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Transcript produced on CAT system)25MR. GASEY: Right. I think your clerk hasPage 2Page 2Page 2Page 4Page 2Page 4Page 2Page 2Page 4Page 2Page 4Page 2OR THE DEFENDANT:MR. JOSH A. KREVITTGibson, Dunn & Crutcher3MR. ARK N. RETTERMR. MARK N. RETTERMR. MARK N. RETTERSatist 1100Balo Mark N. RETTERSatist 1100Balo Mark N. RETTERMR. H. MARK LYONColspan="2">Satist 1100Balo Alo, California 94304THE COURT: Mr. Krevitt or Mr. Gasey, whatColspan="2">Are New a couple issues. IMR. KREVIT: We have a couple		(Proceedings recorded by mechanical stenography,	24	THE COURT: Last witness.
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 MS. ANY E. LaVALLE Gibson, Dunn & Crutcher 2100 McKinney Avenue Suite 1100 Dallas, Texas 75201 MR. H. MARK LYON Gibson, Dunn & Crutcher 1881 Page Mill Road Palo Alto, California 94304 * * * * * * Palo Alto, California 94304 * * * * * * Palo Alto, California 94304 * * * * * * Palo Alto, California 94304 * * * * * * Palo Alto, California 94304 * * * * * * Palo Alto, California 94304 * * * * * * Palo Alto, California 94304 * * * * * Palo Alto, California 94304 * * * * * MR. KREVITT: We have a couple issues. I dow e have this moming? MR. KREVITT: We have a couple issues. I don't know if the Plaintiffs have any issues. MR. KREVITT: We have a couple issues. I don't know if the Plaintiffs have any issues. MR. RETER: Thank you, Your Honor. Yes, Mr. Reiter. MR. GASEY: He is en route, Your Honor. THE COURT: Let's do something else. We MR Alt haven't the foggiest what the Defendants 	4	MR. MARK N. REITER	5	is and I'm not in any way suggesting the Plaintiffs
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	Page 117		Page 119
1	right: you can't not use one part and then use the whole	1	MR. VICKREY: Subject to the admission of
2	part and say it's not reliable?	2	the exhibits.
3	A. I didn't say it's not reliable. I said it's	3	MR. GASEY: We'll do the exhibits at the
4	understated, and I think I indicated what my	4	end of the day.
5	O. No. we're talking about geography. We're not	5	THE COURT: We all understand how that
6	talking about the total numbers. We're talking about	6	happens, ves.
7	you're saying that the numbers counting where the IP	7	Who am I looking to?
8	address is, that number is not reliable: is that right?	8	MR. REITER: Your Honor, if we can do
9	A. That's correct.	9	(Bench conference.)
10	O. But when you add that number, whatever it is.	10	MR. HILL: Mr. Reiter and I in past trials
11	plus what's outside the United States to get the total.	11	have stipulated at this point that both sides agree that
12	that number is reliable?	12	any Rule 50 motions were timely made, preserved. To
13	A. Based on my understanding of the documents, in	13	make maximum use of the jury's time, we go on into the
14	terms of calculating a damage amount.	14	Defendants's case.
15	O. But with Novell, with Novell, sir, they	15	MR. REITER: We'll make a motion at the
16	separated out, they told you the percentage that was in	16	break.
17	the United States and what was outside the United	17	THE COURT: Good idea. And it's on the
18	States, right?	18	record that we all understand the motion.
19	A. It had a percentage of use in the United	19	MR. REITER: Everything is preserved.
20	States.	20	THE COURT: It's deemed made, and we'll
21	O. And you used that number: you relied on that?	21	actually make it later.
22	A. It was a lower number than Novell's worldwide	22	MR. REITER: On all issues?
23	sale percentage.	23	THE COURT: On all issues.
24	O. But you used the geographic information that	24	You know, I have to say sometimes the
25	Novell provided?	25	attorneys actually help. The lawyers help us a little
	Page 1181		Page 120
-	Page 118		Page 120
1	A. Yes.	1	Page 120 bit. They move things along quicker.
1 2	A. Yes. Q. And we talked about this. Dr. Putnam	1 2	Page 120 bit. They move things along quicker. MR. KREVITT: Would you like the
1 2 3	A. Yes. Q. And we talked about this. Dr. Putnam provided Red Hat provided to you a specific	1 2 3	Page 120 bit. They move things along quicker. MR. KREVITT: Would you like the Defendants to proceed at this time, Your Honor?
1 2 3 4	A. Yes. Q. And we talked about this. Dr. Putnam provided Red Hat provided to you a specific identification of the geography for the Red Hat numbers,	1 2 3 4	Page 120 bit. They move things along quicker. MR. KREVITT: Would you like the Defendants to proceed at this time, Your Honor? THE COURT: I would indeed.
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1 2 3 4 5 6	A. Yes. Q. And we talked about this. Dr. Putnam provided Red Hat provided to you a specific identification of the geography for the Red Hat numbers, didn't it? A. As I said, I don't know what that document	1 2 3 4 5 6	Page 120 bit. They move things along quicker. MR. KREVITT: Would you like the Defendants to proceed at this time, Your Honor? THE COURT: I would indeed. (Witness sworn.) THE COURT: Let's take one second to stand
1 2 3 4 5 6 7	A. Yes. Q. And we talked about this. Dr. Putnam provided Red Hat provided to you a specific identification of the geography for the Red Hat numbers, didn't it? A. As I said, I don't know what that document indicated.	1 2 3 4 5 6 7	Page 120 bit. They move things along quicker. MR. KREVITT: Would you like the Defendants to proceed at this time, Your Honor? THE COURT: I would indeed. (Witness sworn.) THE COURT: Let's take one second to stand up and stretch a minute.
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	Page 121		Page 123
1	THE COURT: You may proceed.	1	Q. You founded the company, Cygnus?
2	MR. KREVITT: Ready?	2	A. I did found the company in 1989. It was
3	THE WITNESS: I am.	3	actually the world's first company to provide commercia
4	MICHAEL TIEMANN, DEFENDANTS' WITNESS, PREVIOUSLY SWOI	RN 4	support for open-source software.
5	DIRECT EXAMINATION	5	Q. How old were you in 1989?
6	BY MR. KREVITT:	6	A. I was 25 years old.
7	Q. Can you state your name for the record, please.	7	Q. And you said you were the first company in the
8	A. I'm Michael Tiemann.	8	world to provide support for open source; is that right?
9	Q. And where are you currently employed?	9	A. That's correct. It was a very new idea at the
10	A. I'm currently employed at Red Hat,	10	time.
11	Incorporated.	11	Q. Was it considered a widely accepted idea at the
12	Q. And what is your position, Mr. Tiemann?	12	time?
13	A. My position is Vice President of Open Source	13	A. A lot of people told me I was crazy, and I
14	Affairs.	14	sometimes thought so myself, but over the years, I
15	Q. I was afraid you were going to contradict me,	15	believed that this was the right thing to do. And I
16	and we were going to have a problem right at the outset.	16	think history has proved that that was a great model for
17	What do you do in that position?	17	promoting technology and software.
18	A. In that position, I travel around the world and	18	Q. Tell us a little bit more about that for a
19	I talk with executives from the public and private	19	moment, if you would, Mr. Tiemann. Explain to the jury
20	sectors about open source technology, strategy, and	20	why it is that in 1989, when everyone else in the world
21	policy.	21	thinks you're nuts, you think it's a good idea to be in
22	Q. Where is Red Hat located?	22	the open-source space?
23	A. Red Hat's corporate headquarters are in	23	A. Well, it's based on experiences that I had
24	Raleigh, North Carolina, on the campus of North Carolina	24	working on open-source software. I first encountered
25	State University, but we have offices worldwide.	25	open source in 1987 working at microelectronics in
	Page 122		Page 124
1	Q. Why is Red Hat located on the campus of a	1	Austin, Texas.
2	college?	2	Q. Go on.
3	A. Well, there's a lot of great students, a lot of	3	A. And that company was actually a group of
4	the young minds, a lot of new ideas. And the interplay	4	companies that got together to try to develop new models
5	between business and education, I think, benefits both	5	of innovation as a way of creating new technologies.
