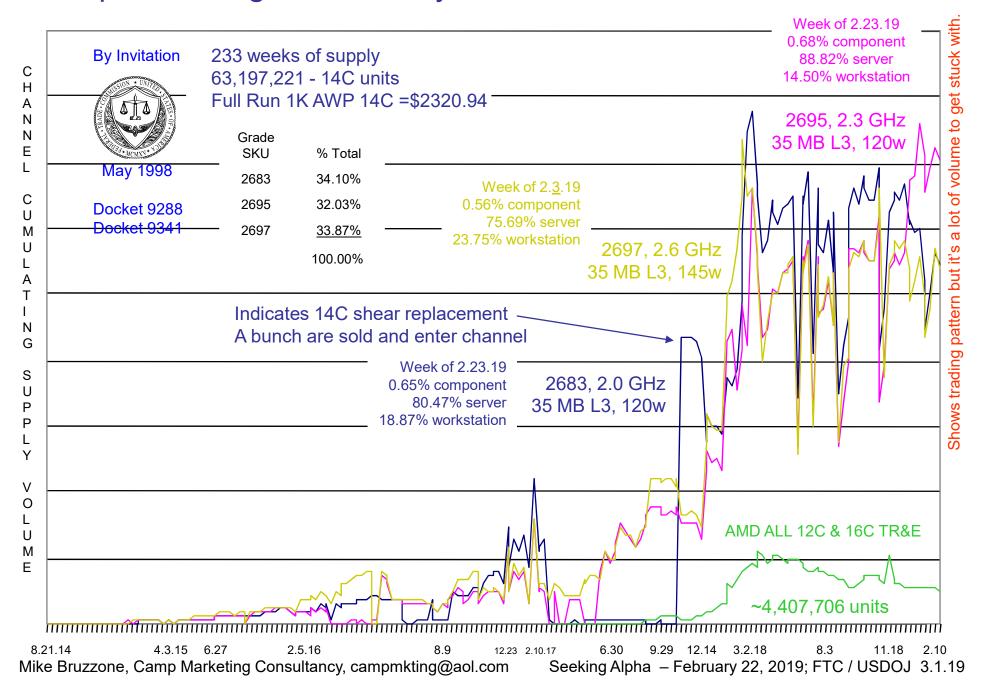
Camp Marketing Consultancy - Xeon E5 26xx v3 10C by Grade w/AMD All 8C/12C



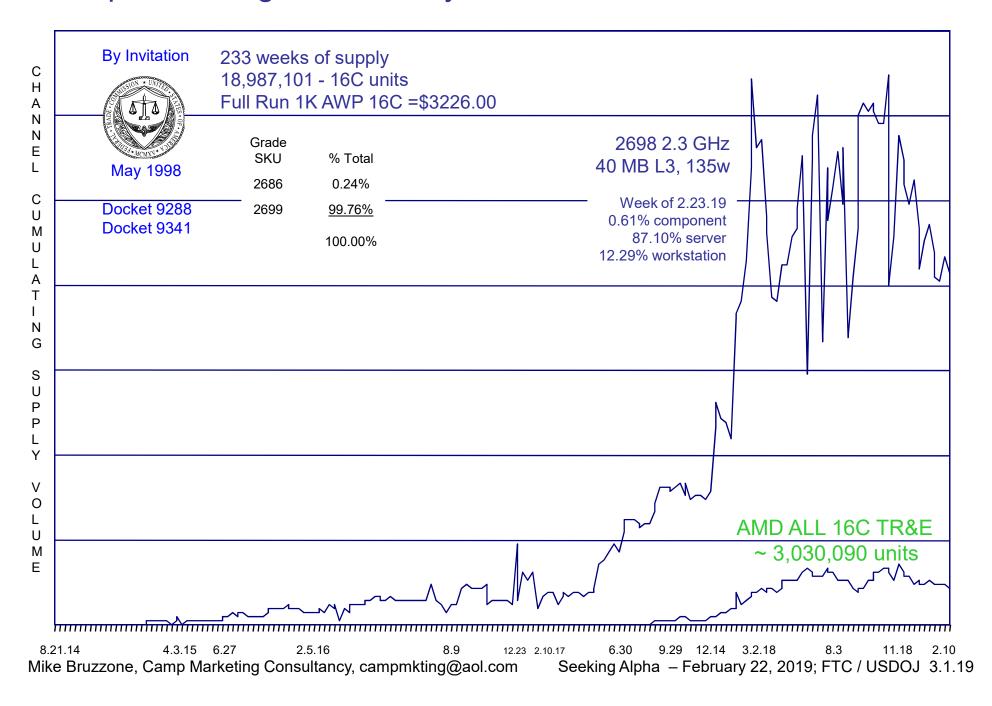
Camp Marketing Consultancy – Xeon E5 26xx v3 12C by Grade w/AMD TR 12C/24T



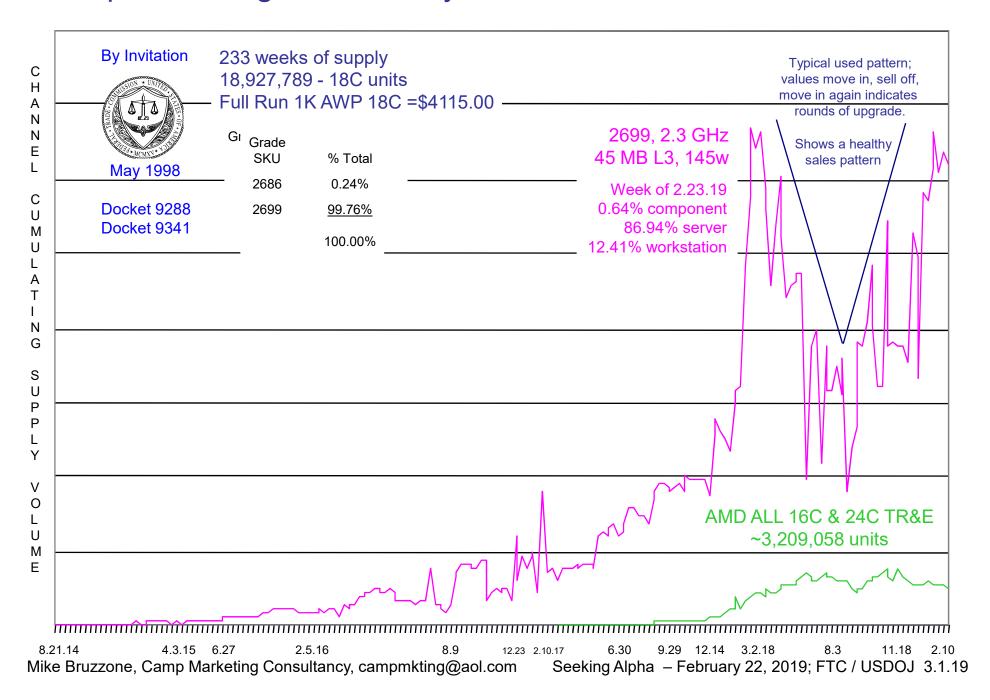
Camp Marketing Consultancy - Xeon E5 26xx v3 14C by Grade w/AMD All 12/16C



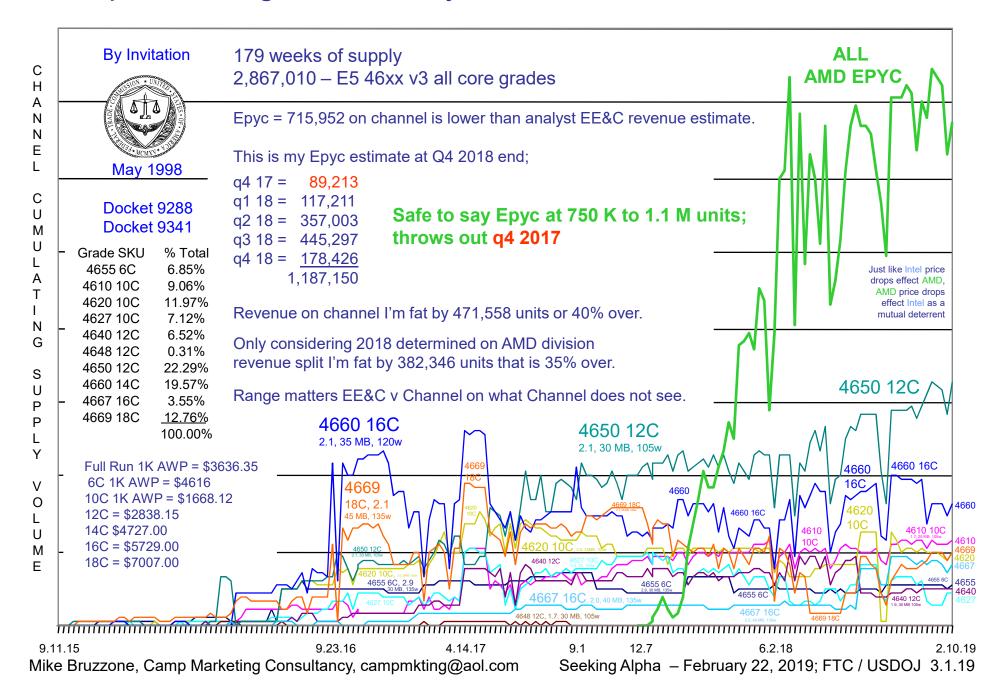
Camp Marketing Consultancy - Xeon E5 26xx v3 16C by Grade w/AMD ALL 16C



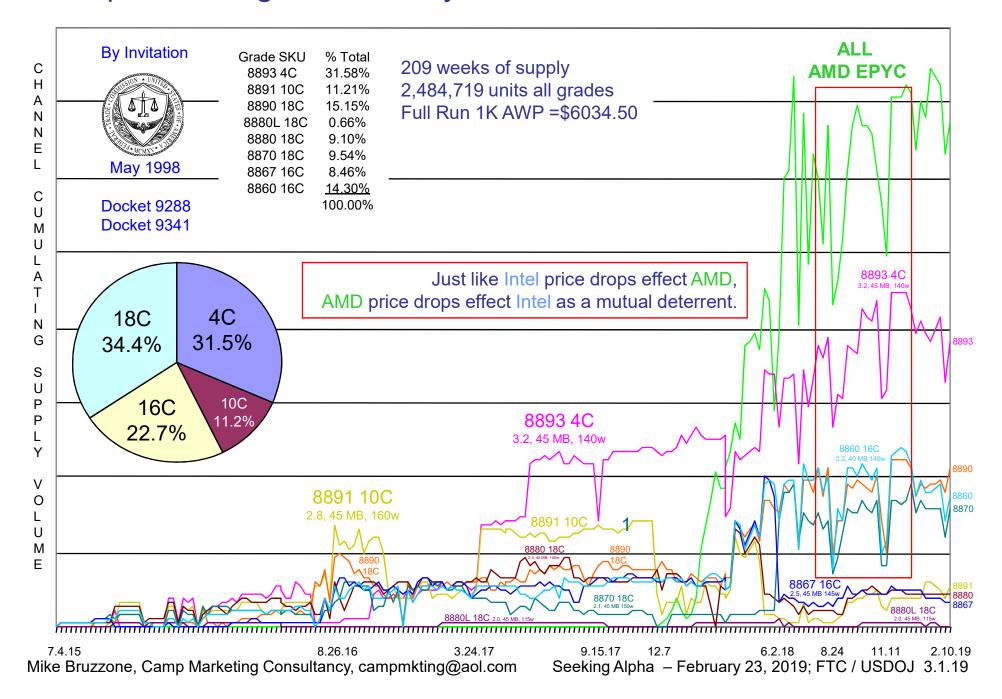
Camp Marketing Consultancy - Xeon E5 26xx v3 18C by Grade w/AMD 16C & 24C



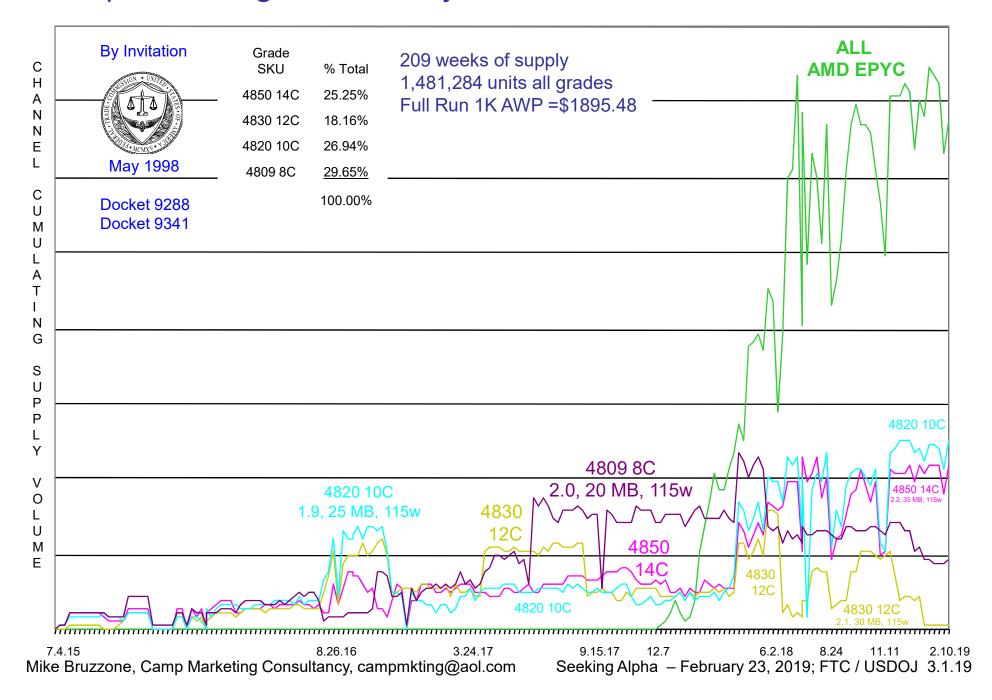
Camp Marketing Consultancy - Xeon E5 46xx v3 4-way Full Run w/AMD All Epyc SKUs



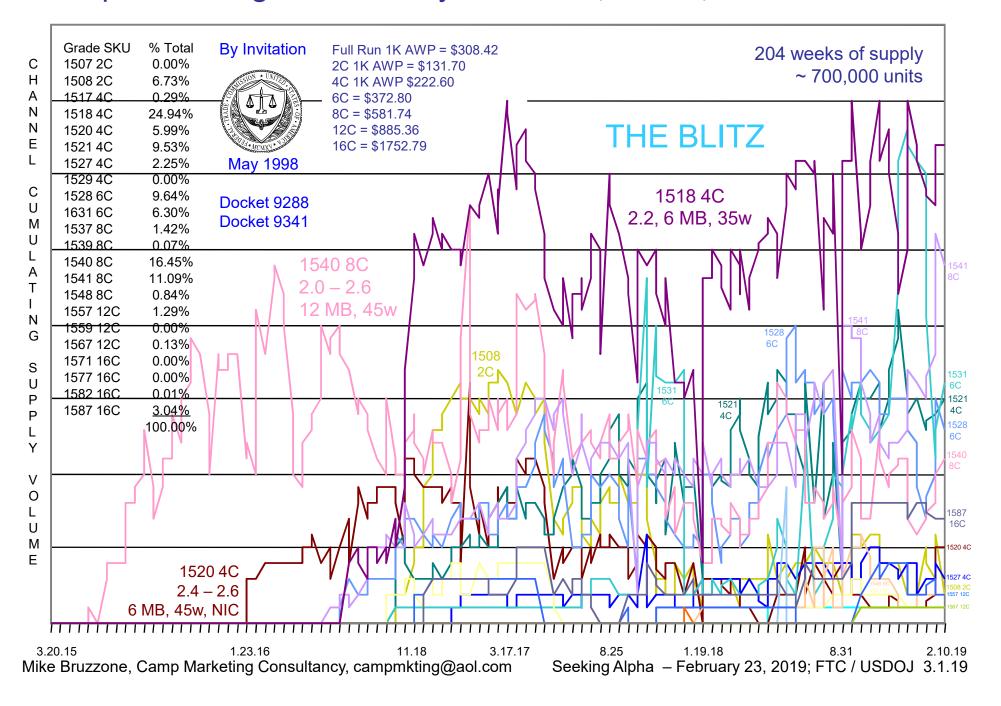
Camp Marketing Consultancy - Xeon E7 88xx v3 8-way Full Run w/AMD All Epyc SKUs



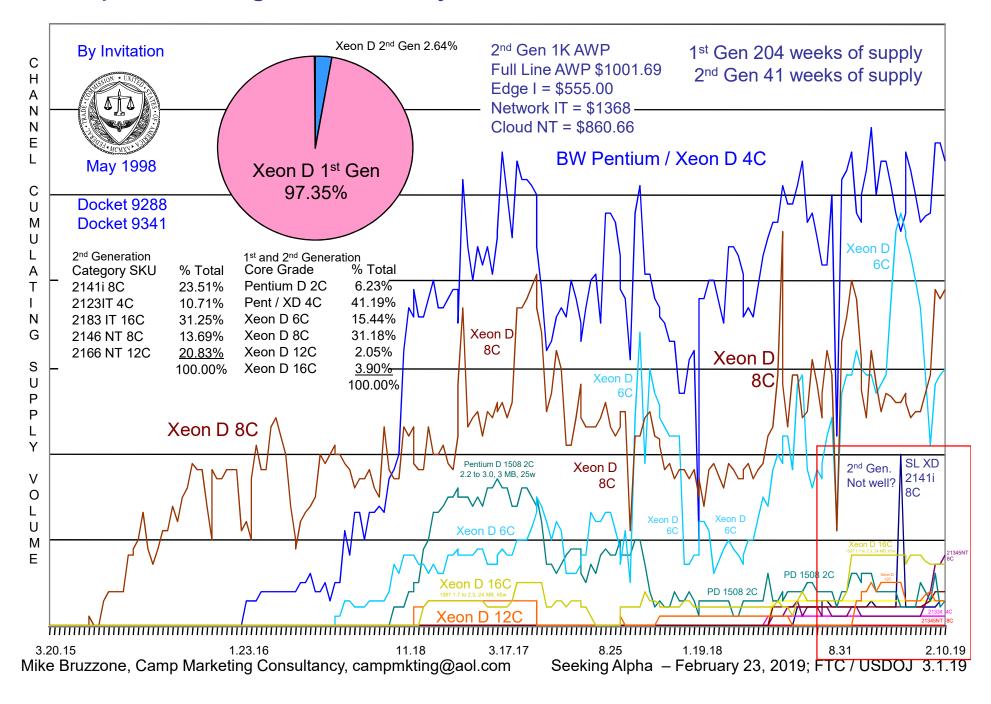
Camp Marketing Consultancy - Xeon E7 48xx v3 4-way Full Run w/AMD All Epyc SKUs



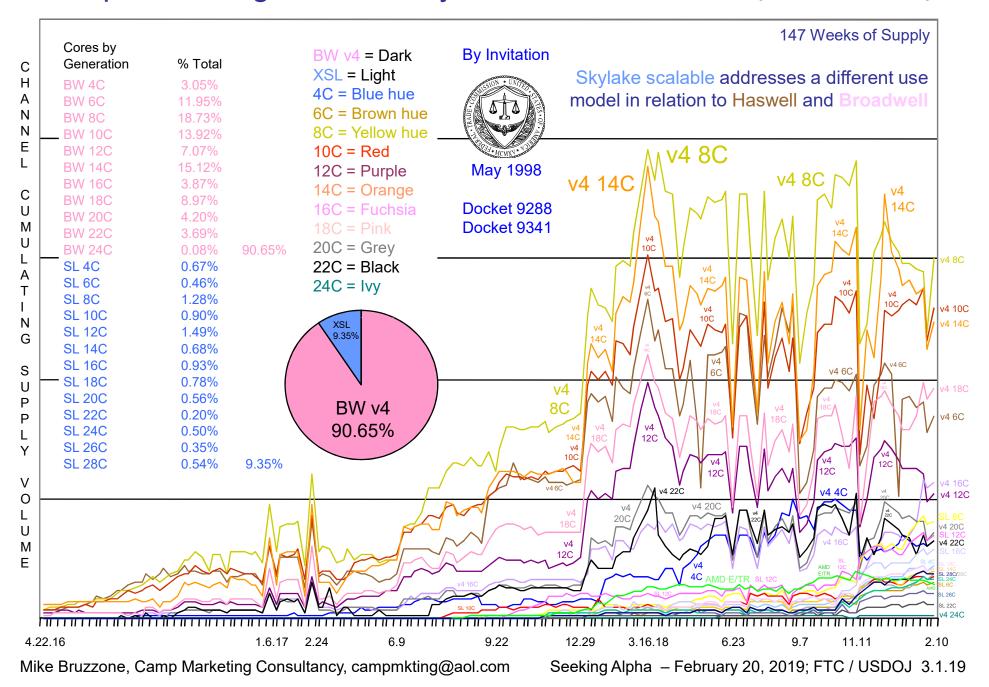
Camp Marketing Consultancy – Xeon D 1st (Broadwell) Generation



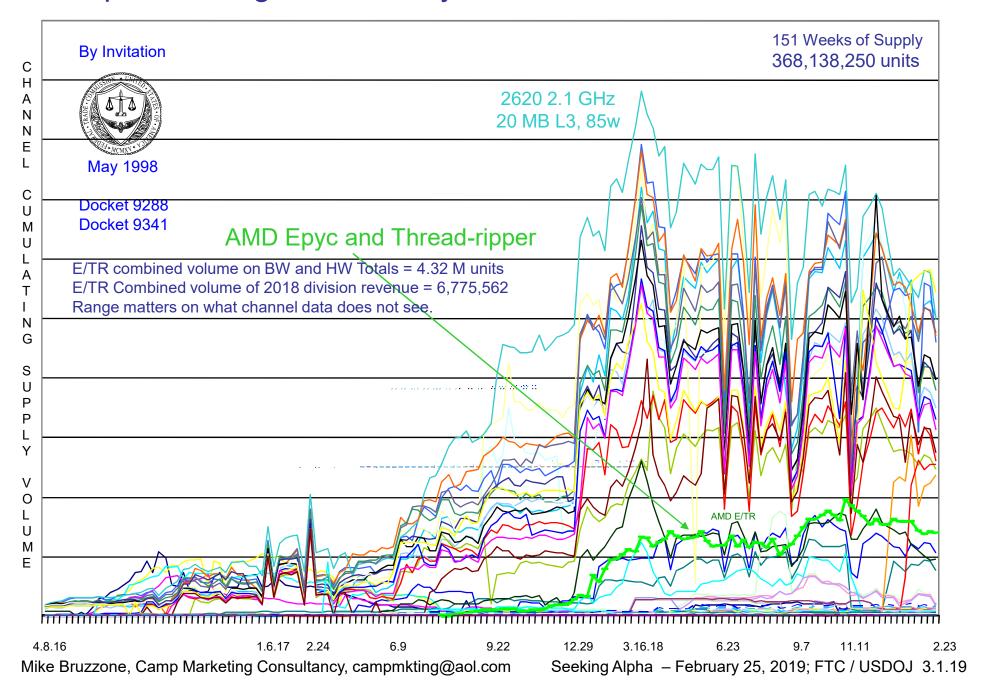
Camp Marketing Consultancy – Xeon D 1st Broadwell on 2nd Skylake Generation



Camp Marketing Consultancy - Xeon E7 / E5 v4 and XSL by Cores Inventory



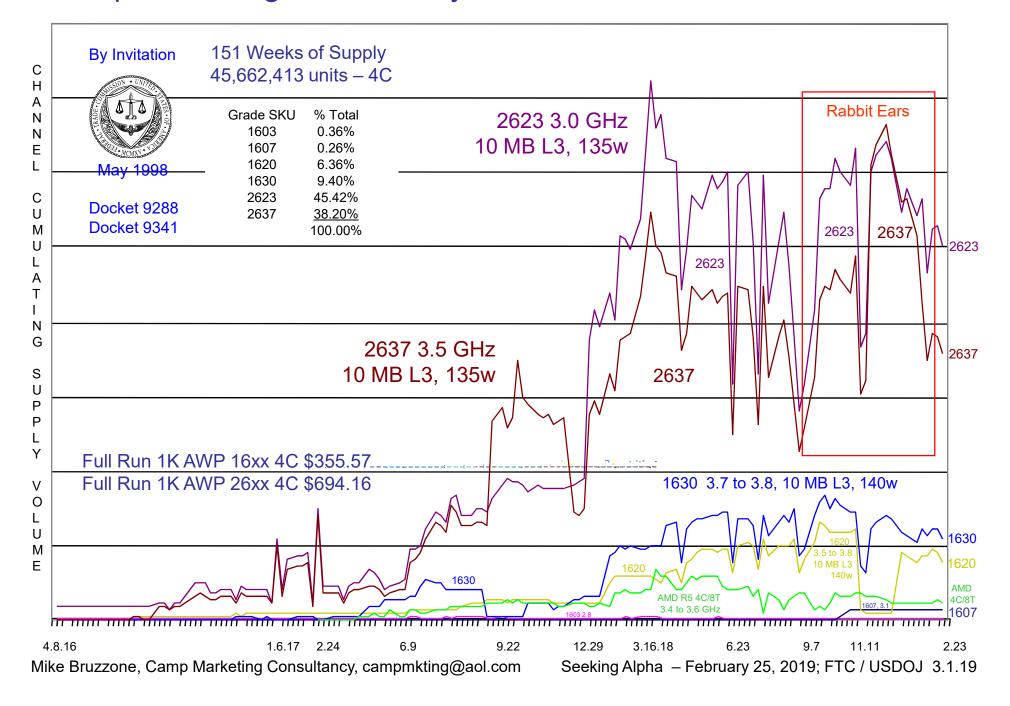
Camp Marketing Consultancy – Xeon E7 / E5 v4 by Grade SKUs Channel Inventory



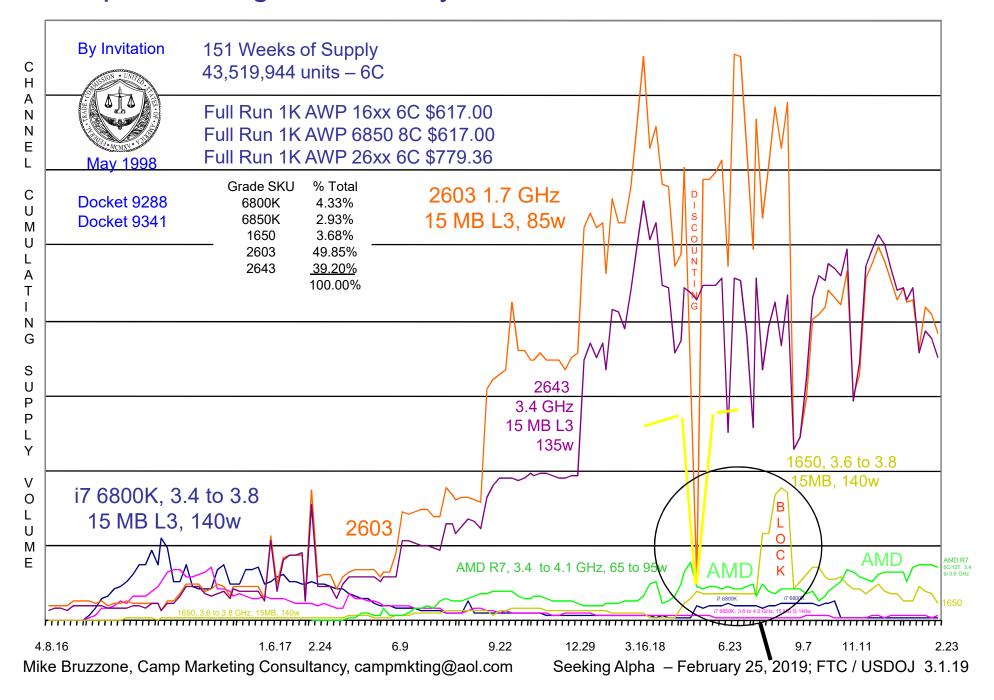
Camp Marketing Consultancy - Channel Xeon E7 / E5 v4 and EE by Grade SKU

CATEGORY GRADE SKU	SKU % Total	Full Run Volume 368,138,250	е	CATEGORY GRADE SKU	SKU % Total	Full Run Volum 368,138,250	е	By Invitation
1603 4C 2.8 1607 4C 3.1	0.05% 0.03%	166,064 119,708		2683 16C 2.1 GHz 2697A 16C 2.6 GHz	3.48% 0.22%	12,816,655 811,337	3.48% 1.85%	
1620 4C 3.5 to 3.8	0.80%	2,929,061		2695 18C 2.1 GHz	4.38%	16,112,149	18C	TO SOF
1630 4C 3.7 to 3.8	1.18%	4,329,270		2697 18C 2.3 GHz	4.45%	16,388,146	4.52%	
2623 4C 3.0 GHz	5.68%	20,908,282	4C	2698 20C 2.2 GHz	4.17%	15,333,278	4.17%	G3.J*MCMXV*
2637 4C 3.5 GHz	4.78%	17,585,196	5.23%	2696 22C 2.2 GHz	0.52%	1,925,206		May 1998
6800K 6C 3.4 to 3.8	0.52%	1,901,757		2699 22C 2.2 GHz	3.06%	11,274,318	22C	•
6850K 6 Core 3.6 to 4	4.00.35%	1,286,431		2699A 22C 2.4 GHz		5,145	1.79%	Docket 9288
1650 6C 3.6 to 3.8	0.44%	1,616,555		4655 8C 2.5 GHz	0.07%	243,369		Docket 9341
2603 6C 1.7 GHz	5.94%	21,871,386	6C	4610 10C 1.8 GHz	0.04%	145,918		DOCKEL 934 I
2643 6C 3.4 GHz	4.67%	17,201,378	5.96%	4620 10C 2.1 GHz	0.02%	81,312		
6900K 8C 3.2 to 4.0	0.59%	2,158,204		4627 10C 2.6 GHz	0.07%	258,884		
1660 8C 3.2 to 3.6	0.24%	883,118		4640 12C 2.1 GHz	0.13%	494,183		
1680 8C 3.4 to 3.8	0.23%	856,935		4628L 14C 2.6 GHz	0.00%	3,791		
2608L 8C 1.6 GHz	0.0016%			4650 14C 2.2 GHz	0.13%	465,238		
2609 8C 1.7 GHz	6.24%	22,956,986		4660 16C 2.2 GHz	0.19%	705,709	All Cores	
2620 8C 2.1 GHz	8.14%	29,976,659	8C	4667 18C 2.2 GHz	0.05%	185,451	E5 4-way	
2667 8C 3.2 GHz	3.00%	11,041,077	8.69%	4669 22C 2.2 GHz	0.06%	212,907	0.38%	
6950X 10C 3.0 to 4.0		2,016,726		8894 24C 3.4 GHz	0.0015%	5,632		
2618L 10C 2.2 GHz				8893 4C 3.2 GHz	0.1255%	461,880		
2630L 10C 1.8 GHz	0.33%	1,216,085		8891 10C 2.8 GHz	0.0638%	234,785		
2630 10C 2.2 GHz	6.55%	24,103,185		8890 v4 2.2 GHz	0.0795%	292,676		
2640 10C 2.4 GHz	6.10%	22,467,270	10C	8880 22C 2.2 GHz	0.0357%	131,351		
2689 10C 3.1 GHz	0.02%	59,894	6.50%	8870 20C 2.2 GHz	0.0147%	54,290		
2628L 12C 1.9 GHz	0.01%	32,438		8867 18C 2.4 GHz	0.0853%	314,013	All Cores	
2650 12C 2.2 GHz	5.51%	20,289,652	12C	8860 18C 2.2 GHz	0.0259%	95,501	E7 8-way	
2687W 3.1 GHz	1.36%	5,024,446	3.44%	8855 14C 2.1 GHz	0.0041%	15,244	0.22%	
2648L 12C 1.8 GHz	0.01%	31,084		4850 16C 2.1 GHz	0.03%	119,166		
2650L 12C 1.7 GHz	0.04%	155,124		4830 14C 2.0 GHz	0.03%	119,356	All Cores	
2658 12C 2.3 GHz	0.02%	69,453		4820 10C 2.0 GHz	0.16%	592,717	E7 4-way	
2660 12C 2.0 GHz	5.17%	19,016,787		4809 10C 2.1 GHz	0.11%	420,940	0.17%	
2680 12C 2.4 GHz	5.02%	18,493,658	14C		100.00%			
2690 12C 2.6 GHz	4.63%	17,035,802	7.44%					

