#### **EXHIBIT F Part 2**



At trial, Marvell offered a new damages theory based on false testimony from Drs. Sutardja and Wu

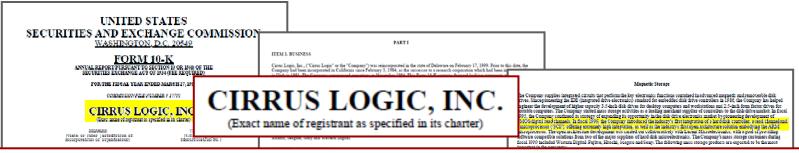
#### Marvell was not first to build an SoC

- Q. Miss Lawton, what was the basis of your answer that Dr. Sutardja's testimony regarding Marvell's being the first SOC -- company to develop the SoC was incorrect?
- A. The deposition testimony of Marvell's vice-president of sales, Mr. Brennan, testified that the first company to develop SoC was Cirrus Logic. I also looked at press releases, and after Dr. Sutardja testified, I checked again, just to verify one more time. And I looked at the Cirrus Logic 10-K's, and they reported the same thing; that in fact, Cirrus Logic was the first company in the world to introduce

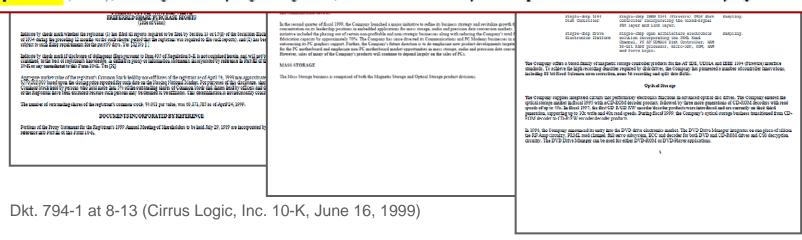


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#### Marvell was not first to build an SoC



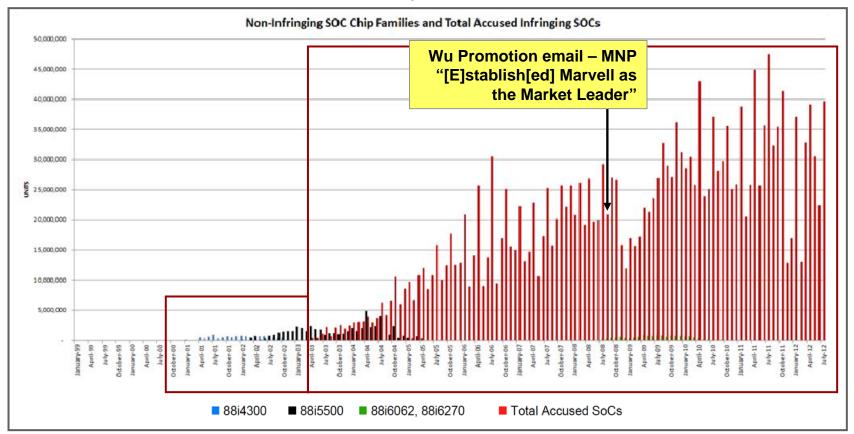
CMOS digital read channels. In fiscal 1999, the Company introduced the industry's first integration of a hard disk controller, a read channel and a microprocessor ("3CI"), offering extremely high integration, as well as the industry's first open architecture solution embodying the ARM





At trial, Marvell offered a new damages theory based on false testimony from Drs. Sutardja and Wu

CMU's invention, not Marvell's SoCs, "firmly establish[ed] Marvell as the market leader..."





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Zi-Ning has been with Marvell for the past 9 years working in the Data Storage Signal Processing team. In the past few years, Zi-Ning has helped me in the definition of our Read Channel roadmap along with his main responsibility of developing our Read Channel architectures and algorithms. In addition, Zi-Ning has been involved in many technical engagements with our Data Storage customers to strengthen Marvell's position with existing customers and to establish new relationships with potential customers. Working with our Read Channel VLSI team and our Data Storage SOC design teams, Zi-Ning and his DSP team have been instrumental in the development of the Media Noise Processor (MNP) and Advance ECC (AECC) for our Data Storage products. The introduction of these technologies has helped firmly establish Marvell as the market leader in the HDD IC business.

P-703 at 2



At trial, Marvell offered a new damages theory based on false testimony from Drs. Sutardja and Wu

## Mr. Hoffman falsely stated Ms. Lawton did not consider SoC integration in her report or testimony

Q. And did Miss Lawton take that factor, SoC integration

into account in reaching her amount here?

A. I didn't see it in her report or her testimony.

MISS GAY: Pass the witness, Your Honor.

THE COURT: Thank you, Miss Gay.

Mr. McElhinny, cross. Will you be using the flip

chart?

