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

NOVELL, INC.,)
Plaintiff,)
vs.) Case No. 2:04-CV-1045 JFM
MICROSOFT CORPORATION,)
Defendant.)
_____)

BEFORE THE HONORABLE J. FREDERICK MOTZ

DATE: NOVEMBER 21, 2011

REPORTER'S TRANSCRIPT OF PROCEEDINGS

JURY TRIAL

VOLUME XVIII

REPORTED BY: Patti Walker, CSR, RPR, CP
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Witness

Examination By

PAGE

1 SALT LAKE CITY, UTAH; MONDAY, NOVEMBER 21, 2011; 8:00 A.M.

2 PROCEEDINGS

3 THE COURT: Good morning. Stay standing for the
4 jury.

5 (Jury present)

6 THE COURT: Good morning, everybody. I hope you
7 had a nice extended weekend. As you know, we'll be sitting
8 two days this week. We will not be sitting Wednesday
9 through Thanksgiving.

10 Yes, Mr. Holley.

11 MR. HOLLEY: Good morning, Your Honor.

12 Microsoft calls Bill Gates to the stand.

13 BILL GATES,

14 Having been duly sworn, was examined

15 and testified as follows:

16 DIRECT EXAMINATION

17 BY MR. HOLLEY:

18 Q Good morning, Mr. Gates.

19 What was your first exposure to computers?

20 A When I was in the eighth grade at age 13, the high
21 school I went to, Lakeside, got a terminal that was
22 connected up by a phone line to a large expensive computer.

23 Q I would like to put up on the board demonstrative
24 Exhibit 171. I'm going to show you a copy, although I think
25 you have the screen there in front of you.

1 What is this picture?

2 A That machine is how we communicated with the big
3 computer. It's called the teletype. Paul Allen, the
4 co-founder of Microsoft, is seated and I'm standing looking
5 over him while we're trying out computer programs being run
6 by this large machine that was about a thousand miles away.

7 Q Was there any particular programming language that you
8 used back in 1968 in the eighth grade?

9 A Yes. The machine we connected up to was a General
10 Electric machine that had a high-level language called
11 BASIC, which stands for beginners algebraic symbolic
12 instruction code. So it was a way that you could write 20
13 or 30 lines of code and get a program like a tic-tac-toe.

14 Q Mr. Gates, something seems to be wrong with that
15 microphone. There's a lot of feedback. Is there --

16 What got you interested in the idea of computers for
17 use by individuals, by normal people?

18 A Well, Paul and I loved working on computers and took
19 every opportunity we could to learn about writing software,
20 and we decided that if they were cheap enough, that it would
21 be great not only for us to have one that we could use
22 ourselves, but for everyone, keeping track of your schedule,
23 your information, trying out different experiments. So we
24 were fascinated by the idea of would the price of these
25 things ever come down, where was the technology going, and

1 would it be pervasive.

2 Q Was there any particular product that came on the
3 market that captured your attention in that regard?

4 A Absolutely. This GE computer, if you had seen it,
5 would have filled half of this courtroom. It was gigantic
6 and it had vacuum tubes, and just keeping it running
7 required many full-time technicians. And by today's
8 standards, it was about a 10,000 power that you have in a
9 phone -- a typical phone that you might carry in your pocket
10 now.

11 So the thing that allowed us to go from that big
12 machine to where we are today was after taking the logic of
13 the computer and putting it on to a chip. And so Paul saw
14 an article in Electronics Magazine all the way back in 1970
15 that talked about these chips and the fact that every couple
16 of years they could put twice as many elements, transistors,
17 on to these things. And that kind of exponential
18 improvement meant that the equivalent of this machine that
19 we were using would eventually be very inexpensive.

20 So the only missing element to this idea of this
21 wonderful tool was to have a lot of great software that
22 would run on it. So it was the invention of the chip, one
23 came out in 1971, an early computer run on a chip, and Paul
24 said to me can you write a BASIC for that, because I had
25 written BASIC Interpreters for some of the more expensive

1 machines. I said, no, it's not good enough.

2 But then in 1973, a far better one called the 8080 from
3 Intel came out, and Paul got me the manual for that, showed
4 it to me, and I said, absolutely, I could write a BASIC
5 Interpreter. So we thought, wow, now is the time that
6 people can have personal computers.

7 Q Was there any particular brand of computer running the
8 Intel 8080 chip that you and Paul Allen focused on?

9 A Well, what happened was that chip came out in early
10 1973 from Intel. And then I went -- I started college back
11 in Massachusetts at Harvard, and Paul wanted to brainstorm
12 more about, okay, what should we do in software. So he
13 moved out there and sort of took a leave. He was two years
14 ahead of me. So he took a leave from Washington State where
15 he had been going to school. And we were talking about when
16 is this going to happen, it's powerful enough.

17 And then we saw on the cover of Popular Electronics
18 Magazine a kit computer based on this chip that had come out
19 early in the year called -- the kit computer was called the
20 Altair 8800. When we saw that, we thought, wow, this is
21 fantastic. We also thought, wow, this could happen without
22 us. We want to write our BASIC and write lots of software.
23 And so that was a key milestone was the scene that that
24 Altair 8800 had come on to the market.

