

IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF UTAH
CENTRAL DIVISION

| | | |
|------------|---|------------------|
| In re: |) | |
| |) | |
| NOVELL, |) | |
| |) | |
| |) | |
| Plaintiff, |) | |
| |) | |
| vs. |) | Case No. |
| |) | 2:04-CV-01045JFM |
| MICROSOFT, |) | |
| |) | |
| Defendant. |) | |
| |) | |
| _____ |) | |

BEFORE THE HONORABLE J. FREDERICK MOTZ

November 16, 2011

Daily Transcript of Jury Trial

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| DIRECT EXAMINATION | 2081 |
| BY MR. TASKIER | |

1 Salt Lake City, Utah, November 16, 2011

2 (Whereupon, the following was held in chambers
3 out of the presence of the jury.)

4 THE COURT: Good morning everybody. My contact lens
5 got lost in my eye. Yes, sir.

6 MR. SCHMIDTLEIN: Um, good morning, Your Honor. Just
7 a -- this is just for the record and we don't know who is
8 out there in the court and who is not. Um, you know in a
9 number of instance you have questioned -- examined some of
10 the witnesses during the course of the case which obviously
11 the Court has every right to do. Um, in some instances you
12 have examined the witnesses in the presence of the jury.

13 THE COURT: Last time I did.

14 MR. SCHMIDTLEIN: I think there has been a couple of
15 those. And obviously that took place with Dr. Noll. So
16 we're making our record here. We do object to Your Honor
17 questioning the witnesses in front of the jury. Um, we will
18 bring the witnesses back. We know you were trying for
19 efficiency sake.

20 THE COURT: Last time was. But that last one, of all
21 of the others, I strongly agree with you. I would prefer
22 not to do it in front of the jury.

23 MR. SCHMIDTLEIN: So we have obviously got another
24 witness here today. If Your Honor has questions, we would
25 just respectfully ask that you either dismiss the jury or if

1 it is at a time when in the middle of cross-examination --

2 THE COURT: I will either dismiss the jury or if it is
3 a particularly sensitive question so that it may get
4 reported, I'll bring him back here.

5 MR. SCHMIDTLEIN: That would be our request.

6 THE COURT: That is perfectly reasonable.

7 MR. SCHMIDTLEIN: Okay. That is all we had. Thank
8 you very much.

9 MR. JOHNSON: Thank you.

10 THE COURT: Sure. Sure.

11 (Whereupon, end of chamber conference.)

12 THE COURT: Let's get the jury and get a live witness.
13 And if the live witness will come up to the stand, please.

14 THE CLERK: Please rise for the jury.

15 (Whereupon, the jury returned to the courtroom.)

16 THE COURT: Good morning, everybody. Excuse me. I'll
17 turn on my mike. Good morning everybody. The next witness.
18 I was afraid that we lost you, Mr. Taskier. Good to see you
19 again.

20 MR. TASKIER: Thank you, Your Honor. The plaintiff
21 Novell calls Dr. Frederick Warren-Boulton as its next
22 witness.

23 THE COURT: Please come forward, Doctor.

24 THE CLERK: Raise your right hand, please.

25 //

1 FREDERICK R. WARREN-BOULTON,
2 called as a witness at the request of the Plaintiff,
3 having been first duly sworn, was examined
4 and testified as follows:

5 THE WITNESS: I do.

6 THE CLERK: Please be seated. Please state your full
7 name and spell it for the record.

8 THE WITNESS: My full name is Frederick Reginald
9 Warren-Boulton. That is F-R-E-D-E-R-I-C-K R-E-G-I-N-A-L-D
10 W-A-R-R-E-N hyphen B-O-U-L-T-O-N.

11 THE CLERK: Thank you.

12 DIRECT EXAMINATION

13 BY MR. TASKIER:

14 Q. That is a double-barrel name; isn't it.

15 A. Yes, it is a hyphenated name. My father was a
16 British Army Officer during World War II and my mother was
17 American so I inherited this enormously long name. As a
18 result, everybody just calls me Rick. It is a lot shorter
19 and saves a lot of time.

20 Q. So Dr. Warren-Boulton, could you tell us where
21 you work?

22 A. I am an economist at MicRA. MicRA stands for
23 Microeconomic Consulting and Research Associates. It is a
24 Washington based consulting and research firm.

25 Q. And by whom was it founded?

1 A. MicRA was founded by myself and four friends.
2 All of us are -- used to be in the antitrust division with
3 the U.S. Department of Justice as economists. We basically
4 think of ourselves as an alumni organization for the
5 Department of Justice.

6 Q. Now where did you go to college?

7 A. I was an undergraduate at Yale University. And I
8 got my bachelor's degree -- I'm sorry, I should slow down.
9 I got my bachelor's degree in economics from Yale.

10 Q. Can you tell us where you did your graduate work?

11 A. From Yale I went to Princeton. I went to the
12 Woodrow Wilson School of Public and International Affairs, a
13 master's degree in public affairs, and then went through the
14 economics program and --

15 (Whereupon, the reporters slowed the witness down.)

16 THE WITNESS: Where were we?

17 Q. (By Mr. Taskier) We were at the Woodrow Wilson
18 School at Princeton.

19 A. Sure. I got my masters of public affairs from
20 Woodrow Wilson School, and then into the economics program.
21 My PhD in economics from Princeton.

22 Q. Did you prepare a slide to show the jury what you
23 did after graduate school?

24 A. Yes, I did.

25 Q. All right. Can you tell us what you did after

1 graduate school?

2 A. Well, like most PhDs I went and taught for about
3 11 years. I was an assistant and then associate professor
4 of economics at Washington University in St. Louis. And
5 then got tenure. And after ten years of teaching, I decided
6 to do something a little more interesting.

7 So like all economists I came to Washington which is
8 our natural home and I became originally the chief economist
9 at the Department of Justice in the antitrust division and
10 wound up staying for about six years. First as the chief
11 economist and then as what is called the Deputy Assistant
12 Attorney General for Economics in the Department of Justice.

13 Q. But you're not a lawyer?

14 A. No, no, I'm not a lawyer. And oddly enough in
15 all my years at the Department of Justice nobody ever
16 noticed that I wasn't a lawyer. It seems fairly easy to
17 fake it. I'm sorry I shouldn't be saying that. That was an
18 extemporaneous comment.

19 Q. How many economists were working for you at the
20 antitrust division?

21 A. The division has about the largest or the next
22 largest group of professional economists, there were 50 PhD
23 economists there, a total staff of about 100.

24 Q. What did the economists at the Department of
25 Justice do?

1 A. Well, the antitrust division shares with the
2 Federal Trade Commission, those are the two organizations
3 that enforce the antitrust laws. Um, the antitrust division
4 is part of the Justice Department and so it is the only one
5 that is allowed to do criminal work. And so as a result,
6 the Department of Justice, the antitrust division, does
7 things like criminal work like price fixing, but it also
8 does a great deal of mergers, monopolization cases, similar
9 to this one, um, and it also particularly economists had a
10 very wide range of programs of what is called competition
11 advocacy which was we were kind of let loose on the rest of
12 the government to sort of file statements and try to
13 encourage them to behave more competitively and more
14 pro-consumer. So we ran almost like a consulting firm
15 within the Department of Justice for all of the agencies.

16 Q. During which presidential administration were you
17 the chief economist for the Department of Justice?

18 A. I was the entire Reagan Administration guy.

19 Q. So when the Reagan Administration ended, what did
20 you do?

21 A. Well, I had been in government for quite some
22 time and I taught and so I did what most people in that
23 situation do is I found myself in a think tank, and I parked
24 myself at a think tank in Washington called the American
25 Enterprise Institute where you're supposed to think deep

1 thoughts and write a book or something. And I also went
2 back to teaching for a while at Princeton but it wasn't
3 nearly as much fun as it used to be. And so in 1991, we
4 formed MiCRA which is a research and consulting organization
5 and I have been doing that ever since.

6 Q. So you have been testifying in legal proceedings
7 since 1991?

8 A. And indeed before, yes.

9 Q. Good point. In what kind of legal proceedings
10 have you testified?

11 A. Well, I have testified both in private
12 proceedings between private parties like this one, but I
13 have also testified a fair amount in proceedings that
14 involve government agencies like Department of Justice or
15 the Federal Trade Commission. And those tend to be the
16 better known because more people have noticed that.

17 Q. Did you prepare a slide listing some examples of
18 cases in which you have testified?

19 A. Sure. These are all cases involving the
20 government. Back -- in fact, when I was at Washington
21 University, I testified for the Department of Justice in its
22 monopolization case against AT&T. Some of us at least will
23 remember the days when there was only one phone company and
24 it was AT&T and just Ma Bell and that was it. And this was
25 the case that broke up AT&T into bits, long distance and

1 local, and broke it up into all of the local operating
2 companies that we now know. And it is a bit of ancient
3 history and I was, of course, a child at the time when I
4 testified, but since -- since leaving the Justice
5 Department, I have testified on behalf of the Federal Trade
6 Commission, which is the sister organization, which enforces
7 the antitrust laws in the merger of -- the attempted merger
8 of Staples and Office Depot. The judge blocked that merger.
9 As a result, I guess there is both Staples and an Office
10 Depot store in Salt Lake and I hope what that means is that
11 you can buy your office supply cheaper than if the merger
12 had gone through. That certainly was our argument.

13 Most perhaps relevant to this case I testified on
14 behalf of the Department of Justice in its monopolization
15 case against Microsoft. Um, and then I just finished
16 testifying for the Department of Justice in a merger case
17 involving H&R Block and the Tax Act, involving tax -- at
18 home tax software. And the judge in fact just enjoined that
19 merger and I guess the result will be that for those of you
20 who do your own taxes at home, and do your own software,
21 you'll still have a choice between three major types of
22 software and you can do H&R Block or you can do Turbo Tax or
23 you can do something called Tax Act. So it will still be
24 three instead of two. We hope that will benefit consumers.