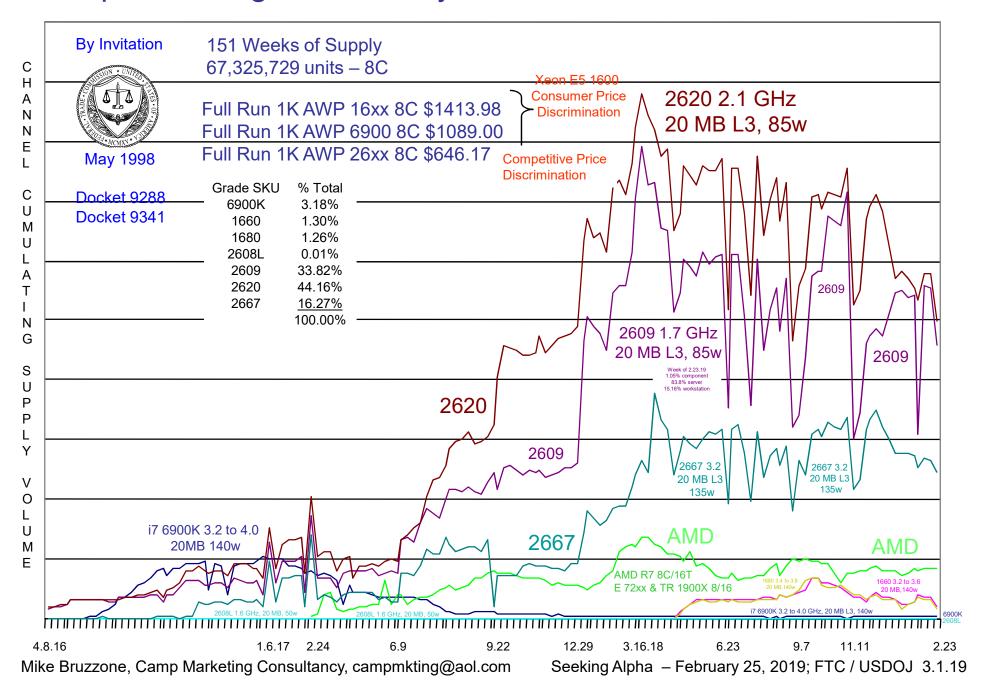
Camp Marketing Consultancy - Xeon E5 26/16xx v4 4C by Grade w/AMD R5 4C/8T



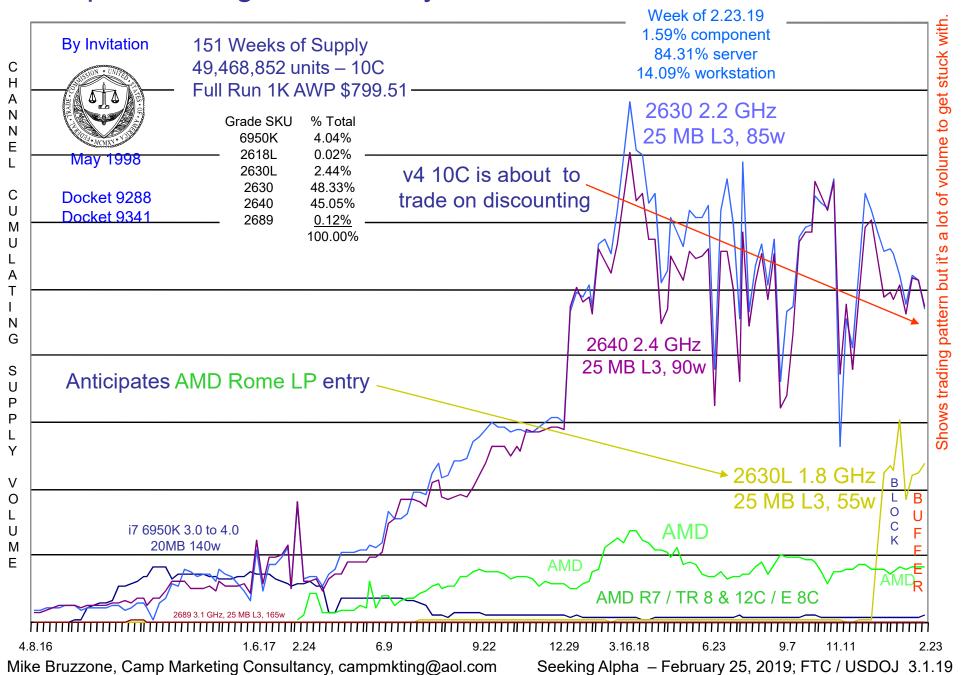
Camp Marketing Consultancy – Xeon E5 26/16xx v4 6C by Grade w/AMD R7 6C/12T



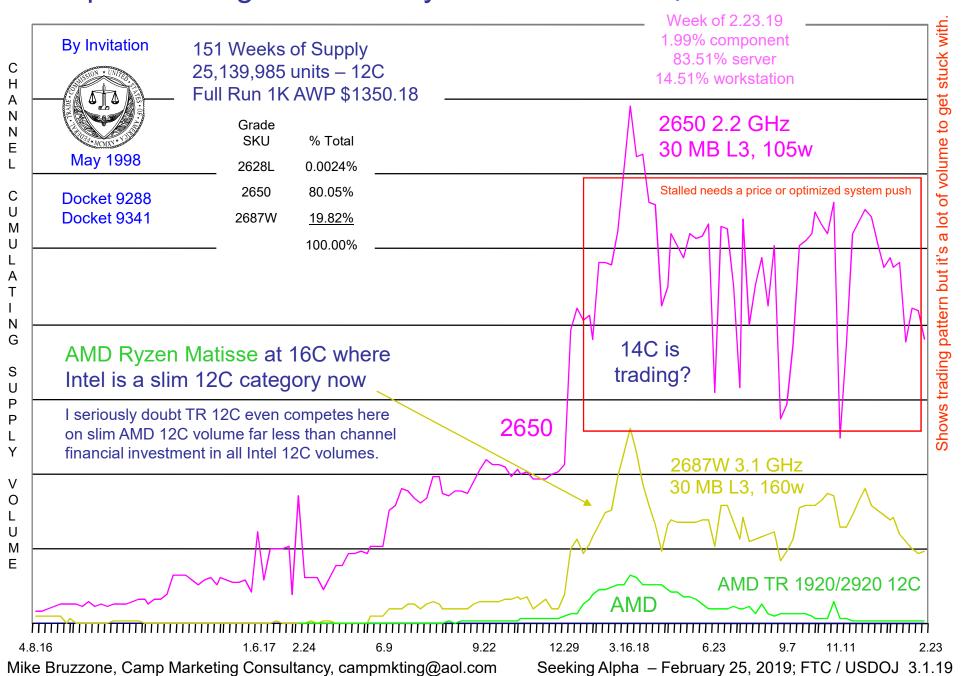
Camp Marketing Consultancy - Xeon E5 26/16xx v4 8C by Grade w/AMD All 8C/16T



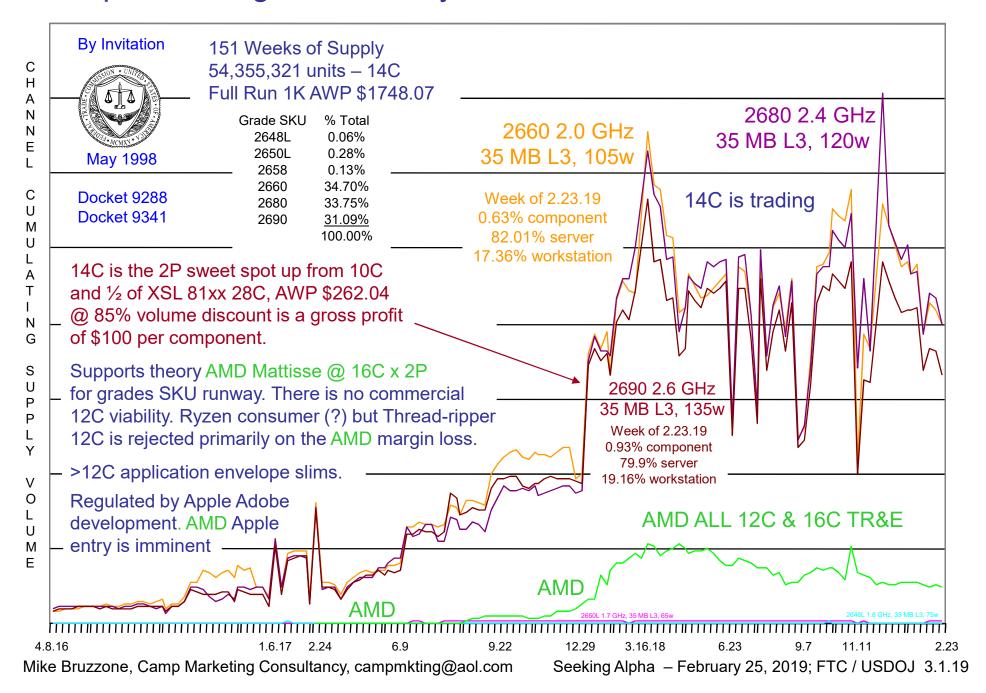
Camp Marketing Consultancy - Xeon E5 26xx v4 10C by Grade w/AMD All 8C/12C



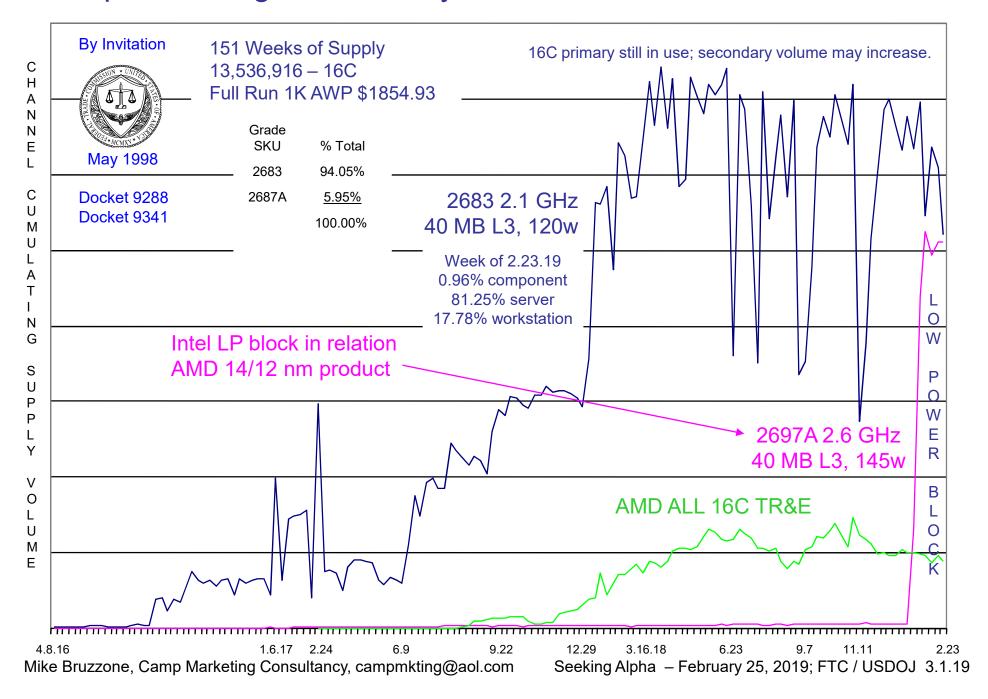
Camp Marketing Consultancy - Xeon E5 26xx v4 12C by Grade w/AMD TR 12C/24T



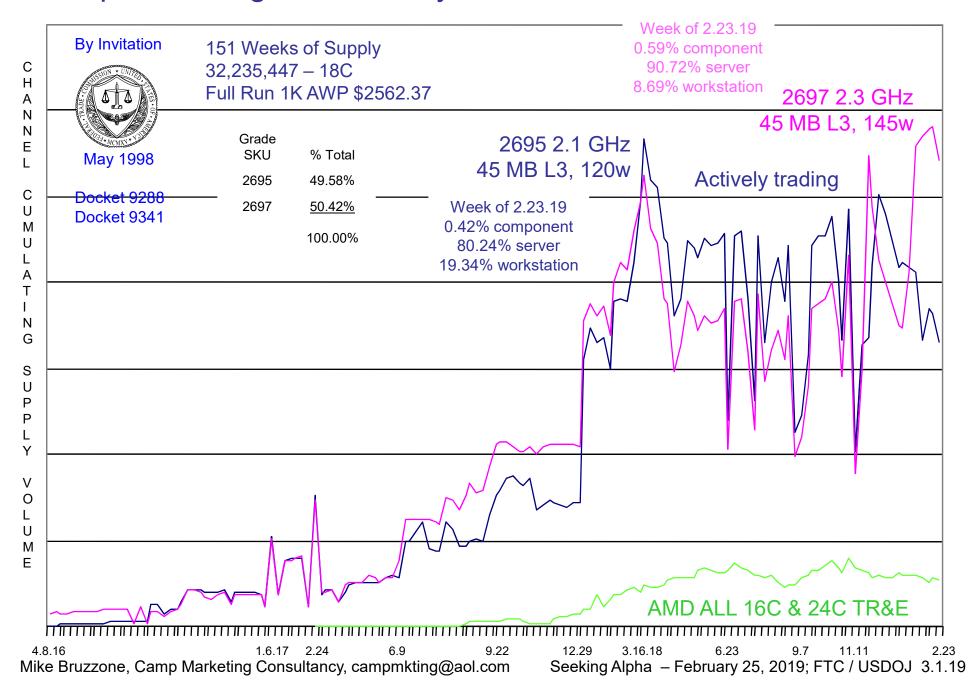
Camp Marketing Consultancy - Xeon E5 26xx v4 14C by Grade w/AMD All 12/16C



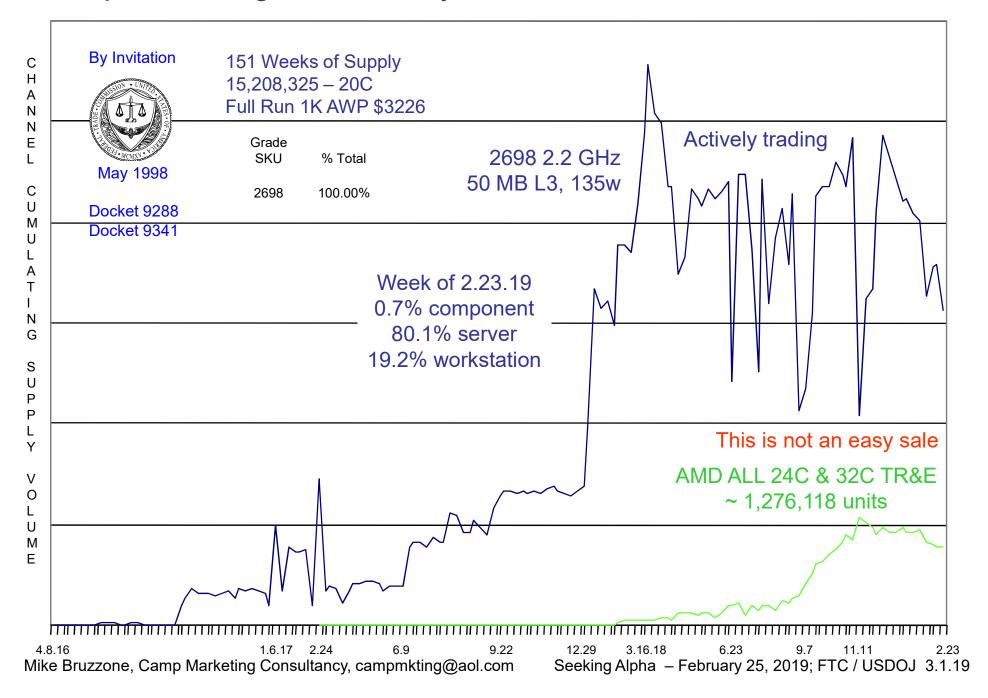
Camp Marketing Consultancy - Xeon E5 26xx v4 16C by Grade w/AMD ALL 16C



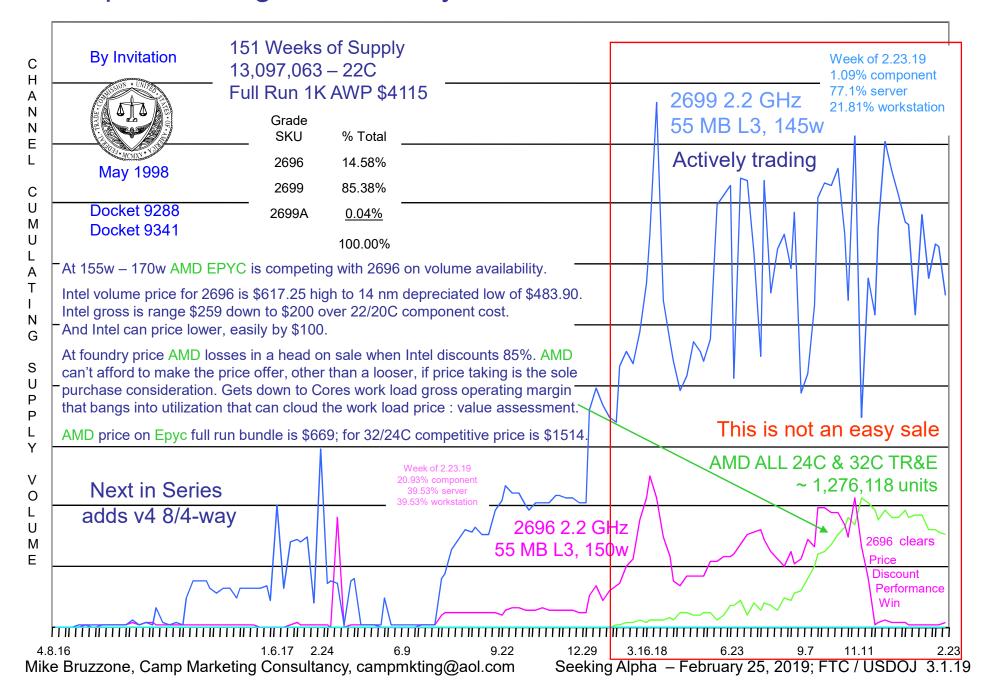
Camp Marketing Consultancy - Xeon E5 26xx v4 18C by Grade w/AMD 16C & 24C



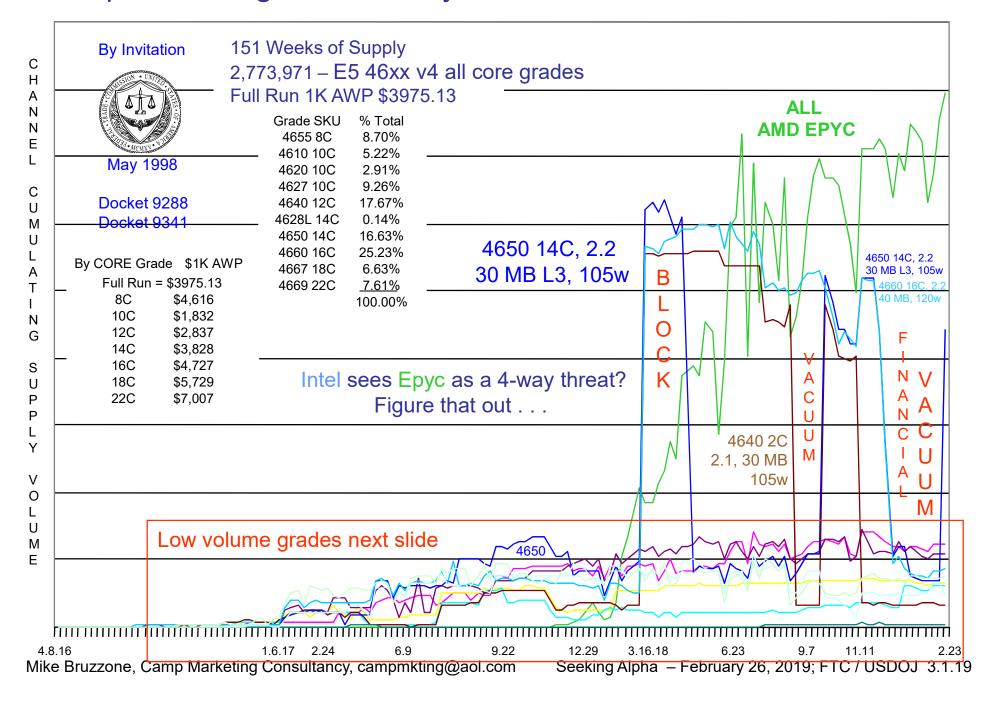
Camp Marketing Consultancy – Xeon E5 26xx v4 20 by Grade w/AMD 24C & 32C



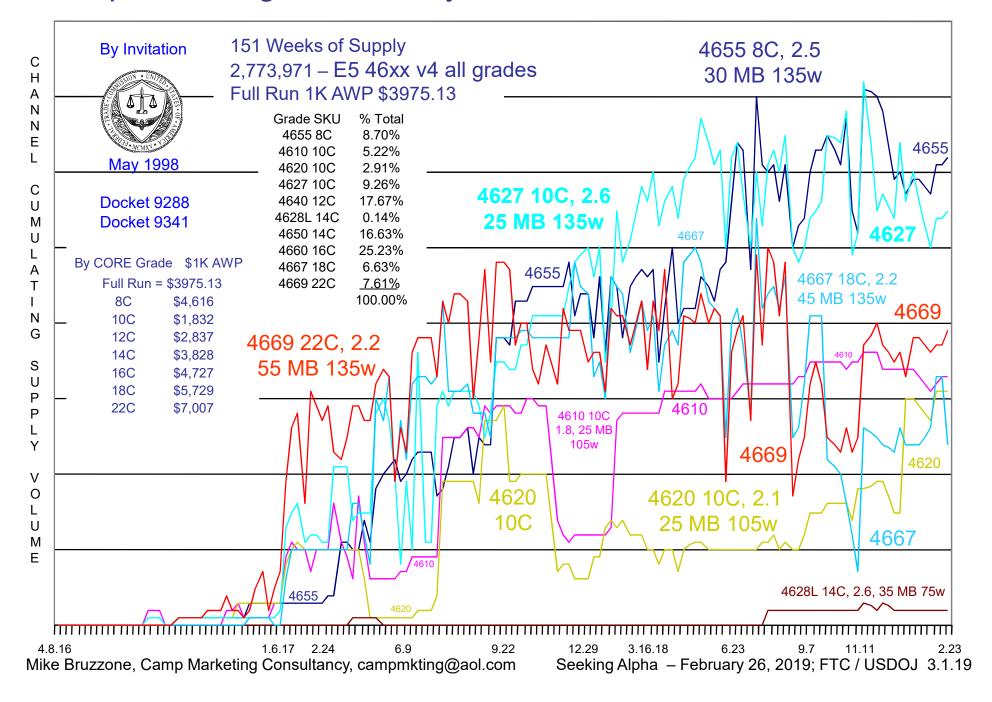
Camp Marketing Consultancy - Xeon E5 26xx v4 22 by Grade w/AMD 24C & 32C



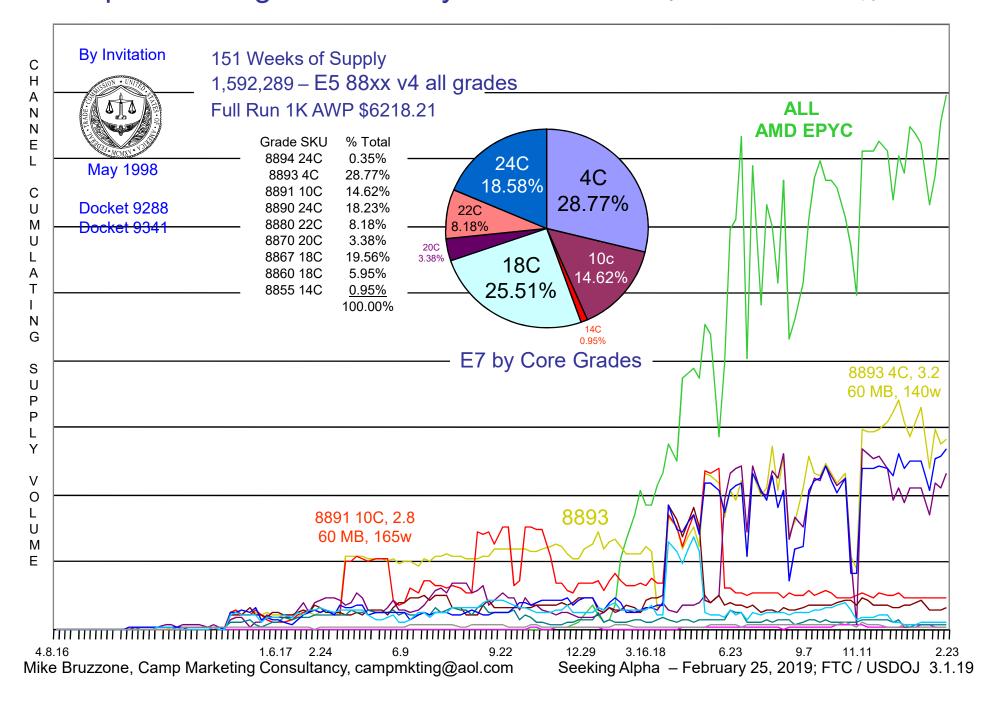
Camp Marketing Consultancy - Xeon E5 46xx v4 4-way Full Run w/AMD All Epyc SKUs



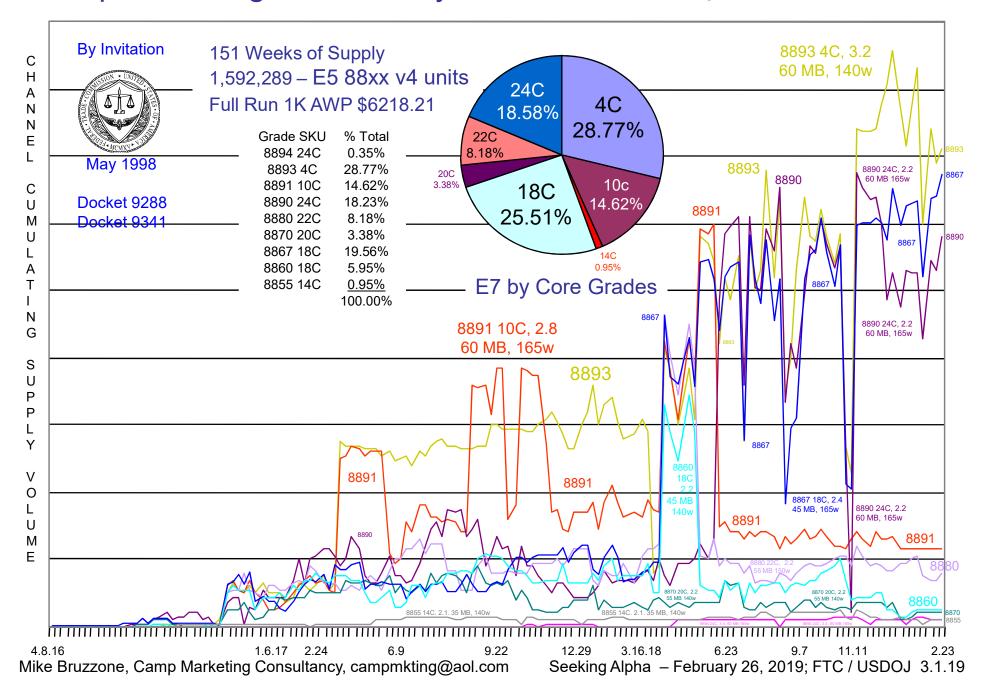
Camp Marketing Consultancy – Xeon E5 46xx v4 4-way low volume SKUS