25 Q I would like to show you what's been marked as

1 demonstrative Exhibit 170.

2 What is this a picture of?

3 A On the left you have the issue of Popular Electronics
4 Magazine that we saw on a very cold wintery day in Boston,
5 and you can see it says on there world's first mini
6 computer, because the term personal computer essentially
7 didn't exist. The machines that were like \$10,000 to
8 \$100,000 were called mini computers. The big computers were
9 called mainframes. So you had mainframes, which were like
10 the one I originally used, and these mini computers. These
11 eventually became called personal computers or
12 microcomputers. But anyway, it's giving the machine too
13 much credit to call it a mini computer, but that's what they
14 did.

15 Then on the right you see -- my right -- the actual
16 machine itself. The way you actually entered a program in
17 is you took those switches and you flipped the binary
18 machine code -- this is very low-level stuff -- in by moving
19 the switches a lot. And the only -- unless you attach
20 something to this, you just bought this, which was about
21 \$400. Then all you could do is make those lights flash.

22 Now if you hooked up one of those teletypes which we
23 saw earlier in the previous photo, then you could type into
24 it -- if you had entered the right software, you could
25 communicate with that teletype.

1 So this is the very first personal computer. Its power
2 is so limited that some people think, no, maybe you
3 shouldn't label it the first personal computer. But for me
4 this was the first idea you bought for the individual and it
5 was reasonably priced.

6 Q Mr. Gates, what, if anything, did you and Mr. Allen
7 write for the Altair 8800?

8 A This computer, of course, had that Intel 8080 chip
9 inside it. And so unless you had a piece of software that
10 helped you, you had to learn this 8080 machine code and key
11 it in.

12 What we decided is to write a BASIC Interpreter, that
13 is the software that would let other people write BASIC
14 programs, and we would put that onto a paper tape which you
15 could feed into that teletype. And so once that was all
16 loaded up, then you would be able to type in BASIC programs
17 and run them on this Altair computer.

18 This thing had such limited memory, we had to write the
19 smallest BASIC Interpreter ever written -- which I loved
20 writing small, really compact pieces of software. So even
21 on this machine with 14 bytes, we made it so our BASIC
22 Interpreter could run very comfortably.

23 Q Was your BASIC Interpreter ever sold?

24 A Yes. The start of Microsoft is when we call up these
25 people and say, hey, we would like to write software for

1 your machine, and they kind of said, yeah, a lot of people
2 are calling us, what do you really have. Well, we have
3 nothing. So we went to work. Paul had a brilliant idea
4 that we could simulate this machine on a big computer. And
5 so on a very large computer that we had access to on the
6 Harvard University campus, we simulated this machine and
7 wrote the BASIC Interpreter. So it took us about four
8 months.

9 And then we printed out a paper tape and we called them
10 up and we said, how do you get -- how do you communicate
11 with the teletype, how do you get the characters, what's the
12 input, output, how does that work. They said, well, you
13 must be serious because you're the first one that's asked us
14 that question. Let me go get the guy who knows. And so
15 they explained that to us. So we made it set up.

16 So Paul flew out to Albuquerque with this paper tape
17 hoping that we had gotten the simulator right. They had a
18 machine there with this teletype in the computer, and Paul
19 loaded up the software, and amazingly it ran, and it was
20 incredible.

21 So they licensed -- to answer the question, they
22 licensed the BASIC Interpreter from us and became the very
23 first customer of Microsoft. And they went on to sell tens
24 of thousands of copies of that BASIC Interpreter, which gave
25 us the money to hire our friends and write a lot more

1 software.

2 Q How old were you, Mr. Gates, when Microsoft was
3 founded?

4 A I was 19 when we actually put it together, which meant
5 that it kind of messed up my college career. But it -- you
6 know, it was -- we wanted to be there and be the first.

7 Q Where did the name Microsoft come from?

8 A Well, we didn't want to call ourselves like Gates and
9 Allen because we had this idea that eventually this could be
10 a big company. And so we took micro from microcomputer,
11 which was one way of describing these machines, because they
12 were based on microprocessors. That's what the chips were
13 called. And then we thought the key element that would
14 unlock and make these things fun to use and valuable to use
15 was software. So we thought software from microcomputers.
16 We decided we didn't like soft micro. So we went with
17 Microsoft. There were no other companies, so nobody had
18 taken that name, even though it was kind of an obvious name.

19 Q Did you have a vision for Microsoft at the time the
20 company was founded?

21 A Well, we had a vision for the industry, which was that
22 even though we didn't make personal computers, we thought
23 eventually they would be interesting enough that we would
24 have a personal computer on every desk in every home. That
25 was literally the slogan was we were going to write the

1 software that would make it worthwhile to have one of these
2 computers on every desk and in every home.