25 Q. So did those courts and all of the other courts

1 in which you have testified, admit you as an expert in those
2 cases?

3 A. Yes.

4 Q. And have you reviewed the damages report
5 submitted by Microsoft's expert, Dr. Hubbard, in this case?

6 A. Yes.

7 Q. And are you prepared to offer your own opinions
8 in this case?

9 A. I am.

10 MR. TASKIER: Your Honor, I would move to admit
11 Dr. Warren-Boulton as an expert in the subject of antitrust
12 economics.

13 MR. JARDINE: No objection, Your Honor.

14 THE COURT: You may give your opinion.

15 MR. TASKIER: Thank you, Your Honor.

16 Q. (By Mr. Taskier) Can you tell the jury how MicRA
17 is compensated for the work performed by you and your team
18 in this case?

19 A. MicRA is compensated on the case by the time that
20 I put in and the time my staff puts in and any expenses on
21 its behalf.

22 Q. Is the compensation to MicRA contingent in any
23 way on the outcome of this case?

24 A. No, it is not.

25 Q. Is your compensation contingent in any way upon

1 the outcome of this case?

2 A. My personal, no.

3 Q. Now, Dr. Warren-Boulton, there are, I think, 150
4 pages of expert reports in this case, and I think three or
5 four times this volume of backup material. Um, that is
6 pretty dense reading; isn't it?

7 A. That is pretty long and most of it is my fault.

8 Q. Well, I really don't want to burden the jury with
9 10,000 pages of graphs and calculations. So is it possible
10 for us without going through all of that intense detail and
11 having to get an advanced degree in economics to get your
12 sum and substance of your opinions in a way that is, you
13 know, I understand it is a going to be pretty complicated,
14 but can we streamline it for the jury and let it all come in
15 so that everyone will understand it?

16 A. I will give it my best shot and it may still be
17 long and at times tedious, but I will do the best I can.

18 Q. All right, that is all we can ask. First of all
19 can you please tell the jury when you were retained by
20 Novell and what you were asked to do in this case?

21 A. Um, I was asked to assume liability. That is, to
22 assume that the jury has found for Novell on the issue of
23 whether or not Microsoft has in fact engaged in
24 anticompetitive acts. And then given that, to ask the
25 question what is the financial harm that has resulted from

1 those anticompetitive acts to Novell.

2 Q. When you say financial harm, you were asked to
3 calculate the damages and the financial harm. What does --
4 what precisely do those damages represent?

5 A. Well, the important thing is that it is -- I am
6 charged with assessing just the harm to Novell that results
7 only from the bad actions of whatever the jury finds to be
8 the bad acts of Microsoft. Other things might have affected
9 Novell's wellbeing or affected these applications, but my
10 charge is simply to determine what was the effect of the
11 acts that the jury determines to be anticompetitive and
12 illegal.

13 Q. As an overall conclusion, do you have an opinion
14 about whether Novell was damaged as a result of Microsoft's
15 anticompetitive conduct?

16 A. Yes, I do.

17 Q. What is that opinion?

18 A. And that is that it was in fact damaged
19 substantially.

20 Q. Have you prepared a set of slides to help the
21 jury follow your testimony?

22 A. Yes.

23 Q. As part of the slides you have prepared, have you
24 prepared a slide that summarizes your view of how Microsoft
25 anticompetitive conduct damaged Novell?

1 A. Yes.

2 Q. Could you explain your understanding of harm to
3 Novell?

4 A. Well, there is two -- two types of harm here.
5 The primary one is that what Microsoft did by pulling the
6 namespace extensions, which is something I am sure by now
7 you have heard a great deal about, it delayed the release of
8 PerfectOffice until around May of 1996, far past the date of
9 release of Windows 95 in August of 1995. So the first is
10 the delay of the release. And the second is that even when
11 that application was eventually released, the functionality
12 of that application was seriously reduced.

13 Q. Why, if at all, would it be important to have a
14 new Novell application for Windows 95 come out at or around
15 the time that Windows 95 was released to the general public?

16 A. Well, I don't mean to repeat an awful lot that
17 you may or may not have heard, but Windows 95 or the release
18 of Windows 95 was a really big event. Everybody thought
19 that it was going to be to massive sales and, in fact, it
20 was an extraordinarily successful release. And when you
21 release a new operating system like that, and it has all
22 kinds of new and interesting functionality, it creates the
23 opportunity for applications also to be released at the same
24 time that it takes advantage of all of that new and
25 exciting, you know, functionality.

1 So if you can release an application at about the same
2 time as the release of the operating system, you can in fact
3 do -- you can make a lot of sales. And Novell was in a
4 position in which it had a large install base, very devoted
5 WordPerfect users, and this was really an opportunity for
6 Novell to be able to make really significant sales of what
7 we would call WordPerfect for Windows 95.

8 Q. What happens, if anything, if Novell application
9 comes down too late?

10 A. If the application comes out too late, what I
11 mean by too late it really depends on how late people are
12 willing to wait. Um, if you are a loyal WordPerfect user,
13 to be honest myself, um, you are willing to wait for at
14 least some time period. But the problem is that if -- if
15 the release is too delayed and you really want to have a
16 word processor, an application with suite that takes
17 advantage of Windows 95, you know, eventually you get to the
18 point where you say I'm just not going to wait any more.
19 And at that point you say heck, I will just switch and you
20 go with whatever it is that is the most popular alternative
21 which in this case would clearly be Word A0 or Office Suite.

22 And so this appears to be a time frame in which if you
23 could have some delay but if you have too much of a delay it
24 is kind of like a spring, it just kind of saps, and people
25 don't wait any more and then they switch. And once they

1 switch, it is very, very difficult to get people to switch
2 back because, you know, once you switch to say Office paid
3 the money for the software and you bought it, I think more
4 important for most of us, we have invested the time and the
5 effort in learning how to use the new applications. You
6 know, we're gone. And it is extraordinarily difficult once
7 you lose that install base of your guys, once you lose your
8 fans, you kind of have like lost them forever. So it is a
9 real, real problem.

10 Q. The jury has heard some testimony about something
11 called network effects. Can you explain, if at all, how
12 network effects are part of your analysis?

13 A. Sure. Network effects being said the more other
14 people are using a product, the more valuable it is to you.
15 Um, my favorite example of a network effect is I guess it is
16 a telephone. If there is just one of you on the telephone,
17 it is really not much use to you, I guess, unless you're
18 schizophrenic. So the more people who are hooked up to your
19 phone system, the more people you can talk to. And so the
20 larger number of people -- sorry the larger number of people
21 in the network, the more valuable it is to you. And the
22 same is true for a lot of software. In particular, in
23 things like word processing, um, I don't just write
24 documents by myself, I send my documents to my partner, I
25 may send my documents to my friends. And it is really

1 important to me that we can both go back and forth with the
2 same documents. And so, um, there is a real advantage to --
3 to having a large market share. The larger market share you
4 have, you know, the more people each individual person is
5 willing to pay to have that application. So the problem
6 with network effects in this -- in this market, it leads to
7 something called tipping which is when you -- when you get
8 up to a certain market size, you start, you know, you start
9 winning more and more. It gets better and better. And
10 sometimes I think you may have heard of it as feedback
11 effects. So when you -- when you start losing market share,
12 it is harder and harder and harder to get it back again.
13 That is the networks effect problem.

14 Q. Now turning to the second item on your slide, can
15 you explain your views on that to the jury?

16 A. Oh, um, yes. Well, that is -- that is fairly
17 straightforward which is that the lower the functionality,
18 the less the bells and whistles, the fewer the neat things,
19 what happens is your reviews aren't as good, and the quality
20 of your product isn't as good, and you sell less. So both
21 of these, both the delay and the reduction of functionality
22 are going to effect your sales and your profits and your
23 revenues. And the result is, by the way, and when you -- if
24 you fall behind, you know, a head start is absolutely
25 terrific. But it is also true that once you fall behind, it

1 becomes like a permanent disadvantage.

2 Q. So having determined that Microsoft's conduct
3 damaged Novell in these fashions, how do you go about
4 calculating money damages to address that, the effect of
5 those actions?

6 A. Well, what a damage process is a process of
7 taking what actually happened with the real world and you
8 have to compare it with what economists call a but for
9 world. And that is the world that would have existed but
10 for the actions that whatever the jury decides are
11 anticompetitive and illegal.

12 So in that sense, you're constructing that but for
13 world as it is exactly the same except for whatever it is
14 that the jury decides is illegal. If any of you are sci fi
15 fans, it is kind of like constructing an alternative
16 universe. Only one thing has changed and you have to see
17 what happens.

18 Now, that -- that can, in many cases, be very
19 difficult. It is actually a little easier here than normal.
20 But constructing a but for world involves a lot of -- a lot
21 of judgment, a lot of possibilities. And as a result, you
22 know, you can never be exactly sure, okay, about what would
23 have happened in that but for world. And so what I like to
24 do in doing damages, and I think I hope this is standard
25 practice, is that I try to ask myself what is the best and

1 most accurate way to go about estimating damages. What is
2 the methodology here. That is going to be my primary
3 methodology. What do I think is best.

4 Then what I like to do is I like to go out and see if
5 I can look at that problem from several other completely
6 different directions, and see what kind of results I get if
7 I have, you know, several different methodologies. And it
8 is basically as a kind of -- I think of it as a reality
9 check on my primary methodology. It would be -- it would be
10 as if you were trying to figure out what the height of Mount
11 Everest or a mountain was, and maybe the best view of Mount
12 Everest is from the south and so you measure the mountain
13 from the south. But you probably also want to go around and
14 look at it from the east and then the north and the west
15 just to make sure that, you know, that the measurement that
16 you made from the south looks pretty realistic. And so
17 these are basically reality checks. And so part of what is
18 going to go on here, is that I'm going to talk mainly about
19 my primary methodology, but then I'm also going to go
20 through a couple of the other alternative ways of getting at
21 them.

22 Q. So this but for world that you construct, this
23 alternative universe, is an alternative universe that
24 assumes what change?