6	of us.	6	And, in fact, Congress passed a law to help them
7	Q. How long have you been at Red Hat?	7	establish those new models of innovation, and that's
8	A. Since January of 2000, a little over ten years.	8	where I worked in 1987.
9	Q. How long has Red Hat been in business; do you	9	Q. Why did Congress pass a law encouraging
10	know?	10	companies to work together to develop new innovations?
11	A. Red Hat has been in business since 1993.	11	A. Well, in 1984, we were also having economic
12	Q. How many employees does Red Hat have?	12	difficulties. The U.S. was falling behind competitively
13	A. We have about 3,200 employees worldwide.	13	with the Japanese and other semiconductor manufacturers,
14	Q. Is Red Hat a growing company?	14	and it was believed at the time that some of the U.S.
15	A. Yes, we are growing. In the last fiscal year,	15	laws were making it difficult for American companies to
16	we added, I think, over 600 jobs during one of the worst	16	successfully compete in the global marketplace.
17	economic times I can remember.	17	And MCC got what they wanted, which was
18	Q. And when you started working at Red Hat, right	18	the ability for companies to collaborate on research and
19	before that, what had you been doing?	19	development and try and develop new ideas and bring them
20	A. I was working at a company called Cygnus	20	to market.
21	Solutions.	21	Q. What do you mean falling behind?
22	Q. What was Cygnus?	22	A. Well, where do I begin?
23	A. Cygnus was a company which I founded in 1989.	23	The Japanese manufacturing in the 1970s
24	and we actually provided commercial support for open	24	and '80s took a lot of our manufacturing jobs away.
25	source software.	25	They were also doing that to us in semiconductors. In

	Page 125		Page 127
1	1984, the Japanese had passed American ability to make	1	A. Well, part of the golden rule was you couldn't
2	competitive DRAM chips, which is vital to both the	2	stop other people from benefiting the same way that you
3	computer industry and also our national security	3	benefited.
4	interests.	4	So I wouldn't characterize it as
5	Q. So am I correct, then, that the law that	5	protection. I would just say that there's there's a
6	Congress passed was designed to help the United States	6	line that just popped into my head that I can't get out.
7	companies work together to face that competitive threat?	7	Q. Okay.
8	A. That is correct.	8	A. But it's a line from Matthew, which says:
9	Q. And is that the area in which you participated?	9	Freely you are given, so freely you should share.
10	A. Right. I was working at a project which was to	10	Q. So that's the concept you're saying that when
11	develop some new technologies, and in that project, we	11	given open-source software, whatever improvements you
12	needed to use very special software which was only	12	make, those also are shared freely?
13	developed by small companies. They charged millions of	13	A. That is correct.
14	dollars for that technology.	14	Q. So we've been talking a lot about open source.
15	And it also took when you made a	15	It's talking about I think you've given some sense of
16	contract with such a company, they couldn't deliver the	16	it, but maybe let's just put some boundaries about it.
17	software right away. They had to adapt it to the new	17	What does open source mean to you?
18	machines, and that would take years. It was at that	18	Because throughout this trial, that's a term the jury
19	time, when I downloaded some software from the internet,	19	has heard an awful lot about.
20	and started making changes.	20	A. Right. So I'll back up to the beginning.
21	And within two weeks time, I had done the	21	Software, as I think you've all been told,
22	job that would have cost millions of dollars to do, and	22	are the programs that control how a computer operates.
23	it saved our company a lot of money, and it accelerated	23	And the way a program comes into existence is that a
24	our schedule. And that experience and many, many others	24	programmer writes text in something that we call source
25	like it taught me that this concept of downloading	25	code.
	Page 126		Page 128
1	software, making improvements, sharing it with others,	1	And what open source refers to is the kind
2	and receiving the benefits of other people's	2	of source code that permits people not just the
3			
	contribution was like a business model ready to be	3	person who wrote the code, but permits other people to
4	contribution was like a business model ready to be exploited. And I think that's actually what happened.	3 4	person who wrote the code, but permits other people to access the code, read it, modify it, and distribute it.
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1	plays this game. I will say that I patually started	1	And so a computer software program is
1 2	programming when I was 11 and a program like this in a	1 2	And so a computer software program is
2	language called Pasie is one of the very first programs	2	saying take this data, combine it these ways, and out
1	Lawar approximation of the or the very first programming L	3	comes your result. So that is now software is like a
5	would have fur with the game for about ton minutes, then	4	And open source is like a regine that you
5	I wonted to change it	5	And open source is like a feetpe that you
0 7	I wanted to change it.	o T	can share with your mends, and they can say, you know,
/	And so if we can change to the next slide,	/	I know now to make this better. Let's use butter
0	from 1 to 1,000. That's the kind of change that a	0	And an analogy that was used earlier. I don't
10	nom 1 to 1,000. That's the kind of change that a	10	Q. And an analogy that was used earlier I don't
11	programmer would make.	10 11	remember by whom what we all think of when we think
10	And in the world of open source, anybody	10	of something secretive is the formula to Coke.
12	can change the game any way they want. And that is what	12	And so is the idea that we can all drink a
14	Degins this participation in open source.	13	Coke and enjoy a Coke and we can buy a Coke, but we
14	Q. So source code because I can read this	14	don't know now a Coke is made.
15	A. You almost can. It's a human-legible it's	15	A. No, no. And that's the example of proprietary
10	intended to be understood, yes.	10	software. People who write proprietary software will
1/	Q. Is there some kind of computer code that is not	1/	often say you don't need to see the source; you don't
18	human-readable?	18	need this; all you need is the product.
19	A. Well, there are two different kinds. But	19	But those of us in the open-source
20	there's binary code, which is what the actual computer	20	community believe that we can make a better product
21	executes.	21	every day by always having the freedom to make
22	But proprietary software, typically, is	22	improvements and get ideas from our neighbors or share
23	hidden from view. It's developed by programmers inside	23	ideas with our neighbors.
24	a company and they don't share the source code. They	24	Q. So just continuing, and I know it's very, very
25	only have the product which is after it's been	25	simplified, but just with the Coke analogy, just to make
	Page 130		Page 132
1	translated into actual computer code.	1	sure we're all on the same page with the nomenclature,
2	Q. Okay. So let's take that in parts to make sure	2	the proprietary company is like Coca-Cola that has a
3	that that's clear.	3	product you can buy, but you don't know the recipe; you
4	First, this is source code (indicates)?	4	can't reproduce it; and you can't take it take apart
5	A. That is correct.	5	the various ingredients and add a little bit more of
6	Q. So source code is human-readable. I mean,	6	this or a little bit more of that and come up with a
7	someone that doesn't read source code can't sit down and	7	better Coke?
8	read it like a novel, but it's human-readable?	8	A. Right. We call those proprietary software
9	A. That is the goal.	9	companies. Microsoft Windows is an example of a
10	Q. And so when we've been talking in this trial	10	proprietary software company. They don't give you
11	about source code, because I've been sitting through for	11	permission to look at the source.
12	a long time I just want to make sure we're all clear	12	Q. I want to hear that. For me, it's helpful if I
13	that that's source code.	13	make sure I can do the other side of the coin.
14	A. That is source code.	14	And so in open source, not only do you
15	Q. Okay. And so and I think you said it's like	15	sell the Coke, but you also distribute with it the
16	a recipe, and that's because this tells a programmer	16	recipe to Coke?
17	A. Right. Going back to what is the function of	17	A. That is right.
18	software, the goal of the software is to basically give	18	Q. And so everyone around the world now with the
19	instruction to the computer what the computer should be	19	recipe to Coke can suggest improvements and make better
20	doing. And it is like a recipe. A recipe will tell you	20	and some will be good, some will be not good?
21	here are the ingredients; here are the ways that you	21	A. Absolutely. And so what we believe is that the
22	combine these ingredients to get something.	22	value of the software is being able to use it. And
23	And depending on how much flour, how much	23	sometimes in order to use it, you have to modify it.
24	sugar, or how much egg you put in, you might get a cake	24	And instead of making one single company the limiting
25	or you might get a cookie or you might get a biscuit.	25	factor of who will get what they want and who will not

	Page 133		Page 135
1	get what they want, anybody who can make a change can	1	them has the experience that there is somebody smarter
2	get what they want. And that's a big value to a lot of	2	than them teaching them something.