3 Q Was the idea of having a personal computer on every
4 desk in every home a common perception in the mid 1970s?

5 A No. It's hard to go back in context of those days.
6 Even the person -- the computer company we admired the most
7 with whom Paul and I had done work for in high school was
8 this Digital Equipment. And the CEO of that company, Ken
9 Olsen, said he couldn't imagine anybody would ever want a
10 personal computer. And this from the guy who, you know, had
11 been a visionary, essentially created the mini computer
12 business that was underneath the mainframe business, he
13 thought, well, come on, what would they possibly do with it.

14 So, in fact, it ended up being largely a group of
15 fairly young, naive people who saw this dream of personal
16 computing and started up the hardware companies and software
17 companies that have eventually led to where we are today to
18 where it's sort of a commonplace idea that these are great
19 tools for everyone.

20 Q How long were you a full-time employee of what became
21 the Microsoft Corporation?

22 A Well, by -- so we write the BASIC in early 1975. And
23 then I go back to Harvard, go and work with Microsoft, go
24 back to Harvard one more time, so I actually got three years
25 of school done. By June of '76, things were busy enough

1 that I never did go back. I'm still officially on leave. I
2 was close. I mean literally I got three years more than
3 your average dropout has done.

4 But anyway, from June of '76, which is the last time I
5 was at school, until January 2000, which is when I turned
6 over the CEO role to Steve Ballmer, I was the CEO of
7 Microsoft.

8 Q Did you assume a different role in 2000?

9 A Yes. From January 2000 until June 2008, I was still
10 very full-time at the company, and we called my title --
11 it's kind of an unusual one, it was chief software
12 architect. And so I got to give up a lot of stuff about
13 sales and personnel type things and focus more of my time on
14 software architecture, Microsoft research, the more advanced
15 things we were doing in terms of our engineering plans.

16 Q You mentioned Microsoft research. Can you tell us what
17 you mean by that, sir?

18 A Well, Microsoft, you know, we loved hiring engineers.
19 So as the products were more and more successful, we hired
20 lots and lots of engineers. And eventually we got to the
21 point where we thought we want some of these engineers to
22 take a very long-term view of what is possible in software.

23 And so we formalized the idea that the product
24 divisions would have about a four-year time frame in their
25 work, and we created this new division called the research

1 division that would have things like computer vision,
2 computer speech, proving correctness, anyway, very hard and
3 long-term type things, and we put that into the research
4 group. That got kicked off in about -- actually they're
5 celebrating their 20th anniversary. So that got kicked off,
6 that formalization of the really advanced stuff, in 1991.

7 Q Does all the research and development that occurs at
8 Microsoft occur within Microsoft research?

9 A No, that's just the far out stuff. So the bulk of the
10 engineers are in the actual product divisions, so the
11 Windows division, the Office division, the sequel database
12 division. Nowadays we have a search product called Bing
13 that competes with Google. There's a big division that does
14 that.

15 So when you speak about engineering at Microsoft, it's
16 research and development, and the product groups as a whole
17 are actually by far the largest part of that headcount.

18 Q Over the last ten years, on an annual basis, can you
19 give the jury some sense of what the scale of Microsoft's
20 research and development expenditures are per year?

21 A Yeah. Our R and D spending has been well over eight
22 billion in each of the last five years. Microsoft is the --
23 has a larger R and D budget than any company in the world.

24 Q Why does Microsoft spend so much money on research and
25 development?

1 A Well, the belief is that software can keep improving,
2 that is that even though we have some pretty good software
3 from us and other companies today, that we're nowhere near
4 even some of the things that Paul Allen and I talked about
5 so many years ago. You know, you still can't talk to
6 computers and have them understand. They can't translate
7 speech. You can't take your handwriting and just scribble
8 it on a little tablet like thing and it knows what you want.

9 You know, software is still kind of plunky. It's the
10 human accommodating it instead of the other way around. So
11 the idea is that in each of our products areas and in these
12 advanced research areas, that by spending all that money,
13 we'll come up with much improved products and that the
14 sales -- not only will that be a good thing in terms of the
15 research, but that there will be an opportunity to sell
16 those products and actually make back more than the billions
17 we invest.

18 Q Mr. Gates, what have you been doing since you retired
19 as the chief software architect from Microsoft in June of
20 2008?

21 A Well, at that time I changed my focus to the
22 foundation, the Bill and Melinda Gates Foundation, that my
23 wife and I -- my wife Melinda and I run. I'm still
24 part-time at Microsoft, but my primary full-time activity is
25 the work of the foundation.

1 Q Can you tell us what your personal principal focus is,
2 what you do at the foundation?

3 A Well, the two biggest things we're trying to change at
4 the foundation, the first is health, where there's still a
5 lot of diseases like malaria, TB and AIDS that we haven't
6 invented a vaccine for. So the idea is to -- you know,
7 we've put -- spend billions a year literally on backing
8 scientists who can come up with these new interventions.
9 Then we also spend on making sure those things get delivered
10 into the poorest countries where those diseases are a huge
11 issue.

12 The other big cause for us is U.S. education, and are
13 there ways to help teachers learn from each other in a
14 better way or use technology in a better way. So most of my
15 time is either on those global health issues or the work
16 related to U.S. education.