Tr. 12/12/12 at 245:9-15



At trial, Marvell offered a new damages theory based on false testimony from Drs. Sutardja and Wu

## Ms. Lawton addressed SoC integration extensively in her report and testimony

 An entire section of Ms. Lawton's report addresses SoC integration and whether it accounts for Marvell's successes

C. THE SOC MARKET AND MARVELL'S SOCS Lawton Report, Dkt. 367-2, at 108-33

 Ms. Lawton investigated whether SoC integration caused Marvell's success and determined it did not

As such, one of the important damages issues in this case is the position that Marvell achieved in the SoC market and the extent to which it was aided by the accused infringing technology. To

Finally, it should be noted that Marvell's reported non-infringing SoCs total 76.6 million units shipped (11 part numbers). In contrast, Marvell's reported units that include an MNP, EMNP or NLD total more than 1.4 billion units shipped (102 part numbers). 742



At trial, Marvell offered a new damages theory based on false testimony from Drs. Sutardja and Wu

• Ms. Lawton addressed SoC integration in her royalty analysis













Lawton Report, Dkt. 367-2 at 525-26, 528, and 537-39

 Ms. Lawton addressed SoC integration several days before Mr. Hoffman testified

12/7/1 Tr. at 106-08, 114, 122-32 & P-953



#### Dr. Sutardja testified that "must" usually means "not a must"

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thinking about it. It's the way -- it's the way we are. So
when -- so our people use this word must and it become -- now
become miss -- miss -- misinterpreted as something else.

Q Let me show you --
A And many things we say is must is not a must.
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12/11/12 Tr. at 153:1-5



#### Marvell's documents refute Dr. Sutardja's testimony

have the IBM dual parity (same as Redwing) AND has an MNP!! I put in staff that we

must have MNP in 7500 ASAP to be competitive - no one disagreed.

June 2002, P-320

3. 5575+: We have pulled in the MNP. Our previous plan was 5575 + 10-bit for 40GB generation

and 5575+ for 60GB generation, but we have aggressively planned to pull in the

MNP to

have both available for the 40GB drives. We need to have this part to Toshiba by early

to mid August!!

April 2002, P-304

As you know, MNP for C7500 is critical requirement for Hitachi and Fujitsu due to lack of 10-bit ECC in their HDC to be supplied by Qlogic. Hitachi has told

August 2002, P-328

If I remember correctly, you have sent Samsung a report on AECC performance in the past. This report has plots of MNP+PECC vs. MNP+AECC. We did not do comparison with linear Viterbi since now days the drives are dominated by media noise, and MNP or NLV is a must. I will try to dig up some slides on NLV performance. But basically, everything is the same as with MNP. The AECC algorithm has not changed, we just switch the source of soft info (from MNP to NLV),



### Mr. O'Dell refuted Dr. Sutardja's testimony regarding E[xecutive]-Staff meetings

#### Dr. Sutardja

# Q Sure. This meeting in June of 2002, the weekly E-staff meeting, was that a meeting that you attended? A I -- did you say this is an E-staff meeting? Q It's -- it says -- E-staff summary is the title. A Oh, okay, I get it. No, this is not my meeting. Q It's not your meeting? A Yes, it's not my meeting. Q What is E-staff? A E-staff -- it says E-staff summary. Q Yes. What is E-staff? Do you know, sir, what E-staff is? A The meetings of my staff members.

#### Mr. O'Dell

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Q And the E-staff is a weekly meeting where all the executives get together; isn't that right, sir?
A That's correct.
Q And even the CEO is typically there, isn't he?
A Yes, he is.
Q Would you be surprised to learn that Dr. Sutardja testified that he doesn't attend those meetings?
A Yes, I would. But in this time frame he did attend those meetings.
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12/17/12 Tr. at 233:24-234:7



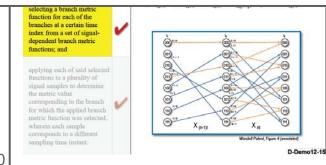
Dr. Proakis's Declaration 11/2/11 (incorporated in his report) states that Worstell is a single function

34. Based on the Court's construction of "function," Worstell's "further modified"

branch metric is a "single" branch metric function and not a "set" of branch metric functions.

Dr. Proakis' trial opinions directly contradicted his prior sworn declaration and expert report

The Worstell Patent Discloses "selecting...a set of signal-dependent branch metric functions"