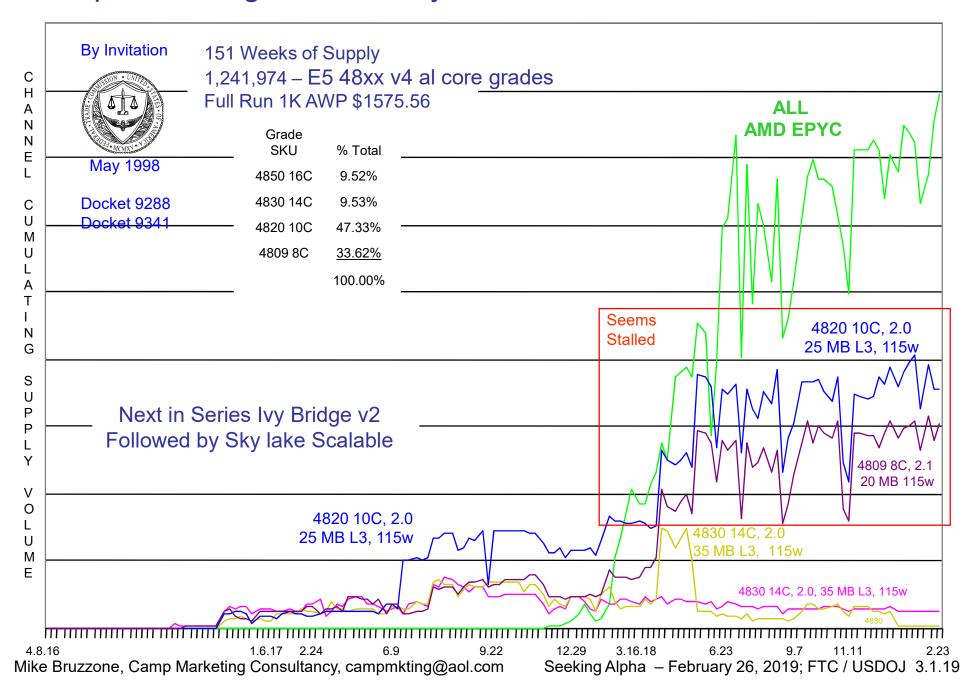
Camp Marketing Consultancy - Xeon E7 88xx v4 8-way Full Run w/AMD All Epyc SKUs



Camp Marketing Consultancy - Xeon E7 88xx v4 8-way Full Run Better Detail



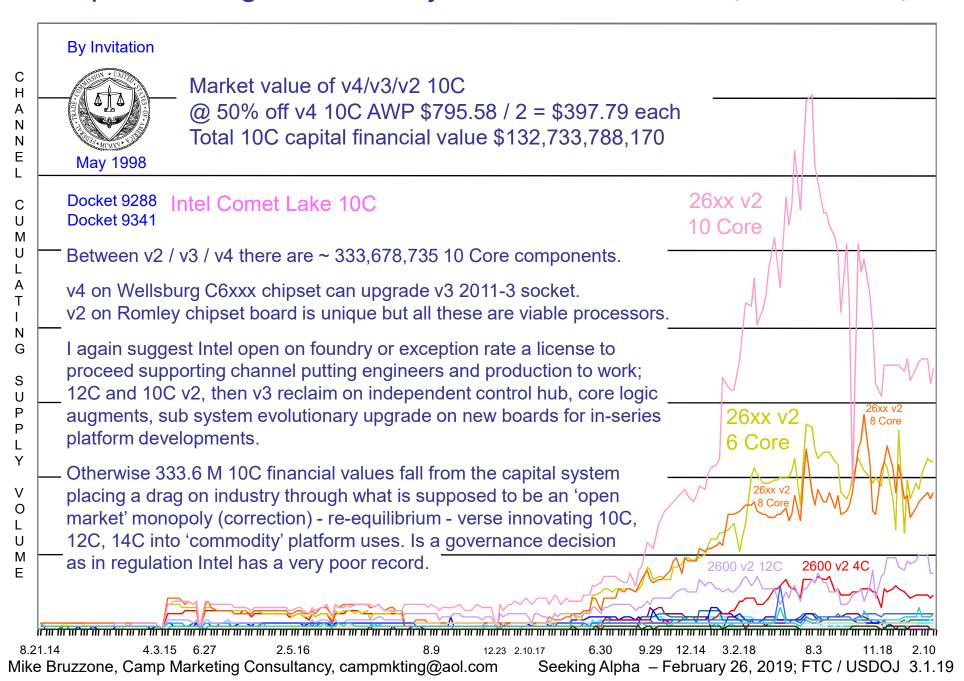
Camp Marketing Consultancy - Xeon E7 48xx v4 4-way Full Run w/AMD All Epyc SKUs



	١
/	
$\overline{}$	
off	
9	
@ 85%	
9	
Price	
(I)	
\square	
=	
=	
3	
9	
;=`	
_	
Y	
SKU High	
(D)	
Ö	
ற	
þ	
	i
7	į
	į
2	Į
9	1
N	ļ
E5 26	

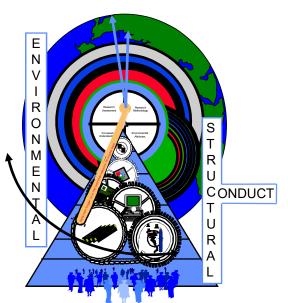
Camp Mar	rketir	ng Cons	sultancy	Upo	date FTC / USDOJ	3.1.19			2017	•
@ 85% off 1K Notation Below Cost KEY Below Cost	VARIABLE COST = \$38.34	Below Cost Below Cost Below Cost Proff > Cost	Below Cost Below Cost Below Cost Below Cost COMPETITIVE PROFIT	Profit > Cost Profit > Cost COMPETITIVE PROFIT	Profit > Cost	Profi > Cost COMPETITIVE PROFIT	COMPETITIVE PROFIT	COMPETITIVE PROFIT	ECONCARC PROFIT PORTS FORTS FTC March 13, 2	
TRATC CALC AMC \$160 (\$93.40)	(\$128.05) \$72.80	(\$114.10) (\$17.43.10) (\$97.45) \$148.55	(\$43.15) (\$68.20) (\$69.95) (\$19.15)	\$44.60 \$14.90 \$161.15	\$71.60 \$39.35 \$114.80 \$56.75 \$101.75	\$116.90 \$273.65	\$203.60 \$245.30	\$323.90	\$457.25 \$457.25 \$525.35 \$580.70	
Nolum 85% OEW Discount 0.15 \$166.60 \$149.40	\$21.86 \$232.80	\$54.45 \$45.90 \$62.55 \$308.55	\$116.85 \$91.80 \$100.05 \$140.85	\$204.60 \$174.90 \$221.15	\$221.80 \$199.35 \$274.80 \$216.75 \$381.75	\$276.90 \$483.65	\$363.60 \$405.30	\$483.90	\$617.25 \$617.25 \$685.35 \$740.70	
SKU High	\$273 \$1,552	\$306 \$306 \$417 \$2057	\$779 \$612 \$667 \$939	\$1,364 \$1,166 \$2,141	\$1,544 \$1,329 \$1,832 \$1,445 \$1,745	\$1,846 \$2,831	\$2,424 \$2,702	\$3,226	\$4,115 \$4,115 \$4,569 \$4,938 onsultancy	
E5 26xx v4 by Grade SKU High Volume Price @ EROADWHEL XECN E5 2500 DP 44% of Run; 159,790,235 Urits < AMC \$160	SIX CORE E5 2633 1.7 CHz, 15 MB L3, 85w E5 2643 3.4 GHz, 15 MB L3, 135w	EGHT CORE E5 2608L 1.6 GHZ, 20 MB L3, 50w E5 2609 1.7 GHZ, 20 MB L3, 85w E5 2620 2.1 GHZ, 20 MB L3, 85w E5 2630 2.1 GHZ, 20 MB L3, 135w	TIEN CONE E5 2618L 2.2 CHZ, 25 MIB L3, 75W E5 2630L 1.8 CHZ, 25 MIB L3, 55W E5 2630 2.2 CHZ, 25 MIB L3, 85W E5 2640 2.4 CHZ, 25 MIB L3, 90W E5 2640 3.1 CHZ, 25 MIB L3, 165W	TWIELVE CONE E5 2628L 1.9 GHz, 30 MB L3, 75W E5 2630 2.2 GHz, 30 MB L3, 105W E5 2687W 3.1 GHz, 30 MB L3, 160W	FOURTHEN CORE E5 2648L 1.8 GHZ, 35 MB L3, 75w E5 2650L 1.7 GHZ, 35 MB L3, 65w E5 2650 2.3 GHZ, 35 MB L3, 105w E5 2660 2.0 GHZ, 35 MB L3, 105w E5 2680 2.4 GHZ, 35 MB L3, 120w E5 2690 2.6 GHZ, 35 MB L3, 135w	SIXTIBEN CONTE E5 2683 2.1 GHz, 40 MB L3, 120W E5 2697A 2.6 GHz, 40 MB L3, 145W	EICHTTEEN CORE E5 2695 2.1 GHz, 45 MB L3, 120w E5 2697 2.3 GHz, 45 MB L3, 145w	TWENTY CORE E5 2698 2.2 CHz, 50 MB L3, 135w	TW/HEALTHY TW/CO (244) COINTE E5 2696 2.2 GHz, 55 MB L3, 145W 54,115 E5 2699 2.2 GHz, 55 MB L3, 145W 54,115 E5 2699R 2.2 GHz, 55 MB L3, 145W 54,569 E5 2699A 2.4 GHz 55 MB L3, 145W, NIC NO 54,938 Wilke Bruzzone, Camp Marketing Consultancy	

Camp Marketing Consultancy – Xeon E7 / E5 v2 and EE by Cores Inventory



Camp Marketing Consultancy - Channel Xeon E7 / E5 v2 and EE by Grade SKU

0.26% 1,300,645 0.78% 3,850,522 1.32% 6,543,300 1.77% 8,770,351 2.05% 10,144,429 1.34% 6,658,888 0.24% 1,212,908 0.31% 1,529,122 0.98% 4,843,912		24481	%00.0	8.798	
• •		24501	0.01%	34,544	
•		2670	9.23%	45,749,986	
•		2680	5.13%	25,445,611	
·	4C	2690	9.65%	47,805,665	i,
	8.80%	2646L	0.01%	51,142	100
		2692	8 50.0	454,095	e 1.T.76
		2685	4.71%	23,350,530	
		2696	0.02%	105,009	12C
~		2697	2.44%	12,074,237	7.18%
		4603	0.78%	3,885,228	
		4607	0.8/%	4,289,855	
1.15% 5,674,701		4610	0.73%	3,602,343	
0.00% 6,234		4620	0.88%	4,370,575	
0.07% 357,371		4627	0.62%	3,076,677	
5.90% 29,223,293		4624L	0.00%	16,058	
10.58% 52,439,721		4640	1.27%	6,282,653	All Cores
0.93% 4,599,835	ဥ	4650	0.48%	2,392,836	E5 4-way
0.00% 15,977	21.48%	4657L	0.02%	108,221	5.65%
0.03% 136,747		8890	0.02%	111,702	
0.75% 3,724,652		8880	0.02%	94,322	
0.41% 2,042,482		8870	0.01%	42,290	
0.00% 18,055		BBBOL	0.01%	37,648	
17		8850	0.01%	922'09	
		8857	0.06%	176,678	
		8891	0.16%	776,949	All Cores
•	Ü	8893	0.10%	500,028	E 7 8 way
	17 E CR	8895	0.01%	32,169	0.39%
TOD'CC %TO'O	%DC:/T	4890	0.17%	851,327	
		4880	0.17%	832,111	
4		4870	0.06%	303,126	
j		4860	0.10%	509,582	
· V I R O N M E N	E N	4850	0.10%	483,646	
		4830	0.20%	968,102	All Cores
	>	4820	0.12%	592,973	E74-way
	2	4809	%68.0	4,386,957	1.80%



By Invitation

May 1998

Docket 9288 Docket 9341

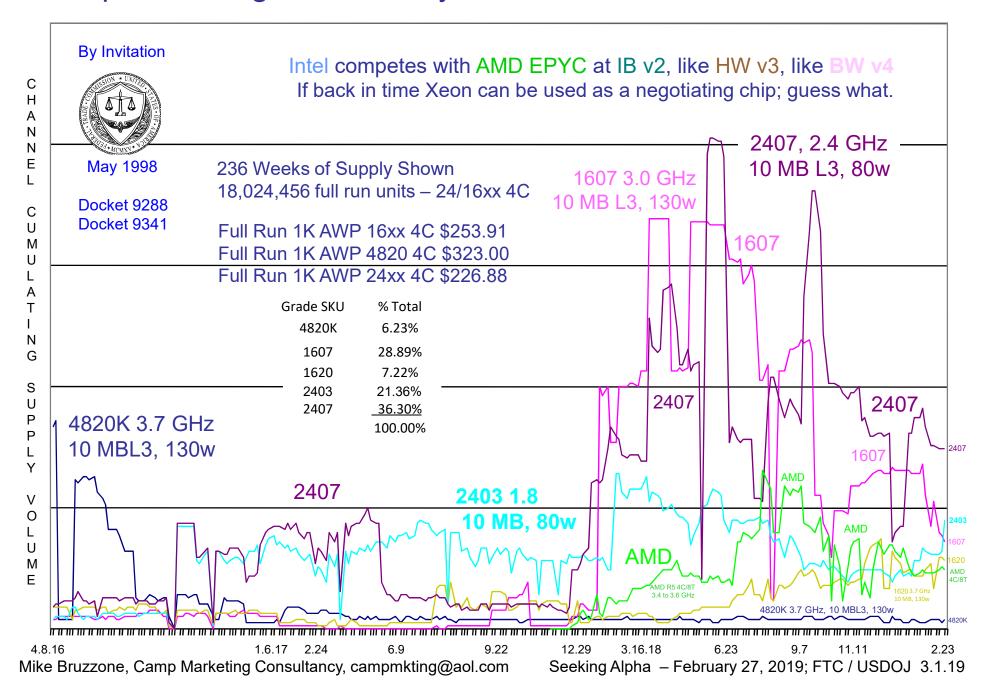
Camp Marketing Consultancy – Xeon E7 / E5 v2 and EE by Cores Inventory

Between v2 / v3 / v4 there are ~ 333,678,735 2P 10 Core components Industry investment on channel capital value \$132,733,788,170

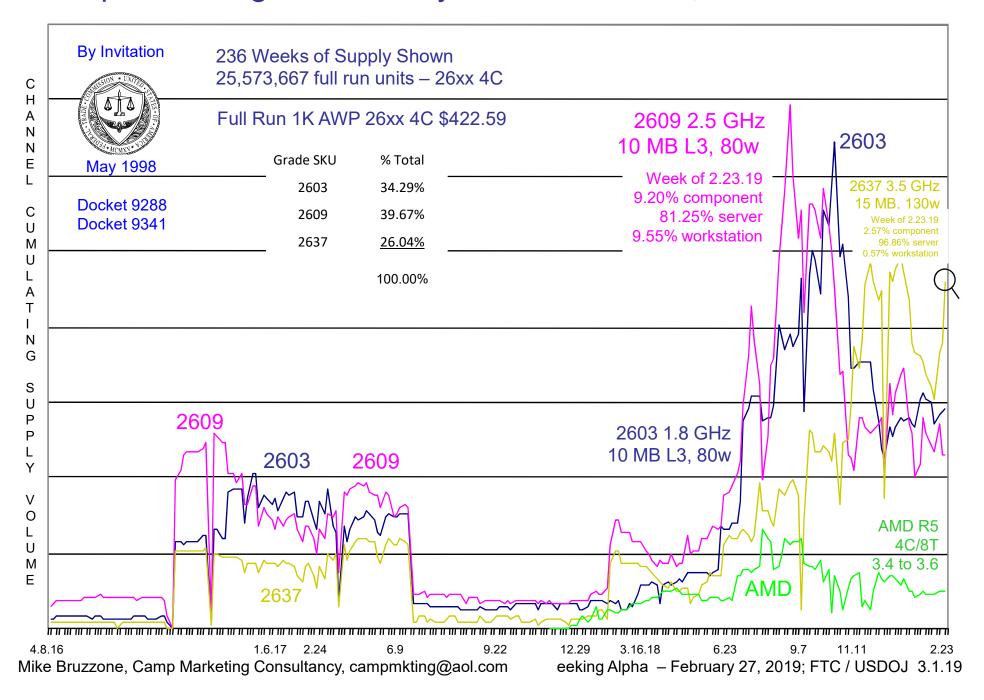


Market is flooded with 6/8/10C think up bin Want to do a fast 10C chip . . . open Xeon v2/v3 CPU bus to independent core logic

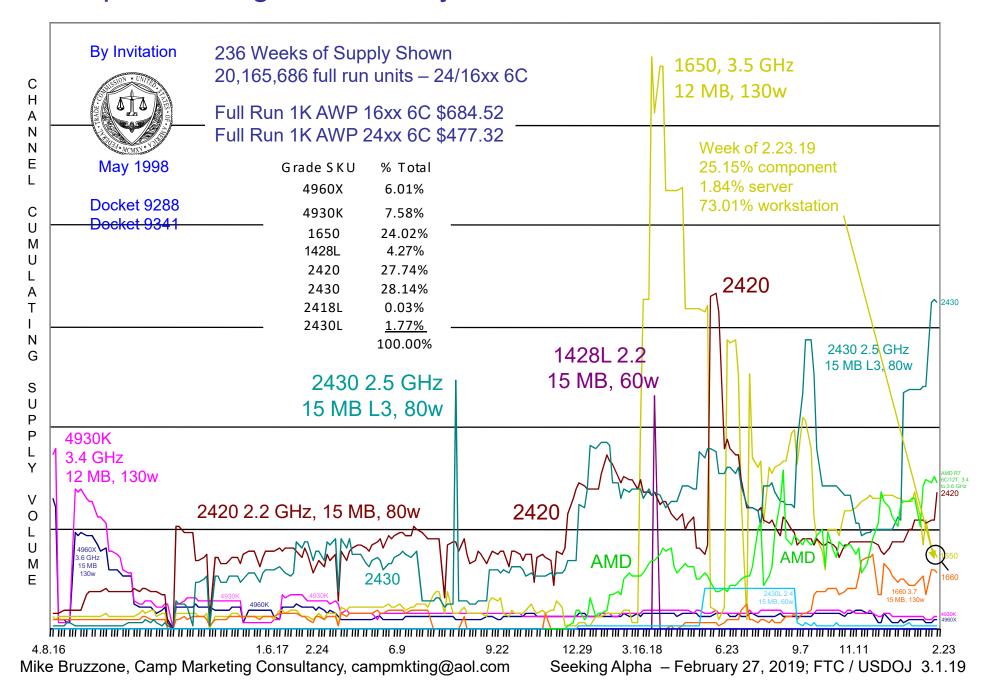
Camp Marketing Consultancy – Xeon E5 24/16xx v2 4C & EE by Grade w/AMD 4C/8T



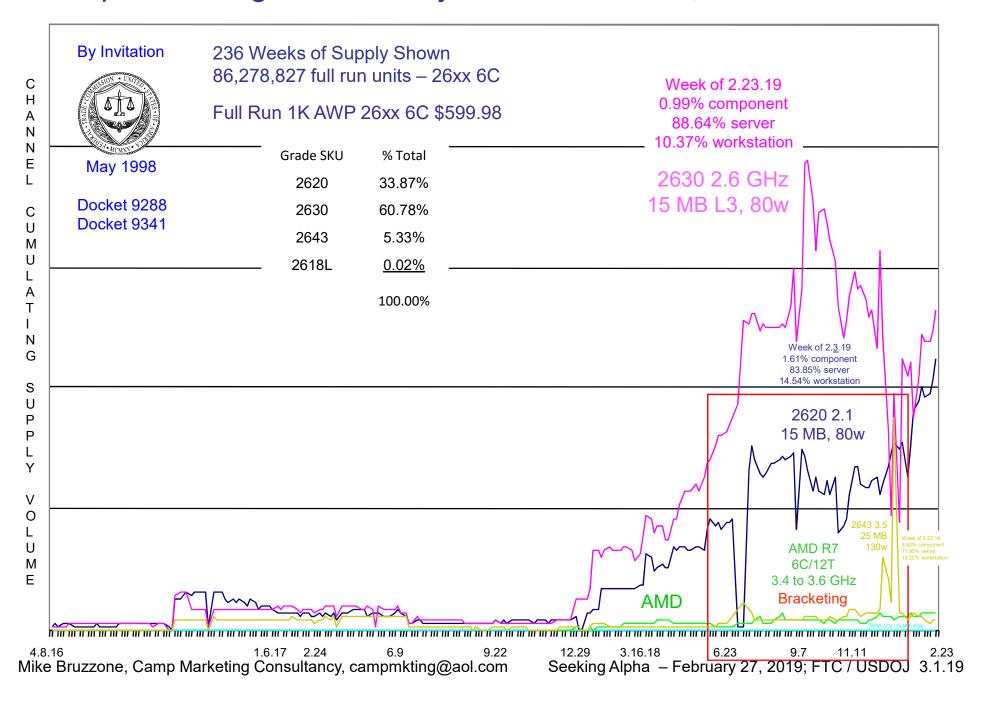
Camp Marketing Consultancy – Xeon E5 26xx v2 4C by Grade w/AMD R5 4C/8T



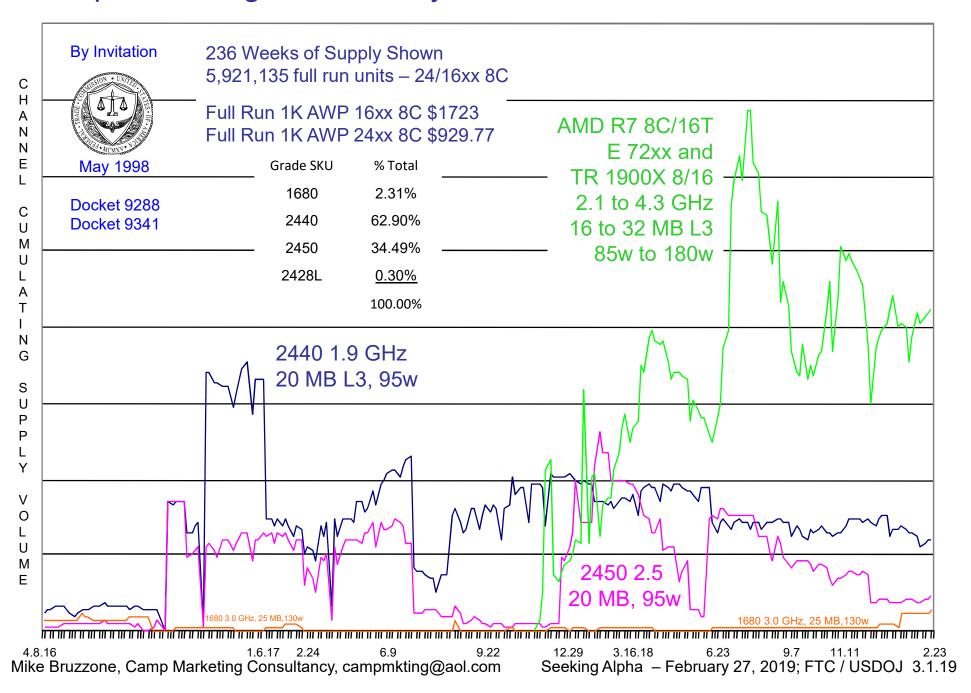
Camp Marketing Consultancy - Xeon E5 24/16xx v2 & EE 6C by Grade w/AMD 6C/12T



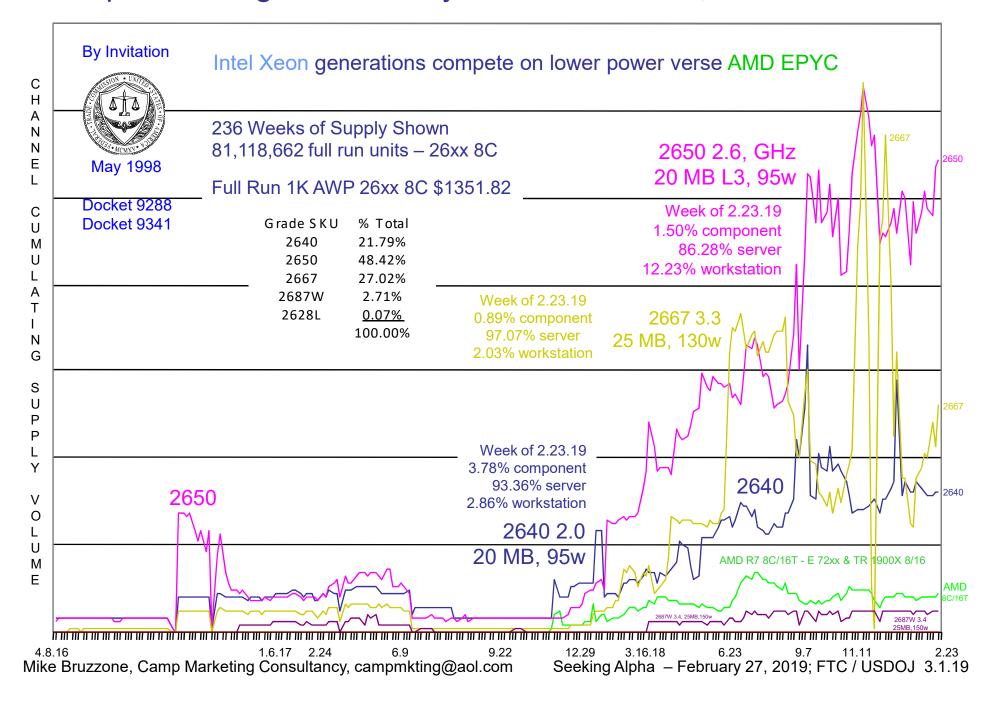
Camp Marketing Consultancy – Xeon E5 26xx v2 6C by Grade w/AMD R7 6C/12T



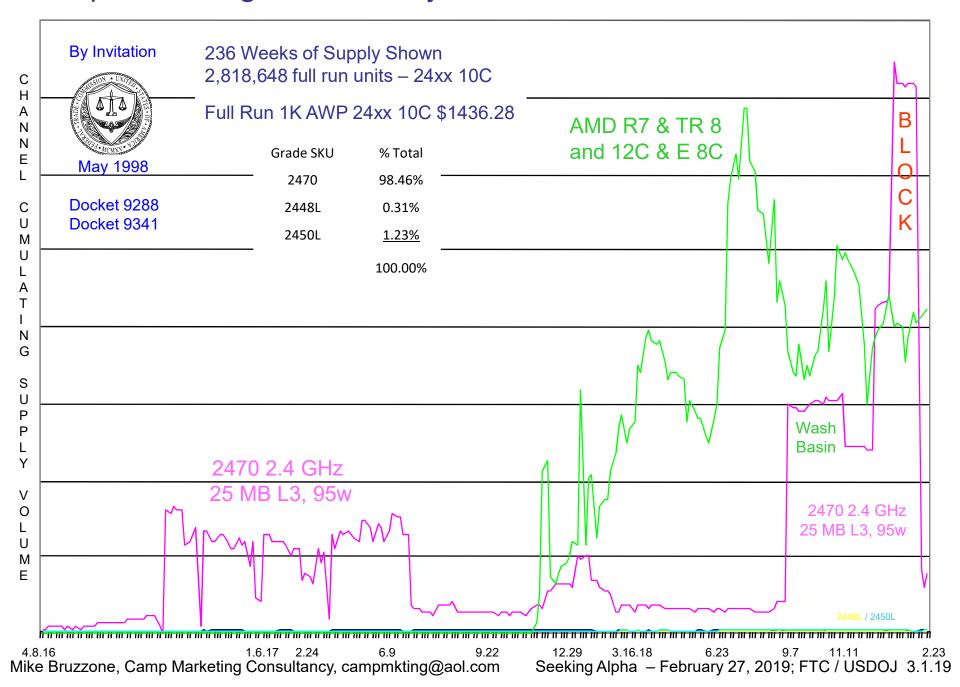
Camp Marketing Consultancy – Xeon E5 24/16xx v2 & EE 8C Grade w/AMD 8C/16T



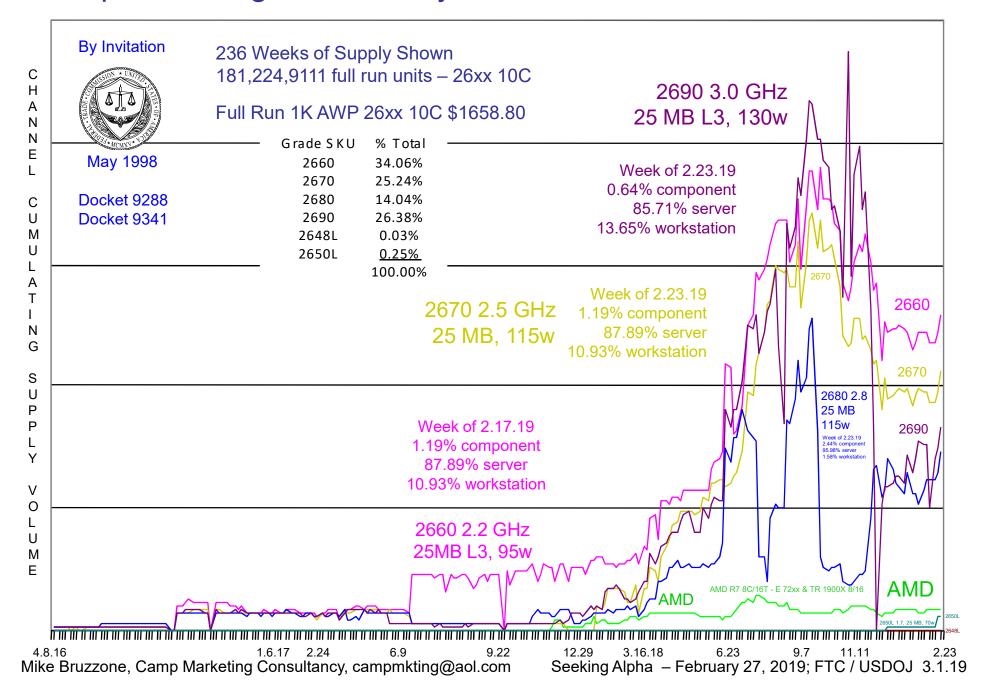
Camp Marketing Consultancy - Xeon E5 26/xx v2 8C by Grade w/AMD 8C/16T