17 Q Mr. Gates, you said you were still part-time at
18 Microsoft. Can you tell us what your role is on an ongoing
19 basis at Microsoft?

20 A Well, I'm called chairman of the board, and I would say
21 there's two things I do, although it's only about ten to
22 15 percent of my time. One is that, as a board member, we
23 have regular meetings, strategy retreats, you know,
24 discussions, phone calls about big decisions the company is
25 making, like an acquisition or a big personnel change.

1 The other thing is that there are a few product groups
2 that still like to meet with me and talk about their plans.
3 So, for example, the Bing group is one that I meet with on a
4 pretty regular basis, some people in the Office group. So
5 there are a few of the product strategies I keep my hand in
6 and provide advice, but I'm not full-time, so there is a lot
7 going on that I'm not up to date on.

8 Q Is there anything you miss about being at the company
9 on a day-to-day basis?

10 A Well, I love my work at Microsoft, to work with smart
11 people in a fast moving industry that's, you know, full of
12 great competitors who can do surprising things and do
13 something based on, you know, trying to figure out what
14 customers are going to like. It's a wonderful thing, and
15 many of the dreams about what software could do are still
16 out there in front of us. And so I miss the opportunity to
17 do those things.

18 I have to say, though, that the same kind of excitement
19 I get, although a slightly different flavor, by working with
20 scientists on these vaccines related to the new diseases, or
21 technology to help kids learn.

22 Q Mr. Gates, I would like to change topics now a little
23 bit and talk about the operating system business. When did
24 Microsoft first become involved in the operating system
25 business?

1 A The very earliest personal computers ran Microsoft
2 BASIC, so it operated like an operating system. So the
3 Apple too, when it run our BASIC Interpreter, the TRS80,
4 which is the Radio Shack machine, all those early machines,
5 8-bit machines, the BASIC was the thing that ran on the
6 system.

7 Then later as people got disks, even some of those
8 8-bit machines, there were some general operating systems
9 worked on. But when we moved up to 16 bit, which was the
10 permanent computer, IBM was one of the first people to do
11 one of those more advanced machines. That's when Microsoft
12 created what you would call a classic operating system. It
13 was actually during the discussions with IBM about where we
14 were encouraging IBM not to do an 8-bit machine. But to be
15 one of the first to do a 16-bit machine, we went out and
16 licensed some work, which we later bought and enhanced, and
17 that became Microsoft's first operating system product that
18 was called MS DOS.

19 Q Was MS DOS a product that ran on the IBM PC?

20 A Yes. The IBM -- if you bought the original IBM PC, it
21 didn't come necessarily with a disk. So when you turned it
22 on, it just ran the BASIC Interpreter. When you bought a
23 disk -- which, or course, nowadays all of them come with
24 disks -- then you would plug in a diskette and run the MS
25 DOS, although IBM relabeled it the PT-DOS operating system.

1 So all the disk-based machines became -- could run an
2 operating system and most of those users chose to run
3 MS DOS.

4 Q Was MS DOS available exclusively on IBM PCs?

5 A No. Part of the beauty of MS DOS was that it ran the
6 same on over 50 different types of hardware. And so both as
7 a user in terms of learning the funny instructions, which
8 now seem very arcane, but the instructions for how you ran
9 the disk operating system and for people developing
10 software, that uniformity that you could pick whatever
11 hardware you wanted from Wang, or TI, or IBM, or Hewlett
12 Packard, Compaq, you could pick any hardware, yet when you
13 put DOS in, it was this familiar DOS prompt, and you could
14 go out and buy in a store any of the MS DOS applications,
15 which were not just -- eventually as we did a great job
16 encouraging more and more applications to be written, the
17 breadth of those got up to the tens of thousands of
18 applications, you could go and buy those and plug it into
19 your computer knowing that if it had been tested against
20 MS DOS, it would run on that machine.

21 Q What benefit, if any, did the fact that MS DOS ran on
22 different brands of personal computers have for independent
23 software vendors, or ISVs?

24 A Well, this idea that the hardware innovation and
25 software application innovation could proceed independently,

1 that is somebody could come out with a better piece of
2 hardware because it ran MS DOS and you didn't have to
3 rewrite all the software, or some application software
4 company could write a new application and that entire base
5 of MS DOS machines would be available to them, it made it a
6 lot easier for them to decide to invest in R and D.

7 Software is a very -- has very high fixed costs, that
8 is to write the very first copy of a software product, you
9 have to pay the engineers, take a lot of time and get it
10 done. Now once you have that product done, your extra costs
11 to make additional copies, the marginal cost is very low, I
12 mean almost is the cost of the media.