3	people.	3	So we have a motto in the world of open
4	Q. Okay. So to close the loop, you said there's	4	source, which is nobody is as smart as everybody.
5	proprietary software and there's open-source software?	5	That's been my experience, and that's been the
6	A. Yes.	6	experience of all the people I've worked with in open
7	Q. Okay. And so just very quickly, what are the	7	source.
8	differences, then, outside the Coke world, in the	8	Q. Thank you, Mr. Tiemann?
9	software world between proprietary software and	9	So now let's talk about Red Hat's
10	open-source software?	10	products, because we've heard a lot of testimony about
11	You can start with whichever one you want.	11	Red Hat's open-source products, and now let's be real
12	A. Right. So I want to try and talk about the two	12	clear about what those products are.
13	main differences. There are two ways of seeing the	13	So tell me, sir, what are Red Hat's
14	difference for each one.	14	products?
15	Q. Okay.	15	A. Our principal product is Red Hat Enterprise
16	A. One way of seeing it is, you know, as a user,	16	Linux, and it comes in two main varieties.
17	when you acquire open-source software, either by	17	Q. If we could just slow down just for a minute.
18	downloading it or by having it come as a product, you	18	A. I'm sorry, yes.
19	get the freedoms to read it, modify it, redistribute it.	19	Q. Because I want to make sure that we hear what
20	And that's what open source looks like to a user.	20	you said.
21	It looks like a car you can go and buy	21	A. Okay.
22	which comes with a service manual, and you have the	22	Q. It was Red Hat Enterprise Linux?
23	freedom to take it apart in your garage, if you want to.	23	A. Yes.
24	And in the case of proprietary software,	24	Q. You went through that quickly, and that's a
25	what you see is a product, which is defined by a single	25	term that I'm not sure the jury's heard. They've heard
	Page 134		Page 136
1	company and they decided what features it has. They	1	RHEL a lot, but I'm not sure
2	decide what they decide when to ship new versions.	2	A. I understand.
3	And they also decide when to take it out of production	3	O. So the name of the product is?
4	and force you to buy a new version.	4	A. Red Hat Enterprise Linux. And it's often
5	So from the user perspective, that's the	5	abbreviated RHEL, and it's often pronounced, to the
6	difference. But there's another difference.	6	consternation of our brand people, rel.
7	O And what is that difference?	7	O. So let's walk through the letters.
8	A And that difference is from the developer's	8	A Yes
9	perspective a developer who in the case of	9	O The R and the H are Red Hat?
10	proprietary software it's typically developed by a	10	A Right
11	small number of people working in secret on the program	11	O Okay And the E?
12	And they the total number of people who are working	12	A The E stands for Enterprise and in our
13	on that is necessarily limited by the total number of	1.3	industry the term enterprise really refers to large
14	people within that company	14	companies who have complex business operations and are
15	By contrast in the world of open source	15	typically using computers as a way of managing those
16	the entire world or at least all those who are	16	complex husiness operations
17	connected to the internet can potentially be	17	O How oh I'm sorry
18	developers And that was one of the things that really	18	A I was just going to say that it's common to
19	snarked my imagination about open source	19	hear neonle talk about enterprise software as being the
20	I've been teased by my coursel about being	20	kind of software that such large companies use And we
20 21	a smart kid hut in 1087. I know immediately I was not	20	distinguish our product by naming it Ded Hot Enterprise
21 22	the smartest kid in the whole world. And so one of the	∠⊥ 20	Linux to tell the world we are providing solutions to
22 23	exciting things about open source was I always had a	22	large companies with complex business operations
20	chance to work with people smarter than me. And when I	2J 24	• Well I want to come back to that in a second
2 T 2 S	talk with open source developers, every single one of	2 H 2 S	and why that matters but we only got up to E
2 J	and with open-source developers, every single one of	2 J	and why mat matters, but we only got up to E.

	2		
1	A. Yes.	1	This data center is in Texas. It's Dell
2	Q. So what	2	Hardware. And I believe it's running in Houston. It's
3	A. And then L, L stands for Linux. And Linux,	3	the largest private hosting service in the country.
4	both, names an operating system the way that Windows	4	Q. Now, a couple quick questions about servers,
5	names a Microsoft product, Microsoft Windows. But Linux	5	and you can use this demonstrative or not as
6	also names a distribution that contains thousands of	6	appropriate.
7	software packages.	7	A. Sure.
8	You could think of a software package as	8	Q. First, do servers use displays?
9	being an application or an add-on. And so with the Red	9	A. Well, let me show you, actually, because we
10	Hat Enterprise Linux distribution, there is not just an	10	have a laser pointer here. Let me sort of show you the
11	operating system. There's also a web browser. There's	11	boundaries of where a server is.
12	an e-mail client. There are web servers and other	12	Do you see these you can see a bunch of
13	packages, thousands of packages.	13	repeated horizontal lines that look like it's a bunch of
14	Q. Sir, let's talk turn now you were	14	items all stacked up and all the same. So you see a red
15	describing what why it matters that Red Hat	15	wire and a blue wire and then another red wire and a
16	Enterprise Linux product is an enterprise product.	16	blue wire.
17	A. That's right.	17	Each one of those elements that looks the
18	Q. By the way, you're familiar with Novell's	18	same probably is the same. It's a server, and you can
19	products?	19	see that they're packed tightly together, and there's
20	A. Yes.	20	absolutely no room for a display.
21	O. And do they have an E in their products, also?	21	A display would simply use up space and
22	A. Yes, they do.	22	heat and people typically don't even go into a server
23	O. Is that's the same E. enterprise?	23	room except to replace a bad computer And so these
24	A That's the same E because we're competing for	24	servers are in racks: these racks are in rows: these
25	the same customer.	2.5	rows are in data centers
		20	
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	Page 141		Page 143
1	not crash.	1	A. Oh, absolutely. As I said before, there are a
2	And so the New York Stock Exchange relies	2	lot of people who are using Microsoft software because
3	on our operating systems to provide secure, reliable	3	some of the administrative applications only run on
4	function for their enterprise applications, and that is	4	Microsoft.
5	the basically, the service that we provide is the	5	And so you need to have a Microsoft PC to
6	assurance and the technical support that keeps those	6	control these powerful servers, even though you have a
7	systems running and keeps the New York Stock Exchange	7	lot more faith in our system than Microsoft for running
8	trading stocks every day.	8	your servers.
9	Q. By the way, if I know you testified that	9	Q. So the New York Stock Exchange, that was a
10	typically servers wouldn't have a display; is that	10	customer that you mentioned?
11	right?	11	A. That's one.
12	A. Yes.	12	Q. Any other customers?
13	Q. If a server did have a display, would it and	13	A. We have many others. Saber Holdings, for
14	the servers were running your software, would the	14	example, manages tickets and flight schedules for a lot
15	display be running your software?	15	of different airlines, including American Airlines.
16	A. Well, if the server if the server did have a	16	They're a customer. I've seen their server farm; it's
17	display, you know, these servers are personal computers.	17	big.
18	They just have strange properties. They're extra strong	18	We have customers like Orbitz and let's
19	and extra beefy and extra powerful.	19	see priceline.com. We have customers like
20	But some of these you might be able to put	20	amazon.com, Ticket Master, VeriSign that secures
21	in the cards necessary for there to be a display, in	21	internet transactions. We have a lot of enterprise
22	which case that one server could have a display.	22	customers all around the world.
23	Q. My question I must not have asked a good	23	Q. Are these customers using the Red Hat
24	question. I am sorry.	24	Enterprise Linux server product?
25	I'm just simply asking that if we know	25	A. That's the fundamental relationship. The
	Page 142		Page 144
1	Page 142 we've been talking about Microsoft.	1	Page 144 business we do with these customers, the main value that
1 2	Page 142 we've been talking about Microsoft. A. Yeah.	1 2	Page 144 business we do with these customers, the main value that they're paying for is reliable, secure operation of
1 2 3	Page 142 we've been talking about Microsoft. A. Yeah. Q. Is it possible to have a server running Red Hat	1 2 3	Page 144 business we do with these customers, the main value that they're paying for is reliable, secure operation of their servers running our operating systems, and the
1 2 3 4	Page 142 we've been talking about Microsoft. A. Yeah. Q. Is it possible to have a server running Red Hat Enterprise Linux software and it be hooked up to a	1 2 3 4	Page 144 business we do with these customers, the main value that they're paying for is reliable, secure operation of their servers running our operating systems, and the associated stuff that comes with those operating
1 2 3 4 5	Page 142 we've been talking about Microsoft. A. Yeah. Q. Is it possible to have a server running Red Hat Enterprise Linux software and it be hooked up to a display that's running Microsoft Windows?	1 2 3 4 5	Page 144 business we do with these customers, the main value that they're paying for is reliable, secure operation of their servers running our operating systems, and the associated stuff that comes with those operating systems.