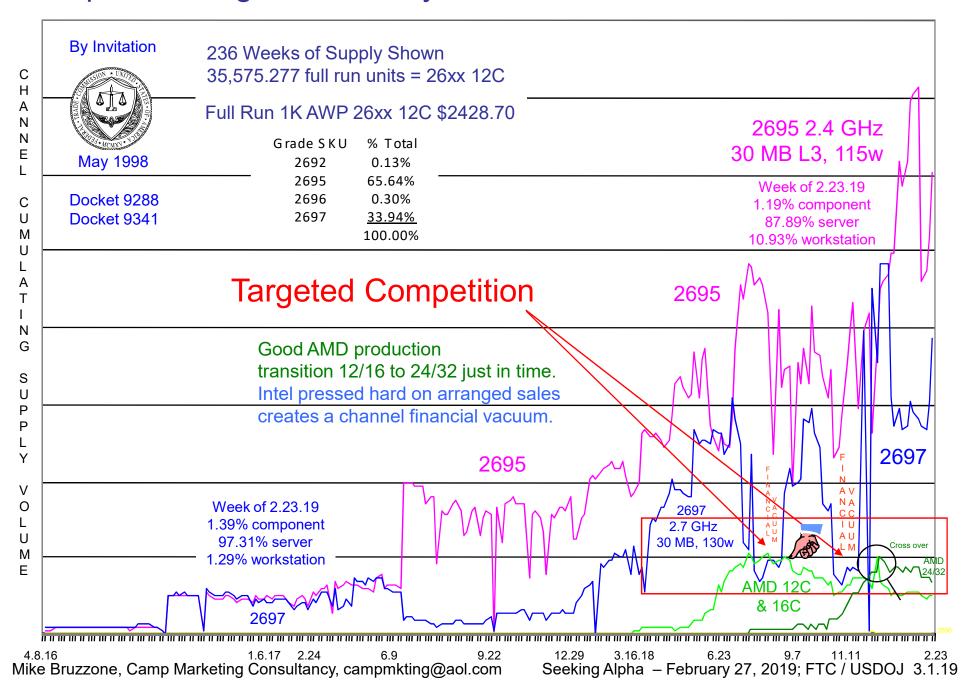
Camp Marketing Consultancy - Xeon E5 24xx v2 10C by Grade w/AMD All 8C/12C



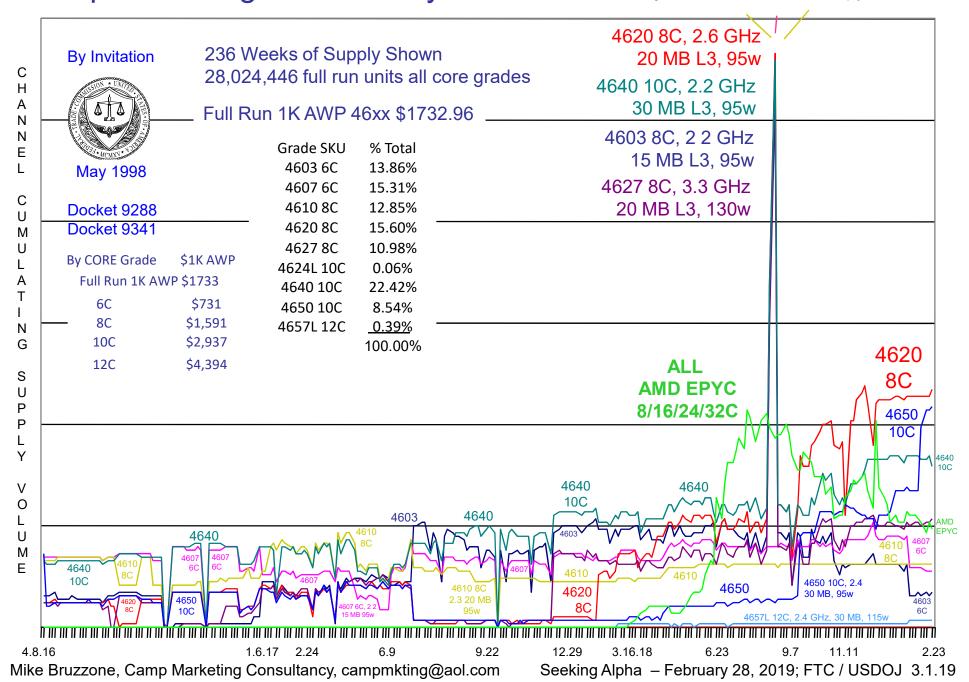
Camp Marketing Consultancy - Xeon E5 26xx v2 10C by Grade w/AMD All 8C/12C



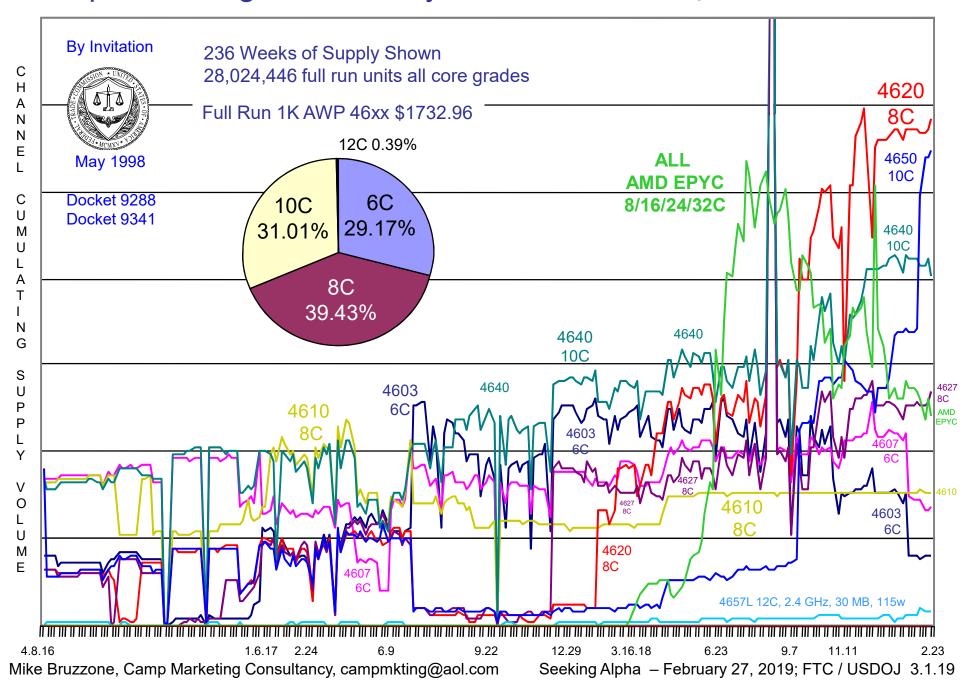
Camp Marketing Consultancy – Xeon E5 26xx v2 12C Grade w/AMD 12/16/24/32C



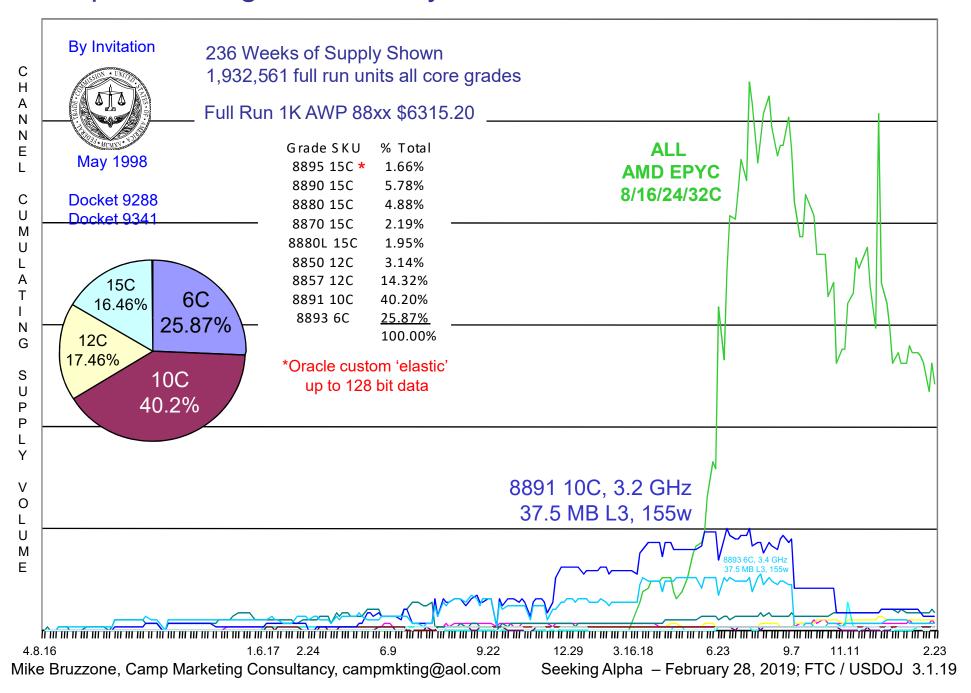
Camp Marketing Consultancy - Xeon E5 46xx v2 4-way Full Run w/AMD All Epyc SKUs



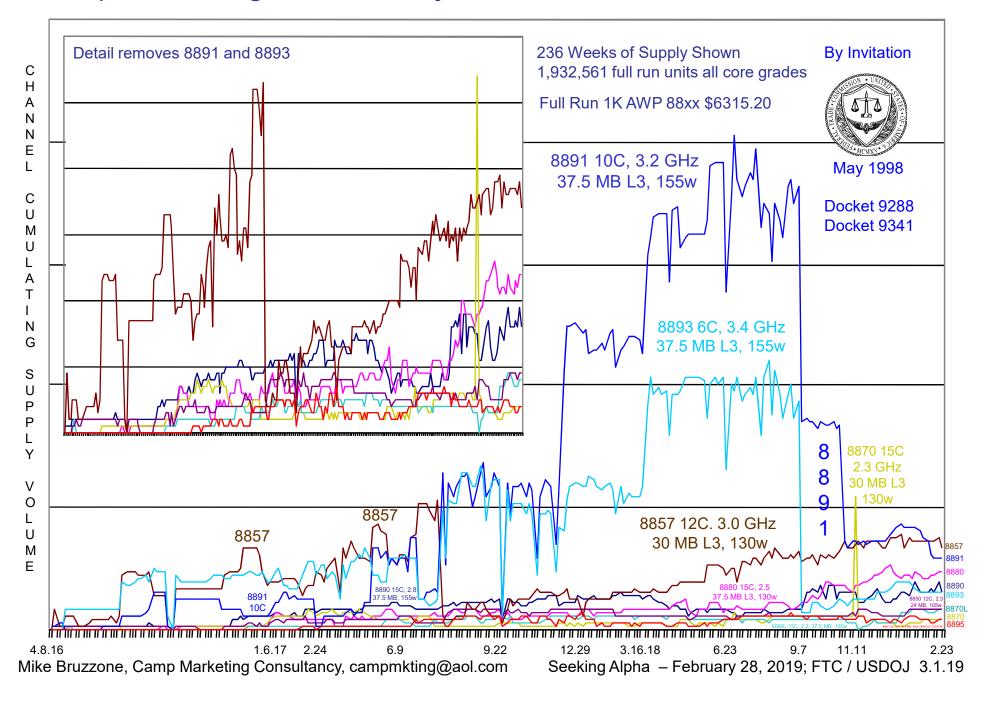
Camp Marketing Consultancy – Xeon E5 46xx v2 4-way Full Run Better Detail



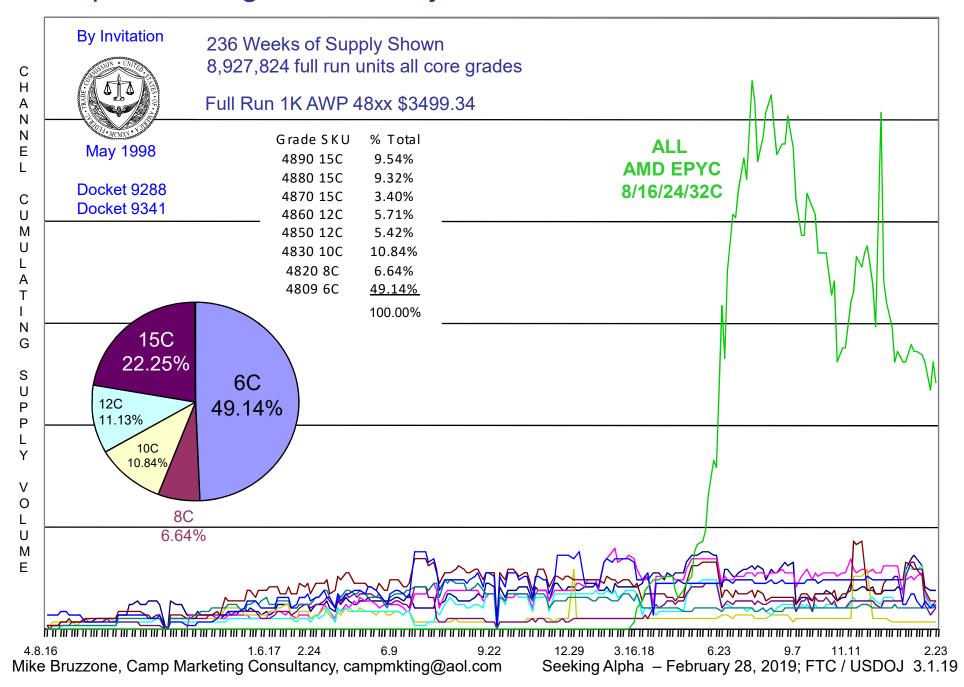
Camp Marketing Consultancy - Xeon E7 88xx v2 8-way Full Run w/AMD All Epyc SKUs



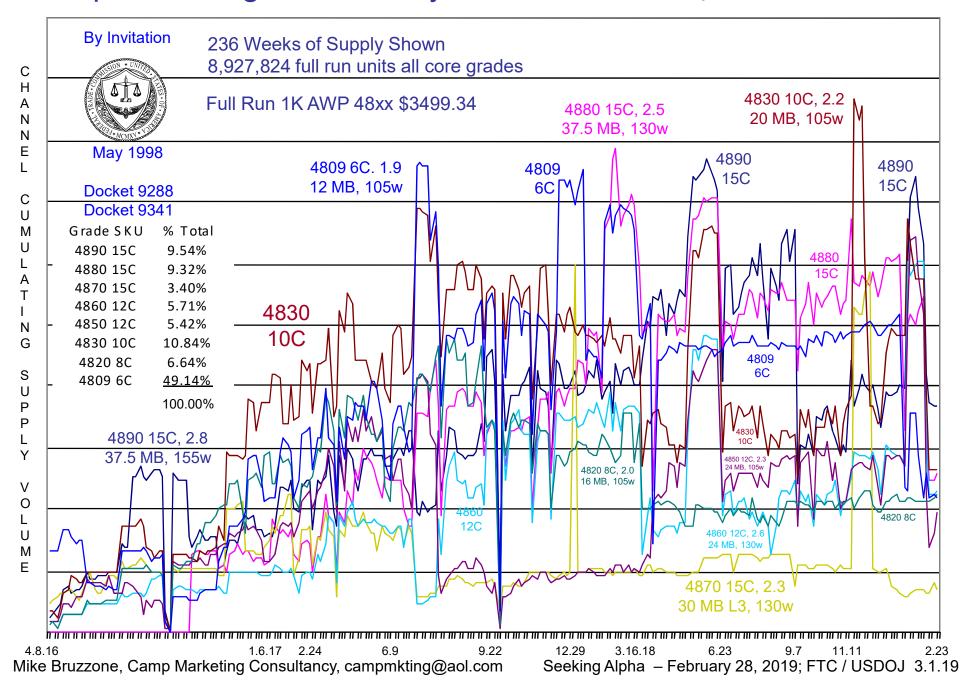
Camp Marketing Consultancy - Xeon E7 88xx v4 8-way Full Run Better Detail



Camp Marketing Consultancy - Xeon E7 48xx v2 4-way Full Run w/AMD All Epyc SKUs



Camp Marketing Consultancy – Xeon E7 48xx v2 4-way Full Run Better Detail



COMPETITIVE PROFIT

Camp Marketing Consultancy

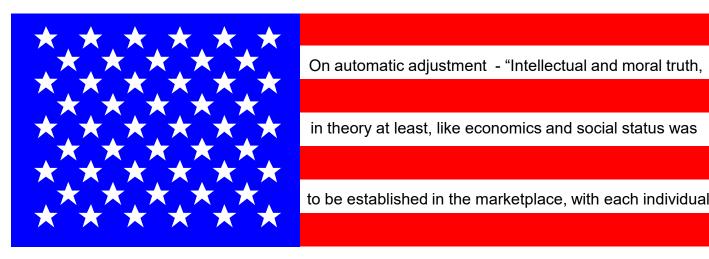
"We still think and talk of the basic problems of an industrial society as problems that can be solved by changing the 'system', that is the superstructure of political organization. Yet the real problems lie within the enterprise. It is not the solution of the problems of the 'system' that will set the structure of the enterprise. On the contrary, it is the solution of the problems of the enterprise that will shape the system under which we shall live"

Peter Drucker, The New Society, 1950

Next in series continues Xeon Skylake Scalable

The Art & Science of Camp Marketing

All logic has a guaranteed right of equal opportunity?



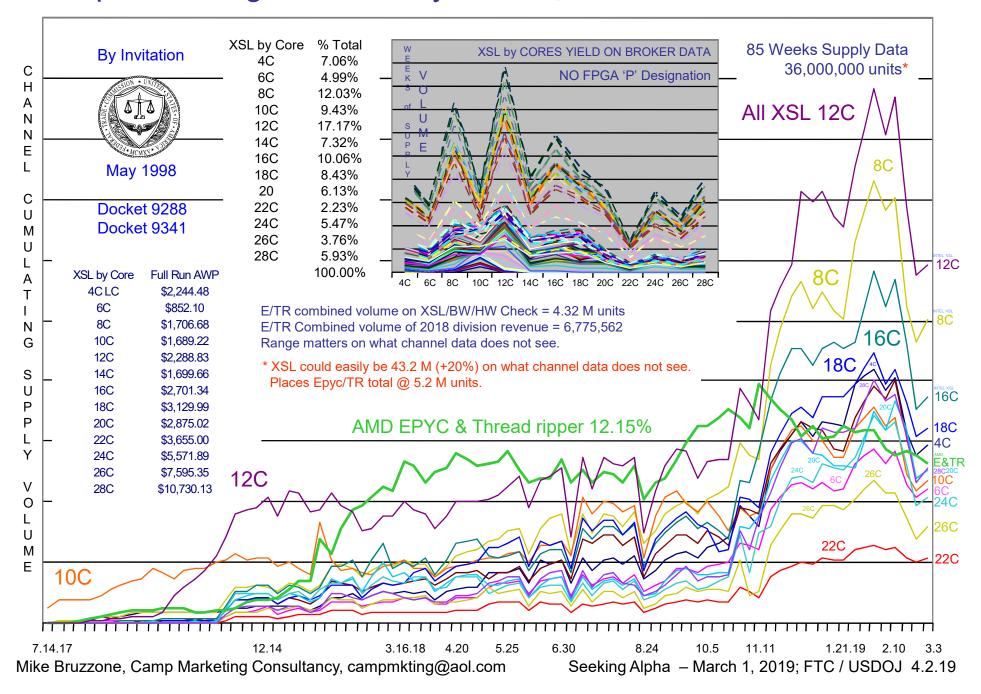
free to accept that which seemed good to his natural reason. If the forum were kept free, right and

truth, it was asserted, would automatically emerge victorious from the contest, just as competition

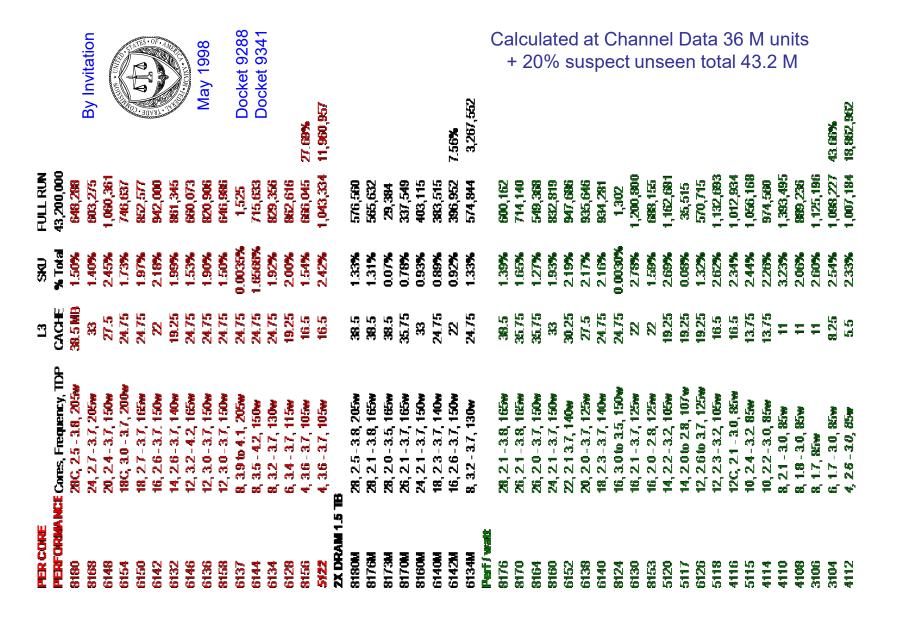
on the free market would automatically assign each individual to his proper place and function

in the social and economic life of society. - William O. Stanley, Educational and Social Integration, 1953

Camp Marketing Consultancy - Xeon Sky Lake Scalable Full Run w/AMD E&TR



Camp Marketing Consultancy – Xeon Sky Lake Scalable Full Run



Camp Marketing Consultancy – Xeon Sky Lake Scalable Full Run

By Invitation

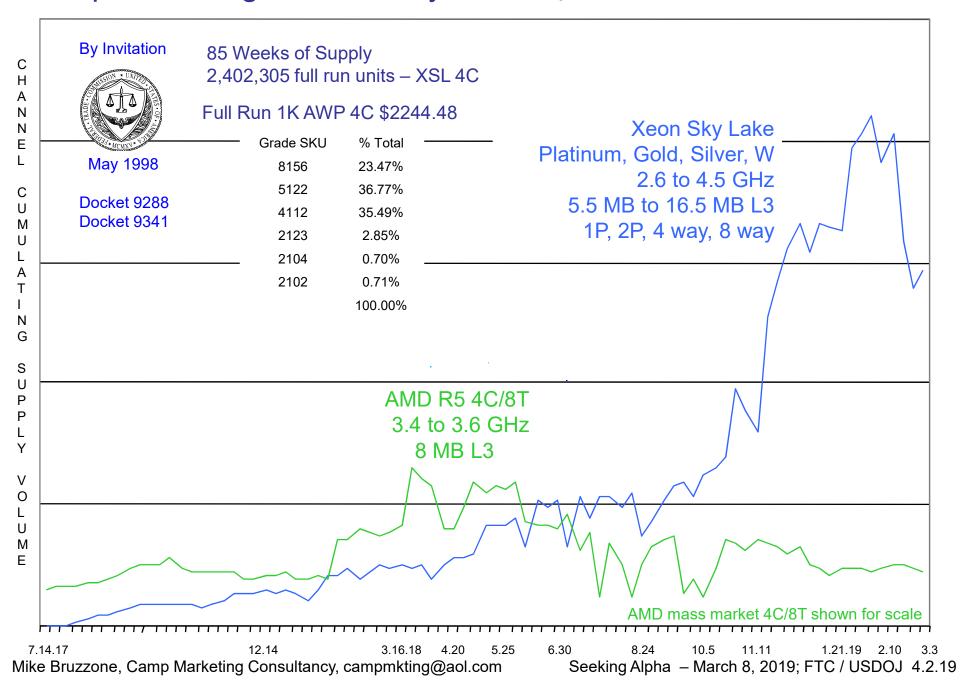


May 1998

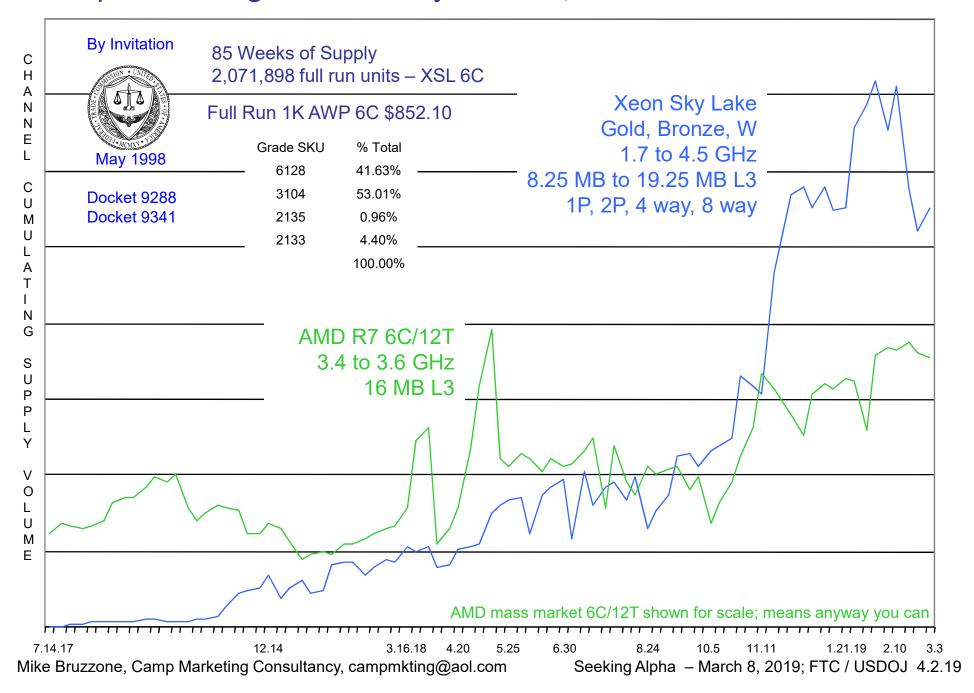
Docket 9288 Docket 9341 Calculated at Channel Data 36 M units + 20% suspect unseen total 43.2 M

10/20, 3.3 - 4.5 140w 13.75 0.02% 10/20 3.0 - 4.5 120w 19.25? 0.00% 11 0.05% 146, 3.0 - 4.5, 120w 13.75? 0.00% 13.72, 3.5 - 3.9, 140w 13.75? 0.05% 148, 3.5 - 3.9, 120w 12.5 0.19% 148, 3.5 0.05% 148, 3.0 GHz, 120W 12.5 0.05% 148, 3.0 GHz, 120W 16.5 1.53% 16.5 1.53%	13.75.7 8.25 8.25 8.25 8.25 8.25 8.25
140w 140w 140w 140w 140w 20w 20w 20w 20w 20w 165w	8/16, 3.7 - 4.5, 140 8/16, 3.0 - 4.5, 128 8/12, 3.7 - 4.5, 140 6/12, 3.6 - 3.9, 140 4/8, 4.0 - 4.5, 120m 4/8, 2.9 GHz, 120m 4/8, 3.0 GHz, 120m 4/8, 3.0 GHz, 120m 18/36, 2.6 - 4.2, 16 16/32, 2.8 - 4.2, 16

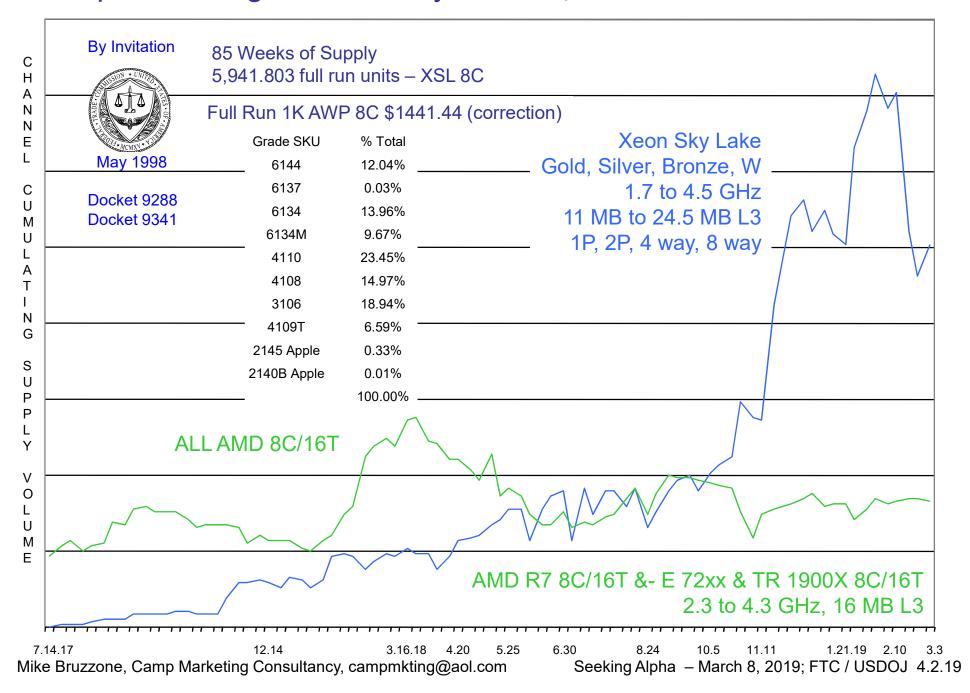
Camp Marketing Consultancy – Xeon Sky Lake Scalable 4C w/AMD R5 4C/8T



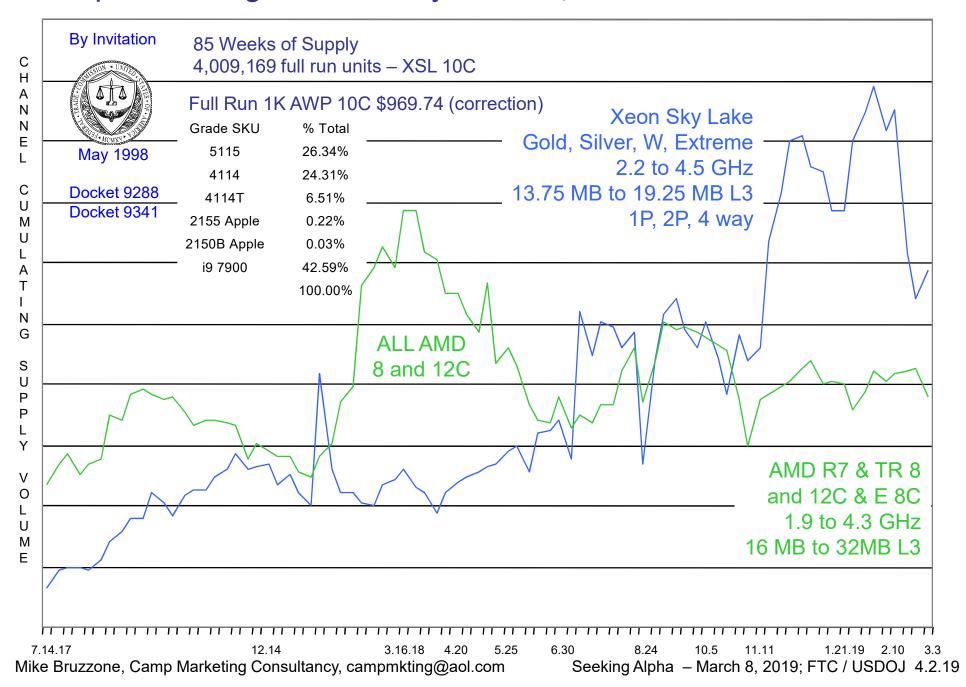
Camp Marketing Consultancy – Xeon Sky Lake Scalable 6C w/AMD R5 6C/12T