13 So if you want to sell things at a low price that, say,
14 an individual or a student would be willing to pay, or a
15 small business, then how do you make it work? Well, the
16 only way to make it work is volume. So the fact that MS DOS
17 was out there and lots of volume meant that you could put a
18 lot more into R and D, price the product to sell, and yet
19 know that the volume would be available to you, so the very
20 fact that -- the reason the software industry was able to
21 bootstrap -- to get going, to go from nonexistent, when
22 Microsoft went into business, to this gigantic business was
23 because of this volume thing. As there were more machines
24 meant you could write more software. As you wrote more
25 software, the product industry, it gave people more reasons

1 to buy machines. So the volume of the machines and the
2 amount of good software, those two things fed on each other
3 in this very positive way.

4 So now, you know, we have lots and lots of software
5 companies, including very specialized software, you know,
6 for different types of farmers or funeral homes or, you
7 know, you name it, there's a lot of software out there for
8 most applications.

9 Q Starting with MS DOS back in the 1980s, did Microsoft
10 choose to write applications to run on its operating
11 systems?

12 A Yeah, absolutely. I don't know of any case -- anybody
13 who created an operating system that didn't also do
14 applications to run on their operating system. You know, in
15 our case, we did a Multiplan spreadsheet, a Word word
16 processor.

17 There's also a class of software that you do called
18 tools that run on the operating system that are there to
19 help people develop software, so to make it easy for them to
20 write software. There was quite a variety of software tools
21 you would want to have for lots of ways of doing
22 development, including what are called high-level language
23 compilers and interpreters. So Microsoft did a bunch of
24 tools and a bunch of applications to run on MS DOS.

25 Q The jury has heard references to something called

1 Visual C++. Is that a tool, the kind you're describing?

2 A Right. C is a mid-level computer language, much better
3 than machine language, but not super high level, and it's
4 used for a lot of applications developed in C. Then there's
5 a sort of fancy variance of it called C++. Then Microsoft's
6 specific tool that helps you develop in that was named
7 Visual C++. So that's a C compiler product, a tool for
8 development that actually itself ran in MS DOS, but whose
9 goal was to help you write originally MS DOS and then later
10 also Windows-based programs.

11 Q Did Microsoft create Visual C++ only for its
12 developers?

13 A No. We sold hundreds of thousands of copies of Visual
14 C++. So it was used by anybody who was going to write in C,
15 you know, that became the most popular tool to do that. So
16 both developers doing commercial applications to sell to
17 each other and then also corporate developers where inside a
18 company to write some special applications just for your own
19 company, that's actually a huge market, a lot of developers
20 there. So Visual C++ was immensely popular in all those
21 different types of developers.

22 Q Mr. Gates, what benefits, if any, did Microsoft
23 derive -- Microsoft itself derive from both creating
24 operating systems and the applications that run on top of
25 those operating systems?

1 A Well, by writing applications, you kind of show
2 confidence in your own operating system, you show that, hey,
3 I really believe this is going to catch on. If people think
4 you have good software developers, it's all the more reason
5 for them to take a look and say, you know, should they also
6 write for.

7 Also, when it comes to figuring out what new things you
8 want to add to the operating system, what needs to be sped
9 up, what features people would take advantage of, having the
10 people who are doing these applications, are sometimes
11 called first-party applications, is a -- it's a huge
12 benefit.

13 Now your applications people, they have to, you know,
14 do a lot of work to help you pioneer things. They get stuff
15 when it's still particularly buggy and not quite right. You
16 know, sometimes you do go down dead ends, but, you know,
17 they are part of the process of figuring out where you want
18 to go with it.

19 Q How, if at all, do these independent software vendors,
20 or ISVs, benefit from the fact that Microsoft developed both
21 operating systems and the applications that run on top of
22 its operating systems?

23 A Well, there's a huge plus in terms of the maturity of
24 what we come to them and show them that it's going to be
25 made available. In many cases their applications are

1 complimentary to our applications. Now if they compete
2 directly with our applications, that's certainly a minus to
3 them. But the broad benefit is that the knowledge of what
4 should be in the operating system, the sophistication of the
5 operating system is greatly enhanced by having an
6 application division.

7 Q Are there any instances in which technologies developed
8 by Microsoft's applications developers have migrated into
9 the operating system?

10 A Yeah, absolutely. What you do when you're doing a new
11 version of an operating system is you take a hard look at
12 things that are showing up in many applications. So if they
13 are all having to write printer drivers, for example, and
14 that's lot of trouble for them, you think, well, maybe the
15 operating system should do the printer drivers. That
16 example is a good one because MS DOS does not have printer
17 drivers.

18 So all the word processors, the Microsoft word
19 processor, the WordPerfect word processor, MultiMate,
20 MicroPro, they all spent a huge amount of time writing
21 printer drivers. When we moved up to Windows, we took and
22 we put the printer drivers in. So there are many times
23 where you'll see what applications developers are having a
24 tough time on or what's showing up in many of these
25 applications and you will decide, okay, that's the next

1 thing that the operating system should take on so that it's
2 easy for applications, instead of doing it themselves, to
3 simply call that functionality knowing it will be better in
4 the operating system. So there are hundreds of examples.

5 Another good one is that handling different languages
6 worldwide, like Arabic goes right to left, and Japanese,
7 Chinese and Korean have these characters that are large, and
8 there's like 30,000 kanji, which is Japanese, initially all
9 the complexity of dealing with world languages were in the
10 applications. And so most applications didn't get Arabic
11 correct or they didn't get Chinese correct.