1 2 3 4 5 6	Page 142 we've been talking about Microsoft. A. Yeah. Q. Is it possible to have a server running Red Hat Enterprise Linux software and it be hooked up to a display that's running Microsoft Windows? A. That's I would not characterize it that way.	1 2 3 4 5 6	Page 144 business we do with these customers, the main value that they're paying for is reliable, secure operation of their servers running our operating systems, and the associated stuff that comes with those operating systems. Q. So you've said a few times that in the
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	Page 145		Page 147
1	free, and you can download it from the internet whether	1	Q. One day.
2	you are a customer or not a customer. That is open	2	A. One day we'll get there.
3	source.	3	Q. And so when you said revenues and 90 percent of
4	Q. So let me just make sure that I understand	4	your revenues are attributable to servers, 10 percent to
5	that.	5	desktops, you mean revenues from the subscriptions?
6	Are there any products that of any of	6	A. That's correct. Server subscriptions versus
7	the Red Hat Enterprise Linux products that are at issue	7	desktop subscriptions.
8	in this case, any ever, that Red Hat charges a dime for?	8	Q. So with all of the available software in the
9	A. There's no source code that we charge money	9	open-source world, you have a limited amount in your
10	for. We sell subscriptions. The only thing we charge	10	products; is that right?
11	money for is subscriptions.	11	A. That's correct.
12	Q. So and we'll get to subscriptions.	12	Q. And how do you go from how does Red Hat go
13	A. Actually I'm sorry we do charge money for	13	about determining from all the various open source out
14	training and consulting, but as to the software, which I	14	there what it's going to be in its products, the Red Hat
15	think was the meat of your guestion.	15	Enterprise Linux products?
16	When it comes to how do we make money on	16	A. So the world of open source, since I started
17	software.	17	it, has really grown to a really, really large
18	O. That's my question.	18	community. It is estimated that there are millions of
19	A. It's subscriptions.	19	open-source developers around the world, more
20	O. Okay. So before we get to subscriptions. I	20	open-source developers than any single company employs
21	want to make sure what we don't do, and then we'll talk	21	There are hundreds of thousands of packages, and any one
22	about what we do do	22	of those could represent some valuable function that a
23	A. Okay.	23	customer might want in the future.
24	O. So as to the software that you provide that's	24	We have something called the Fedora
25	accused of infringement in this case	25	Project, which is a way of bringing together ideas from
	Dama 140		
	Page 146		Page 148
1	Page 146 A. Right.	1	Page 148 that larger community with the participation of the
1 2	Page 146 A. Right. Q does Red Hat ever charge a dime?	1 2	Page 148 that larger community with the participation of the community. And then in that experimental lab
1 2 3	Page 146 A. Right. Q does Red Hat ever charge a dime? A. No.	1 2 3	Page 148 that larger community with the participation of the community. And then in that experimental lab environment seeing, you know, what ideas work and what
1 2 3 4	Page 146 A. Right. Q does Red Hat ever charge a dime? A. No. Q. Okay. Now, subscriptions. Let's talk about	1 2 3 4	Page 148 that larger community with the participation of the community. And then in that experimental lab environment seeing, you know, what ideas work and what ideas don't work.
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	Page 149		Page 151
1	work.	1	A. That's correct.
2	So we let the open-source community	2	Q. And is that where the Fedora Project comes in?
3	continue to refine them, and we contribute our own best	3	A. Exactly.
4	ideas to those projects. But once a technology in that	4	Q. So taking because you know this so well, I
5	experimental environment proves itself to be a suitable	5	want to make sure the jury understands this clearly, and
6	candidate, then we will nominate that for a future	6	so things that maybe you just take for granted, the jury
7	version of our product.	7	and I don't. So take it slowly.
8	And Red Hat alone will do the kind of	8	How do you go from hundreds of thousands
9	engineering needed to give us the confidence, if this	9	of potential software packages, some great ideas, some
10	technology is running at the New York Stock Exchange,	10	less great, to the 2900 software packages you wind up
11	that we're not going to be the reason that it goes down.	11	with in your products? Take that in baby steps.
12	THE COURT: Let's take a five-minute	12	A. So in baby steps, the first thing we want to
13	break.	13	do, to know it's going to be suitable in our product, we
14	MR. KREVITT: Certainly.	14	want to have something which is like a Linux
15	THE COURT: Just five minutes. You can	15	distribution.
16	leave.	16	So the Fedora Project creates something
17	(Recess.)	17	that is a Linux distribution. It's just aimed at a
18	(Jury in.)	18	different group of people than our commercial product.
19	THE COURT: Mr. Krevitt, you were	19	So, number one, it starts like a Linux distribution
20	inquiring.	20	or it is a Linux distribution.
21	MR. KREVITT: Thank you, Your Honor.	21	Q. Okay. But just, again, so we're clear, the Red
22	Q. (By Mr. Krevitt) So before the break, we were	22	Hat Enterprise Linux products are your products?
23	talking about Fedora, and we were talking about how you	23	A. That's correct.
24	go from all of the ideas out there, some good, some	24	Q. Okay. Is Fedora a product?
25	crazy, and how you wind up with the ideas in your	25	A. No, it's a project.
	Page 150		Page 152
1	Page 150 product; is that right?	1	Page 152 Q. Okay. And we'll get into that distinction, I
1 2	Page 150 product; is that right? A. Yes, that's correct.	1 2	Page 152 Q. Okay. And we'll get into that distinction, I think, but just as you're explaining it, I want to make
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1	possibly be in step, we reject obvious misfits.	1	server farm in the desert?
2	And these people bring to us a set of	2	Is it suitable for, you know, calculating
3	technologies or a set of candidates that look like a	3	how to fix the financial crisis?
4	good idea to sort of bring it all together, and it's a	4	We get back all this feedback, and the
5	little bit like the minor leagues where you bring in a	5	things, which get highly rated by that process, inform
6	bunch of people who you think might be good players in	6	our marketing guys and our engineers we ought to look at
7	the future, and you put them on a team and see how they	7	taking this best software and graduating it to RHEL.
8	play.	8	Q. So based on the way the software functions or
9	Q. It's a little like the minor leagues in	9	operates or is reacted to in the Fedora Project, you
10	baseball?	10	make judgments about what to put in your products?
11	A. Any minor league.	11	A. That's right. That's right.
12	Q. Okay. And is because that I think about	12	And it's like picking from a bunch of
13	it that way sometimes	13	maybe promising athletes which ones are going to be
14	A. Yeah.	14	long-term franchise players on the team. Because our
15	Q I just want to make sure that's what you're	15	enterprise customers, once you once you put an
16	explaining to the jury.	16	application into production in some remote data center
17	A. Right.	17	that could be buried underground, you don't want to be
18	Q. So explain what you mean by that, that it's	18	constantly going out to that remote location and trying
19	like a training ground.	19	to figure out what's wrong.
20	A. Yes. So, basically, you don't want to put a	20	So you need reliability, and that comes
21	new technology on the floor of the New York Stock	21	from familiarity, stress-testing, lots of different
22	Exchange or in some server at the bottom of the Pentagon	22	eyeballs making sure it's right.
23	and say you know, something you're not familiar with,	23	Q. So just using your sports analogy and I'll keep
24	so you need to get familiar with it.	24	the sports analogies limited, I promise.
25	So Fedora is an opportunity to sort of see	25	A. I understand.
	Page 154		Page 156
1	how it works see that it works well with a whole bunch	1	O But is it like you want to field the baseball
2	of other things, and know that there's a lot of people	2	team, and so you go into a training camp with 20
3	who understand the function of that software and that it	3	pitchers and 10 catchers and 30 outfielders do the
4	can be relied on	4	training camp see who works well together?
5	O So you take the Fedora product the	5	A Exactly
6	project excuse me takes those candidates and it	6	O. And then field your team?
7	puts them together?	7	A. That's right. If you've got a great first-base
8	A It puts them together in something we call a	8	player who cannot play with the second-base player you
9	Fedora distribution and we make a new distribution	9	don't want them together on your professional team
10	every six months. So we throw away old distributions	10	O And then the professional team is your product?