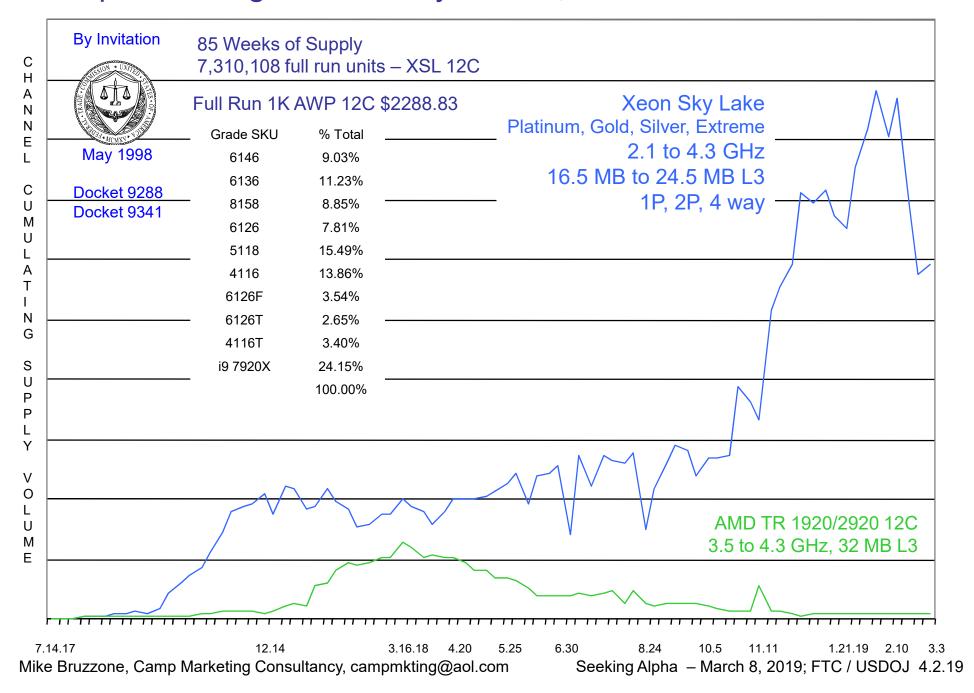
Camp Marketing Consultancy – Xeon Sky Lake Scalable 8C w/AMD 8C/16T



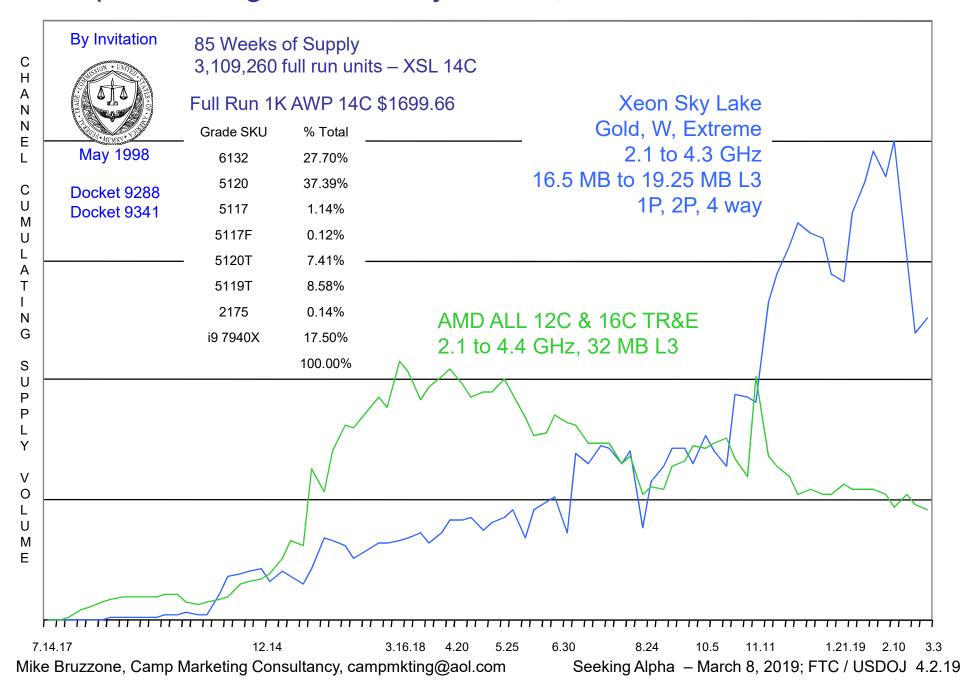
Camp Marketing Consultancy – Xeon Sky Lake Scalable 10C w/AMD 8C/12C



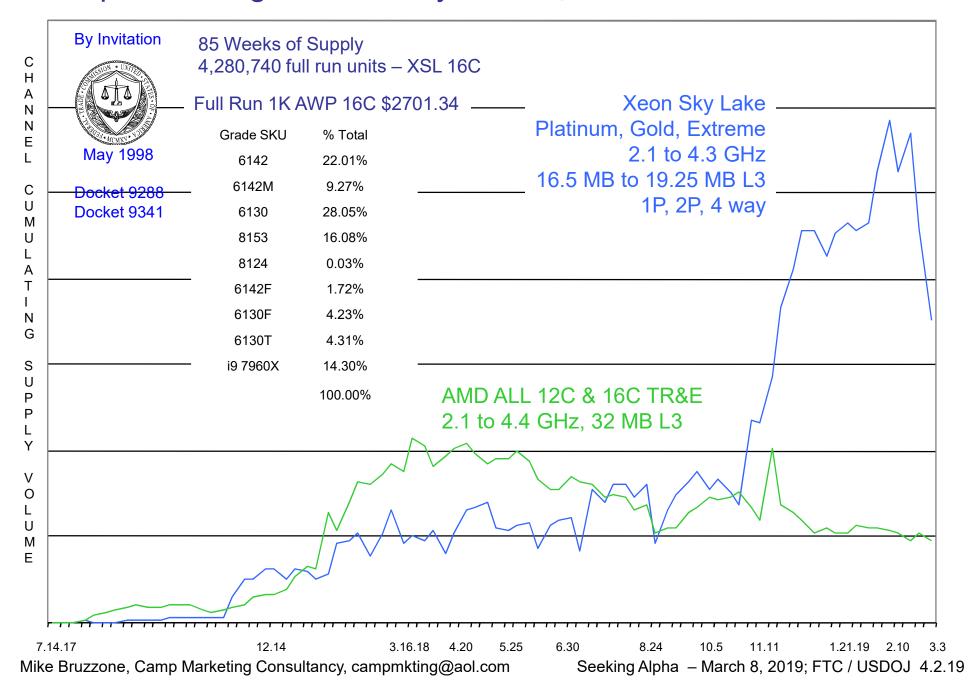
Camp Marketing Consultancy – Xeon Sky Lake Scalable 12C w/AMD TR 12C/24T



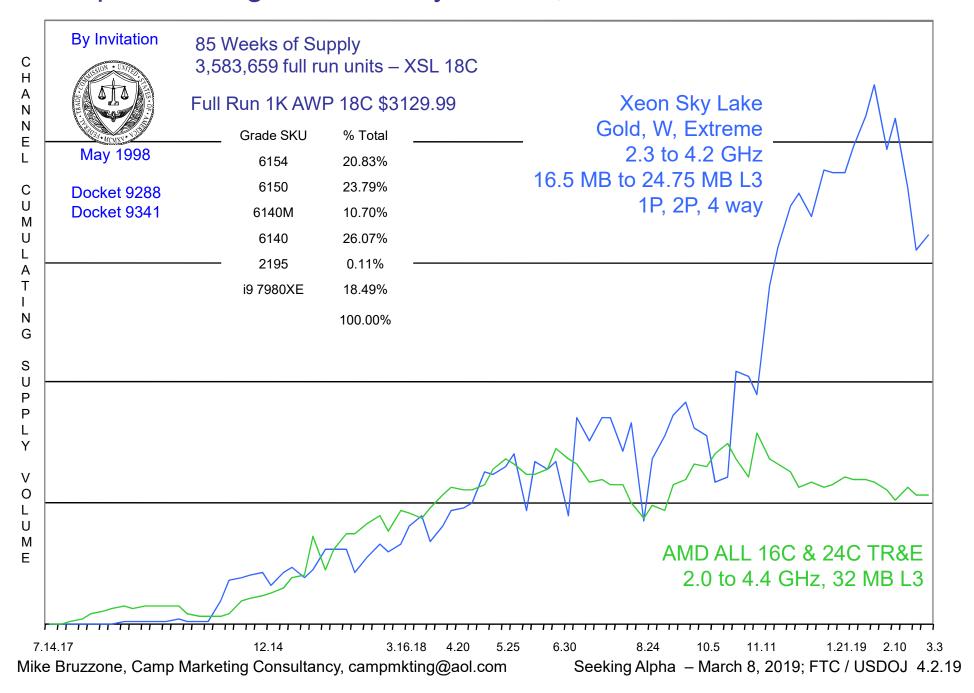
Camp Marketing Consultancy – Xeon Sky Lake Scalable 14C w/AMD All 12/16C



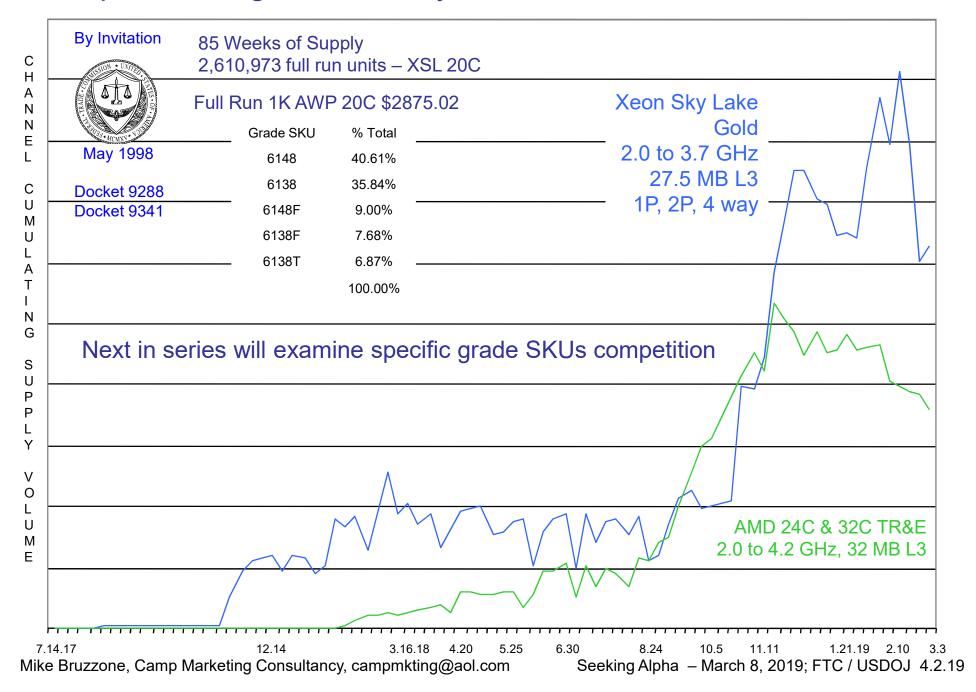
Camp Marketing Consultancy – Xeon Sky Lake Scalable 16C w/AMD All 12/16C



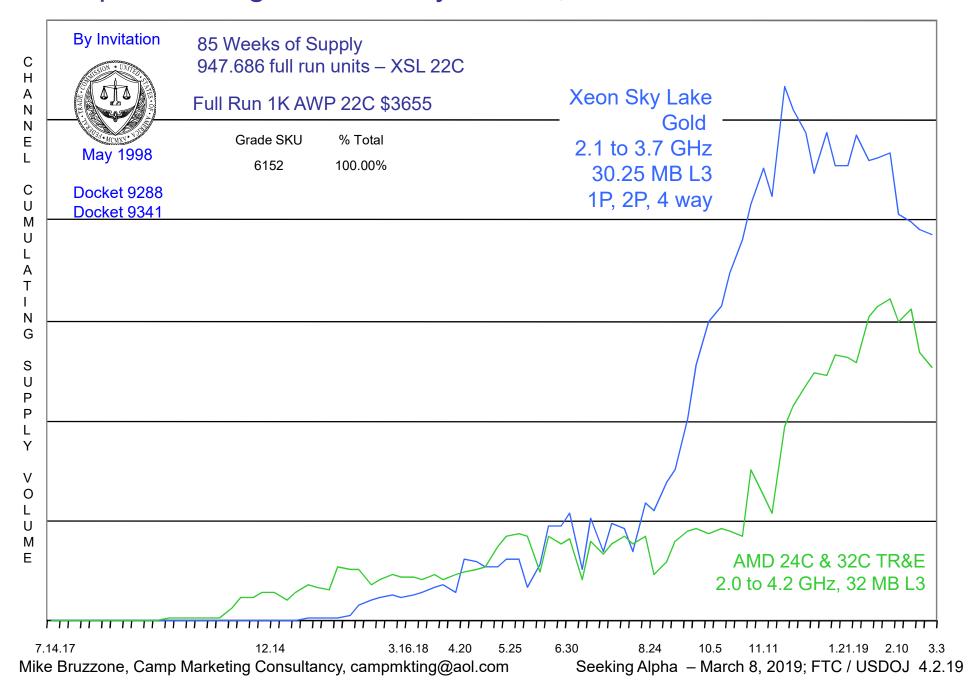
Camp Marketing Consultancy – Xeon Sky Lake Scalable 18C w/AMD 16C & 24C



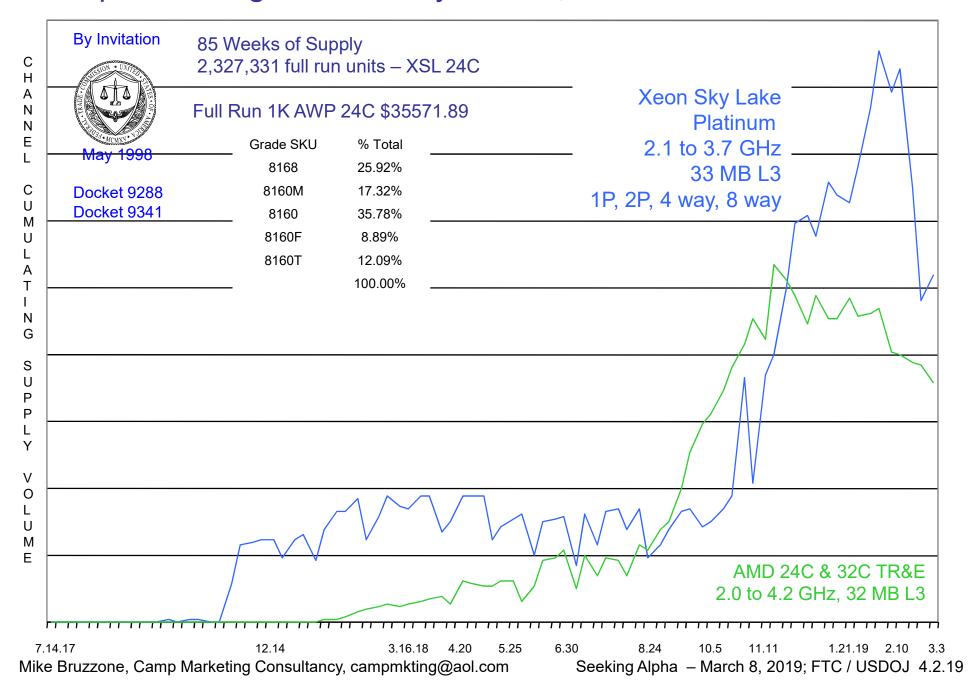
Camp Marketing Consultancy – Xeon Sky Lake Scalable 20C w/AMD 24C & 32C



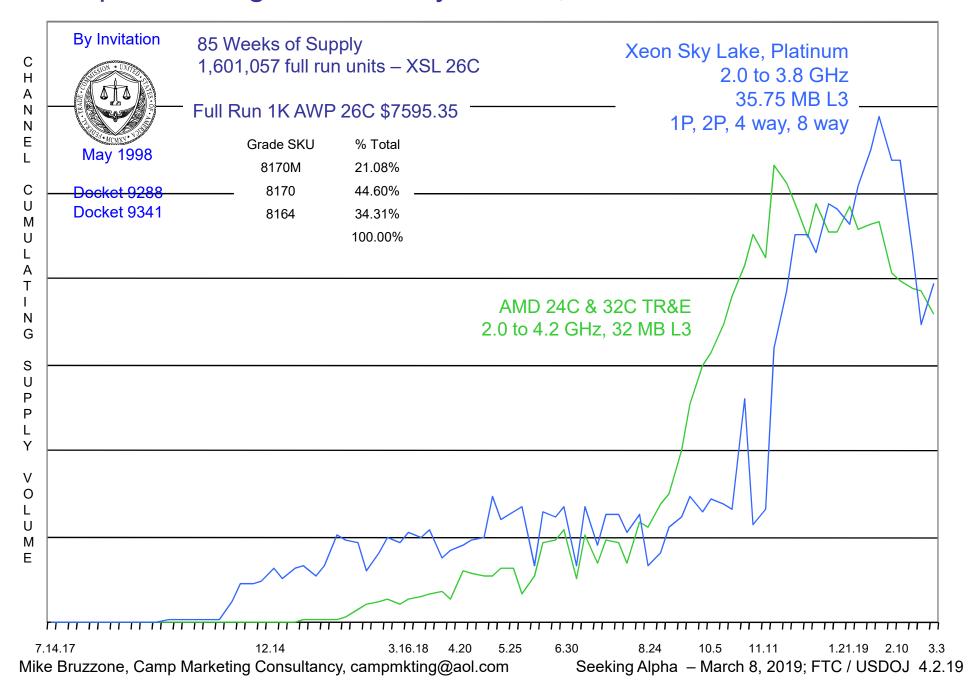
Camp Marketing Consultancy – Xeon Sky Lake Scalable 22C w/AMD 24C & 32C



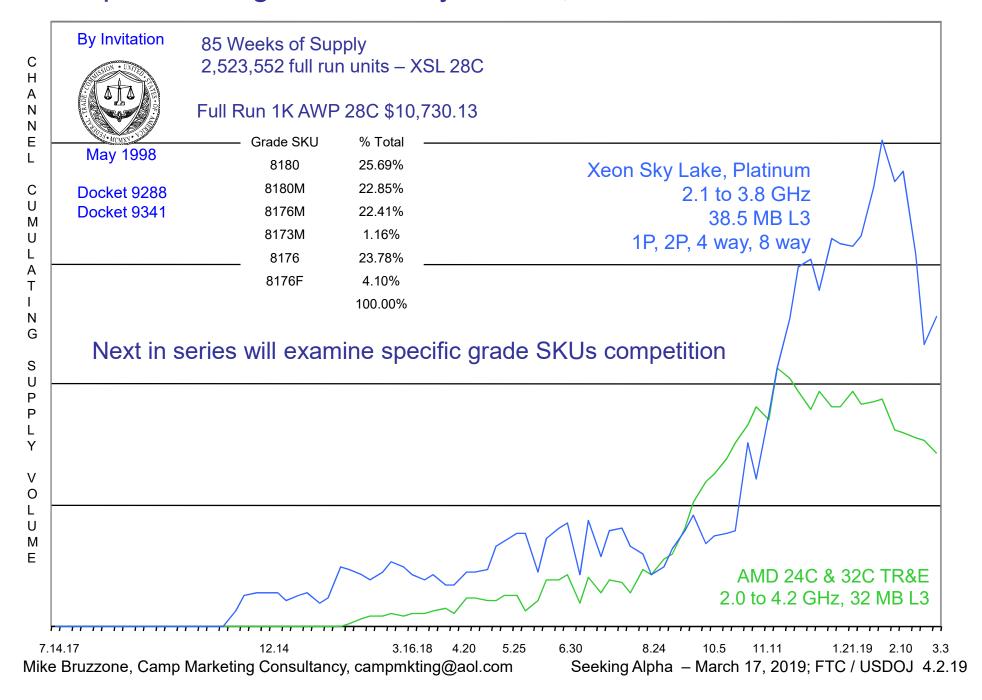
Camp Marketing Consultancy – Xeon Sky Lake Scalable 24C w/AMD 24C & 32C



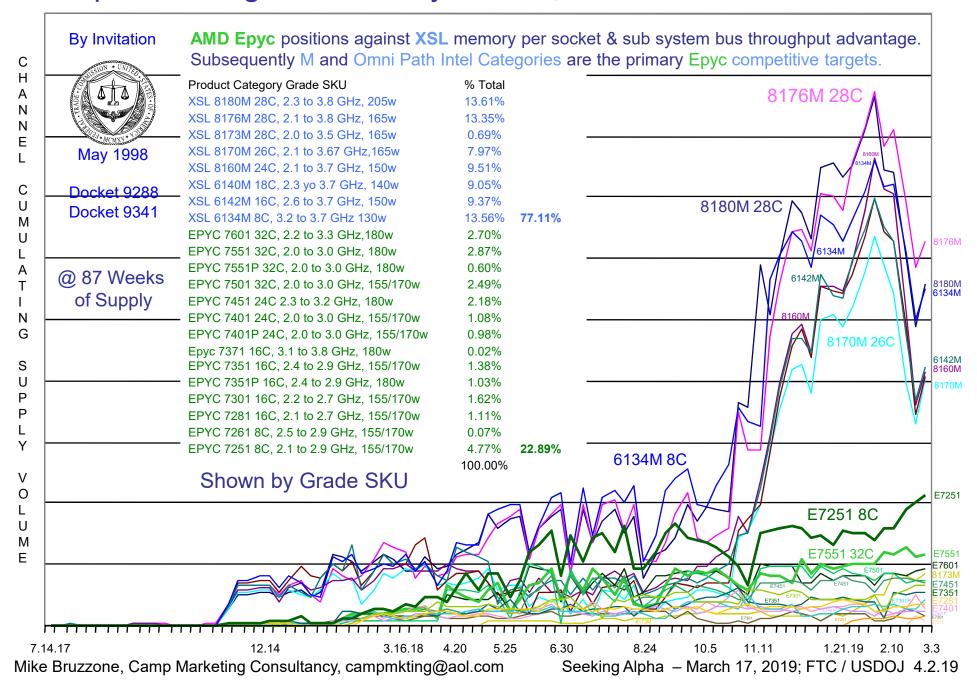
Camp Marketing Consultancy – Xeon Sky Lake Scalable 26C w/AMD 24C & 32C



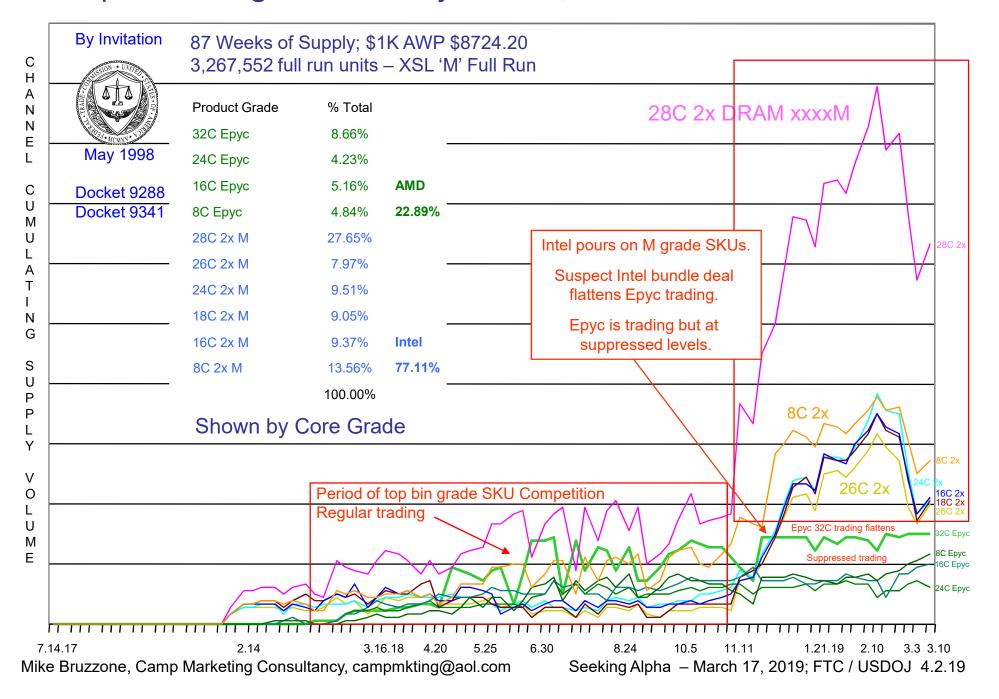
Camp Marketing Consultancy – Xeon Sky Lake Scalable 28C w/AMD 24C & 32C



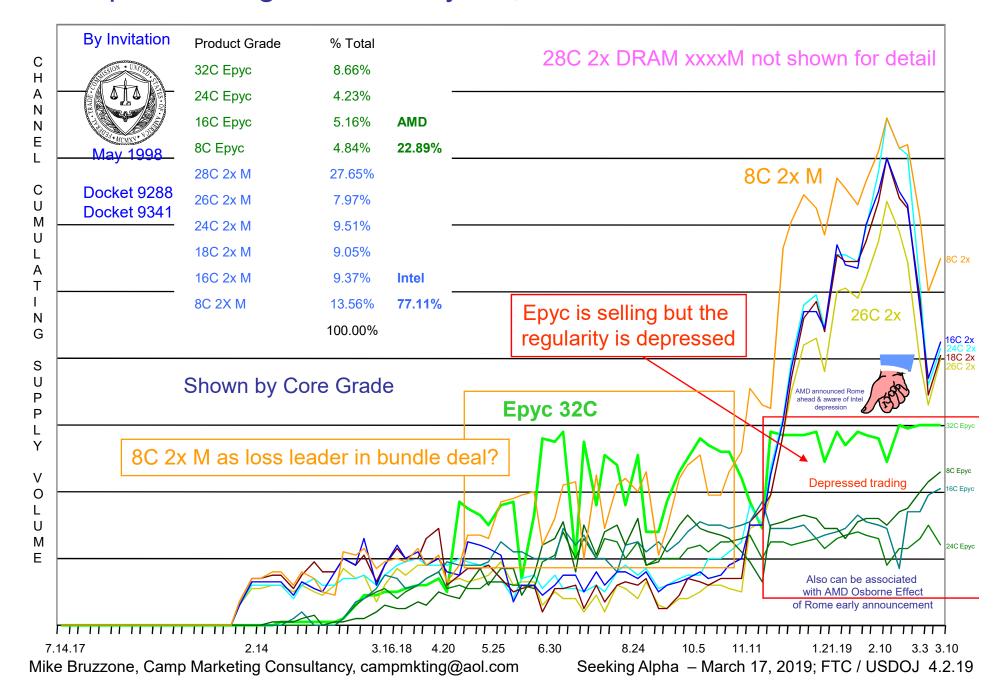
Camp Marketing Consultancy – Xeon Sky Lake Scalable 2x DRAM w/AMD EPYC



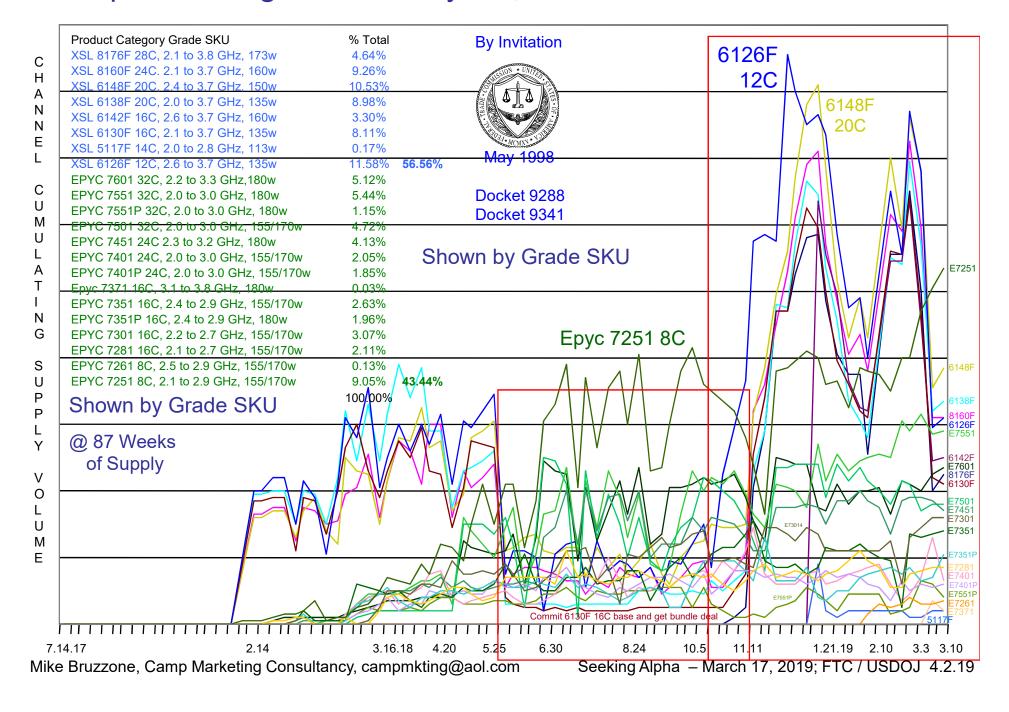
Camp Marketing Consultancy – Xeon Sky Lake Scalable 2x DRAM w/AMD EPYC