12 Now over time, we saw that that was showing up in the
13 applications and we moved that down into Windows. So
14 nowadays writing an application that works with all the
15 world's languages is a hundred times easier than it was
16 before because that moved from being an application level
17 feature to an operating system feature.

18 Q I would like to take you back to 1984 and the state of
19 Microsoft at that time. Was MS DOS a success in 1984?

20 A Yes. By -- MS DOS comes out in 1981 with early 16-bit
21 personal computers, like the IBM PC, the Compaq, and quite a
22 few others. By 1984, there were a lot of applications being
23 written for MS DOS, a lot of new hardware coming along. So,
24 you know, it was clearly in a good position.

25 Q I would like to show you what's been marked as

1 demonstrative Exhibit 173.

2 You have different glasses, Mr. Gates, but how old were
3 you when you were on the cover of Time Magazines in 1984?

4 A Let's see, I must have been 28 -- 29. Sorry.

5 Q Twenty-nine. Okay.

6 Were you content at this point to rely on the success
7 that Microsoft was having with MS DOS?

8 A No. In fact, even in the article that's inside that
9 magazine, we're talking about how the next frontier is a
10 much richer interface that includes running multiple
11 applications at the same time, applications working together
12 in rich ways, and presenting a graphical type appearance on
13 the screen. So we were already hard at work on what was the
14 next generation of operating system capability.

15 Q Now you mentioned graphical interfaces. Did MS DOS
16 have one of those?

17 A No, that became a key distinction. MS DOS only ran one
18 application at a time and it would take over the entire
19 screen. The next big change, which for us we called
20 Windows, was where we ran multiple applications at a time
21 and they could share the screen, hence the name Windows.

22 But perhaps most dramatically what was in those
23 Windows, instead of just being mono sized fonts, just kind
24 of boring characters, you could draw any type of picture.
25 In fact, it was lots of little individual points, pixels,

1 but because of that, it was very flexible, so the text
2 became much richer with fonts and variable spacing. And the
3 interface, now you could do essentially anything. You could
4 draw a picture basically. And so a whole new set of
5 interfaces became possible.

6 By 1984, we had oriented the company to put most of our
7 effort into building the operating system what became
8 Windows 1.0 that shipped in 1985, and starting to build
9 applications that worked that way both in our case for
10 Windows that ran on the Intel-based PCs and then also for
11 the Macintosh that ran on Apple hardware that used a
12 different microprocessor.

13 Q Now I would like to --

14 MR. HOLLEY: And I'm going to hope that they can
15 do this for me. Can we see both 176 and 179 at the same
16 time on the screen? I should have asked this before.

17 THE WITNESS: That's pretty good.

18 He's got Windows.

19 MR. HOLLEY: Yes, he does.

20 BY MR. HOLLEY:

21 Q Mr. Gates, the jury has heard a bit about the
22 difference between character based and graphical user
23 interfaces, and we don't have time for an in-depth lecture,
24 but can you just at a high level explain what in your view
25 was an improvement in terms of the graphical user interfaces

1 that's on the right-hand side of the screen?

2 A Yeah. I think just glancing at this will give people a
3 pretty clear understanding. On the left there, that is
4 MS DOS and that thing called the C prompt, C with that
5 greater than sign, that was the interface of MS DOS. So
6 somebody there typed DIR and they see their file names here,
7 the names and the sizes. And then once it had done that, it
8 would then -- then you got another C prompt, and you could
9 type -- if you typed in the name of an application, it would
10 run, but it would only one run one at a time. It would take
11 over the screen. So that was pretty limited.

12 Then over here, that's actually a screen shot. It
13 looks like it's a Win95 screen shot. You can see that now
14 instead of just text, you have graphics. These are called
15 icons, so these little pictures associated with actions you
16 could take. And so inbox is something you would click on to
17 see your mail. Internet would run a browser that could let
18 you look at the Internet.

19 Here if you clicked on this upper left one, my
20 computer, it shows you what is underneath -- what's in my
21 computer. I have a floppy drive, a CD ROM drive, a hard
22 disk drive, and a printer. So these -- as you open it up,
23 this is called a graphical folder. It shows you the set of
24 things inside. So as you click, you see what's inside.

25 If you click on printers there, it would show you the

1 names of the printers. Usually you would only have one, but
2 you would get a folder like this that would have that name
3 in it.

4 So this interface is very different. Actually, you
5 know, you have to get used to it. But also it is harder to
6 write applications for graphic interfaces. It takes quite a
7 bit of adjustment because you've been used to writing to
8 this thing on the left. The complexity and skill set for
9 writing to the one on the right is quite a bit different.
10 And the user, it takes a little while to adjust. Believe or
11 not, some people really have gotten use to this thing on the
12 left. Once you get used to the thing on the right, you
13 would never go back.