11	and say well that was interesting information from the	11	A That's right
12	nast but we're only focused on right now	12	O Now I have to follow up with a couple things
13	Ω And then you distribute the Fedora	1.3	you said just now because they always remind me of
14	distribution?	14	things that I think will be interesting to the jury so
15	A Veah We make it available to anybody so that	15	let's nick through a couple
16	we're not the only ones	16	You said Navy destroyer Is Red Hat
17	Ω How does that process take us how does that	17	software used on a Navy destroyer?
18	distributing the candidates take us from there to our	18	Δ It's used on Navy shins It's also used on
19	nroduet?	19	it's both on shins and onshore for the Navy
20	A Right So what hannens is lots of neonle all	20	Ω Can you give an example of a shin in the Navy
20	over the world take this Fedora Project distribution	21	that uses Red Hat software?
21 22	and they use it in strange ways. And those different	22	Δ One is the USS Nimitz It's a nuclear aircraft
22	ways tell us is it suitable for putting it onto a Navy	23	carrier We're very very proud to be on that shin
24	destroyer?	24	O And that uses Red Hat software?
25	Is it suitable for putting it into a	25	A Ves it does
	is it surmore for putting it line a		

1	Q. On the deck?	1	Why don't you focus on those, but I hope
2	A. Yes, it does.	2	that's big enough for the jury to see.
3	Q. And then you also said the bottom of the	3	A. I'll read them. The first sentence says: This
4	Pentagon; you'd want to make sure that the software	4	code is available for anyone to review, use, or modify.
5	that's at the bottom of the Pentagon, I wrote down, is	5	We are excited to see how developers across the world
6	reliable.	6	put our work to good use in their own applications.
7	Does the Department of Defense use	7	Next sentence: By releasing some of our
8	open-source software?	8	code, we get the benefit of more people reviewing and
9	A. The Department of Defense not only uses	9	improving it.
10	open-source software, but they have increasingly	10	Q. Does the and this came out April 21, which I
11	understood the method of open-source production leads to	11	think was
12	more reliable systems. And they are actively	12	A. That was last week.
13	encouraging all branches of service to consider	13	Q. A week ago yesterday.
14	open-source software when making acquisition decisions.	14	Does the White House, the U.S. White
15	Q. In fact, I showed a demonstrative.	15	House, accurately describe open source, in your view?
16	MR. KREVITT: Why don't we pull up the	16	A. They do a fantastic job. I couldn't have
17	demonstrative from the Department of Defense from	17	taught it better myself.
18	October of last year, I think.	18	Q. And you said that it made you proud when you
19	Q. (By Mr. Krevitt) And I'll ask you, sir, if	19	saw the Department of Defense press release to the Joint
20	you've seen this document before.	20	Chiefs of Staff, the secretaries to the military
21	A. I have seen this document. I think I saw it	21	branches, but you said that made you proud; is that
22	the day it came out. It made me incredibly proud.	22	right?
23	Q. Yes, I can imagine.	23	A. Actually, a lot of what Red Hat does makes me
24	And if you can just read the first	24	proud, because this idea that started out really as an
25	sentence.	25	oddball idea has connected with what I feel are some of
	Page 158		Page 160
1	A. Okay. To the first sentence reads: To	1	the greatest values and privileges of being an American:
2	effectively achieve its missions, the Department of	2	The freedom to start a business, to make a living doing
3	Defense must develop and update its software-based	3	what you love, and then, most importantly, helping other
4	capabilities faster than ever, to anticipate new threats	4	people do what they want to do, whether it's what the
5	and respond to continuously changing requirements.	5	DOD does, which is protecting America, or what the White
6	Q. And then it continues?	6	House does, which is serving America.
7	A. The use of open-source software (OSS) can	7	So that's all I can say. It's great.
8	provide advantages in this regard.	8	Q. And it made you proud when you sold the White
9	Q. And the Department of Defense is not the only	9	House did you feel like maybe you finally made it?
10	branch of the federal government that uses open-source	10	A. I'm getting there.
11	software; is that right?	11	Q. The idea is not so crazy? Well, maybe the
12	A. No, no.	12	inclusion by the White House doesn't necessarily prove
13	Q. How about the Department of	13	it's not crazy.
14	A. In fact, the executive branch, the White House	14	A. There are many, many cases in the years I've
15	uses open-source software to run their website to	15	been involved with it that have made me incredibly proud
16	communicate with the American public.	16	of what's happened and how it's gone.
17	Q. How about the Justice Department? Now that	17	Q. So back to Fedora, just to finish on that.
18	we're in their courtroom, how about the Justice	18	How much does Red Hat charge for those
19	Department?	19	distributions of the R&D project, Fedora?
20	A. There are parts of the U.S. court system that	20	A. Red Hat charges nothing for Fedora. As an R&D
21	use our servers for collecting and storing and accessing	21	project, it's just made available to the world to
22	data for proceedings.	22	download, participate, improve.
23	Q. So let's look at the White House document so	23	Q. How much does Red Hat charge for subscriptions
24	the jury can see that again. You can read as much as	24	to Fedora?
25	you'd like. We highlight those two sentences.	25	A. We don't sell any subscriptions at all. We

	Page 161		Page 163
1	don't consider Fedora suitable for commercial use.	1	great, what would you like to install? Here's a bunch
2	Q. Why is that?	2	of things you can do.
3	A. It's R&D project. Some may blow up in the lab,	3	It's like ordering food at a restaurant.
4	and some projects, you know, may be wonderful. But we	4	You don't buy everything on the menu. You get what you
5	can't stand behind Fedora as a product. We stand with	5	want for dinner.
6	Fedora developers to experiment and discover what's	6	Q. When you when you go to to take the
7	possible.	7	restaurant analogy, I'm laughing, because I joke with
8	Q. So there's not a dime in any form, fashion at	8	Mr. Vincent that he does order everything on the menu.
9	all that Red Hat makes from Fedora?	9	So I want it to be clear that that's why I looked over
10	A. No. It's not its purpose. Fedora is about	10	at him.
11	generating ideas.	11	When you when you just to take the
12	Q. Does everyone who downloads Fedora download the	12	restaurant analogy, is downloading Fedora like walking
13	same version of it?	13	into the restaurant?
14	A. There are many versions of Fedora, and they	14	A. Right. It's walking into the restaurant and
15	could be different by their version number. They could	15	getting a big menu in front of you with a lot of
16	be different by what kind of processor architecture you	16	choices.
17	install them on.	17	Q. I see. And then one of the choices is desktop
18	Anybody is free to make custom versions of	18	environment?
19	Fedora as well. And they are named, you know, for	19	A. Yes.
20	whatever universe they're supposed to go into. In Latin	20	Q. And you say you could choose none or KDE or
21	America, people make Fedora in Portuguese.	21	GNOME?
22	Q. And if I download Fedora and my partner,	22	A. Right.
23	Mr. Reiter, downloads Fedora, are we necessarily,	23	Q. So it's sort of appetizers.
24	though, going to have the same packages? His may be in	24	A. Right.
25	Portuguese, but are we going to have the same packages?	25	Q. You could either have one or not, or you can
	Page 162		Page 164
1	Page 162 A. If you go to the same server and you ask for	1	Page 164 make a choice?
1 2	Page 162 A. If you go to the same server and you ask for the same software, then you'll get a bucket of bits that	1 2	Page 164 make a choice? A. Right. And when you do that in fact, one of
1 2 3	Page 162 A. If you go to the same server and you ask for the same software, then you'll get a bucket of bits that contains the same thing. But a download is totally	1 2 3	Page 164 make a choice? A. Right. And when you do that in fact, one of the questions that it asks you is, would you like to do
1 2 3 4	Page 162 A. If you go to the same server and you ask for the same software, then you'll get a bucket of bits that contains the same thing. But a download is totally different than an installation.	1 2 3 4	Page 164 make a choice? A. Right. And when you do that in fact, one of the questions that it asks you is, would you like to do this install on a graphical user interface, because you
1 2 3 4 5	Page 162 A. If you go to the same server and you ask for the same software, then you'll get a bucket of bits that contains the same thing. But a download is totally different than an installation. Q. How so?	1 2 3 4 5	Page 164 make a choice? A. Right. And when you do that in fact, one of the questions that it asks you is, would you like to do this install on a graphical user interface, because you have a fancy display; or would you like to do it in
1 2 3 4 5 6	Page 162 A. If you go to the same server and you ask for the same software, then you'll get a bucket of bits that contains the same thing. But a download is totally different than an installation. Q. How so? A. Well, when you take that software to install it	1 2 3 4 5 6	Page 164 make a choice? A. Right. And when you do that in fact, one of the questions that it asks you is, would you like to do this install on a graphical user interface, because you have a fancy display; or would you like to do it in text, because you like the old green screen and you're
1 2 3 4 5 6 7	Page 162 A. If you go to the same server and you ask for the same software, then you'll get a bucket of bits that contains the same thing. But a download is totally different than an installation. Q. How so? A. Well, when you take that software to install it on your computer, you get asked a series of questions.	1 2 3 4 5 6 7	Page 164 make a choice? A. Right. And when you do that in fact, one of the questions that it asks you is, would you like to do this install on a graphical user interface, because you have a fancy display; or would you like to do it in text, because you like the old green screen and you're never going to change.