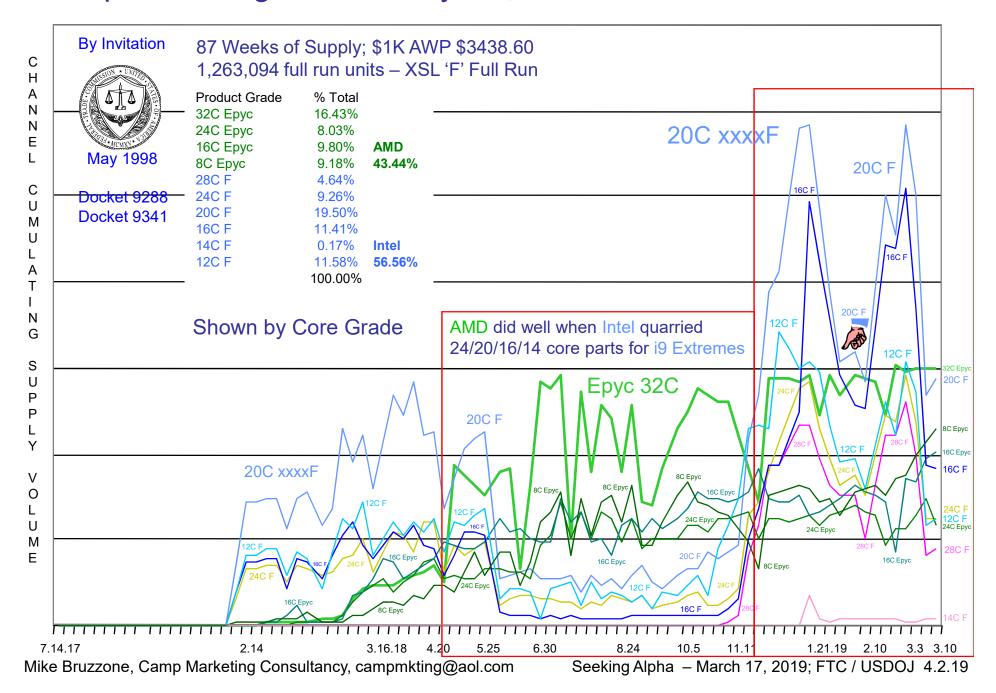
Camp Marketing Consultancy – Sky Lake Scalable 2x DRAM < 28C w/AMD EPYC



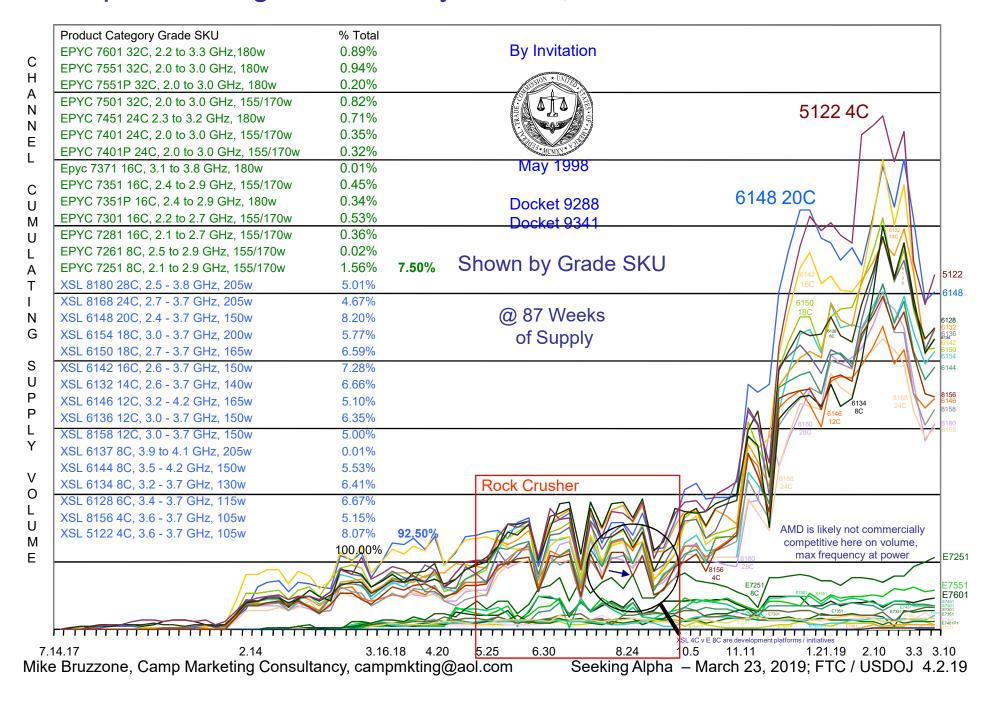
Camp Marketing Consultancy – Sky Lake Scalable Omni path w/AMD EPYC



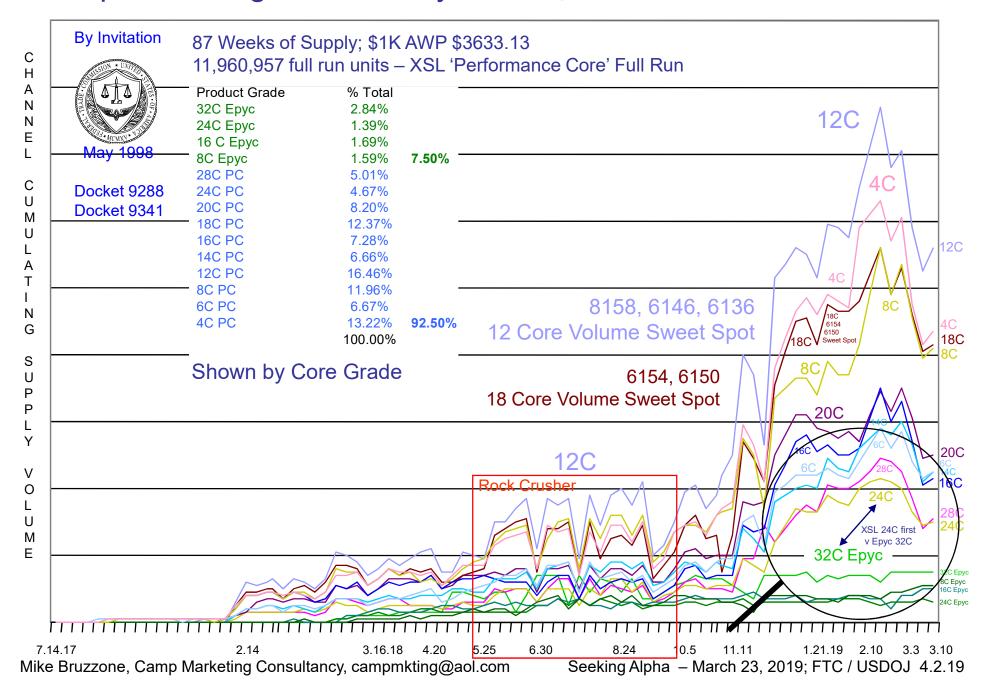
Camp Marketing Consultancy – Sky Lake Scalable Omni path w/AMD EPYC



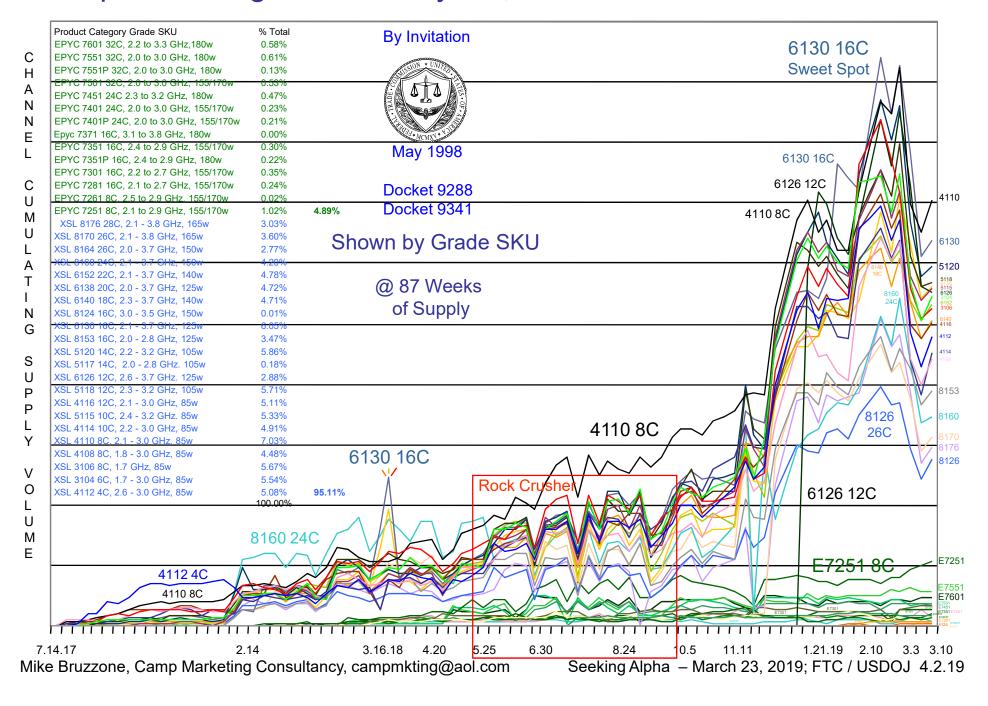
Camp Marketing Consultancy – Xeon Sky Lake Performance Core w/AMD EPYC



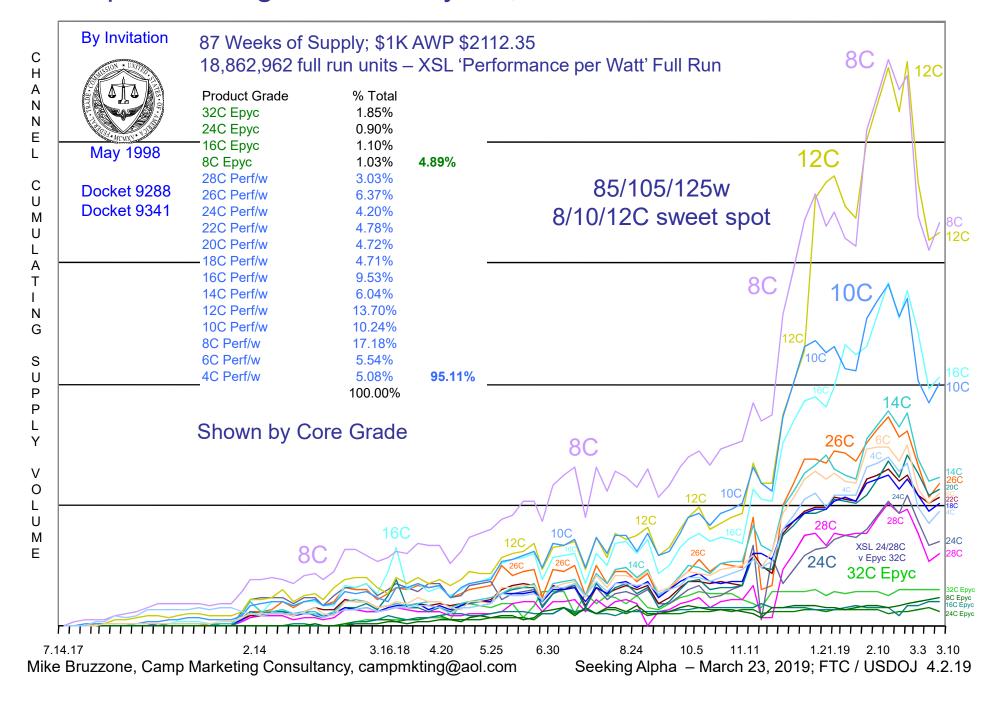
Camp Marketing Consultancy – Xeon Sky Lake Performance Core w/AMD EPYC



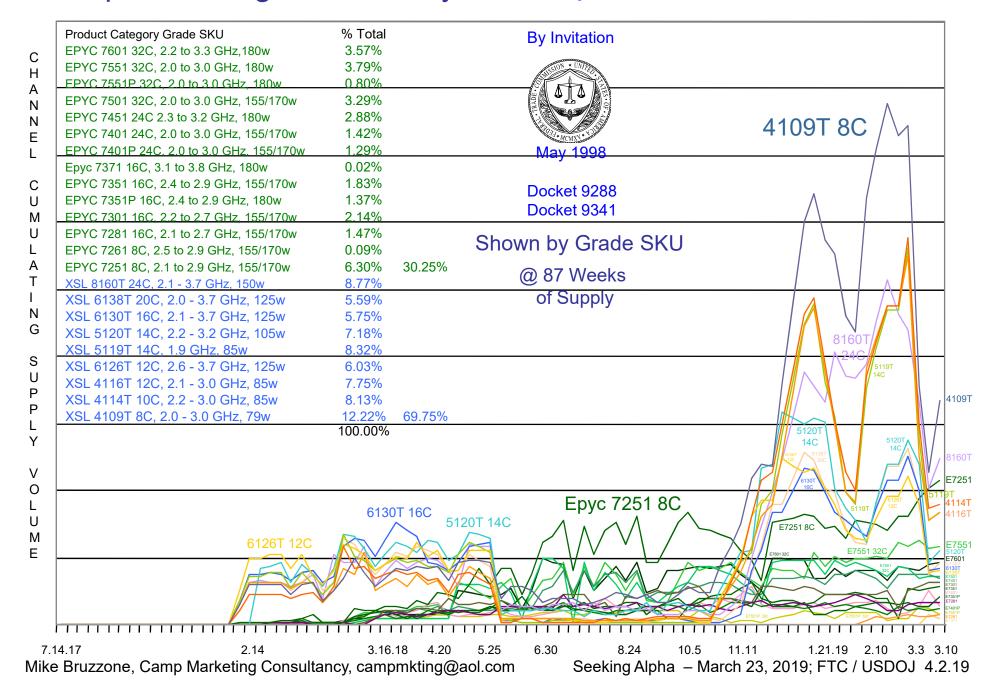
Camp Marketing Consultancy – Sky Lake Performance per Watt w/AMD EPYC



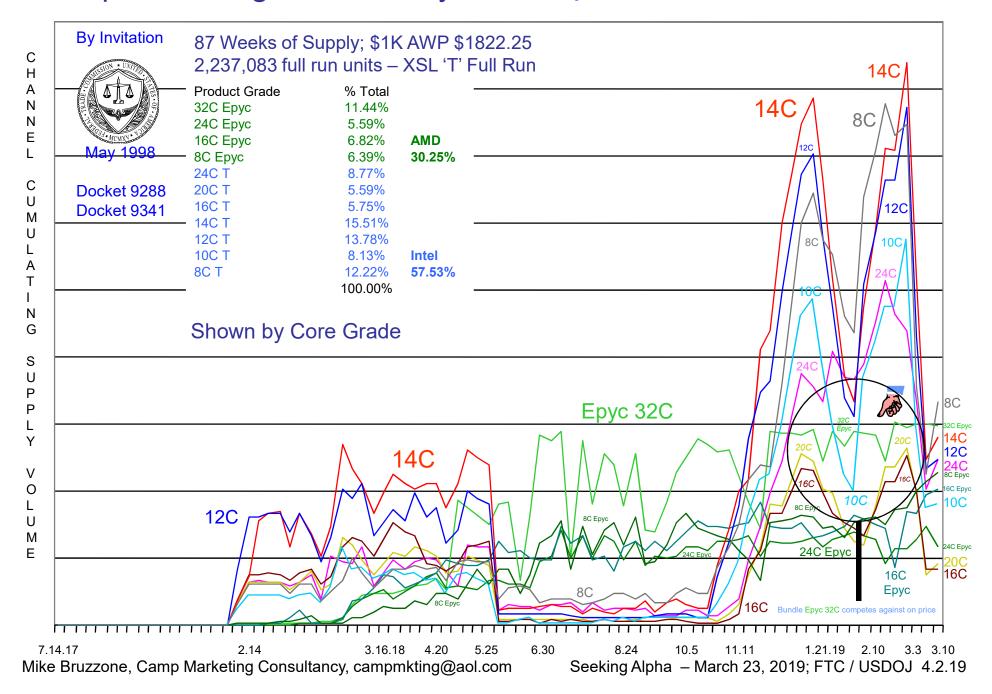
Camp Marketing Consultancy – Sky Lake Performance per Watt w/AMD EPYC



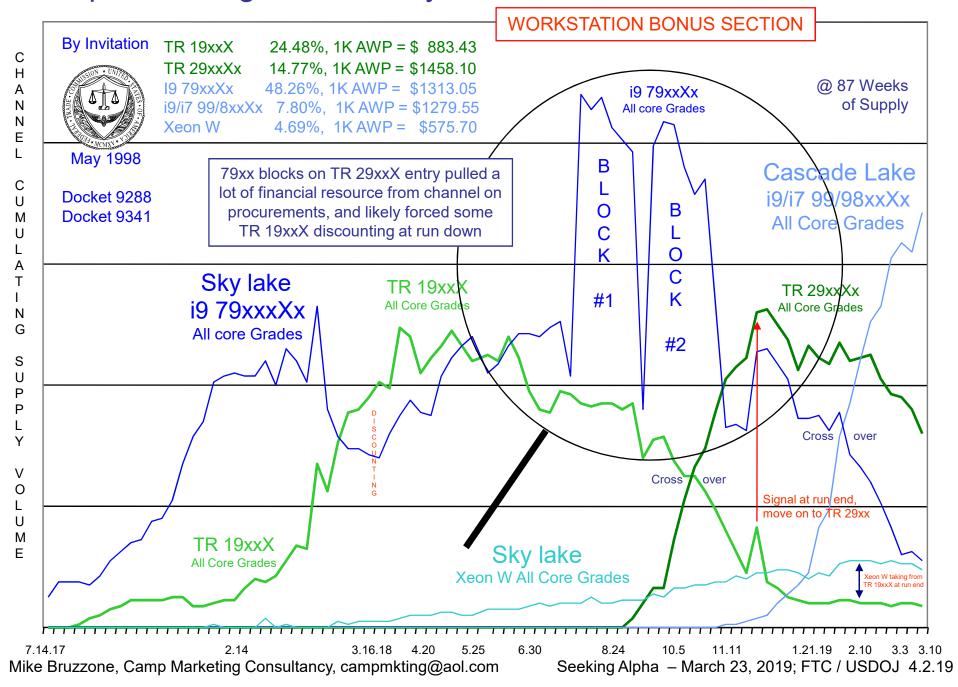
Camp Marketing Consultancy – Xeon Sky Lake 10 Year Life w/AMD EPYC



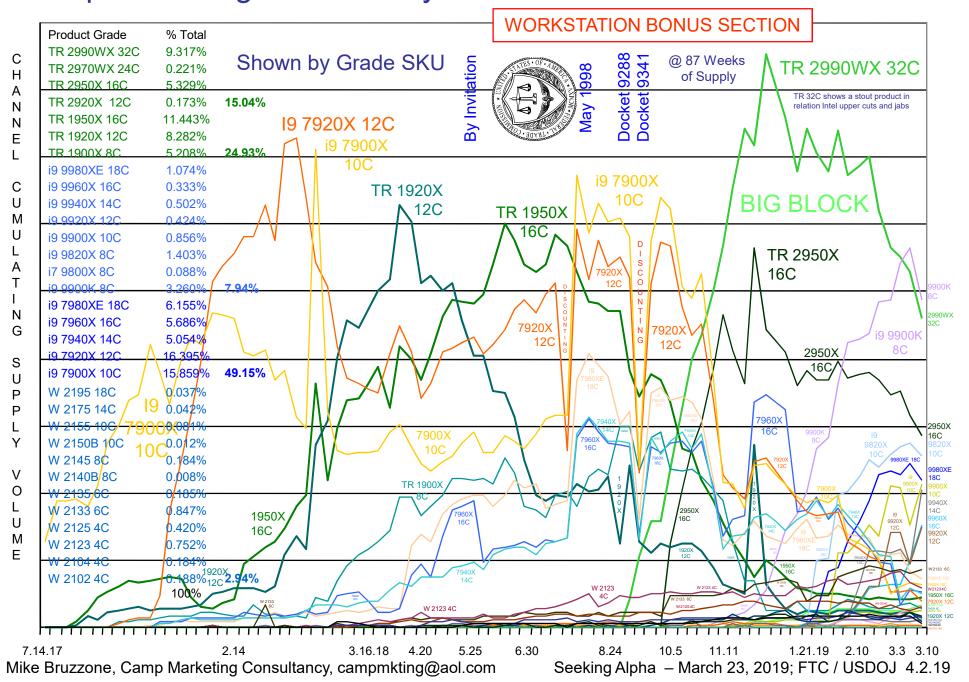
Camp Marketing Consultancy – Xeon Sky Lake 10 Year Life w/AMD EPYC



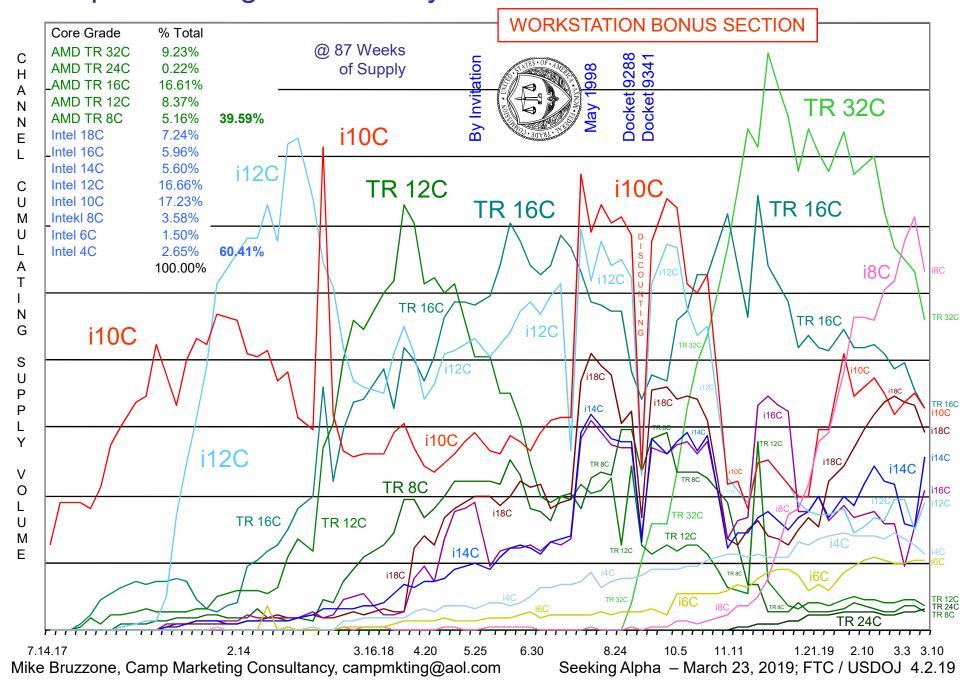
Camp Marketing Consultancy – SL W, SL Extremes, Cascade Lake EE w/AMD TR



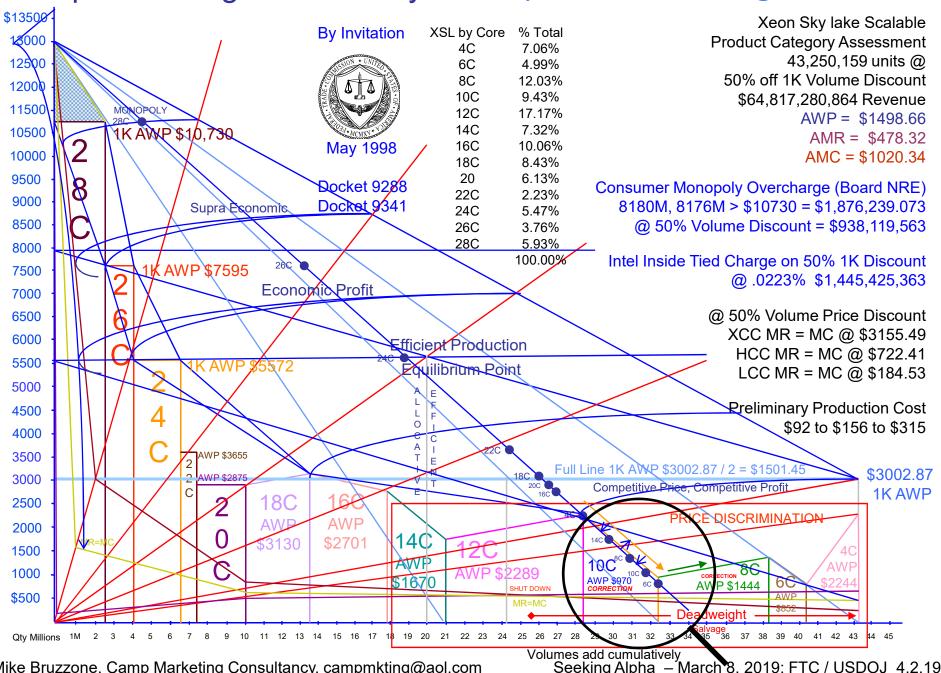
Camp Marketing Consultancy – SL W, SL Extremes, Cascade Lake EE w/AMD TR



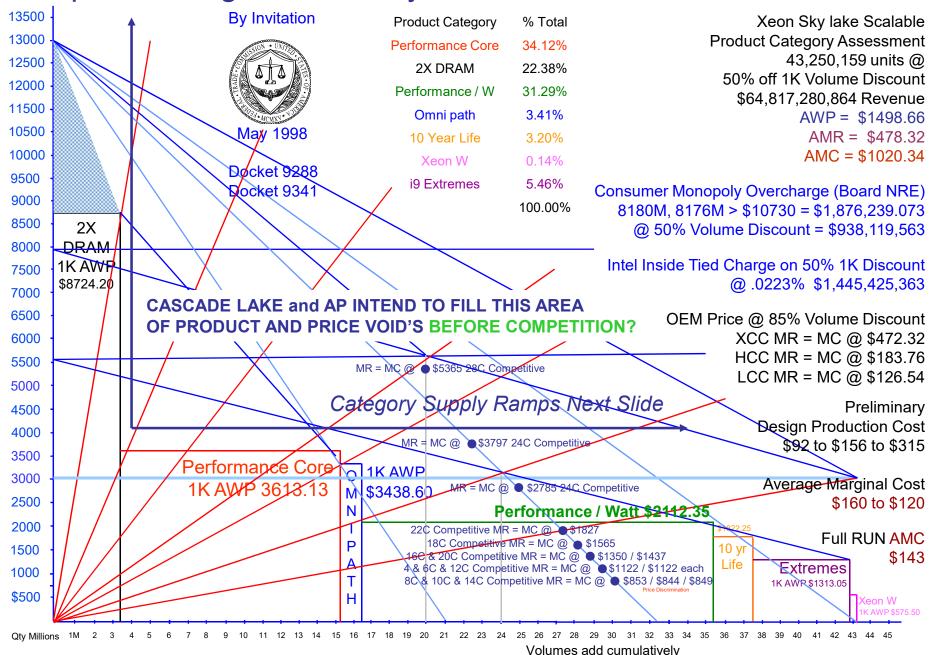
Camp Marketing Consultancy – SL W, SL Extremes, Cascade Lake EE w/AMD TR



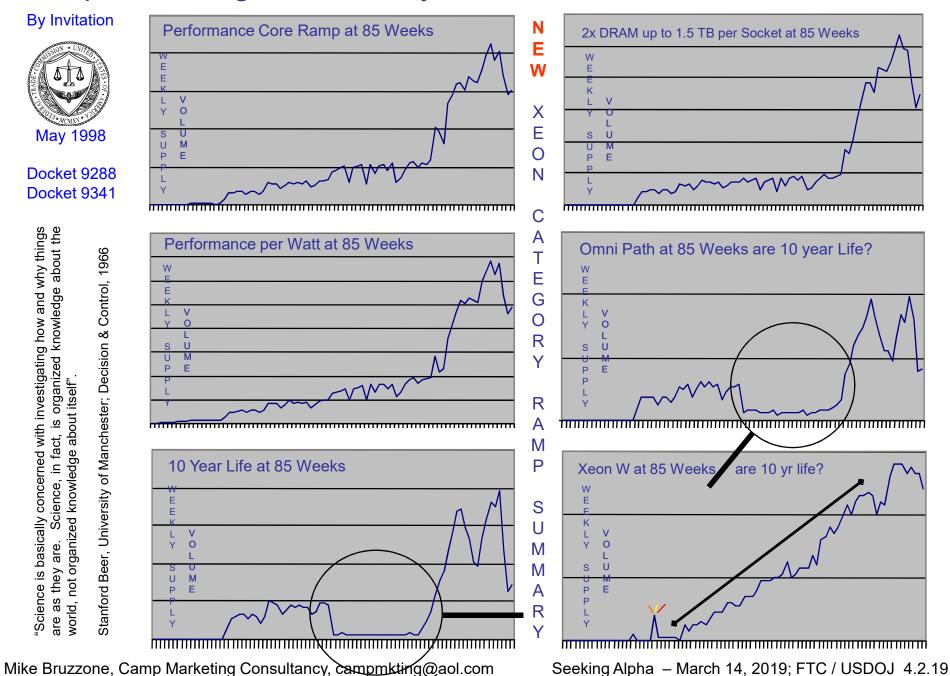
Camp Marketing Consultancy - Xeon Sky Lake Scalable Full Run @ 43,250,159 units



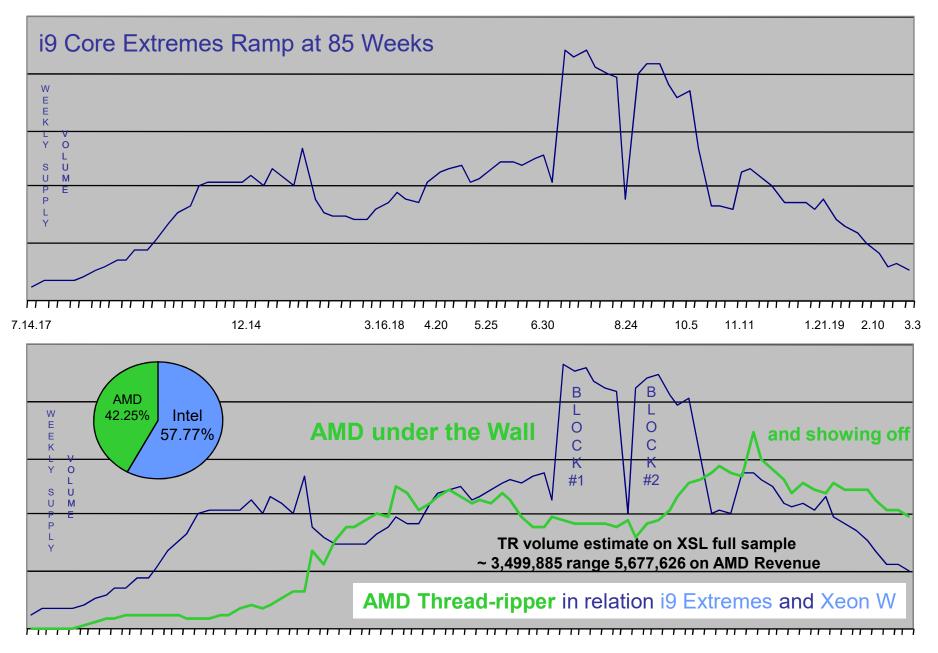
Camp Marketing Consultancy - Xeon Sky Lake Scalable Full Run @ 43,250,159 units