25 A. Well, I think -- I am not a liability expert, but

1 the thing to me that has changed is it would be a world in
2 which Microsoft did not pull the -- did not deduct the
3 namespace extensions and therefore it would be a world in
4 which Novell would have released PerfectOffice for 95 you
5 know at or close to the release date of Windows 7 -- or
6 Windows 95. So that is -- that is basically the one change
7 that we're making in our -- in our history here. That they
8 would have been able to come out at or close to the release
9 date of Windows 95.

10 Q. And you prepared damages based on a variety of
11 different approaches that approximate looking at the
12 mountain from the south and the north and the east and the
13 west?

14 A. Yes.

15 Q. And have you prepared a chart for the jury and a
16 hard board chart that show the various ways that you can
17 calculate that damages?

18 A. Yes. But I don't see it.

19 Q. All right. That is the one on the screen and we
20 will bring up the hard board one so we can refer back to it.

21 Okay. Can you tell us what this chart is
22 supposed to tell the jury?

23 A. Sure. As I said before, I like to look at
24 several different approaches to estimate the damages here.
25 Um, the primary one that I am going to use is something we

1 call the purchase versus sale methodology and those are the
2 first two there. Um, the purchase versus sale financial
3 market methodology is going to be a methodology that looks
4 at purchase price and the sale price, but then makes a
5 number of adjustments. But those adjustments are going to
6 heavily depend upon the information gleaned from looking at
7 the financial market reactions to -- reactions to the
8 events.

9 In effect, we're going to look and see how the
10 financial market evaluated certain outcomes. And that leads
11 to a damage estimation of about 976,000,000. In addition, I
12 am offering an alternative of purchase versus sale
13 methodology that doesn't rely so heavily on the ability of
14 the financial markets to immediately understand the long run
15 effects of certain actions. And so I am using a bid from
16 Lotus to -- instead of reactions of the financial markets.
17 And that generates a significantly higher number.

18 And then in addition to the two purchase versus sale
19 methodologies, I guess my east and west methodologies, we
20 are going to look at what happened on October 6th, 1995 when
21 there was an announcement by Novell that -- that Windows 90
22 -- their product PerfectOffice for Windows 95 was going to
23 be seriously delayed. Now that is -- that is at the core of
24 what the anticompetitive acts are because pulling the
25 namespace extension resulted in the delay. And it was

1 October 6th, 1995, that the market really learned there was
2 going to be a really serious delay or significant delay in
3 -- in that. And the market's reactions was to drop the
4 value of Novell stock by a very large amount. And so you
5 have a kind of like an immediate estimate of the financial
6 markets thought was the effects of pulling the namespace
7 extension.

8 And then finally the last methodology is to try and to
9 look to do a forecast methodology in which we look at where
10 Novell's product was before the release of Windows 95, and
11 based on its history, if you like, we then take that, then
12 we use the experience of other similar companies that
13 weren't affected by pulling the namespace extension and then
14 we try to ask the question how would we have expected
15 Novell's sales and revenue and profits to have been if it
16 had followed the similar path to other companies that
17 weren't affected by Microsoft's bad actions. And that leads
18 us into an estimate of damages of also about a little over a
19 billion. That is a preview of things to come.

20 Q. So let's just talk about purchase and sale for a
21 second. Essentially you're saying that your primary method
22 is to take the price at which Novell sold the applications?

23 A. Yes.

24 Q. And subtracts it from the price at which Novell
25 purchased the applications to get --

1 A. Yes.

2 Q. -- a basic damages number?

3 A. That is right. And as you can see, I have sort
4 of added those numbers at the bottom both for you and to
5 help me to be honest.

6 Q. That is a pretty straightforward approach?

7 A. That is a very straightforward approach.

8 Q. Why do we need an economist honestly?

9 A. Well --

10 Q. To add and subtract?

11 A. You always need an economist. We do all sorts of
12 things, we cut your lawn and things like that. But I guess
13 in this particular case, um, I would suggest that an
14 economist, perhaps an expensive economist, might be useful
15 to you for two things. The first is that if you -- if you
16 just look at the difference between the purchase and the
17 sale which I have down at the bottom, we're going to see
18 these numbers a lot so after a while you will recognize some
19 of them, but they purchased -- Novell purchased these two
20 products in March of 1994 for a total of a little over one
21 and a half billion dollars. It is a lot of money. Less
22 than two years later, they sold those applications to Corel
23 for \$146 million. Now, if you just take a look at the
24 difference between the two, it looks like -- like Novell is
25 out about \$1.4 billion. And so that is basically where you

1 start. You have a purchase and you have a sale number. But
2 I think as an economist, the first thing that I would do is
3 say not all of that is damages to Novell. So we can't just
4 take the purchase price and the sale price and subtract and
5 say and sorry you know we have to make clearly a number of
6 adjustments because it is going to be a little complicated.

7 And the second thing I think what as I say an
8 economist can do for you is given that the nature of those
9 adjustments, and there will be professional disagreement,
10 there will be a lot of professional disagreement as to what
11 those adjustments should be, I think it is really important
12 that you also look at the problem different ways and come up
13 with other ways to estimate damages because our real concern
14 is do we have a number that is in the right ballpark.
15 Nobody can give you a number here that is -- that is right
16 to, you know, and 48 cents.

17 So our real concern here is we want to get like the
18 right order magnitude. We want to get a feeling for just
19 about what is the right number. And I think it is important
20 to look at alternative ways of going about it so that you
21 have some reasonable confidence that you're not way off in
22 the estimate you have come up with.

23 Q. So these sets of numbers that you have come up
24 with, do they give you that sense of confidence?

25 A. Yes. Yes, I have got -- I have got one, two,

1 three, four -- four ways of going about this. Um, I come up
2 with numbers which I know that it looks like quite a range,
3 but since, you know, my view is that given that I have some
4 faith in financial markets, um, and methodology, first one
5 of 976,000,000, that is basically what I offered here as --
6 as my choice of what I would choose as damages. And I would
7 use the others as basically a confidence that I'm not too
8 far off. I'm trying to be conservative here.

9 Q. Dr. Warren-Boulton, in the world of normal
10 people, this is not exactly money that we carry around in
11 our pockets?

12 A. It is a lot of money to me, too.

13 Q. These are very large significant numbers. Can
14 you explain to the jury why and how it is that it can be
15 that damages are quite this large, are quite this large.

16 (Whereupon, the reporter asked Mr. Taskier to
17 speak louder.)

18 THE WITNESS: I'm having problems, too. I think you
19 have to put it in a little bit of context in the industry
20 and the revenues in the industry and that is what I have
21 apparently done.

22 Um, these graphics get fancier and fancier after a
23 while and sometimes they make me seasick. This is -- this
24 is a plot of revenue for business productivity applications.
25 This is basically Office and things like this. This does

1 not include the operating systems. This is the stuff that
2 sits on top of the operating system. And this is revenue
3 for Microsoft and revenue for Novell. And just looking at
4 it from 1994 to 2002 what you -- what you see is that there
5 is -- Microsoft is the revenue in blue, um, Novell/Corel is
6 the revenue in red. Some of that blue revenue is more
7 revenue than Office, but most of that revenue is Office.
8 There is a quote up there from Jeff Raikes in an e-mail to
9 Warren Buffett which says, we even in 1997 if you look at
10 that 1997 blue line, what he is saying is Office in 1997 was
11 about five billion. So most of this revenue was Office and
12 he is saying it is an enormously profitable industry market,
13 it has 85 percent margin on this and a 90 percent share. So
14 we are talking about a very, very large amount of revenue
15 over this time period.

16 Q. Did you look at revenue beyond the 2002 time
17 period?

18 A. Yes, just -- well fantastic. Well, we have just
19 seen from '94 to 2002. This is just Microsoft's revenue, I
20 just ran it out to 2010. And the amount of money here is
21 simply enormous. But the total over this entire period is
22 about \$175,000,000,000. So I think what you want to do is
23 when we say 978 billion or over a billion dollars, the
24 context of it is an industry in which if Novell had stayed
25 and remained active in this industry, we're talking about an

1 industry revenue of about 175 billion dollars. So a billion
2 dollars is less than one percent of the revenue over this
3 time period.

4 Q. So you have found that damages have ranged from
5 your primary estimate of \$976,000,000 to 1.1 billion and 1.3
6 billion. How do your damage estimates compare to
7 Dr. Hubbard's damages estimates on behalf of Microsoft?

8 A. Well, I said that what you're going to see at
9 some significant disagreement between professional
10 economists in this particular case. Dr. Hubbard's
11 estimates, actual estimates of damages, are actually
12 negative when he calculates his numbers.

13 Now I don't think that what Dr. Hubbard is saying is
14 that Novell owes Microsoft money. I think what Dr. Hubbard
15 is saying is that when he looked at it, he can't find any
16 significant damages whatsoever. Now throughout I should
17 paraphrase Dr. Hubbard will be here and he will have his
18 chance to talk to you and I really don't want to put words
19 in his mouth. But we have been swapping reports. But
20 Dr. Hubbard will have his chance to explain his position
21 when he gets here.

22 Q. So let me just ask. In his report, does his
23 report assume that there -- that the jury finds liability
24 and that nonetheless there is zero damages?

25 A. Yes, that is correct. So he assumes the same I

1 do that there is liability in terms of pulling the namespace
2 extensions and the effects but his conclusion is that there
3 are no damages.

4 Q. So that in his view Novell was not harmed at all?

5 A. That is correct.

6 Q. All right. Let's look, if we can, a little more
7 closely at how you calculated damages under the purchase
8 versus sale approach. Can you explain in a little more
9 detail how this approach works?

10 A. Well, we're going to build it up slowly, okay.
11 And this is -- this is basically our beginning point which
12 is just the subtracting to get to the difference in purchase
13 and sales. And it is sort of a little to ground everybody,
14 um, in March '94, Novell bought WordPerfect for 1.4 billion
15 and Quattro Pro for 1,555 billion. Now, we are all familiar
16 with the 1.555 billion number. Now that is a transaction
17 between, you know, a willing buyer and willing seller which
18 is, to economists, the best way to arrive at what we think
19 something is worth.