14 Q Mr. Gates, you said in the mid 1980s that Microsoft was
15 refocusing on graphical interfaces. Was that a universally
16 accepted view at that time in the mid '80s that graphical
17 interfaces were the way to go?

18 A No, absolutely not. It was considered crazy even by
19 the majority of the industry. The machines were slow enough
20 that Windows 1.0 that we shipped in 1985, which was a
21 brilliant piece of work, I mean we tuned it and tuned it and
22 tuned it, it was late -- quite late, because we were tuning
23 it. Some features didn't work out. We kept changing it.
24 But even with our best work, it was pretty slow.

25 And, remember, you know, you had floppy disks back

1 then. So it took seven floppy disks you had to stick into
2 this thing to install it. So just to get Windows 1.0 up and
3 running would take you a long time. So people thought we
4 were kind of nutty to be going in this direction.

5 Now fortunately for us, Apple also had bet on graphics
6 interface in their creation of the Macintosh computer. So
7 the two companies that were sort of pushing the most in this
8 direction were Apple and Microsoft.

9 IBM, for example, thought, you know, it was wrong, and
10 they went off and did a different thing with this character
11 mode -- fancy character mode, character mode multitasking
12 with Windows, but character mode Windows, they did a thing
13 called Pop View.

14 Q Now you used a term that I'm not sure we've heard much
15 in this trial, which is multitasking. Can you explain what
16 you mean by that?

17 A Yeah. That's just the idea that can you run more than
18 one thing at a time. So DOS, using this terminology, would
19 be single tasking, one task at a time. Whereas Windows, or
20 Unix -- nowadays it's hard to think of an operating system
21 that's single tasking. Most operating systems now are
22 multitasking, so you can run multiple things. And so even
23 as a user, you can start up in word processing and be
24 working along and then think, okay, I want to go over to
25 some application, go work on that. You can even have them

1 share the screen with each other. So multitasking just
2 means multiple actions at the same time.

3 Q Did Microsoft attempt to persuade third-party
4 developers or independent software vendors to write
5 applications to early versions of Windows?

6 A Yes. Starting actually back in 1983 when we decided to
7 go in this direction, we hadn't even named Windows. Windows
8 was called interface manager at the time. We started to
9 talk to software developers. We intensified that. Of
10 course, in 1984, Windows 1.0 was finally getting done. Then
11 Windows 1.0 came out. We went out and said, hey, this is
12 great. There were several software companies who bet with
13 us.

14 Then our own applications, you know, by 1987, '88, '89,
15 we're getting our own applications, Word, Multiplan, out in
16 the Windows environment. So there starts to be some
17 momentum, but it was still tough. Certainly until sometime
18 about 1990 or 1991, there was still some major holdouts who
19 didn't think graphics interface was the way the industry
20 should go.

21 Q Were there any particularly significant ISVs that were
22 holdouts, in your terminology?

23 A Well, some of the biggest didn't get started very
24 early, and even when they did get started, they had put sort
25 of the second string, not as well staffed --

1 MR. JOHNSON: Objection, Your Honor, to whether or
2 not they put the second string on. This man doesn't have
3 personal knowledge of that.

4 THE COURT: Overruled.

5 Go ahead.

6 THE WITNESS: Well, I had an opportunity to meet
7 the people, the people they were assigning to their Windows
8 development work in many cases. And, you know, some people
9 were more serious about it than others. Some of the major
10 companies, including Lotus and WordPerfect, were not as
11 serious, didn't see it as a big thing that would happen and
12 be critical.

13 BY MR. HOLLEY:

14 Q I think you said that Windows 1.0 was released in 1985.
15 Was that a commercial success?

16 A Not really. I mean it would lead to a commercial
17 success, but that version itself did not sell a lot of
18 copies. You know, in fact, we -- you know, we made it
19 really easy for hardware people to install it. We actually
20 came up with a version that you could ship with
21 applications. We did a lot of things. I mean we sold
22 hundreds of thousands of copies, but the percentage of
23 machines that ran it was a very small percentage.

24 Now Windows 2.0 picked up that number a fair bit. Then
25 Windows 3.0, the numbers started to be quite significant.

1 That really was like about 1990. That's a big milestone
2 because you have everything progressing in parallel. You
3 have the size of the memory going up, the size of the disk
4 going up, the speed of the processor, the resolution of the
5 graphics. You have all these things that are favorable to
6 graphics interface, including printers. You know, old
7 printers were literally character printers. Then finally
8 you have these matrix printers, and then eventually laser
9 printers. So you have a lot of things that made graphics,
10 including not just Windows, but also Apple's promotion of
11 Macintosh, a lot of things that are slowly but surely
12 driving graphics interface to be this fairly mainstream
13 activity.

14 Q You mentioned a couple of times the Apple Macintosh.
15 What, if any, products did Microsoft develop for the Apple
16 Macintosh?

17 A Microsoft actually put more people on to the Macintosh
18 project than Apple did. We did five different pieces of
19 software for the Macintosh. You know, we thought it was
20 quite an exciting machine. We did a word processor, Word.
21 We did a spreadsheet that was first Multiplan and then
22 Excel. We did a database program called File. We did a
23 BASIC Interpreter. We did a charting package that also was
24 eventually replaced by Excel.