1 2 3 4 5 6 7 8	Page 162 A. If you go to the same server and you ask for the same software, then you'll get a bucket of bits that contains the same thing. But a download is totally different than an installation. Q. How so? A. Well, when you take that software to install it on your computer, you get asked a series of questions. One of those questions is English or Portuguese. One of	1 2 3 4 5 6 7 8	Page 164 make a choice? A. Right. And when you do that in fact, one of the questions that it asks you is, would you like to do this install on a graphical user interface, because you have a fancy display; or would you like to do it in text, because you like the old green screen and you're never going to change. O. I want to change our focus for just a minute
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1	A. I felt very uncomfortable about what he was	1	all?	
2	saying, because it didn't sound at all right. But I	2	A. You told me to speak the truth.	
3	also felt confident that having an opportunity to speak	3	Q. Okay. Can Red Hat determine the number of	
4	in court, it would be possible for the jury to	4 users of Fedora?		
5	understand the facts.	5	A. I don't believe so.	
6	Q. Good. I'd like to do that now.	6	Q. Okay. Is that information that Red Hat has,	
7	How many people use Red Hat's RHEL and	7	the number of users of Fedora?	
8	Fedora software?	8	A. It is not information that Red Hat has.	
9	A. We don't count users of either RHEL or Fedora,	9	Q. Did you hear Mr. Gemini tell the jury that Red	
10	so we don't know.	10	Hat does know the number of users of Fedora?	
11	Q. This might be a little bit more intrusive, and	11	A. I did hear that.	
12	I want to hear everything you have to say. I want the	12	Q. Did you hear Mr. Gemini tell the jury that Red	
13	jury to hear everything you have to say.	13	Hat knows the number of users of the RHEL products?	
14	There are certain things that Mr. Gemini	14	A. I did hear that.	
15	said, though, and I want to make sure we address them	15	Q. Were either of those answers accurate?	
16	directly.	16	A. No. They were wrong.	
17	A. Okay.	17	Q. So let's get into that a little bit.	
18	Q. So I may ask questions that are that would	18	Why can't Red Hat determine the number of	
19	be good to just have a simple answer, and then you can	19	users of Fedora?	
20	explain the answer, but I don't want there to be any	20	A. To determine the number of users, we would have	
21	confusion on those points.	21	to collect information about users, which we don't do.	
22	A. Got it.	22	Q. Let's be clear. What does that mean, we, Red	
23	O. Okav. Thank you.	23	Hat, do not collect information about users?	
24	So let's take RHEL first. Does Red Hat	24	A. We don't collect information we don't	
25	count the number of RHEL users?	25	collect any personal identifying information. You know.	
	Page 166		Page 168	
	Tage 100	_		
1	A. No.	1	we're not part of the U.S. Census. We do not collect	
2	Q. Ever?	2	any user information when people download Fedora.	
3	A. No.	3	Q. So I download Fedora today, let's say. Do I	
4	Q. Does Red Hat count the number of Fedora users?	4	have to tell Red Hat who I am?	
5	A. No.	5	A. No, you do not.	
6	Q. Ever?	6	Q. Do I have to give any information about myself?	
./	A. No.	./	A. No.	
8	Q. Does Red Hat have any information at all	8	Q. If I download 20 copies, do I have to say?	
9	regarding the number of users of the Fedora Project?	9	A. No.	
10	A. No.	10	Q. If I give 20 copies to my friends, do I have to	
11	Q. Does Red Hat have any information at all	11	say?	
12	regarding the number of users of the RHEL products?	12	A. No.	
13	A. No.	13	Q. If I download one copy and don't use it, do I	
14	Q. Okay. Now, was there anything you wanted to	14	have to say?	
15	say, because I know I told you how I wanted to do it.	15	A. No.	
16	Then I have a series of questions, but I felt maybe I	16	Q. If I download 30 copies and don't use any of	
17	was cutting you off.	17	them, do I have to say?	
18	A. No.	18	A. No.	
19	Q. Because we did not did we talk about	19	Q. No information at all, just to be clear, on	
20	Mr. Gemini's testimony?	20	number of users of the Fedora Project?	
21	A. We did.	21	A. That is correct.	
22	Q. And did I tell you what to say in response to	22	Q. And just so the jury is clear, are you saying	
23	Mr. Gemini's testimony?	23	that Red Hat doesn't keep track of that information, or	
24	A. No.	24	are you saying Red Hat can't keep track of that	
25	Q. Did I tell you how to answer the questions at	25	information?	

1	A. It's both. We cannot and we do not.	1	Q. Okay. So if Judge Rader's computer has many IP
2	Q. So let's look at what and talk about for the	2	addresses and we add up all those many IP addresses and
3	jury then, how did Mr. Gemini suggest that maybe you can	3	we get a number and that number is more than one, does
4	keep track of users?	4	that number tell us how many users there are?
5	And what he talked about was IP addresses.	5	A. Not at all. $(1 + 1)^{-1} = (1 +$
67	Do you remember that?	6	Q. So if the IP addresses don't tell you the
/	A. I do remember that.	/	number of users, why does Red Hat keep track of them a
х О	Q. Okay. And he said that there were millions of	×	all?
9 10	IP addresses.	9 10	A. We keep track of them in part so that we know
1 U	A. Yes, ne did.	1U	Where in the world Fedora is being used.
1 D	Q. And then from the IP addresses, these minions	⊥⊥ 1 つ	Q. So explain that. You keep track of the IP
⊥∠ 1 2	of IP addresses, ne told the jury that there are	12	addresses so you get geographic information.
1 /	millions of users.	11	Is that what you mean by where in the
15 15	Lo remember that	15	Wolld?
16	A. I up tententoet mat.	16	A. That's one of the reasons for keeping nack of
17	more than the millions you saw because the numbers may	17	Ω Explain that to me
1 8	hounderstated	18	Λ So an IP address does not tell you anything
19	Δ I heard that	19	about the user or the computer itself. The IP address
20	Ω Ω Λ Λ Ω Λ Λ Ω Λ Ω Λ Λ Λ Ω Λ	20	however does tell you the geographic location And
21	A No	21	this is very important for companies that do internet
22	O Okay So let's talk about IP addresses	22	commerce because for example if you use a credit card
23	What are IP addresses?	23	to buy something if your credit card billing address
24	A An IP address is a number that your computer	24	savs that you live in Marshall. Texas, but the IP
25	has to have to basically get onto the internet. And	25	address says it's coming from Nigeria, you know, the
	Page 170		Page 172
1	sometimes that for most people who connect to the	1	company processing the credit card transaction may say I
1 2	internet like I do from my home, that IP address is	2	don't believe that this is a legitimate transaction
ے ح	dynamically allocated	2	So the IP address is something that can be
4	O Does Judge Rader's computer have an IP address	4	relied on to provide information about where in the
5	assuming that he has internet access?	5	world that computer is setting
6	A If he's on the internet he does If he's not	6	Ω So at any given time, a computer connected to
7	on the internet, he probably won't have	7	the internet has an IP address?
8	O And when Judge Rader may go on vacation to	8	A That is correct
9	California with the same computer, does it have the same	9	O And when the user excuse me the computer
10	IP address?	10	moves around to different locations and connects to the
11	A It will most likely have a different IP	11	internet, that same computer owned by the same person
12	address.	12	has a different IP address?