20 If there is no pressure, nobody is forced to buy,
21 nobody is forced to sell, when we look at an asset when we
22 say what is the value of the asset, what is the best value
23 of that asset, we say it is what a willing buyer is willing
24 to pay to a willing seller. Whatever that is. Now
25 similarly in January of '96, we had a sale to Corel of 146

1 and again under the same principle, um, you know, an
2 economist looks at this and says 146 is -- is the best
3 estimate that we are ever likely to come up with as to what
4 those assets are worth in January of 1996. And I know
5 Dr. Hubbard and I disagree with this.

6 So if we take a look at simply the difference between
7 the purchase and the sale price, 1.555 and the 146, that is
8 where we get this very large number that Novell lost, okay,
9 1.409 billion. And that is where we're going to begin this
10 process.

11 Q. So it is fair to say that as an economist that is
12 just where you would start?

13 A. That is where you have to start because you now
14 have to ask the question is there something else, are there
15 other factors that affected these values, is there some
16 other reason for why these numbers went the way they did.
17 So we're going to have to unfortunately spend some time
18 trying to unpack this and adjusting this number to get it
19 down to what we actually think is the right damages number.

20 Q. Have you come up with a way to present it to the
21 jury in a nongraduate degree of economics approach to
22 explain how you unpack these numbers?

23 A. Yes. I thought I would talk about it as houses
24 in the hope that a fair number of you have bought a house or
25 sold a house or plan on buying or selling a house, that that

1 might be a nice way to do it and I think it is powerful and
2 is really quite close.

3 Let's suppose we're back in 1994 and you bought a
4 house -- you paid 100,000 for a house which is really low
5 but you have to take yourself back before the great housing
6 boom and you just bought yourself a house in 1994 and you
7 have laid out 100,000 bucks in cash for this thing. And
8 you're happily living in your house for about a year and a
9 half until 1996 and then you have a dispute with someone and
10 an arsonist burns your house down, okay. So there you are
11 in 1996, your house is burned down. And so what you have to
12 do is you sell the remains of your house and the lot that it
13 sits on and you sell it for \$20,000 in 1996. And if
14 somebody said to you, well, you know, what is the harm to
15 you because of the -- if you were suing the arsonist, you
16 would probably sue them for \$80,000. So that is kind of
17 like our first step here.

18 Q. How does that relate to the purchase versus sale
19 approach of the applications in this case?

20 A. Well, that is what we have just seen which is
21 that is the parallel to they bought it for 1.555 and sold it
22 for 1.46 and then the adjusted damages are 1.409. That is
23 where we begin our story.

24 Q. Now, I noticed that this says unadjusted. Did
25 you make adjustments to take into account a portion of lost

1 value that is not due to Microsoft's actions?

2 A. Yes. I made three, basically three separate
3 adjustments to this number. And let me -- let me use my
4 house example. And so I am going to keep changing the story
5 a little bit here. Let's suppose that when -- when you
6 bought the house it turned out that you bought not only the
7 house and the lot that it was on, but you also bought the
8 lot next door. So you actually have two lots. And when
9 your house burned down, um, you wound up selling the house
10 and the lot that it sat on, but you kept the second lot,
11 okay.

12 And let's suppose that in 1994 that lot was worth
13 \$10,000. Well then you can't really include that in damages
14 because you kept that lot, right. So what we really have to
15 do is we have to start with looking at damages. We have to
16 start by asking what is the value of the stuff that was
17 damaged and that you actually sold. So we're going to
18 subtract off value of the second lot, and now the value of
19 our total purchase has fallen by \$10,000 to 90,000 and, of
20 course, our damages will have fallen by \$10,000 as well.

21 Q. You said you make three adjustments. Do you make
22 another adjustment?

23 A. I certainly did. Let me get another one. Um,
24 okay, continuing with our story let's suppose that your
25 company just transferred you into Salt Lake suddenly. Um,

1 you were looking for a house for your family. Um, you
2 didn't have a great deal of time to search and perhaps as a
3 result you overpaid someone for the house that you bought.
4 You know, perhaps you didn't inspect the house as well as
5 you could. You didn't notice that there was water in the
6 basement. And as a result, a reasonable person coming along
7 would have said gee, you know, you could have gotten this
8 house for \$5,000 less so you overpaid for the house by
9 \$5,000. Now that is a harm to you, but it is not -- it is
10 not the arsonist's fault. And so we have to take that away,
11 too, because we have to come to a fair market value of what
12 was damaged. So let's take out the \$5,000 for the
13 overpayment and now we're down to \$85,000.

14 Q. And did you have another adjustment?

15 A. I do.

16 Q. Amazing.

17 A. And the third adjustment is that, you know, you
18 bought the house in 1994 and you lived it in a couple of
19 years and again, this is -- this is back before the big
20 housing boom but houses were appreciating in '94 and '96.
21 And so between '94 and '96, say housing prices were going up
22 at five percent a year. So, um, over that time period your
23 house would have gone up by 10 percent, okay.

24 So over really that time what is the value of the
25 house at the time it was burnt down. Well, at the time it

1 was burnt down, your house has appreciated by 10 percent,
2 which is the 8,500, and so we have to add that back in
3 again. So what our third adjustment takes us to, as close
4 as I can get, is you know what was the value of the house,
5 you know, at the exact moment that that arsonist, you know,
6 threw that bottle of gasoline in through your front door,
7 okay, and here is \$93,500. And now what I can do is I can
8 say all right, I went and I sold that house on that lot and
9 just that lot for \$20,000, my damages are 73 -- \$73,000.

10 Q. So that is a house. How does that relate to the
11 damages in this case and what you did?

12 A. Well, what we're going to find is that Novell's
13 case is exactly the same kind of analysis. All three
14 adjustments need to be made for our -- in our Novell case.
15 And there they are. Okay. Some of this, I hope, is
16 familiar after all of this testimony that you have heard.
17 But let's begin with our 1.555 billion and let's do our
18 first problem which is the second lot that you kept.

19 Now, as I understand that you have heard I think in
20 particular from Mr. Frankenberg there was an application
21 that Novell purchased as part of WordPerfect called
22 GroupWise. And Mr. Frankenberg thought very highly of this
23 application and Novell kept this application when it sold
24 the rest of the applications to Corel.

25 So we have to come up with a valuation of GroupWise

1 because they didn't sell GroupWise, they kept GroupWise. So
2 GroupWise is like my second lot, right. We can't include
3 the value of GroupWise in damages because Novell kept it.
4 So the trick here is to try to come up with a valuation for
5 GroupWise in 1994. So in our mental process we sort of
6 imagine this -- suppose that the subtracted off value of
7 GroupWise back in 1994 just like we subtract off the value
8 of the second lot back in 1994, and, um, we'll spend some
9 time on this, but I came up with a valuation of what I think
10 is a conservative valuation for GroupWise in 1994 of about
11 117 million. And I know sometimes it is millions, sometimes
12 it is billions. It is like Karl Saigon I don't know if any
13 of you remember he would look up at the sky and say billions
14 and billions. So we are now down from the 117 million, so
15 we're now down to about 1.4 billion as the cost of the
16 applications in the actions sold.

17 So my next step is overpayment and that is where I
18 think most of this discussion is going to be. It has been
19 argued that Novell paid, overpaid for the WordPerfect
20 assets, and I tried to come up with a number which is
21 frankly as large as possible, as conservative as possible,
22 for the amount of the overpayment. And this particular
23 number 421 million is my estimate of the overpayment in the
24 first methodology. It is little complicated. It is used in
25 how the financial market reacted to a series of events. So

1 if you -- if you believe the way that the financial market
2 reacted to those events, and you thought that their
3 evaluations were quite good, you can get an overpayment
4 estimate as high as 421 million. I take that out, too,
5 because that is -- that is an overpayment that is really not
6 Microsoft's fault at all and so now I'm all the way down to
7 just a little over \$1,000,000.

8 The third adjustment is almost exactly the same which
9 we're talking about two years. And we have to put in some
10 idea of how those applications, WordPerfect applications and
11 Quattro Pro applications, would have appreciated over a two
12 year time period to get us to 1996. And that is adding
13 about 10 percent to 105. That gets us to our value in 1996.
14 Okay. We held on to it until 1996, sell it for 146 in 1996,
15 and that is the 976 damages, excuse me, that is over on the
16 top right over there (indicating).

17 Q. What kind of approach did Dr. Hubbard,
18 Microsoft's expert, use to assess damages?

19 A. Well, we both in fact in this sense we all -- we
20 both used the purchase sale methodology.

21 Q. Did you and he come to the same conclusions about
22 damages?

23 A. No. We used the same methodology but we have
24 come to extremely different conclusions, very.

25 Q. Now, are there areas in the purchase sale

1 approach where you and Dr. Hubbard actually agree?

2 A. Yes, there are a number of them. And the reason
3 why I would like to do this, and again I don't want to
4 prejudge or I don't want to tell you what Dr. Hubbard is
5 going to say, but rather than just talk about everything,
6 what I would really like to focus on is our areas of
7 disagreement. And in order to do that, you know, I have got
8 to say where I think we probably agree. And so to say I
9 think we basically agree on certain things and so what we
10 really need to focus on are the areas where we disagree.
11 And I think if I -- if I look through the areas of agreement
12 of Dr. Hubbard, and again my apologies if I don't have his
13 position correct, um, I think we both agree that a purchase
14 versus sale methodology is, in fact, the appropriate way or
15 an appropriate way to calculate damages in this case.

16 I think we also both agree on the amount of both the
17 purchase and the sale price. That is not going to be an
18 issue here. The 1.555 billion that they bought it for and
19 the 146 that they sold it for, there is no sign of any
20 disagreement there.