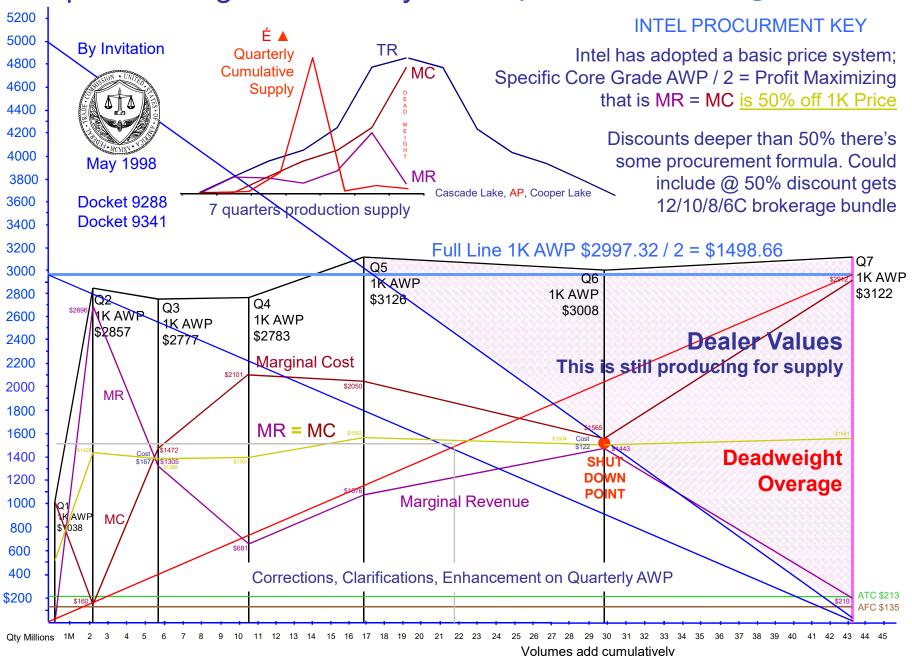
Camp Marketing Consultancy – Xeon Sky Lake Scalable Ramp by Product Category

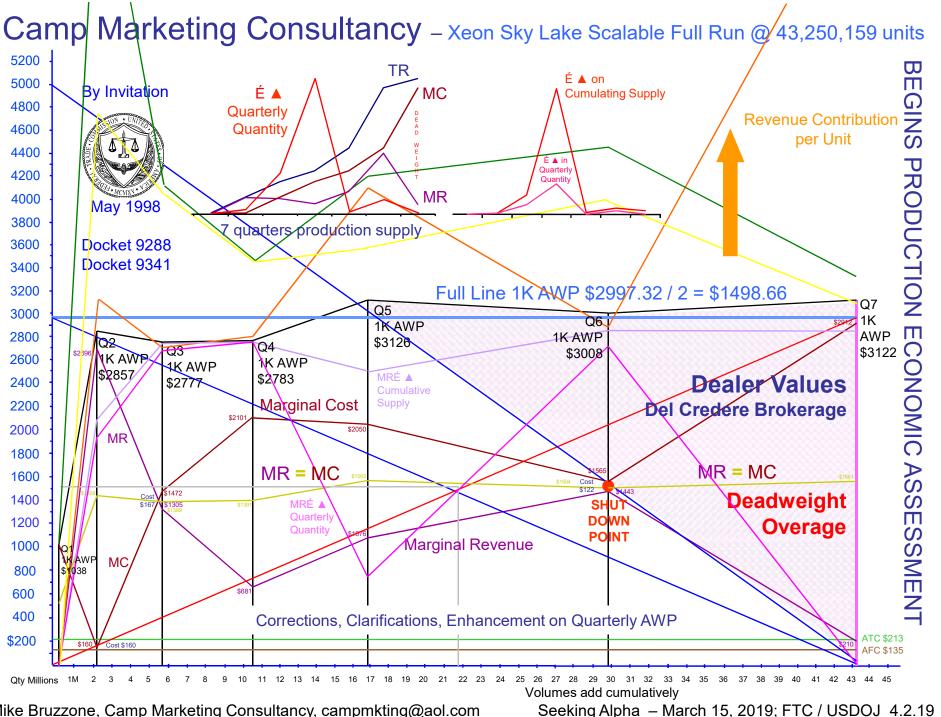


Camp Marketing Consultancy – Xeon Sky Lake Scalable Ramp by Product Category

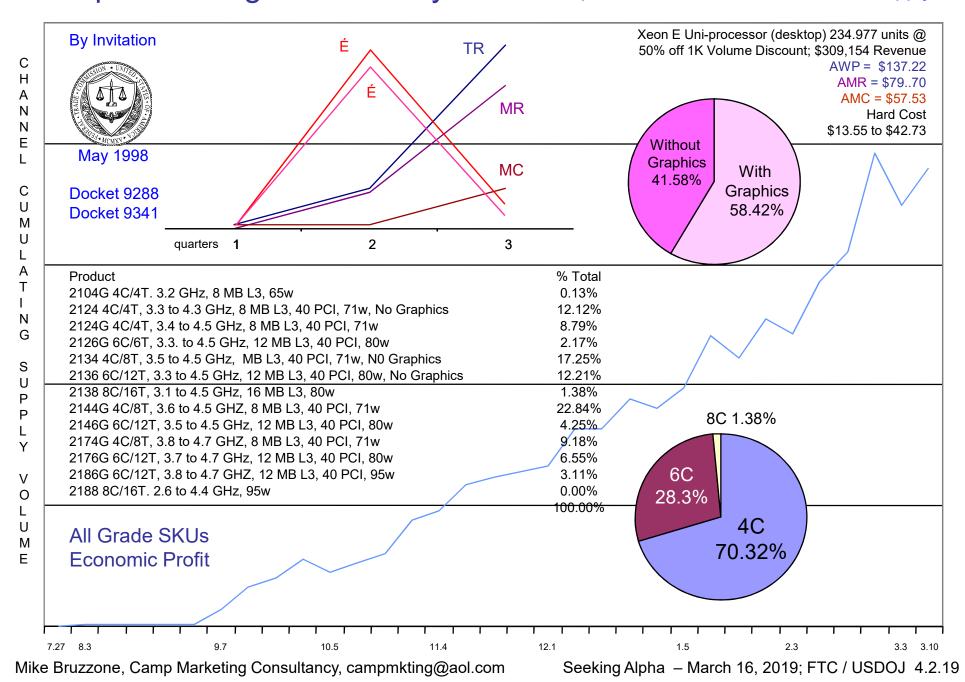


Camp Marketing Consultancy – Xeon Sky Lake Scalable Full Run @ 43,250,159 units





Camp Marketing Consultancy – Xeon E Uni-processor Full Run at 33 Weeks Supply



Camp Marketing Consultancy – Xeon Sky Lake Scalable Full Run

Next in Sky Lake Scalable series will explore specific Intel core grades production cost.

Will look at channel Intel v AMD EPYC grade SKUs competition.

Finalize Sky Lake Scalable OEM pricing.



AMD design production cost.

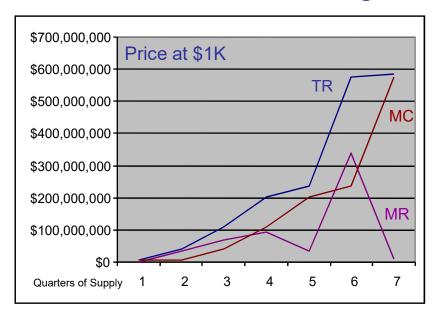


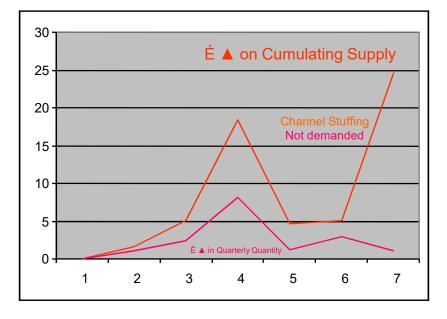
Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 4 Core

NOT FULL RUN . . . better, in quarter

4C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost
26,578	\$594.81	\$297.40	\$89.22	\$44.61	\$29.74
86,865	\$1,801.55	\$900.77	\$270.23	\$135.12	\$90.08
164,038	\$2,322.16	\$1,161.08	\$348.32	\$174.16	\$116.11
295,494	\$2,187.52	\$1,093.76	\$328.13	\$164.06	\$109.38
391,716	\$1,867.20	\$933.60	\$280.08	\$140.04	\$93.36
936,711	\$2,225.51	\$1,112.76	\$333.83	\$166.91	\$111.28
<u>981,363</u>	\$2,272.20	\$1,136.10	\$340.83	\$170.42	\$113.61
2,882,766		AWP \$1083.26	AWP \$324.98	\$162.49 Average	\$108.03 Average
			Intel i7 4C Price		

4 Core Large Cache, Price: Cost



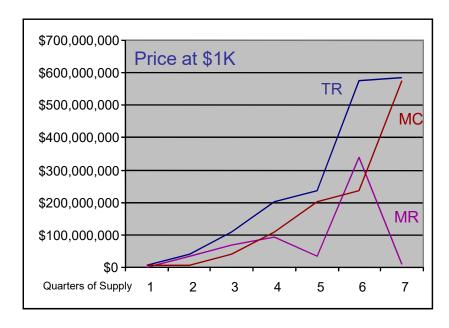


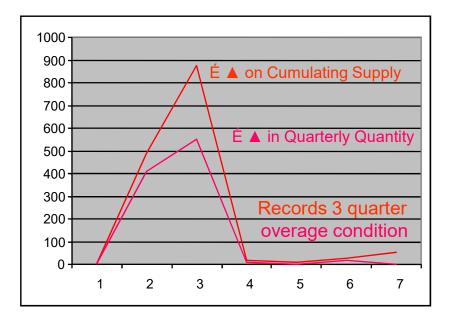
Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 6 Core

NOT FULL RUN . . . better, in quarter

6C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost
7,560	\$867.20	\$433.60	\$130.08	\$65	\$43.36
47,283	\$856.10	\$428.05	\$128.41	\$64	\$42.80
128,463	\$853.80	\$426.90	\$128.07	\$64	\$42.69
222,348	\$910.07	\$455.04	\$136.51	\$68	\$45.50
289,213	\$816.97	\$408.49	\$122.55	\$61	\$40.85
679,808	\$846.31	\$423.16	\$126.95	\$63	\$42.32
697,222	\$838.29	\$419.15	\$125.74	\$63	\$41.91
2,071,898		AWP \$423.56	AWP \$127.07	\$65.53 Average	\$42.35 Average
			i3 Price		Variable Cost Production

6 Core





6C essentially rejected even at i3 price

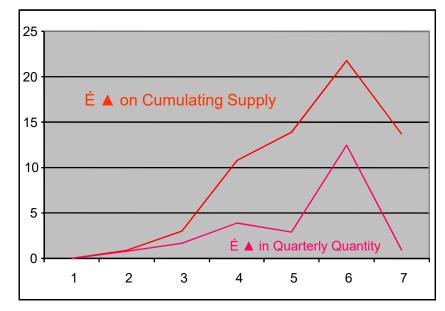
Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 8 Core

NOT FULL RUN . . . better, in quarter

8C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost
37,157	\$524.43	\$262.22	\$78.67	\$39	\$26.22
185,932	\$3,355.77	\$1,677.88	\$503.37	\$252	\$167.79
409,243	\$1,334.78	\$667.39	\$200.22	\$100	\$66.74
635,724	\$1,459.03	\$729.52	\$218.85	\$109	\$72.95
803,299	\$1,392.31	\$696.16	\$208.85	\$104	\$69.62
1,873,996	\$1,450.13	\$725.06	\$217.52	\$109	\$72.51
<u>1,996,452</u>	\$1,396.23	\$698.12	\$209.43	\$105	\$69.81
5,941,803		AWP \$735.53	AWP 220.66	\$110.33 Average	\$73.55 Average
			i5 Price		_

8 Core





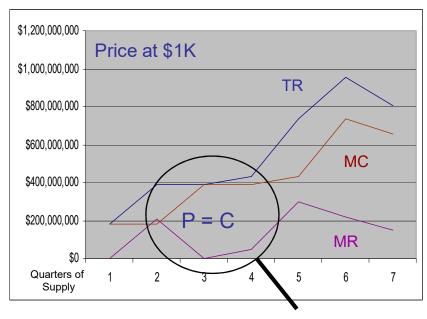
Price decline to i5 leads 8C attraction

Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 10 Core

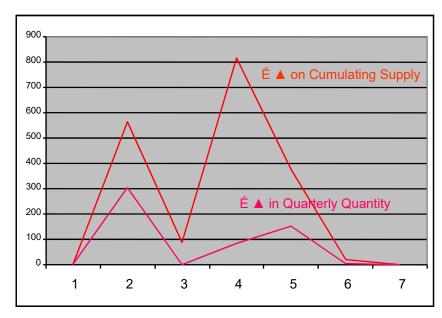
10C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost
182,313	\$988.85	\$494.42	\$148.33	\$74	\$49.44
396,672	\$985.04	\$492.52	\$147.76	\$74	\$49.25
397,750	\$977.34 \$488.67 \$146.60 \$73		\$73	\$48.87	
444,201	\$977.88	\$488.94	\$146.68	\$73	\$48.89
749,812	\$979.26	\$489.63	\$146.89	\$73	\$48.96
996,851	\$958.26	\$479.13	\$143.74	\$72	\$47.91
<u>841,571</u>	\$958.26	\$479.13	\$143.74	\$72	\$47.91
4,009,169		AWP 485.15	AWP \$145.44	\$72.77 Average	\$48.51 Average
		Incentive Discount	Giving Away	_	
		Near Economic Profit			

Price aims for consumer this is a testing ground.

10 Core



First three quarters for volume level 10C P ~ C



Then into 4th quarter 10 C volume increases on suspect price decline. Does not verify demand only suspect price adjustment.

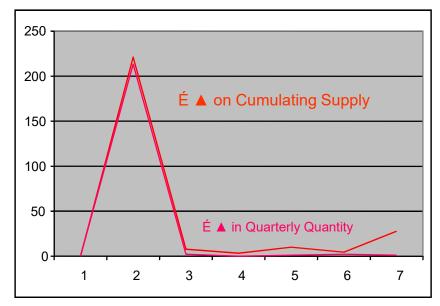
Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 12 Core

12C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost
17,281	\$1,767.03	\$883.52	\$265.05	\$133	\$88.35
539,039	\$1,517.43	\$758.72	\$227.62	\$114	\$75.87
765,118	\$1,797.34	\$898.67	\$269.60	\$135	\$89.87
870,391	\$2,126.14	\$1,063.07	\$318.92	\$159	\$106.31
997,392	\$2,226.20	\$1,113.10	\$333.93	\$167	\$111.31
2,014,097	\$2,537.19	\$1,268.60	\$380.58	\$190	\$126.86
<u>2,106,791</u>	\$2,574.68	\$1,287.34	\$386.20	\$193	<i>\$128.73</i>
7,310,108		AWP 1151.08	AWP \$345.33	\$173.66 Average	Aim \$115.11 Average
			New Consumer		
			Mass Market		

Price aims for consumer this is a testing ground.

12 Core





At Intel volume press, there is no 12C commercial demand at price.

Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 14 Core

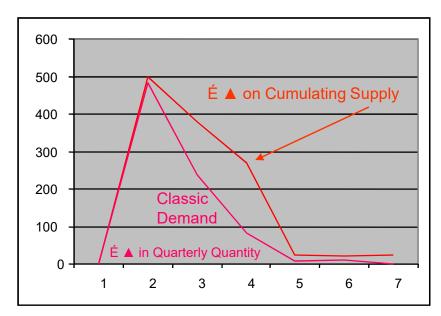
14C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost
3,107	\$1,589.04	\$794.52	\$238.36	\$119	\$79.45
87,794	\$1,678.92	\$839.46	\$251.84	\$126	\$83.95
237,035	\$1,690.50	\$845.25	\$253.57	\$127	\$84.52
343,631	\$1,697.07	\$848.53	\$254.56	\$127	\$84.85
519,917	\$1,640.47	\$820.24	\$246.07	\$123	\$82.02
983,968	\$1,703.86	\$851.93	\$255.58	\$128	\$85.19
<u>983,968</u>	\$1,735.32	\$867.66	\$260.30	\$130	\$86.77
3,159,419		AWP \$850.34	AWP \$255.10	\$127.55 Average	Aim \$85.03 Average
			New Consumer		
			Mass Market		

Price aims for consumer this is a testing ground.

14 Core (Clarified)



Cost is up and revenue better than 12C.



Supply shows stuffing and resistance, demand suggests price declines at quarterly volume levels aim for clearing.

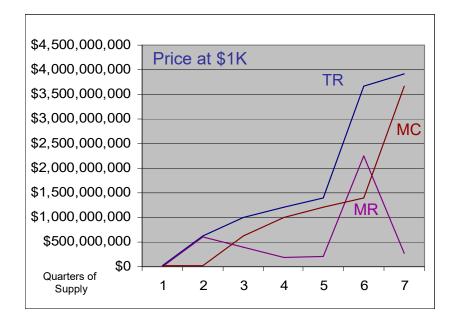
Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 16 Core

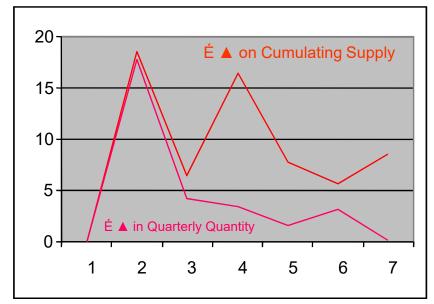
16C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost
5,464	\$2,106.07	\$1,053.03	\$315.91	\$158	\$105.30
128,618	\$4,786.28	\$2,393.14	\$717.94	\$359	\$239.31
370,575	\$2,721.00	\$1,360.50	\$408.15	\$204	\$136.05
469,684	· · · · · · · · · · · · · · · · · · ·		\$385.13	\$193	\$128.38
594,268	\$2,365.65	\$1,182.83	\$354.85	\$177	\$118.28
1,345,520	\$2,720.30	\$1,360.15	\$408.04	\$204	\$136.01
<u>1,366,612</u>	\$2,870.16	\$1,435.08	\$430.52	\$215	\$143.51 ←
4,280,740		AWP \$1381.75	AWP \$414.52	\$207.26 Average	Aim \$138.17 Average
			New Consumer		
			Top Bin		

Full Run AMC \$143

Price aims for consumer this is a testing ground.

16 Core





Intel's aggressive on volume price discounting.

Sweat spot product Intel's stuffing into the channel, offering on price discount. Success of price strategy can be examined further in verse AMD Grade SKUs assessment *coming next*.

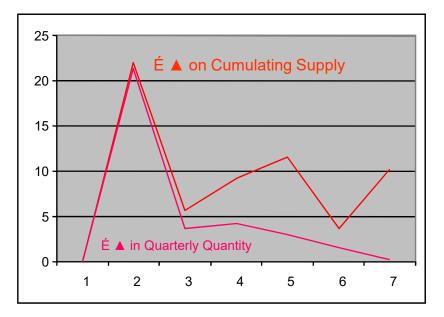
Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 18 Core

18C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost
2,411	\$2,551.39	\$1,275.70	\$382.71	\$191	\$127.57
85,712	\$6,678.18	\$3,339.09	\$1,001.73	\$501	\$333.91
247,936	\$3,354.85	\$1,677.42	\$503.23	\$252	\$167.74
460,218	\$2,857.72	\$1,428.86	\$428.66	\$214	\$142.89
621,300	\$2,665.35	\$1,332.67	\$399.80	\$200	\$133.27
1,073,207	\$3,216.71	\$1,608.35	\$482.51	\$241	\$160.84
<u>1,092,874</u>	\$3,354.12	\$1,677.06	\$503.12	\$252	\$167.71
3,583,659		AWP \$1604.41	AWP \$481.32	\$244.66 Average	\$160.44 Average tests lows
			For a few dollars		
			more gets 18C		

Full Run AMC \$143

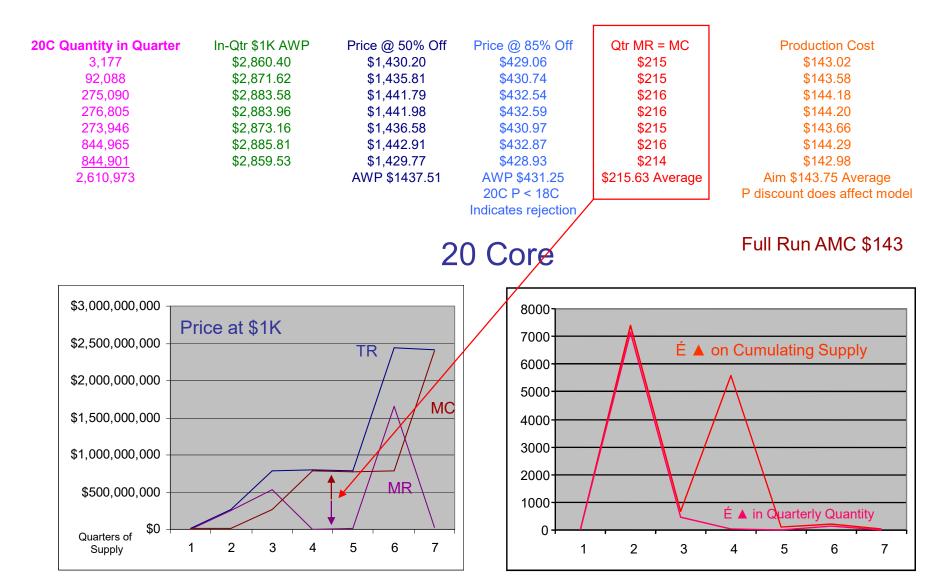
18 Core





18C top sweet spot is selling and Intel is moving mid run on discounting. Again, supply waves in next series installment will shed some light on how well moving and how well is being dumped on AMD.

Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 20 Core



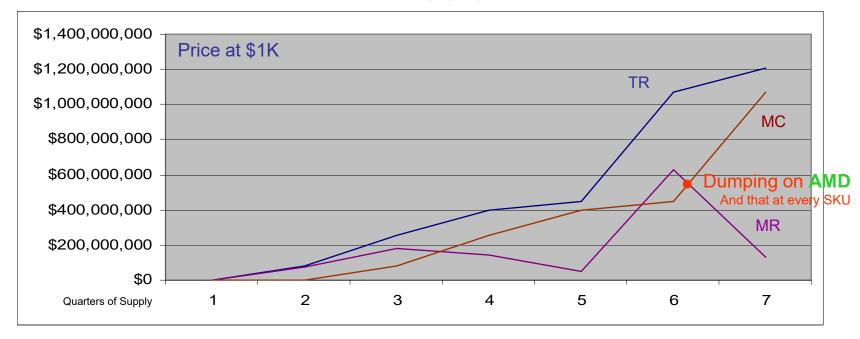
20C part appears rejected in the commercial market on Intel P ~ C maybe will be repackaged as i9

This is not a popular core count component and there are so many v4.

Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 22 Core

22C Quantity in Quarter 762 21,600 70,582 108,955 122,360 293,511 329,914 947,686	In-Qtr \$1K AWP \$3,655.00 \$3,655.00 \$3,655.00 \$3,655.00 \$3,655.00 \$3,655.00	Price @ 50% Off \$1,827.50 \$1,827.50 \$1,827.50 \$1,827.50 \$1,827.50 \$1,827.50 \$1,827.50	Price @ 85% Off \$548.25 \$548.25 \$548.25 \$548.25 \$548.25 \$548.25 \$548.25	Qtr MR = MC \$274 \$274 \$274 \$274 \$274 \$274 \$274 \$274 \$274	Production Cost \$182.75 \$182.75 \$182.75 \$182.75 \$182.75 \$182.75 \$182.75
947,686		AWP \$1827.50	AWP \$548.25	\$274.13 Average	Aim \$182.75 Average

22 Core



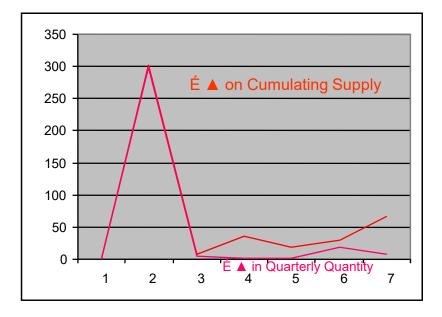
A single 22C part offers no change in SKUs mix data for price change so there's no elasticity analysis. Analyst on discounting and run end dumping suggests no one really wanted Sky Lake, in relation to Cascade Lake on Apache, but that is what was available in commercial volume. This is Willamette P4 wanting a sales analogy.

Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 24 Core

24C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost
826	\$5,760.31	\$2,880.15	\$864.05	\$432	\$288.02
98,567	\$8,039.12	\$4,019.56	\$1,205.87	\$603	\$401.96 _
263,078	\$5,290.12	\$2,645.06	\$793.52	\$397	\$264.51
253,612	\$5,395.57	\$2,697.78	\$809.33	\$405	\$269.78
233,283	\$5,505.75	\$2,752.87	\$825.86	\$413	\$275.29
689,620	\$5,659.95	\$2,829.97	\$848.99	\$424	\$283.00
<u>788,345</u>	\$5,702.93	\$2,851.47	\$855.44	\$428	\$285.15
2,327,331		AWP \$2844.62	AWP \$853.59	\$426.69 Average	Aim \$284 Average to \$213 low

24 Core



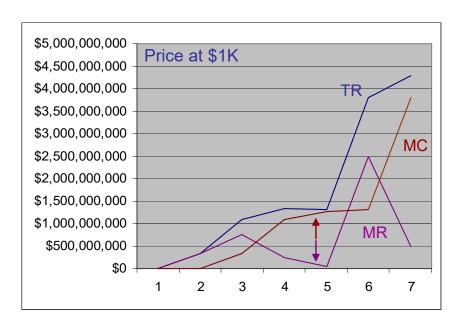


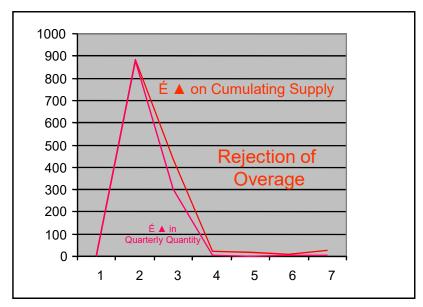
Takes a lot to move 24C/26C cache starved in relation to poke along 28C at price discount and AMD options.

Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 26 Core

26C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost
381	\$8,907.00	\$4,453.50	\$1,336.05	\$668	\$445.35
44,503	\$7,732.75	\$3,866.38	\$1,159.91	\$580	\$386.64
142,117	\$7,676.73	\$3,838.37	\$1,151.51	\$576	\$383.84
180,807	\$7,389.10	\$3,694.55	\$1,108.36	\$554	\$369.45
181,125	\$7,188.36	\$3,594.18	\$1,078.25	\$539	\$359.42
498,013	\$7,624.62	\$3,812.31	\$1,143.69	\$572	\$381.23
<u>554,110</u>	\$7,736.56	\$3,868.28	\$1,160.48	\$580	\$386.83
1,601,057		AWP \$3797.67	AWP = \$1139.30	\$589.65 Average	\$379.77 Average, Aim \$279

26 Core; now with alternate XCC cost scenario slide 125



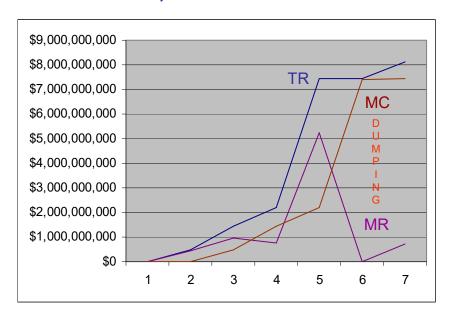


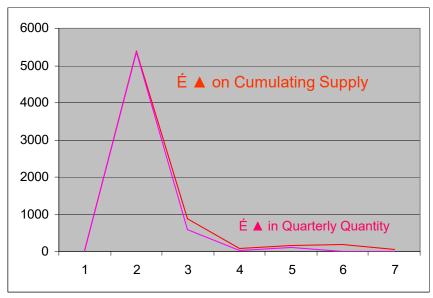
It takes a lot to move 24C and 26C cache starved part's in relation 28C price discount and AMD options. 26C is rejected until highly discounted. Moving Sky lake surplus is about buyer beware; smart v dumb.

Camp Marketing Consultancy – Sky Lake Scalable In-qtr Quantity & Price - 28 Core

28C Quantity in Quarter	In-Qtr \$1K AWP	Price @ 50% Off	Price @ 85% Off	Qtr MR = MC	Production Cost	
259	\$11,036.80	\$5,518.40	\$1,655.52	\$828	\$551.84	
43,218	\$10,694.84	\$5,347.42	\$1,604.23	\$802	\$534.74	
133,775	\$10,732.75	\$5,366.37	\$1,609.91	\$805	\$536.64	I think
202,477	\$10,829.82	\$5,414.91	\$1,624.47	\$812	\$541.49	this is
690,445	\$10,777.46	\$5,388.73	\$1,616.62	\$808	\$538.87	high
690,445	\$10,754.19	\$5,377.10	\$1,613.13	\$807	\$537.71	nign
762,932	\$10,669.28	\$5,334.64	\$1,600.39	\$800	\$533.46	
2,523,552		AWP \$5369.42	AWP \$1610.82	\$805.41 Average	\$536.94 Average AIM \$	351
					AIM \$305 average of a	all XCC
					20/22/24/26/28 Core	

28 Core; now with alternate XCC cost scenario next slide





28C volume price strategy satisfied 5 quarter's commercial demand, then is rejected, and will be dumped.

Camp Marketing Consultancy – Sky Lake Scalable XCC Cost : Price; Alternate Scenario

Scalable XCC Extreme Core Count 26 and 28 core = 698 mm² dice size.

Question 'on learning curve' are XSL 24/26/28 core dice all the same cost? Answer; likely at run end.