13	O. If Judge Rader went down the road to Tyler and	13	A. Yes.
14	got on the internet there	14	O. Okay. So as often as one moves around, that's
15	A. Right.	15	how often the same person has an IP different IP
16	Q would he have the same IP address with his	16	address?
17	computer?	17	A. They may have even more IP addresses, because
18	A. He might have a different IP address every hour	18	they may be getting refreshed every hour.
19	depending on how the internet service provider hands out	19	Q. So let's talk about that. First, I wanted to
20	these IP addresses.	20	make sure I understood what you were saying when you
21		21	travel And again when I gav I want to make sure at
	Q. So the same guy		travel. And, again, when I say I want to make sure at
22	Q. So the same guy MR. KREVITT: No offense, Your Honor.	21	least my question is clear for the jury. I don't mean
22 23	 Q. So the same guy MR. KREVITT: No offense, Your Honor. Q. (By Mr. Krevitt) with the same computer, you 	21 22 23	least my question is clear for the jury. I don't mean travel from here to Asia. I mean travel from here to
22 23 24	 Q. So the same guy MR. KREVITT: No offense, Your Honor. Q. (By Mr. Krevitt) with the same computer, you just testified has many, many IP addresses? 	21 22 23 24	least my question is clear for the jury. I don't mean travel from here to Asia. I mean travel from here to Longview, you'll have a different IP address.

	Page 173		Page 175	
1	O. Okay. And then you said a moment ago that, in	1	rough guess that maybe my IP address will say I'm in	
2	fact, there's other reasons why the same guy with the	2	Texas, but I'm really in Maine?	
3	same computer will have many IP addresses.	3 A. So I have looked into this, and on a		
4	A. That's correct.	4 country-by-country basis, that number is certain e		
5	O. So can you explain that to the jury, please?	5 to do financial transactions, you know, day in an		
6	A. Yeah. There's something called a dynamic IP	6	out, hundreds of millions of financial transactions with	
7	address. And a dynamic IP address is simply is one	7 certainty.		
8	way that internet service providers basically allocate	8	O. Let me make sure I understand, because, again.	
9	IP addresses to people who are using the system.	9	I want to unpack your answer for the jury a little bit.	
10	And one of the reasons that they have	10	A. Okay.	
11	these dynamic IP addresses is, if some computer has gone	11	O. I asked you if the IP address can determine	
12	off the internet, they want to know that nobody is using	12 with certainty the geographic location.		
13	this slot anymore, so let's kick it off. So a dynamic	13 A. Yes.		
14	IP address is given to a computer which can then put the	14 O And I think you said that at least on a		
15	new one in, and it can basically say I'm still here, you	15	country-by-country basis, it can with certainty; is that	
16	know, keep my connection alive.	16	correct?	
17	Q. So the same computer in the same place	17	A. Yes; that is correct.	
18	A. That's right.	18	O. And just so we're clear, when you	
19	Q will continually get new IP addresses?	19	say certainty, are you talking 88 percent, 95 percent?	
20	A. In fact, I believe I've had that experience	20	What are we talking about?	
21	here in Marshall, Texas, where I have a virtual private	21	A. I'm talking about that's how the internet was	
22	network for talking back to my company so I can do my	22	designed to work. It's designed around the IP stands	
23	business. And about every hour the connection gets	23	for internet protocol. And so when you want to put a	
24	dropped because the IP address changes and I have to	24	system onto the internet, there's another there's an	
25	type in a new code to say let me back in.	25 organization called ICANN. The Internet I think it		
	Page 174		Page 176	
1	O Sitting in the exact same place your computer	1	the Internet Committee for Address Names and Numbers	
2	on the exact same table?	2	And ICANN is basically like the agency	
3	A Ves	3	that hands out these license plates ICANN is the one	
4	O IP address is changing all the time?	4	that tells the ISPs, here are the IP addresses you can	
- 5	A Yes	5	give to your customers. And those ranges are set based	
6	O You're the same user?	6	on country	
7	A Lam	7	And so the US has been given a certain	
8	O Now you said that IP addresses tell you	8	range of IP addresses And even in the news today	
9	information about geographic location	9	people are worried about we're going to run out of IP	
10	A. That is correct.	10	addresses.	
11	O. And is that because when you're in Marshall.	11	O. That's sort of like when a community gets	
12	Texas, although vou're getting many IP addresses, each	12	really crowded and they have to come up with a new area	
13	one indicates where you are?	13	code for the community?	
14	A. That's correct.	14	A. Exactly, right.	
15	O. How does that work?	15	O. But you know when you hear that area code	
16	A. I don't know the specific technical details of	16	exactly where it is?	
17	exactly how that works, but an analogy is that there's a	17	A. That's right. So we've got that exact	
18	lot of different license plates in Texas. but they're	18	situation. The U.S. has a range, and we can keep adding	
19	all Texas plates. There's a lot of different license	19	new area codes until we run out of area codes.	
20	plates in North Carolina, but they're all Carolina	20	And then what do we do? But that day	
21	plates.	21	hasn't come. Today, those numbers tell vou which	
22	So when you're in Texas, you get Texas IP	22	country they belong to. Just like a country code, an	

23addresses. When you're in North Carolina, you get North2324Carolina IP addresses.2425Q. And how certain is that information? Is it a25

Q. And so just to tie the loop for the jury, you

area code, and a phone number tells you where that

telephone is located.

	Page 177		Page 179		
1	can tell with certainty where an IP address comes from	1	program be written which would collect all of this		
2	on a country-by-country basis; is that right?	2	information and sort and count how many things were		
3	A. It's it's as certain as anything I know.	3	how many IP addresses, how many unique IP addresses		
4	Q. And as certain	4	from the U.S. versus not from the U.S.		
5	A. Yes, yes.	5	5 I reviewed that script; I understood that		
6	Q as day will follow night?	6	6 script; and I supervised that script being run on the		
7	A. Day will follow night.	7	Fedora servers in order to produce a report to summarize		
8	Q. And so you can tell putting aside whether IP	8	the unique IP addresses that hit Fedora from the U.S.		
9	addresses tell you the number of users or they don't	9	versus the unique IP addresses that came from outside		
10	tell you the number of users, whatever IP addresses tell	10	the U.S.		
11	you, we know that of all the IP addresses, we can tell	11	Would you okay.		
12	with absolute certainty which ones are from the United	12	O. Why don't we just put them up and make sure		
13	States?	13	that we're all on the same page for the jury.		
14	A. That is correct.	14	A. Let's do that.		
15	O. Okay. So now. Mr. Tiemann, have you ever done	15	O. I think the first one we should look at is		
16	an analysis to determine where certain IP addresses are	16	DX904.		
17	from in connection with the Fedora Project?	17	MR. KREVITT: And that's not going to be		
18	A In fact I have	18	very clear for the jury.		
19	O Okay What analysis did you do?	19	O. (By Mr. Krevitt) Just tell us what it is.		
20	A I did an analysis of the geographic locations	20	A. If we could just let's just go down to		
21	for every IP address of machines connecting to the	21	let's look at this first line here just to show you.		
22	Fedora servers during the period of October 2007 to	22	This is a monthly total. 10 is the month		
2.3	December of 2008	23	of October 2007 is the year. And what we've done is		
24	Ω	2.4	we collect all the unique IP addresses into a file And		
25	understands that	25	it's the number on the left is the total number		
	Deve 170				
	Page 178		Page 180		
1	First, you said you looked at all the IP	1	inside the U.S., and the number on the right is the		
2	addresses that hit Red Hat?	2	number outside the U.S.		
3	A. That hit Fedora.	3	So for that particular month, we see		
4	Q. Hit Fedora. Excuse me.	4	162,000 unique IP addresses inside the U.S. and outside,		
5	A. Hit the Fedora Project.	5	654,000.		
6	Q. Right. Because that's what Mr. Gemini talked	6	Q. So why don't we keep that up, and maybe, again,		
7	about. All of the IP addresses that hit the Fedora	7	it's just easy for the jury and for others using an		
8	Project for the time period October 2007 to December	8	example.		
9	2008; is that right?	9	A. Okay.		
10	A. That's the full months. We didn't go halfway	10	Q. So the 162,000 number is unique IP addresses		
11	into either month. It's the full time.	11	that hits Fedora in October '07?		