21 Dr. Hubbard and I, I believe, also -- or Dr. Hubbard
22 agrees with me, I think, that it is appropriate to make all
23 of the three kinds of adjustments that we have talked our
24 way through. It is important to make an adjustment for the
25 valuation of GroupWise as they kept it. He feels very

1 strongly and I have agreed that it is important to make an
2 adjustment for the possibility that Novell may have overpaid
3 for these assets. And we also agree that we need to make
4 some kind of adjustment for the appreciation in the asset
5 value from '94 to '96.

6 So in principle, um, we are -- we are in agreement in
7 all of that. The other is a little more subtle which I
8 think we are also in agreement on is if we are looking at
9 the amount of the potential overpayment, that second one
10 there, we can't look just to the fall in the value of
11 Novell's share price at the time that the announcement of
12 the purchase was made. I think we both agree that we have
13 to look at what happened to Novell's share price both when
14 the announcement was made that they were going to buy those
15 assets, and then later on when they decided to sell those
16 assets. We also need to look at what the financial market's
17 reaction was to the announcement and the sale of those
18 assets. So we have to look at both the purchase and the
19 sale end, you can't just look at the purchase side.

20 Q. Did you prepare a slide that illustrates on your
21 damages analysis what you and Dr. Hubbard agree and disagree
22 about?

23 A. Sure. And I think we have done it here, but we
24 agreed on two numbers, the 1.555 and 146. We agree on the
25 methodology and we agree in principle that GroupWise

1 overpayment and the apps appreciation should be included.
2 Where we are going to disagree, of course, is on the
3 numbers. There will be some very slight disagreement on the
4 issue of valuation of GroupWise, and a similar little or no
5 disagreement about the APPS appreciation. Where Dr. Hubbard
6 and I are going to be poles apart is on our estimate of the
7 overpayment here. His estimate is just going to be far, far
8 larger than mine. So he is going to have an overpayment
9 estimate which is much bigger than 421. And as a result,
10 sort of a mirror image of that is that if we're asking the
11 question what is the value of the applications that were
12 sold in 1996, I have a valuation of about \$1 billion. He is
13 going to have a valuation which is far, far lower, about
14 \$200,000,000. And those two are really the same issue
15 because the more you think is overpayment the lower you
16 think is the valuation sold as. So we can think of our
17 disagreement is a disagreement of overpayment or a
18 disagreement over what is the value of what they finally
19 sold to Corel in 1996.

20 Q. Did you prepare for the jury a graphical slide to
21 illustrate that problem?

22 A. Yes. Yes, I thought this would be useful to give
23 you a feeling of just how dramatic the difference is that
24 we're talking about here. We all agree on the 1.555 million
25 that that was the purchase price. The question that we have

1 got is how much of this is an overpayment and how much of
2 this is actually real value when it was sold. Um, and by
3 analysis what I have tried to do is estimate the overpayment
4 and I get a number up to about a \$421,000,000. And I have a
5 little -- somebody gave me one of these things, I don't know
6 if this is really going to help, if is annoying, if some
7 somebody could kind of wave at me, I find it terribly
8 annoying. Um, okay, um, I calculate overpayment up here of
9 421 million which is about 27 percent of the total price
10 that was paid. And that really leaves me with a true
11 valuation at the time of the sale of a little over a million
12 dollars. So 73 percent of what was paid was true value and
13 27 percent is overpayment.

14 Dr. Hubbard is, I believe, going to in his testimony,
15 based on his reports, um, I think Dr. Hubbard is going to
16 argue that in fact Novell really, really, really overpaid,
17 they overpaid by over \$1.3 million and as a result, or
18 counsel is going to argue, that the value of the assets that
19 Novell purchased the value of them was only \$207,000,000.

20 So in his world the overpayment is 87 percent; my
21 world and opinion is it is only about 27 percent. It is
22 sort of as if I bought my house for 100,000. I'm sorry, I
23 bought a house that was worth \$100,000 and I paid \$140,000;
24 Dr. Hubbard bought a house for \$140,000 and paid \$750,000.
25 So that is -- I'm trying to give you an idea of how stark

1 the difference is likely to be.

2 Q. Did you prepare a slide to address why you
3 thought your results were more accurate than Dr. Hubbard's
4 results in calculating the overpayment?

5 A. Yes. There are two -- there are two reasons why
6 I like my number or why I argue to you at any rate my number
7 is better than his number. Um, the first is that we -- we
8 differ a great deal in how to account for the financial
9 market's reactions of Novell's purchase and sale. And this
10 is going to be unfortunately a fairly -- I would regard this
11 as a complex disagreement between professional economists.
12 And I hope to persuade you that my way is better. But you
13 obviously want to hold judgment until you hear Dr. Hubbard.

14 Um, but I'll do my best to try to explain why I think
15 I have the right to -- I have the right number here. And
16 that really goes to the overpayment issue. We have said
17 that those are two of the same issues, overpayment and
18 valuation.

19 But the second reason that I would offer for why I
20 think you should accept my number over Dr. Hubbard's is that
21 I have gone to great lengths to check the estimate of the
22 asset value and that is the 1.134 billion against Hubbard's
23 207 million and the way I have done that, excuse me --

24 Q. Would it help you if I gave you a cough drop?

25 A. No, I think I just need to keep drinking.

1 Q. All right.

2 A. Maybe slow down. Slow down.

3 Q. Slow down, give your vocal cords a rest.

4 A. Um, what I have done is I have tried to check my
5 estimate of asset value in three ways. I have tried to use
6 a large standard finance techniques in valuation, say can we
7 look at how somebody would go about valuing this asset using
8 the normal finance and economics technique. And I come up
9 with a number which is close to my number. Sorry, I come up
10 with a number which is close to my number of 1.134 billion
11 and of course much higher than 207. The next thing I do is
12 look at what other investors or investment banks thought
13 these assets were worth in 1994 and I look at their judgment
14 as to what they thought they were worth.

15 And the third thing is, um, I look at what another
16 company, Lotus, was willing to pay to acquire those assets.
17 As you may have heard, Novell wasn't the only person
18 interested in these assets and there was a bit of a bidding
19 war going on at the time. And Lotus made a bid for those
20 assets. Essentially I have three ways of asking the
21 question, you know, what is a reasonable way to come to an
22 idea of what those assets were worth at the time that Novell
23 purchased them. Were they worth as much as I think they are
24 or were they worth much, much less.

25 Q. Okay. So I think that the battle field is clear?

1 A. Yes.

2 Q. We're talking about a \$421,000,000 overpayment
3 versus a 1.348 billion dollar overpayment that Dr. Hubbard
4 calculated. So I think we need in the first instance to
5 explain to the jury, and I hope in as simple a way as
6 possible, how you calculated your overpayment number?

7 A. Okay.

8 Q. How did you do it?

9 A. Well, I used the same technique that Dr. Hubbard
10 used called an event study. We're both looking at the
11 financial market's reaction to news. And what an event
12 study does is it -- it looks at the day or the period around
13 the day when news hits the market. And it asks what is --
14 what is the impact of that news. And the way it does it is
15 by saying let's look at what happened to the market value of
16 the stock in a company like Novell when a particular piece
17 of news hit. For example, news that they were going to be
18 delayed in getting out a -- their product from Windows 95,
19 okay. That is -- that is big news in the market. And the
20 question is, you know, how do we -- how do we estimate that
21 value. And what we do is we look at the change in the value
22 of the company when that announcement was made, but then as
23 economists we have to adjust it because the market itself
24 may have moved in one direction or another. And so what
25 we're trying to do with an event study is we're trying to

1 isolate the effects of the announcement and separate that
2 out from the effects of what happens if the market as a
3 whole is moving up and down.

4 Q. Did you do that?

5 A. Yes, I have done that on all of the events but
6 we're going to be looking at a number of events. And so
7 whenever I show the market's reactions to an event, what I
8 have done is I have gone through that process of looking at
9 the simple difference, the simple change in the market
10 value, and I have adjusted it for the change in the market
11 as a whole so that the numbers we're going to be looking at
12 are a best estimate of what the effect of the announcement
13 was netting out what happened to the market as a whole.

14 Q. Now is this a standard economic technique?

15 A. Yes. Thousands of event studies have been done
16 by economists. I haven't counted them all, but I'm sure
17 there are thousands.

18 Q. Have you used event studies in your own testimony
19 in other cases?

20 A. Yes. In the Staples-Office Depot merger, one
21 part of my testimony was an event study that showed that
22 wasn't just economists but also the financial market
23 believed that this merger was going to result in higher
24 prices for office supplies, stores, products, and was going
25 to harm consumers. And so we actually used an event study

1 to corroborate the financial market's thought that this was
2 anticompetitive merger.

3 Q. And what measure of the stock market do you use
4 in your analysis?

5 A. I use the S&P 500. Most of you are probably
6 familiar with the S&P 500. It is a broad gauge of the
7 market as a whole. And the S&P 500 is overwhelmingly the
8 index that is used in event studies by economists to net out
9 the effects of the -- of movements in the market.

10 Q. Did you prepare a slide showing what happened to
11 the value of Novell stock in the S&P 500 over the period
12 1990 through 1999?

13 A. Um, yes. This extraordinary graph shows just
14 simply what happens to the share price of Novell, you know,
15 over this 10 year period. And as you can see, it has been a
16 rocky road. Um, dramatic increases, dramatic falls, ups,
17 downs, there is a lot of variation over this time period in
18 the share price of Novell. And we are fortunately only
19 going to look at a tiny little bit of this. We're going to
20 look at three events.

21 Um, the first is the March 21st, 1994, when
22 WordPerfect -- when Novell bought WordPerfect. And what I
23 have -- what I have asked our crack demo team to do is to
24 color it in I guess it is an orange there, what happened to
25 the share price at the time of that announcement. So that

1 fall right in there (indicating) is the reduction in the
2 share price of Novell when the announcement was made they
3 were getting into the applications business.