Broadwell era Xeon Phi 72xx co-processor = 658 mm² dice Statistically relevant sample of 1120 72xx units,

Knights Landing Phi Full Run 1K AWP \$3533.19

< 50% discount = \$1766.59 that is 1K MR = MC

< 85% discount = 1K \$529.97

@ 85% MR = MC @ \$264.98

Production Cost \$198.74

Xeon Phi 7290 Scenario Only at 658 mm^2

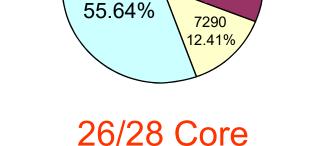
1K AWP \$6254.00

< 50% discount = \$3127 that is 1K MR = MC

< 85% discount = 1K \$938.10

@ 85% MR = MC @ \$469.05

Production Cost \$351.79



7210

7250

18.47%

7230

13.48%

26/28 Core NEW Alternate Cost Low

- @ \$0.50 to \$0.60 per mm^2 for 22 nm E5 4600 v2 \$349 to \$418
- @ \$0.45 per mm^2 = \$296.10
- @ $0.40 \text{ per } mm^2 = 279.20 \text{ or } (198.74 + 351.79) / 2 = 275.26$

Camp Marketing Consultancy – Sky Lake Scalable XCC Cost : Price; Alternate Scenario

By Product Category Assessment –

All Platinum Full Run 1K AWP = \$7603.15 / 2 = 1K MR=MC @ \$3801.57 1K AWP \$7603.15 *.15 (85% discount) = \$1140.47 for equal production weight grade SKU bundle Production Cost \$379.99 (all chopped from 28C dice)

All Gold Full Run 1K AWP = \$2506.76 / 2 = 1K MR=MC @ \$1253.38 1K AWP \$2506.76 *.15 (85% discount) = \$376.01for equal production weight grade SKU bundle Production Cost \$125.34

1K Price < 85% discount on production equal weight grade split bundle; \$80 and \$86 respectively per unit.

All Silver Full Run 1K AWP = \$533.14 / 2 = 1K MR=MC @ \$266.57

1K AWP \$533.14 *.15 (85% discount) = \$79.97 for equal production weight grade SKU bundle Marginal Cost of Reclaim MR=MC @ \$266.57 *.15 = \$39.98 ~ variable cost

All W Full Run 1K AWP = \$570.36 / 2 = 1K MR=MC @ \$285.18

1K AWP \$570.36 *.15 (85% discount) = \$85.54 for equal production weight grade SKU bundle Marginal Cost of Reclaim MR=MC \$285.18 *.15 = \$42.77 ~ variable cost

Camp Marketing Consultancy - Scalable by Grade SKU High Volume Price @ 85% off 1K

Analysis; Intel substantially cleans up industry Price < Cost harms associated with v4 / v3 / v2 Xeon generations.

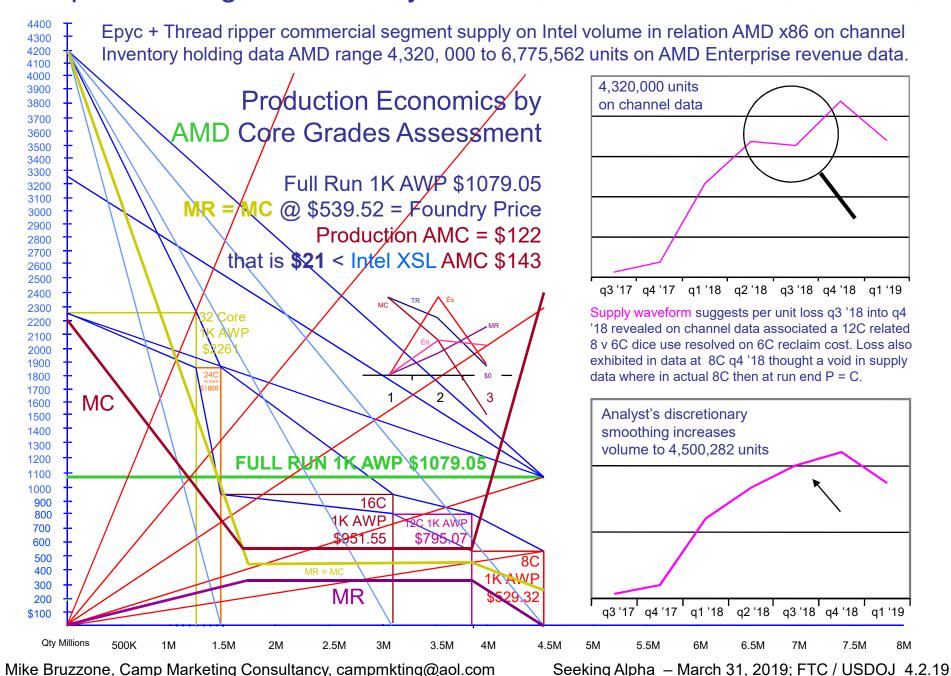
116,756 units < C; \$8,848,826 Industry Harm		L3	\$1K	85%	TR/TC AMC	Discount	Profit Type
PERF CORE	Cores, Frequency, TDP	CACHE	Price	Discount	\$143	Ratio	
8180	28C, 2.5 - 3.8, 205w	38.5 MB	\$10,009	\$1,501	\$1,358	9.50	Supra Economic
8168	24, 2.7 - 3.7, 205w	33	\$5,890	\$884	\$741	0.55	Commercial Premium
6148	20, 2.4 - 3.7, 150w	27.5	\$3,072	\$461	\$318	0.43	Commercial Premium
6154	18C, 3.0 - 3.7, 200w	24.75	\$3,543	\$531	\$388	1.22	Commercial Premium
6150	18, 2.7 - 3.7, 165w	24.75	\$3,358	\$504	\$361	0.93	Commercial Premium
6142	16, 2.6 - 3.7. 150w	22	\$2,946	\$442	\$299	0.83	Commercial Premium
6132	14, 2.6 - 3.7, 140w	19.25	\$2,111	\$317	\$174	0.58	Commercial Premium
6146	12, 3.2 - 4.2, 165w	24.75	\$3,286	\$493	\$350	2.01	Competitive
6136	12, 3.0 - 3.7, 150w	24.75	\$2,460	\$369	\$226	0.65	Commercial
8158	12, 3.0 - 3.7, 150w	24.75	\$7,007	\$1,051	\$908	4.02	Economic
6137	8, 3.9 to 4.1, 205w	24.75	\$2,460	\$369	\$226	0.25	Commercial Premium
6144	8, 3.5 - 4.2, 150w	24.75	\$2,925	\$439	\$296	1.31	Commercial Premium
6134	8, 3.2 - 3.7, 130w	24.75	\$2,214	\$332	\$189	0.64	Commercial Premium
6128	6, 3.4 - 3.7, 115w	19.25	\$1,691	\$254	\$111	0.59	Economic on Cost
8156	4, 3.6 - 3.7, 105w	16.5	\$7,007	\$1,051	\$908	8.21	Economic
5122	4, 3.6 - 3.7, 105w	16.5	\$1,221	\$183	\$40	0.04	~ MR=MC
2X DRAM 1.5	ГВ						
8180M	28, 2.5 - 3.8, 205w	38.5	\$13,011	\$1,952	\$1,809	12.65	Monopoly
8176M	28, 2.1 - 3.8, 165w	38.5	\$11,722	\$1,758	\$1,615	0.89	Commercial Premium
8173M	28, 2.0 - 3.5, 165w	38.5	\$10,409	\$1,561	\$1,418	0.88	Commercial Discount
8170M	26, 2.1 - 3.7, 165w	35.75	\$10,409	\$1,561	\$1,418	1.00	Commercial Premium
8160M	24, 2.1 - 3.7, 150w	33	\$7,704	\$1,156	\$1,013	0.71	Commercial Premium
6140M	18, 2.3 - 3.7, 140w	24.75	\$5,448	\$817	\$674	0.67	Commercial Premium
6142M	16, 2.6 - 3.7, 150w	22	\$5,949	\$892	\$749	1.11	Commercial Premium
6134M	8, 3.2 - 3.7, 130w	24.75	\$5,217	\$783	\$640	0.85	Commercial Premium

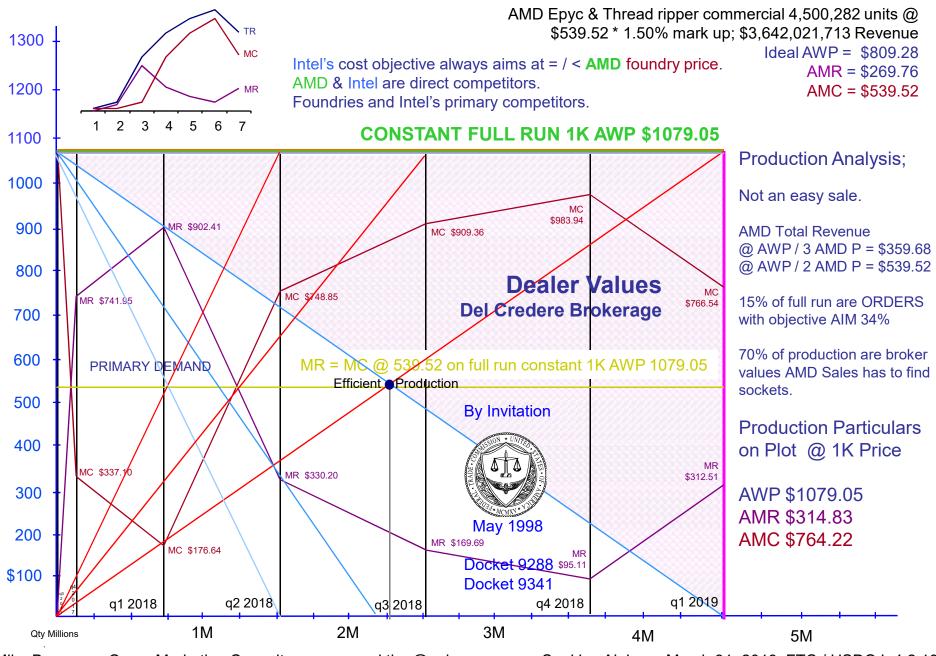
Camp Marketing Consultancy - Scalable by Grade SKU High Volume Price @ 85% off 1K

116,756 units PERF CORE Perf / watt	< C; \$8,848,826 Industry Harm Cores, Frequency, TDP	L3 CACHE	\$1K Price	85% Discount	TR/TC AMC \$143	Discount Ratio	Profit Type
8176	28, 2.1 - 3.8, 165w	38.5	\$8,719	\$1,308	\$1,165	8.15	Economic
8170	26, 2.1 - 3.8, 165w	35.75	\$7,405	\$1,308	\$968	0.13	Commercial
8164	26, 2.0 - 3.7, 150w	35.75	\$6,114	\$917	\$774	0.80	Commercial Discount
8160	24, 2.1 - 3.7, 150w	33.75	\$4,702	\$705	\$774 \$562	0.80	Commercial Discount
6152	22, 2.1 3.7, 140w	30.25	\$3,655	\$705 \$548	\$302 \$405	0.73	Commercial
6138	20, 2.0 - 3.7, 125w	27.5	\$3,033 \$2,612	\$346 \$392	\$ 4 05 \$249	0.72	Commercial Discount
6140	18, 2.3 - 3.7, 140w	24.75	\$2,012 \$2,445	\$392 \$367	\$249 \$224	0.01	Commercial Discount
8124	16, 3.0 to 3.5, 150w	24.75	\$2,445 \$3,115	\$467	\$224 \$324	1.45	Commercial
6130	·	24.75 22	\$3,113 \$1,894	\$467 \$284	\$324 \$141		Profit Sacrafice
8153	16, 2.1 - 3.7, 125w 16, 2.0 - 2.8, 125w	22	\$3,115	\$264 \$467	\$141 \$324	0.44 2.30	Competitive
5120	14, 2.2 - 3.2, 105w		\$3,113 \$1,555	\$ 4 67 \$233	\$324 \$90	0.28	Competitive
5120	14, 2.2 - 3.2, 103w 14, 2.0 to 2.8, 107w	19.25 19.25	\$1,900	\$233 \$285	\$142	1.57	Commercial Premium
6126	12, 2.6 to 3.7, 125w	19.25	\$1,900 \$1,776	\$266	\$142 \$123	0.87	Profit Sacrafice
5118	12, 2.8 to 3.7, 125w 12, 2.3 - 3.2, 105w	19.25	\$1,770	\$200 \$191	\$123 \$48	0.87	
4116		16.5	\$1,273 \$1,002	\$191 \$150	ъ40 \$7	0.39 0.15	Variable Cost MR=MC
	12C, 2.1 - 3.0, 85w				•		
5115	10, 2.4 - 3.2. 85w	13.75	\$1,221 \$694	\$183	\$40	0.07	Variable Cost
4114	10, 2.2 - 3.0, 85w	13.75	\$69 4 \$501	\$104	-\$39	-0.97	Below Cost
4110	8, 2.1 - 3.0, 85w	11	\$301 \$417	\$75	-\$68	1.74	Below Cost
4108	8, 1.8 - 3.0, 85w	11		\$63	-\$80	1.19	Below Cost
3106	8, 1.7, 85w	11	\$306	\$46	-\$97	1.21	Below Cost
3104	6, 1.7 - 3.0, 85w	8.25	\$213	\$32	-\$111	1.14	Below Cost
4112	4, 2.6 - 3.0, 85w	5.5	\$473	\$71	-\$72	0.65	Below Cost
OMNIPATH	Cores, Frequency, TDP	CACHE	#0.074	#4.004	04.400	0.07	D 510 5
8176F	28, 2.1 - 3.8, 173w	38.5	\$8,874	\$1,331	\$1,188	0.87	Profit Sacrafice
8160F	24, 2.1 - 3.7, 160w	33	\$4,856	\$728	\$585	0.49	Commercial Discount
6148F	20, 2.4 - 3.7, 150w	27.5	\$3,227	\$484	\$341	0.58	Commercial Premium
6138F	20, 2.0 - 3.7, 135w	27.5	\$2,767	\$415	\$272	0.80	Commercial
6142F	16, 2.6 to 3.7 160w	22	\$3,101	\$465	\$322	1.18	Commercial Premium
6130F	16, 2.1 - 3.7, 135w	22	\$2,049	\$307	\$164	0.51	Profit Sacrafice
5117F	14C 2.0 to 2.8, 113w	19.25	\$2,111	\$317	\$174	1.06	Competitive on Cost
6126F	12, 2.6 - 3.7, 135w	19.25	\$1,931	\$290	\$147	0.84	Commercial

Camp Marketing Consultancy - Scalable by Grade SKU High Volume Price @ 85% off 1K

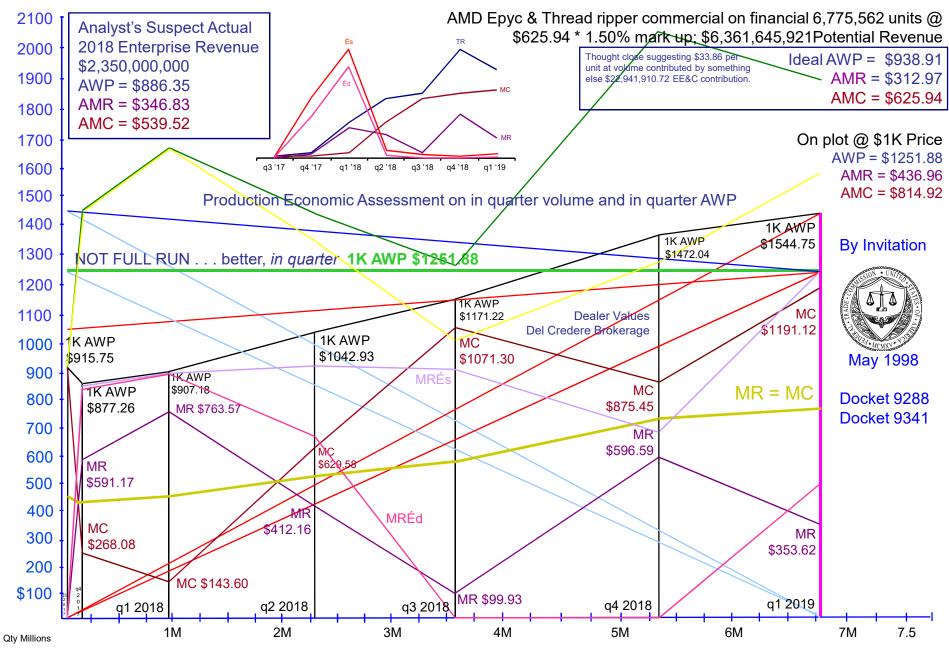
PERF CORE	C; \$8,848,826 Industry Harm Cores, Frequency, TDP	L3 CACHE	\$1K Price	85% Discount	TR/TC AMC \$143	Discount Ratio	Profit Type
10 Year Life							
8160T	24, 2.1 - 3.7, 150w	33	\$4,936	\$740	\$597	4.18	Competitive on Cost
6138T	20, 2.0 - 3.7, 125w	27.5	\$2,742	\$411	\$268	0.45	Commercial
6130T	16, 2.1 - 3.7, 125w	22	\$1,980	\$297	\$154	0.57	Profit Sacrafice
5120T	14, 2.2 - 3.2, 105w	19.25	\$1,727	\$259	\$116	0.75	Commercial
5119T	14, 1.9, 85w	19.25	\$1,555	\$233	\$90	0.78	Commercial
6126T	12, 2.6 - 3.7, 125w	19.25	\$1,776	\$266	\$123	1.37	Profit Sacrafice
4116T	12, 2.1 - 3.0, 85w	16.5	\$1,112	\$167	\$24	0.19	MR=MC
4114T	10, 2.2 - 3.0, 85w	13.75	\$773	\$116	-\$27	-1.14	Below Cost
4109T	8, 2.0 - 3.0, 79w	11	\$501	\$75	-\$68	2.51	Below Cost
Xeon W							
2195	18/36, 2.3 - 4.3, 140w	24.75	\$2,553	\$383	\$240	1.68	MR=MC
2175	14/28, 2.5 - 4.3, 140w	19.25	\$1,947	\$292	\$149	0.62	Commercial Premium
2155	10/20, 3.3 - 4.5 140w	13.75	\$1,440	\$216	\$73	0.49	MR=MC
2150B Apple	10/20 3.0 - 4.5 120w	19.25?	\$1,440	\$216	\$73	1.00	MR=MC
2145	8/16, 3.7 - 4.5, 140w	11	\$1,113	\$167	\$24	0.33	Profit Sacrafice
2140B Apple	8./16, 3.0 - 4.5, 120w	13.75?	\$1,113	\$167	\$24	1.00	Profit Sacrafice
2135	6/12, 3.7 - 4.5, 140w	8.25	\$835	\$125	-\$18	-0.74	Below Cost
2133	6/12, 3.6 - 3.9, 140w	8.25	\$617	\$93	-\$50	2.84	Below Cost
2125	4/8, 4.0 - 4.5, 120w	8.25	\$444	\$67	-\$76	1.51	Below Cost
2123 120W	4/8, 3.6 - 3.9, 120w	8.25	\$294	\$44	-\$99	1.29	Below Cost
2104 120W	4/8, 2.9 GHz, 120w	8.25	\$255	\$38	-\$105	1.06	Below Cost
2102 120W	4/8, 3.0 GHz, 120W	8.25	\$202	\$30	-\$113	1.08	Below Cost
SL Extremes							
i9 7980XE	18/36, 2.6 - 4.2, 165w	16.5	\$1,999.00	\$300	\$157	1.10	Just Above Cost
i9 7960X	16/32, 2.8 - 4.2, 165w	16.5	\$1,699.00	\$255	\$112	0.71	~ MR=MC
i9 7940X	14/28, 3.1 - 4.3, 165w	16.5	\$1,399.00	\$210	\$67	0.60	Profit Sacrafice
i9 7920X	12/24, 2.9 - 4.3, 165w	16.5	\$1,199.00	\$442	\$299	4.47	OEM Rip Off
i9 7900X	10/20, 3.3 - 4.3, 140w	16.5	\$999.00	\$150	\$7	0.02	Commercial





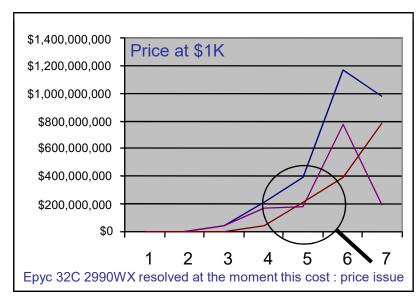
Mike Bruzzone, Camp Marketing Consultancy, campmkting@aol.com

Seeking Alpha – March 31, 2019; FTC / USDOJ 4.2.19

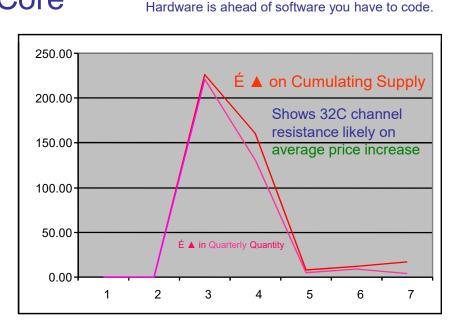




32 Core



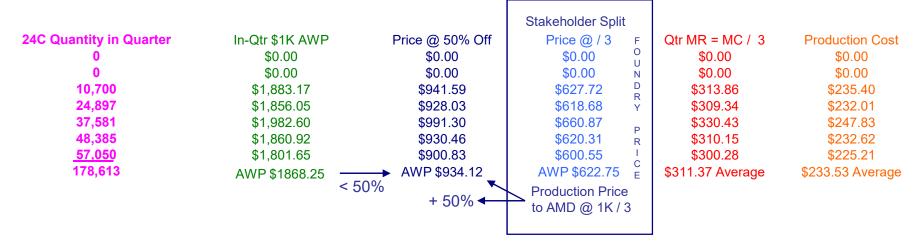
to customer. 1/3 * 1.5 mark up = 50% off 1K price.



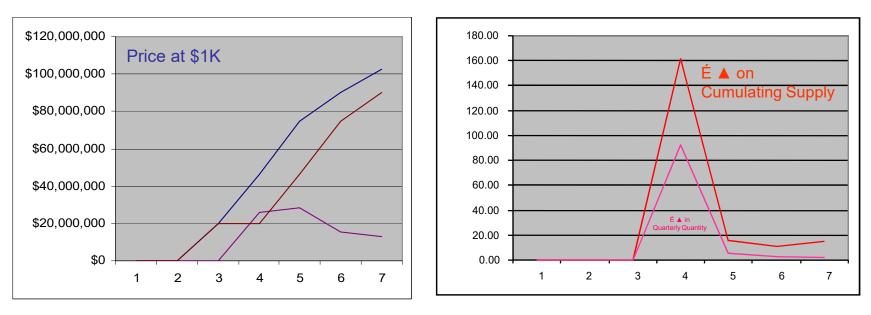
2990WX is a save but workstation demand is restrained.

Pulls well then stalls some.

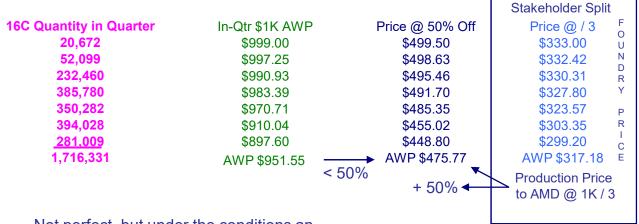
Oh I got it, data center wanted fast 32C 1P, AMD got rent, for one quarter that is a long time first time, then discounted.



24 Core is 6C x 4 or 8C x 3 dice?



24 Core is quasi rejected, likely based on 6C reclaim and 12C establishes channel rejection.



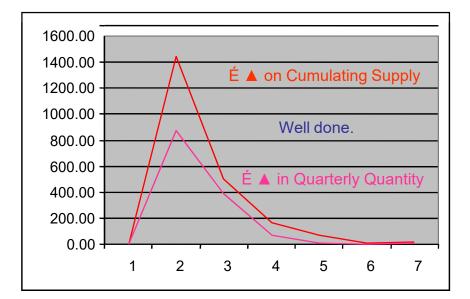
Qtr MR = MC / 3	Production Cost
\$166.50	\$124.88
\$166.21	\$124.66
\$165.15	\$123.87
\$163.90	\$122.92
\$161.78	\$121.34
\$151.67	\$113.76
\$149.60	\$112.20
\$158.59 Average	\$118.94 Average

Not perfect, but under the conditions an outstanding accomplishment. Well done AMD.

16 Core

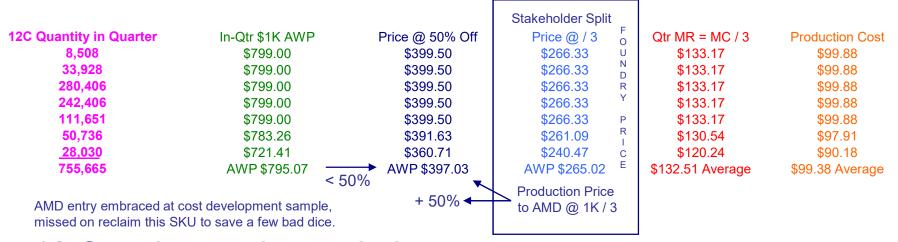
Appears production stakeholders might do better margin wise. Presents an AMD contract procurement question; whether or not some percent of foundry/package stakeholder marginal cost optimization is passed through to AMD?





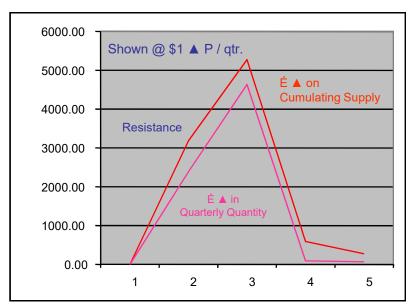
For one perfect example see Slide 109 is also a much easier product run to administer.

Demanded; good elastic run on price drop. There is a MR sacrifice on volume cost increase.

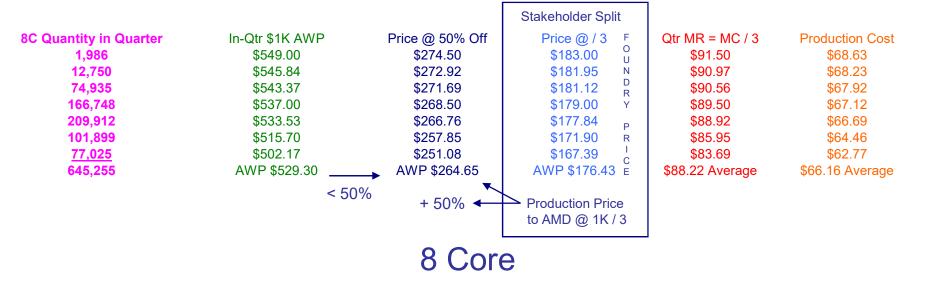


12 Core is non demanded; does 2x 6C reclaim CCX influence the decision?

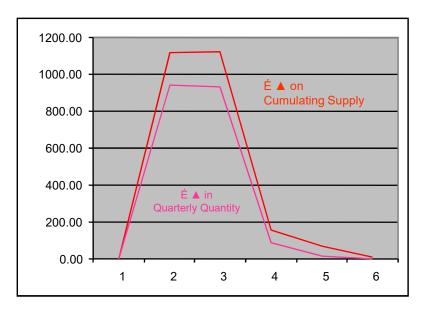




No one wants 12C is absolutely rejected by the channel. I had to gang last three quarters to get a result. **AMD** minimally gives away 190,417 units loss of (\$14,594,812) up to the entire short run bundled in as sales incentive; (\$199,826,938). Or sold at cost \$132 to the development community stepping up from 8C but everyone I think went for TR 16C on 2 x 8C.







AMD cleared 8C that is a development (give-away); I suspect a push, not a loss, \$176 each.

Camp Marketing Consultancy

"The semiconductor industry has been reluctant to create any model that is not directly used in the development path. That is to be expected. Within most industries, *no additional work will be done unless it is demanded*, such as by a regulatory body, or customer, or has economic value.

When a model is created for usage outside of the primary development chain, there are problems with keeping that model in sync and making sure it is available at the time when it can provide the most value.

The creation of abstract models for well-contained blocks, such as processors, has been very successful. These models have a long lifetime, provide adequate fidelity for software development and when coupled to models for other aspects of the system enable new kinds of analysis. The digital twin (compliment modeling) brings a new dynamic into the equation.

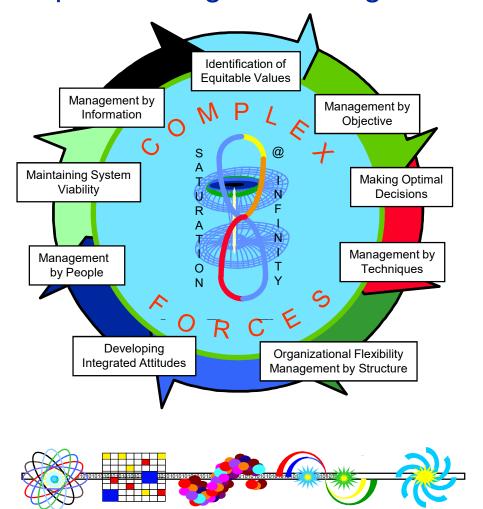
Both rely on models that are predictable and repeatable.

What this means is that two input events, that supposedly happen simultaneously, will always happen sequentially, one of them happens at an immeasurably small time ahead of the other. This is how the technology works. But that is not true in the real world and the digital twin is looking at bringing real-world stimulus into analysis. Sometimes those two inputs will change order and sometimes they will happen at exactly the same time. We may not have the necessary notions of coverage to handle such differences between the real world and our perfect simulation world.

The real world can be messy. It may be necessary to rethink some analysis tools when this happens."

Brian Bailey, The Value of a Model, Technology Editor / EDA, Semiconductor Engineering, March 29, 2019

Camp Marketing Consulting















Move beyond the box they paint for you.

To give intelligent, responsible, and capable direction for sustainable business within industry for society.

As a prerequisite for planning that serves customers and society as efficiently and effectively as possible.

Understand technology and business possibilities to meet the needs of customers and society as *cost effectively* as possible.

With exemplar stewardship cognizant of social welfare.

By enlarging the capabilities of the operation; melding together people, process, design, fabrication and utility knowledge for competitive advantage.

To assess equal opportunity for complimentary participation; partnership, cost and reward sharing.

To recognize the obligation to investors; planning for an *adequate* economic return on their investment.

To address economic responsibility as a design and process steward in the countries of industry operation.

To further the well being of the global electronics industry as an advocate of responsible, stable and sustainable growth models that make economic sense.

Kaizen culture, practitioner of Benkyou, no politics, get the job done. Specializing in operational research, market relations, segment management, product evangelism, planning & tactical implementation, competitor and cluster strategy, product commercialization.