12	Q. Okay. So all of October of '07 to the end of	12	A. That's correct.		
13	December 2008?	13	Q. And the 654,000 is the number of unique IP		
14	A. That is correct.	14	addresses that hit Fedora in October of '07?		
15	O And you you nulled all of those IP addresses	15	A. From outside the U.S.		
16	Q. This you you pured an of mose if addresses	10			
1 7	and looked at them?	16	Q. From outside?		
\perp /	and looked at them? A. Actually, I asked a person at Red Hat to write	16 17	Q. From outside?A. That's correct.		
17 18	and looked at them?A. Actually, I asked a person at Red Hat to writea script to pull all those IP addresses and count them	16 17 18	Q. From outside?A. That's correct.Q. And so if you were to add those two		
17 18 19	and looked at them?A. Actually, I asked a person at Red Hat to writea script to pull all those IP addresses and count themaccording to whether they were inside the U.S. or not	16 17 18 19	 Q. From outside? A. That's correct. Q. And so if you were to add those two A. If you were to add those two, every single, 		
17 18 19 20	and looked at them? A. Actually, I asked a person at Red Hat to write a script to pull all those IP addresses and count them according to whether they were inside the U.S. or not inside the U.S.	16 17 18 19 20	 Q. From outside? A. That's correct. Q. And so if you were to add those two A. If you were to add those two, every single, unique IP address would be counted. 		
17 18 19 20 21	 and looked at them? A. Actually, I asked a person at Red Hat to write a script to pull all those IP addresses and count them according to whether they were inside the U.S. or not inside the U.S. Q. Let me ask you to clarify one thing, and that 	16 17 18 19 20 21	 Q. From outside? A. That's correct. Q. And so if you were to add those two A. If you were to add those two, every single, unique IP address would be counted. Q. So leaving that up, let's just talk about what 		
17 18 19 20 21 22	 and looked at them? A. Actually, I asked a person at Red Hat to write a script to pull all those IP addresses and count them according to whether they were inside the U.S. or not inside the U.S. Q. Let me ask you to clarify one thing, and that is script. 	16 17 18 19 20 21 22	 Q. From outside? A. That's correct. Q. And so if you were to add those two A. If you were to add those two, every single, unique IP address would be counted. Q. So leaving that up, let's just talk about what we know and what we don't know, okay? 		
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	Page 181		Page 183		
1	of Fedora there were from this number?	1	2007.		
2	A. No, we cannot.	2	Q. And let me just show quickly DX912, then we'll		
3	Q. Is that possible?	3	do 913, then 914.		
4	A. I know of no way to do it.	4	MR. KREVITT: Actually I'm sorry wh		
5	Q. Could it be more than that number for the	5	don't we go back. I'm sorry. And why don't we pull up		
6	number of users? Could it conceivably be more?	6	the last line.		
7	A. It could conceivably be more.	7	This. I should have done that. I		
8	Q. Could it be fewer?	8	apologize.		
9	A. It could be fewer.	9	Q. (By Mr. Krevitt) So, Mr. Tiemann, will you just		
10	Q. Could it be way fewer?	10	tell us what that is? I think the jury understands how		
11	A. It could be way fewer.	11	we got to these things, but what is that that's now on		
12	Q. And it could be much more?	12	the screen?		
13	A. It could be much more.	13	A. So what that is, is that is the sum total of		
14	Q. Okay. So we don't know that. We don't know	14	all of the unique IP addresses during the period from		
15	that. We don't know the number of users. We've gotten	15	the beginning of October 2007 to the end of December		
16	that established.	16	2008, distinguished on the left by those unique IP		
17	Okay. Then can we tell the number of	17	addresses that originated in the United States. And the		
18	unique IP addresses with certainty? Not saying whether	18	number on the right is the number of unique IP addresses		
19	those are users or not?	19	for that period coming from outside the United States.		
20	A. Yes. We can know the number of unique IP	20	Q. So if you add these two numbers up, you would		
21	addresses, because that is what the script counts.	21	have the total number of unique IP addresses that hit		
22	Q. So those numbers are not guesses or estimates	22	Fedora during the 14-month period October '07 to		
23	or speculation. Those are actual, precise numbers of	23	December '08?		
24	unique IP addresses?	24	A. That's correct. If you add those two numbers,		
25	A. Yes. In fact, I'm so confident of our	25	it rounds up to 9.8 million total.		
	Page 182		Page 184		
1	methodology that I published some source code.	1			
		\perp	O. Which was about what Mr. Gemini was talking		
2	O. Well, we'll come back to that.	1 2	Q. Which was about what Mr. Gemini was talking about for total number of IP addresses?		
2 3	Q. Well, we'll come back to that. And then the final thing I want to ask you	1 2 3	Q. Which was about what Mr. Gemini was talking about for total number of IP addresses?A. Which is probably no surprise there.		
2 3 4	Q. Well, we'll come back to that. And then the final thing I want to ask you is, so you said that we know for sure that if you add	1 2 3 4	Q. Which was about what Mr. Gemini was talking about for total number of IP addresses?A. Which is probably no surprise there.Q. Right. So we know that with certainty, those		
2 3 4 5	Q. Well, we'll come back to that. And then the final thing I want to ask you is, so you said that we know for sure that if you add that up, that's the total number of unique IP addresses?	1 2 3 4 5	Q. Which was about what Mr. Gemini was talking about for total number of IP addresses?A. Which is probably no surprise there.Q. Right. So we know that with certainty, those totals?		
2 3 4 5 6	Q. Well, we'll come back to that. And then the final thing I want to ask you is, so you said that we know for sure that if you add that up, that's the total number of unique IP addresses? A. That's right.	1 2 3 4 5 6	 Q. Which was about what Mr. Gemini was talking about for total number of IP addresses? A. Which is probably no surprise there. Q. Right. So we know that with certainty, those totals? A. Yes. 		
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	Page 185			Page 187
1	O. Okay. And did you determine, just as a	1	CERTIFICATION	
2	percent, what what the total number of unique IP	2		
3	addresses in the United States constituted of the total	3		
4	number of unique IP addresses?	4	I HEREBY CERTIFY the	at the foregoing is a
5	A. Yes, I did.	6	of the proceedings in the above-er	titled matter to the
6	Q. What is that percent?	7	best of my ability.	
7	A. The math says that if you take 1.5 million out	8		
8	of a total of 9.8 million, the number adds up to a	9		
9	little bit less than 16 percent in the U.S. versus the	10		
10	whole world.	11	DONNA COLLINS, CSR	Date
11	Q. So just as a matter of math then, am I correct,		Deputy Official Court Reporter	
12	that we know with certainty	12	State of Texas No. 1086	
13	A. Right.	10	Expiration Date: 12/31/10	
14	Q that the number of unique IP addresses from	13 14		
15	the United States during the damages period was just	15		
16	less than 16 percent?		GLENDA FULLER, CSR	Date
17	A. That is correct.	16	Deputy Official Court Reporter	
18	Q. Does that number surprise you? I mean, would	1 🗆	State of Texas No. 1042	
19	you have expected it to be higher than 16, lower than	1/ 18	Expiration Date: 12/31/10	
20	16?	19		
21	A. It actually doesn't surprise me at all, because	20		
22	if you look at the total number of people in the world	21		
23	that can access the internet, it's almost 2 billion	22		
24	people.	23 24		
25	And if you look at the total number of	25		
	Page 186			
1	people in the United States who have an internet			
2	connection it's another number that's assented my mind			
2	But when you do the math approximately 14 percent of			
4	all the internet users in the world are based in the			
5	II S			
6	So it's no surprise to me at all that			
7	if there's 14 percent of all internet users are from			
8	the U.S. it's no surprise at all that approximately			
9	15-some percent of Fedora users are in the U.S. and the			
10	numbers bear that out			
11	O. Thank you. Let's do the documents I had asked			
12	for.			
13	THE COURT: Mr. Krevitt. do you want to			
14	check the clock at any point?			
15	MR. KREVITT: I'm at the jury and the			
16	Court's preference. I don't maybe it makes sense to			
17	stop now.			
18	THE COURT: Okay. You know best.			
19	Let's take our hour break.			
20	MR. KREVITT: Thank you.			
21	(Lunch recess.)			
22				
23				
24				
25				