4 And then we are going to look at two other events, um,
5 which I think we have to do in order to get to the
6 overpayment. We're not just going to look at when they
7 bought it, we're going to look at what happened when they
8 sold it and the two events there. The first is in
9 October 1995 where Novell announced that they intended to
10 sell. So this was an announcement of, you know, we're going
11 to be getting out of the business, we're going to be selling
12 this, but not to whom or for how much. And so I have also
13 added a second event there which is January 31st, 1996, and
14 that is when the sale was made and people said it is to
15 Corel and it is for a certain amount.

16 So I take the news here (indicating), the first event,
17 as the market's reaction to the news they were getting into
18 the -- they bought Novell, bought WordPerfect, and then I
19 take the other two events as the market's reaction to what
20 happens when they announce they're getting out of this
21 business.

22 Q. So let's do this step by step and methodically.
23 Let's look at the first event in March of 1994. Is this the
24 event that was described in a chart that was shown to the
25 jury and to Mr. Frankenberg by Microsoft's lawyer in his

1 opening statement and in his examination of Mr. Frankenberg?

2 A. Yes. This is not my chart, this is Mr. Tulchin's
3 chart. And what it shows is that after the close of
4 trading, Novell announces the deal. What you can see is a
5 significant fall in the price of Novell's stock over -- over
6 a fairly short window. Maybe I can do this.

7 Q. Do you have any problems with what is portrayed
8 on this chart, Dr. Warren-Boulton?

9 A. Well, um, to the extent that what this chart is
10 supposed to do is it is to supposed to imply that Novell
11 grossly overpaid for WordPerfect, you know, I would
12 basically have two problems. The first, um, is really
13 simple and that is that the numbers are wrong. What this
14 chart uses is it uses the wrong number of shares. And it is
15 calculating this fall from the price and then multiplies it
16 times the number of shares, and it multiplies the times of
17 number of shares it doesn't include the number of shares
18 issued at the time of the purchase. So it is -- it is
19 missing 50,000,000 shares. Now, the -- I should also make
20 full disclosure that I should say it was Dr. Hubbard who
21 picked this up and I made the same mistake. So we can't
22 totally blame Mr. Tulchin. But nevertheless, Mr. Hubbard
23 and I, Dr. Hubbard and I both now agree that the number of
24 shares is 50,000,000 larger and so if you were just
25 following this methodology, just looking at this time

1 period, and you looked at the change in those values and you
2 multiplied it times the true number of shares, you get a
3 number that is now up to 1.7 billion. I'm amazed how I made
4 this number bigger but I'll certainly explain why.

5 Q. Why is that significant?

6 A. Well, the bigger you make this number, the lower
7 the damages. That is what is going to come out. And so,
8 um, don't give up on me yet. Um, the other thing is that
9 what I do when I do my analysis is I like to include in my
10 event window, I like to include a day or two days before the
11 announcement of the event because in my experience,
12 information leaks into the market. You know, it is not
13 necessarily the kind of insider trading that gets everybody
14 in jail, but, you know, information gets out there and you
15 know I have looked at a lot of mergers over my life, and a
16 very large number of them, you know, what we start getting
17 is we start getting market movements before official
18 announcements are out yet.

19 And I know that the SEC monitors for this sort of
20 things, but it happens. And so I like to include a couple
21 of days before the announcement, um, as what is going on,
22 and so, you know, I'm going to include this fall as well.
23 And so if I include that fall as well, you know what I'm
24 getting out of this I would say that the fall is actually
25 closer to 1.9 billion than 1.4 billion.

1 Q. And why is that significant?

2 A. Well, it is kind of odd here because what it says
3 is there is a loss in value which is so large that it is
4 actually greater than the cost of the acquisitions. So what
5 that market appears to be saying, if you think this is
6 overpayment, is that these acquisitions had actually
7 negative value in the hands of Novell. Novell would have
8 been better off I guess buying the acquisitions and just
9 blowing them up or something like this.

10 So the first thing you realize out of this is this
11 number is just too good of a story, this number is just too
12 big, okay. And it is even bigger than here. It looks here
13 as if -- as if they were just overpaid but not
14 catastrophically. But if you actually look at the real
15 numbers, they're actually even bigger. So you -- the first
16 clue is this, it can't just be overpayment something else is
17 going on here.

18 Q. So how did you go about determining what else was
19 going on?

20 A. Well, I think that you have to look at
21 alternative explanations for why the price fell when Novell
22 purchased these assets. And there are a number of
23 alternative explanations.

24 Q. Did you look at other events that are relevant?

25 A. Yes, I looked at -- I looked at a number of them.

1 And the way you go about or economists go about looking at
2 what was happening during this time period I think we're
3 back to our friend, don't point this in an eye, when you do
4 this we ask the question, you know, what seemed to be going
5 on in the market, what are the explanations that would be
6 given for why this price fall occurred. And in order to do
7 that, what you do is you look at analysts reports and, you
8 know, analysts are people who this is their business. They
9 often specialize in particular areas like hot tech and maybe
10 even specialize in Novell. And it is their business to try
11 to get as much information about the company as possible and
12 then use that to advise their clients on whether they buy or
13 sell.

14 So, you know, if you're trying to find out what people
15 thought was going on at the time, the best place to turn to
16 is, you know, look at the analyst's reports. And so we
17 looked at the analyst's reports to try to see what kind of
18 explanations were being offered, what did the analyst think
19 was going on during this time period. And if they just
20 think it was overpayment, they think it was something else.

21 Q. What did you discover when you looked at the
22 analyst reports?

23 A. Well, analysts are like all the rest of us, we
24 all disagree. And some analysts seemed to believe this was
25 a great opportunity, that it was a terrific fit, that it

1 would really help in coming up with a new Suite to be able
2 to put Quattro Pro and WordPerfect together under the same
3 house and so you improve the integration. So we had a group
4 of analysts who say this was a good thing. We had a lot of
5 analysts who said this is not a good idea. And the analysts
6 who said this was not a good idea also had conflicting
7 explanations for why it is not a good idea. One possibility
8 which was stressed a lot was a real concern that this
9 signaled that the management of WordPerfect was getting into
10 this new area and wasn't so much a concern about what would
11 happen with that applications, more was a concern they would
12 lose the focus on their core competency.

13 Remember, Novell at this time was the leading --
14 leading provider of networking software, and it had the
15 leading product here, NetWare, and it was doing very well at
16 what it did very well. And I think that there was a real
17 concern that what this merger signaled was a lack of focus
18 and that -- and that the rest of Novell's operations would
19 suffer. Not so much that these applications was the
20 problem, the real problem was that there would be a lack of
21 focus on NetWare, a really profitable product that was an
22 alternative.

23 THE COURT: I think you may have just used a word --

24 MR. TASKIER: I was about to correct him.

25 THE COURT: Not correct him, you used networking

1 before in one context, I think you're using it in a
2 different context now. But I could be wrong.

3 THE WITNESS: Oh, you're probably right.

4 MR. TASKIER: I was going to go to another.

5 THE COURT: We'll something else about I was just
6 helping the jury. I think, maybe I'm wrong, when he talked
7 about network before the general effect as opposed to what
8 Novell's specialty was which I think -- I think the jury
9 understands, but I think they are slightly different
10 concepts.

11 Q. (By Mr. Taskier) Network effects and the
12 networking business of NetWare, is it that what you're
13 trying to say?

14 A. Yes. Yes, and that is a term different from your
15 telephone network or your network of friends and one of the
16 problems of the English language is there are too many
17 meanings of the same word. German is much better by the
18 way.

19 Q. Let's not go there. The other thing I wanted to
20 see if I could get you to be a little more clear on was I
21 think you may have misspoken and said that WordPerfect's
22 management would lose its focus on --

23 A. Oh, my apologies.

24 Q. One at a time, on its core competency. I think
25 you meant to say that Novell's management would lose its

1 focus on its core competency?

2 A. That is correct.

3 Q. So this loss of focus, were there other reasons
4 that were articulated by analysts as to why this might not
5 be a good idea to buy Novell?

6 A. Well, the other reason when analysts looked at
7 what happened is they said the other possibility is that
8 Novell simply paid too much, perhaps got into a little
9 bidding war with Lotus, and as a result, um, you know they
10 just -- they just simply overpaid for the assets.

11 And so if we -- if we take apart the analysts who said
12 we think this is a really good idea, just looked at the
13 analysts who say it is a bad idea, it really breaks down, I
14 think, in to two camps. It is the -- it is the analysts who
15 were simply concerned that they paid too much for these
16 assets, that is the overpayment question; and then the
17 analysts who thought that the real concern here was it was
18 going to be a lack of focus. Novell was going to get away
19 from what it really did well which was make NetWare
20 products, and that this was just a bad strategic decision.
21 This was a bad move on their part as a matter of strategy.

22 Q. So as a matter of financial analysis of market
23 movements and what analysts say, can you, as an economist,
24 figure out how much of the fall in Novell's share price at
25 the time of the acquisition was due to the financial

1 market's concern that Novell overpaid versus other reasons
2 such as loss of focus?

3 A. Yes, that is -- that is sort of the neat trick
4 here because, you know, I believe and I think Dr. Hubbard
5 would agree, that you can, in fact, separate out the
6 overpayment from the lack of focus. And the way that you
7 essentially do it is by looking at what happened to the
8 share price of Novell when they decided to sell it and when
9 they decided actually to sell it. And the reason is because
10 if all we're talking about is overpayment here, then when
11 you overpay for your house or if you overpaid for Novell,
12 that is irreversible. That is done. That is you're never
13 going to get that money back, okay. You're sunk. I guess
14 the only way you are going to get the money back is I guess
15 on the house example is if you find somebody who wouldn't go
16 into the basement and notice your basement was leaking. But
17 these are very sophisticated people. And so if Novell
18 simply overpaid back in here (indicating), then when they
19 decided to get out of the business, there is not going to be
20 any gain, they can't recover, it is spilt milk, water under
21 the bridge.