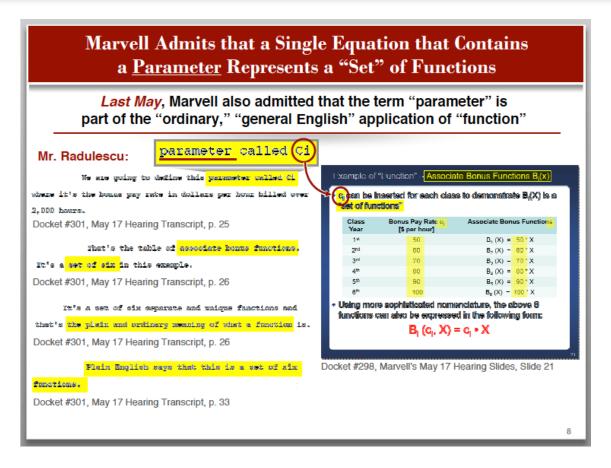


12/17/12 Tr. at 83, 84:10-20





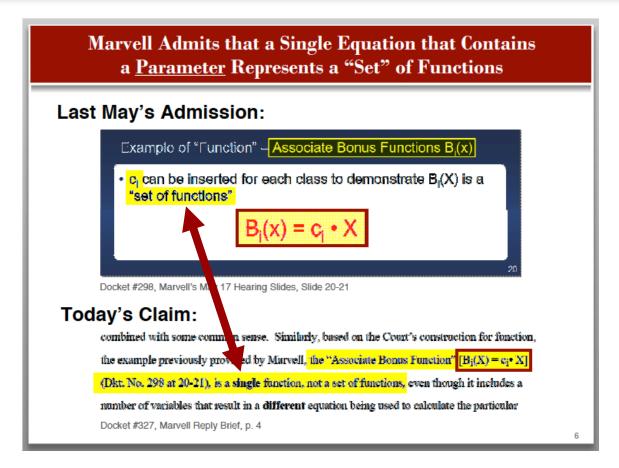
Marvell's second summary judgment motion on invalidity was based solely on contradicting positions Marvell previously took



Dkt. 333-1 at 8



Marvell's second summary judgment motion on invalidity was based solely on contradicting positions Marvell previously took



Dkt. 333-1 at 6



Marvell compounded its misconduct by filing a meritless motion for reconsideration

- Marvell filed a "Pro Forma" motion for reconsideration Dkt. 339
- The Court properly characterized Marvell's arguments in that motion as "disingenuous," "without merit," and violative of Fed. R. Civ. P. 1.

Dkt. 423 at 3 n.2, 8-10



Marvell's misconduct regarding its inequitable conduct defense

#### CMU expended significant resources defending itself

MAY 2011 Therasense issues APR 2012 Dr. Proakis' deposition on inequitable conduct

APR 2012 CMU moves for Summary Judgment

MAR 2012 Dr. McLaughlin's deposition on inequitable conduct MAY 2012 Marvell responds to Summary Judgment Motion and Moves to "Amend" to "streamline the case"

JAN 2012 Dr. Proakis' inequitable conduct report

MAY 2012 CMU Opposes Marvell's Motion to "Amend"

2011 2012



Marvell's misconduct regarding its inequitable conduct defense

## Marvell's attempt to justify its misconduct as a response to a "change in the law" fails

refute these facts. And Marvell's motion was granted. (Dkt. 115.) Subsequently, however, the Federal Circuit issued an opinion that substantially changed the law regarding claims of inequitable conduct predicated on the non-disclosure of prior art references. *Therasense, Inc. v. Becton, Dickinson, & Co.*, 649 F.3d 1276 (Fed. Cir. 2011). Marvell dropped its inequitable conduct defense after evaluating this change in the law. Thus, though CMU now labels

Dkt. 835 at 14

- Marvell has proffered inconsistent justifications for dropping the claim.
   Compare Dkt. 387, with Dkt. 835
- Marvell did not voluntarily dismiss its claim with prejudice.



On the eve of trial, Marvell's falsely cried "emergency"

Marvell filed an "emergency" motion on alleged "extraterritorial sales" that was merely an untimely motion for reconsideration

- The Court properly faulted Marvell for disguising its motion for reconsideration as an emergency, ignoring the "extensive briefing and argument on the issue," and trying to "block CMU's use of Marvell sales information" "two days before the start of trial." Dkt. 672 at 2, 4-5
- As the Court found, Marvell's motion (again) misstated CMU's damages theory

<sup>12</sup> To be clear, CMU does not seek damages from alleged infringement of the Accused Chips that are never used in the United States, because the Court has held the extra-territorial sales are not infringing (Docket No. 441), it seek damages on the infringement from the U.S. based sales cycle, and has chosen to quantify these damages by applying a per chip royalty rate on all Accused Chips produced under the sales cycle. (*Id.*). Marvell will have a full opportunity at trial to argue that this quantification is unreasonable.

# The Court Should Determine the Fee Award Using the Procedure CMU Proposed

## The Court Should Determine the Fee Award Using the Procedure CMU Proposed

#### Marvell has not objected to CMU's proposed procedure



"[T]he district court's consideration of a fee petition 'should not result in a second major litigation."

Webb v. County Bd. of Educ., 471 U.S. 234, 244 n.20 (1985) (quoting Hensley v. Eckerhart, 461 U.S. 424, 437 (1983))



The fee award procedure should not "lead to further delay and encourage additional motion practice on a case that is [over] four years old and has generated voluminous docket activity."

Univ. of Pitt. v. Varian, No. 2:08-cv-01307 (W.D. Pa. May 7, 2012)

# Carnegie Mellon University's Presentation on Motion for Attorneys' Fees Pursuant to 35 U.S.C. § 285 – Dkt. 810

May 1 - 2, 2013



Carnegie Mellon