22 So since there is no recovery, no reversibility, you
23 could probably say this looks like overpayment. But on the
24 other hand that is suppose we have the other explanation
25 which is that the market is really concerned about isn't the

1 applications business, this isn't a fall into value
2 applications, this is their concern about the form value of
3 NetWare, okay, because they're not going to focus on NetWare
4 where they're making a lot of money. If you look at the
5 total value of this company, it is overwhelming in NetWare,
6 you know. So even a small effect on the NetWare business is
7 going to generate a rather large effect here. Now if indeed
8 what is going on here is the market is saying we have some
9 managers that are getting out of the business that they're
10 good at, which is NetWare, they are going to get involved in
11 something else, but let's suppose that within a relatively
12 short time period the management says you're right, we
13 shouldn't have gotten into this business, you know perhaps,
14 or, you know, now we're going refocus back on our core
15 competency and I -- I think, in fact, Mr. Frankenberg
16 testified about that when he was talking about the sale. He
17 said what is the purpose of the sale here. He said we want
18 to get back to what we're good at okay. Now, what is going
19 to happen is when that news gets released to the market,
20 then this is a relief, okay, that is reversible. Now we're
21 going to get back to what we're good at and therefore our
22 share prices are going to go back up again.

23 So what this lets you do, admittedly somewhat roughly,
24 it lets you say we're going to take that total percentage
25 decrease there, (indicating), and then we're going to ask

1 well, you know, if that failed by, you know, pick a number
2 that failed by 20 percent and then if we look at the -- at
3 the up increases down in here and say well back up by
4 15 percent there, then we're basically saying is, well,
5 15 percent loss and regain is the loss and regain of focus.
6 But the fact that this is bigger than these, means that this
7 overpayment in there, so we're going to basically subtract
8 off that percentage gained from the total percentage fall to
9 get our best estimate or at least financial market's best
10 estimate how much of this fall is overpayment and therefore
11 can't be recovered, and how much of it is because of a
12 strategic decision that got reversed and therefore couldn't
13 be recovered. So that is the fundamental methodology that
14 we're using that really separates these two.

15 Q. And have you prepared some slides that focus in
16 on the particular events that will help the jury understand
17 this a little better?

18 A. Yes. We're going to look, okay, we're going to
19 look at all three of -- we have already seen the first event
20 that was the slide that Mr. Tulchin showed. This shows you
21 the first of the two sale events. This is the date when --
22 when they announced that they were going to sell WordPerfect
23 and Quattro Pro. And as you can see, it had a pretty nice
24 effect on the -- on the sale price. This is the I'm getting
25 out of business and refocussing story. You have the value

1 of Novell went from about 14.85 to about 16.75. So we don't
2 know at this point who they're selling it to, we don't know
3 how much they're selling it for. What we're saying to the
4 market is we're going to refocus, we're going to get back to
5 our core NetWare business, um, and we're not going to give
6 you details of how we're going to get out of here yet but
7 we're getting out of town right. So that is the first step.
8 And then, um, and then time goes by, okay.

9 Q. Next slide, is that right?

10 A. Right. And this is at the time of -- now we're
11 here in January. Remember the first one is about
12 October 30th. So, you know, time goes by. And during that
13 time period some news comes out, one way or the other, okay.
14 There is a lot of speculation who they're going sell it to,
15 who they might sell it to. But basically nobody really
16 knows anything for sure, you know, right up until whoops,
17 let's go back. Nobody knows anything for sure until we
18 actually get the financial announcement of the sale. So
19 that is why what I have used is I have used this event and I
20 have used this event to combine.

21 All right, this is our second event. This is when
22 everybody knows or thinks they're probably going to sell.
23 But now what we have is we have a definitely selling, we're
24 selling to Corel, and also we have an announcement of the
25 amount of the sale which is \$146 million. Up until this

1 moment, nothing is really certain. Now we know it is for
2 certain and now we get another increase in the share price
3 of Novell. So I take this and the previous one as my
4 combination for what is the recovery.

5 Q. And you have a combined set of slides which show
6 the entire event study for the jury?

7 A. Not surprisingly I do. Okay, these are my three
8 events. Here is my first event which is the March 1994
9 purchase which you have seen as a regular slide of the price
10 going down. Now what I have done here is I have all these
11 in percentages on the left hand side, so I have transformed
12 them from dollar amounts to percentage amounts because I
13 have to add up the percentages. So my first event is March
14 of 1994. As you can see, we get a real decline.

15 The next is October 1995, our intent to sell. As you
16 can see, we get an increase. And finally in January of '96
17 we get another increase. I'm basically going to combine
18 these two and net those effects out from here.

19 Q. All right. So what was the first event and what
20 did you think happened?

21 A. Well, March 1994 event I got a little star next
22 to the day that the news was released. And not
23 surprisingly, that is the day that we get the big bang on
24 Novell's stock that we can see is a fall around 17 percent
25 in value of Novell. Now, what I try to do when I do these

1 things, and I think I mentioned before, I always try to
2 have, you know, a day at least before and a day after. I
3 try to have a day before because in my experience, you know,
4 better or worse, the stuff gets out. And so my concern is
5 that by the time the event occurred, some of the market
6 reaction may already be in there in which case you have to
7 really count it.

8 Now this particular case, this really does look like
9 Novell was pretty good about this. Um, this looks like a
10 real surprise, okay. These are a little bit negative. So
11 if you look at it you thought well maybe there is a -- the
12 market is sort of soft, something was coming up in the day,
13 couple days before, but it is -- it is very little
14 pre-announcement that is going on here. But I include it
15 any way, just in case. So I'm going to include that as part
16 of my form. This is where we talked about before the
17 difference of my side and Mr. Tulchin's. I added on those
18 extra two days up in there (indicating). I'm trying to make
19 this thing as big as possible, okay.

20 Now, in addition to that, I also had a pretty nice
21 fall, pretty bad, I guess, fall in the price of Novell's
22 stock the day after. And I interpreted that this is all a
23 matter of interpretation. You know, at some point your
24 guess is as good as mine. But I think that a reasonable
25 approach and reasonable person could say, if we see a fall,

1 you know, real movement the day after, we're probably
2 picking up here is the, you know, there may have been some
3 disagreement as we have discussed before, was this a good
4 idea, was this a bad idea. And you need to give the market
5 at least another day to kind of, you know, digest this, get
6 it under their belt. So I combined all these three, okay.

7 Now, the next one, the October 1995 intent to sell is
8 a little more complicated in a couple of directions. First
9 is this announcement came out on October 30th. That was a
10 Monday. Now as it turned out, the previous trading day was
11 a Friday. And on that day, the price of Novell stock bumped
12 up by about seven percent. Now, you know, without bringing
13 a criminal case or doing anything, I look at that and I say,
14 it looks to me like this information leaked out of the
15 market. But there was -- there was pre-announcement
16 information out there. And so I am going to count that as
17 part of the increase, okay. I'm going to combine it.

18 Now the other complicating factor is this little green
19 bit here. On October the 30th, the announcement that Novell
20 made wasn't just an intent to sell, it also at the same time
21 announced it was trying to do a stock repurchase. Now, a
22 stock repurchase when a firm announces a stock repurchase
23 they're basically saying I'm going to take some of that
24 money that I have stashed away and instead of my using it,
25 I'm actually going to give it back to shareholders. And

1 shareholders tend to react more positively towards that.
2 They would rather have the money in the bank with Novell.
3 And so when you get share repurchases often you get some
4 increase in the prices of the shares, okay. It is a bit all
5 over the map and it is -- it is very hard to actually to
6 determine how much the increase in the price of those shares
7 might have been because of the share repurchase. And so
8 what I did is I looked at what the average increase in share
9 price was for firms when share repurchases were announced.
10 And on average, it is about two percent. So what I did is I
11 took the two percent off of the top of here (indicating),
12 okay and so that is not included in my bounce back. Um, but
13 I also included these -- these two days afterwards.

14 And then finally we have the January 1996 sale.
15 Again, there is my event. And when I -- when I see a
16 negative and then a positive, I think to me that is clearly
17 information that information did not leak to the market. If
18 the information that leaked to the market as you know this
19 case you would expect to see them at the same time but this
20 is information that is good about Novell. So since the
21 price of the share actually fell a little bit the day
22 before, I assume that can't be this information, okay. Um,
23 but nevertheless you know I have a four day window, and so
24 I'm trying to sort of be conservative here, keep the same
25 four days. So I include this negative as an offset to the

1 increase. So essentially I'm going to take this and I'm
2 going to net it out over these two.

3 Q. So what we have done here is you have looked, as
4 a percentage matter, at the drop in price upon the purchase.
5 And then you have netted it against the increase because in
6 your testimony, in your testimony the increase undoes
7 whatever negative effects there would be with respect to
8 loss of focus?

9 A. That is right. This is the reversible loss of
10 focus component of this.

11 Q. And you then come up with some shortfall. And
12 what does that shortfall represent?

13 A. Okay, yes. Here we are. Okay. This is going to
14 be my cumulative effect. Now each of these are the
15 individual day events. So when I started over here I start
16 off with the negative and I add this one and then I add the
17 big one and then I add this one. And by the end of the
18 event I have got about a 22 percent fall in the value of
19 Novell's stock, okay. So now I take a look at the first
20 recovery event, okay. And if you combine all of this
21 together, you get about a 17 percent bounce back, all right.

22 So I'm going to take out the 17 percent bounce back,
23 and that affects the 17 percent bounce back, then I'm going
24 to look at the final event and I'm going to say all right
25 let me take that in, that is another four percent that comes

1 up, and by the time I'm through, my overall effect has gone
2 to about 4.74 percent. Now, some of you look at these
3 numbers and, you know, will sort of immediately recognize
4 why am I not all the way back home again when I got a 22
5 percent reduction and I'm up by 17 and I'm up by four and if
6 I look at this right I'm up by 21 percent, down by 22, up by
7 21 percent, how come I'm still down by four and, of course,
8 the answer any of you who have looked at your 401(K) over
9 the last couple of years, you have noticed that when your
10 401(K) fell in half, it fell by 50 percent. You know it had
11 to increase by 100 percent to get back to where you are
12 before. So that is why you can't just add up the numbers.
13 All right. That is -- that is the arithmetic.

14 So I have a 4.74 percent fall, but remember that is in
15 the value of Novell and there is a lot, lot more to Novell
16 than just the applications. So I have to do a little
17 arithmetic since there is no way I can remember this, okay I
18 have to have it printed at the bottom of the slide. I have
19 365.8 million shares, okay, that is the 314 million that
20 both Mr. Tulchin and I assumed earlier, plus the 51,000,000
21 that Dr. Hubbard notices, so I'm now at 365 million shares.
22 Um, and at this moment, the day before the decline started,
23 okay, um, it was Novell's price was \$24.25 a share. And so
24 what that gives me is that on this date, just before
25 everything hit the fan here, the value of Novell -- stock

1 market value of Novell was 8.87 billion. This was quite a
2 company in 1994. Okay. All right.

3 So what I have to do to get my estimated overpayment,
4 I take my 4.74 percent of 8.87 billion and that is 421
5 million and that -- that number may ring a bell by now. So
6 that is my overpayment. And to put it in context, I am not
7 really interested in how big are the share of Novell, I'm
8 really interested in how big is that as a share of the
9 amount that I paid or Novell paid for the assets. They paid
10 1.555 billion. So my 421 million is 27 percent what I paid.
11 And that is how I arrived at my estimate of the overpayment.

12 Q. So I think that is a little laborious, but this
13 is sort of the key issue that you and Dr. Hubbard disagree
14 on?

15 A. Yes.

16 Q. And it was probably useful to walk you through to
17 understand how he got there and how he backed up loss of
18 focus to that compared to the actual overpayment. Did you
19 actually do another -- do a slide that shows how that works?

20 A. Um, yes. This is -- you have seen this before.
21 This is just reviewing the bidding a little bit. You know,
22 this is how I get to 27 percent or my 421 million
23 overpayment. And Dr. Hubbard will explain how he gets to
24 his overpayment.

25 Q. I think you said earlier that overpayment really

1 is just the flip side of the value; is that right?

2 A. Yes. It is like a seesaw or a flip side. The
3 more the overpayment the less the value; the less the
4 overpayment the higher the value. But everybody agrees
5 these two numbers have to add up to 1.555 billion. We're
6 all on board there.

7 Q. All right. So that is your basic number?

8 A. Yes.

9 Q. And what have you now done, what other methods of
10 valuation do you undertake at all to corroborate or confirm
11 that that is a correct assessment of the value of the
12 company?

13 A. Well --

14 Q. And by contrast the flip side, the value of the
15 overpayment?

16 A. Well, as I said, there are two ways you can
17 methodological go about this. One you can go with this one
18 you can do this extensive analysis of trying to figure out
19 how much the overpayment was and you know using the
20 financial market's reactions and events and all that sort of
21 thing. But there is also you could just do the flip side of
22 it. You can ask the question, well, maybe instead I should
23 be just looking at trying to figure out what the value of
24 the assets were in 1994 rather than figuring out the
25 overpayment. And that is basically what I have done, what I

1 mentioned before. That is the other thing that Dr. Hubbard
2 and I are going to disagree on or actually let me rephrase
3 it. That is something that I have done, okay. You know, I
4 have gone to some effort to try to separately see if I can
5 check that number of 1.134 billion and separately from
6 overpayment.

7 Q. Is that something that economists do in their
8 regular professional standard economic approach?

9 A. Yes. There are a number of ways that you can go
10 about doing that. Um, I think I have --

11 Q. Earlier I think you said, earlier I think you
12 said that you calculated a value during -- using standard
13 finance techniques?

14 A. I have looked at that.

15 Q. And then you look at what other investors thought
16 assets were worth? And that you looked at what Lotus was
17 willing to pay for those assets?

18 A. That is correct.

19 Q. And so you have now shown us the first method by
20 a standard finance technique of looking at the market
21 exchange and doing event study. Um, let's look now, if we
22 can, at what other investors thought as a matter of
23 historical fact Novell -- WordPerfect was worth at the time
24 and what Lotus was willing to pay at the time, and can you
25 tell us about how you assessed those?

1 A. Sure. So we're now doing our flip side, we're
2 looking for valuation. And we have got a lot of different
3 ways to look at this valuation. You know, some are going to
4 be better, some are going to be more accurate than others
5 and what I have basically done is I have dug through it and
6 I have asked what is all of the information that I can come
7 up with that offers some guide to what the value of these
8 assets actually were as 1.1 billion or was it 200,000,000.
9 Um, so, I'm going to start with outside valuations and then
10 I'm going to turn to some other evaluations. It is going to
11 take a little while.

12 Um, the first outside evaluation, a bit of -- on a bit
13 of an extreme, comes from a Pete Peterson. As some may
14 know, he was the CEO of WordPerfect back when and he wrote a
15 book in 1994. And in that book he estimated the value of
16 the -- he said he thought the value of WordPerfect in 1992
17 was about two billion. That is a nice round number. And
18 so, um, you know, you can put whatever valuation or
19 credibility on that that you would like. But he thought it
20 was worth about two billion, okay.

21 Um, the second estimate also comes from Mr. Peterson
22 but it is a very, very different estimate, okay. I
23 interpreted it as about 585 billion. And that estimate
24 actually comes from the following that when Mr. Peterson
25 left WordPerfect in December of 1992, he sold his stock.

1 There were two founders and then Mr. Peterson had one
2 percent and the two founders had the rest of it. And when
3 he left, Mr. Peterson sold his one percent share back to the
4 two founders and he sold it for four and a half million
5 dollars. Now, one way of getting to the question of well
6 gee, what did Mr. Pete Peterson think the firm was worth in
7 1992 if you are willing to sell one percent of the firm for
8 4.5 million, then what is 100 percent of the firm worth?
9 And so you multiply it. If it is 100 and you get a
10 valuation of 450,000,000, okay. I didn't say these
11 estimates were going to be close to each other.

12 Q. So they're pretty wide?

13 A. They're pretty wide.

14 Q. What do you as an economist infer from that kind
15 of gap?

16 A. Well, just to begin with, you can't just go to
17 the 450,000,000. It is -- because a minority share isn't
18 worth as much as a controlling share and there is something
19 in finance called control premium, usually actually for the
20 control of the company you are willing to pay about
21 30 percent more of the share for the shares. And so, you
22 know, if you went to the -- sorry 450,000,000 you would have
23 to gross about 5 -- about 30 percent to get to the 555
24 million. But nevertheless that is quite a reach. And so,
25 um, you know, to me what I do is I look at that and I say

1 that is really like the bookends. Okay. That is like one
2 of the two extreme valuations that you can come up with.
3 And what we have got to do is we have got to come up with
4 some valuations that are more precise here. And so we're
5 going to move on to -- move to the --

6 Q. The third one, the third one says 1.17 billion
7 and it reflects an August 1993 Morgan Stanley initial public
8 offering. Can you tell us what that refers to?

9 A. Well, in 1993 the founders and owners of
10 WordPerfect thought it would be a good idea to cash out a
11 little bit. So what they proposed to do was take what is a
12 privately held company and sell some of their shares. I
13 think it is about 16 percent of the shares. And the way you
14 do that is what is called an initial public offering. You
15 go out and you find a major investment bank which can advise
16 you on, you know, what do you think these shares would sell
17 for, and then you offer those shares out in the market as
18 initial public offering, you know, at that price. And they
19 retained Morgan Stanley, which is a very well known
20 investment bank, to advise them on what was the best price
21 that they should set for selling those shares. Morgan
22 values -- put a valuation on this somewhere between 18 and
23 \$20 per share and then the average of that is \$19 per share.
24 So if we take the \$19 per share from Morgan Stanley, the
25 investment bank, and we multiply it times the number of

1 shares and this now, remember, this is the number of shares
2 of WordPerfect not Novell, that was the big number, okay,
3 number of shares of WordPerfect, what we get is essentially
4 Morgan Stanley, the investment bank, valuing WordPerfect at
5 that time at about \$1.17 billion. So this is a professional
6 investment bank that is -- that has valued WordPerfect at
7 the time of the IPO. That's 1993. Okay.

8 Q. How did that compare to your valuation?

9 A. Um, it's pretty close. I think I am 1.1
10 something. But it's -- it's as we used to say, close enough
11 for government work.

12 Q. So we have the fourth of -- the fourth now. And
13 that says 1.3 billion or more. Can you tell the jury what
14 that is about?

15 A. I think as I mentioned before, in 1994 when
16 Novell was thinking about buying WordPerfect, it wasn't the
17 only company. And the other major company that was looking
18 into actively negotiating flying back and forth to Utah,
19 negotiating with the WordPerfect management was Lotus. And
20 that basically bidding war went on for a little while. Um,
21 by the time the WordPerfect management decided to actually
22 go with Novell, at that moment it's my understanding that
23 they basically had what I might call a conditional offer
24 from Lotus at 1.3 billion. Lotus may have been a little
25 concerned about antitrust problems and things like that, but

1 not a formal offer, but that was the offer that that they
2 thought that Lotus was willing to make, might even be
3 willing to raise it if they kept the bidding war going on.
4 But really, without giving Lotus a chance to go back and
5 re-up it, the management on WordPerfect decided to go with
6 Novell. I think they were apparently concerned about other
7 things, they were concerned about strategic fits. I think
8 the founders wanted to continue to play an active role in
9 the company and so they basically cut off the bidding. But
10 at the time that they went with WordPerfect, sorry, with
11 Novell, there was this \$1.3 billion offer. And so, you
12 know, again as an economist I look at what a willing buyer
13 and willing seller and if I see somebody out there that is
14 willing to pay 1.3 billion dollars and somebody else, a
15 second person who has no particular reason why he should be
16 overpaying, you know, I look at that and I think that is
17 also not an unreasonable valuation on those assets.

18 THE COURT: All right. Mr. Taskier, since you have
19 already slowed down Dr. Warren-Boulton, maybe we ought to
20 take the morning recess. We'll take a short recess. Any
21 time you're ready.

22 (Recess.)

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