25 Q Were the versions of Microsoft's applications for the

1 Apple Macintosh successful in the marketplace?

2 A Yeah, they were very successful. Those became still to
3 this day the best selling applications on the Macintosh.

4 Q Did Apple itself develop applications to run on the
5 Macintosh?

6 A Yeah. They did a word processor called Write. They
7 did a draw package. They did a paint package that they
8 actually included for free with the machine, that they
9 bundled with the machine. But they created a whole division
10 called Clarice that sold their applications, including their
11 word processing application, their drawing application, and
12 eventually a whole bunch of other applications.

13 Q Were the Clarice applications written by Apple more
14 popular with consumers than Microsoft's applications?

15 A No. Microsoft succeeded in having the best selling
16 applications in the categories we were both in, like word
17 processing. And overall our dollar sales, unit sales were
18 higher, which was a great thing for Apple, that it helped
19 popularize the Macintosh.

20 Q I just want to be clear I understood your answer. The
21 success of Microsoft's applications was a good thing for
22 Apple?

23 A That's right.

24 MR. JOHNSON: Objection, leading.

25 THE COURT: It was. Overruled.

1 You can answer.

2 THE WITNESS: Okay. Yes. The more applications
3 you have that show off, particularly if they are well
4 adapted to take advantage of the unique features of the
5 machine so they show off what that machine can do, the more
6 really good mainstream applications you have that are well
7 tailored to your latest hardware and software work, the more
8 attractive that machine is to people who are considering
9 buying it.

10 BY MR. HOLLEY:

11 Q Did Microsoft have more or less access to information
12 about the Macintosh operating system than Apple's own
13 application developers had?

14 A At the very early stage of the Mac project where we
15 were the only software developer outside of Apple, we had
16 this very close relationship and even helped define some of
17 the user interface, the very first disk format, which was a
18 piece of work that I did. But then once the Macintosh
19 shipped and they understood how serious we were about
20 Windows, they decided to --

21 MR. JOHNSON: Objection to what they decided, Your
22 Honor.

23 THE COURT: Yeah. That's probably hearsay.
24 Go ahead.

25 MR. JOHNSON: Thank you, Your Honor.

1 THE COURT: What did you do in response? I mean
2 the problem is -- tell us how you know what they knew.

3 THE WITNESS: Well, Apple decided by -- and I know
4 that because of Apple saying they had decided --

5 THE COURT: Go ahead.

6 MR. JOHNSON: That's the problem, Your Honor.

7 THE COURT: It's also the problem he's obviously
8 doing things in the market in response to what Apple was
9 doing.

10 Go ahead and answer the question.

11 THE WITNESS: Well, I had conversation with Apple
12 employees where they say we --

13 MR. JOHNSON: Your Honor.

14 THE COURT: The problem is that's hearsay because
15 they told --

16 MR. HOLLEY: Your Honor, let me ask a question and
17 I think we can cut through this.

18 BY MR. HOLLEY:

19 Q How, if at all, did the amount of information that
20 Microsoft received from Apple change after Apple understood
21 that Microsoft was developing Windows?

22 A Well, Apple chose not to give us access to much
23 operating system information, including they were more
24 generous to other third parties with that information than
25 they were with us. A lot of times we would find out about

1 features literally when the operating system shipped to end
2 users.

3 Q How, if at all, did writing applications for the Apple
4 Macintosh help Microsoft write applications for Windows?

5 A Well, as part of the whole thing of learning how to
6 write graphical applications, how should they look like,
7 what are you going to do in the dialog boxes, how are you
8 going to make them fairly efficient, we shared over
9 80 percent of the code that we wrote in those Macintosh
10 applications which shared in common with the versions that
11 we wrote for Windows. So the base code was largely the
12 same, although there were significant pieces that had to be
13 adapted specifically for Mac or specifically for Windows.

14 So doing the Mac work was the key part of the learning
15 curve. In fact, we were the most committed ISV to the
16 Macintosh partly because we saw the opportunity there, but
17 even more so because we saw the broad graphics interface
18 opportunity.

19 Q Now you talked a little earlier about Visual C++. Did
20 Microsoft do anything else to assist third-party developers
21 in writing Windows applications?

22 A Yeah. We created a large set of tools that would help
23 people write Windows applications. We also did a lot of
24 events, what we call developer conferences, where we would
25 talk about what we were doing, show off the tools, sit and

1 get feedback from developers. We created a group, the
2 developers relationships group, the acronym is DRG, that
3 would go out and talk to ISVs. So we invested a great deal
4 in trying to make it easy and encourage people to write
5 applications for Windows.

6 Q What was MSDN, which is something that the jury has
7 heard about?

8 A A lot of the documentation for developers we would pull
9 together in this thing called the Microsoft developer
10 network. So the acronym is Microsoft developer network.
11 And the amount of material in there about writing Windows
12 applications over time, you know, got larger and larger. It
13 was the place that we put -- initially on a CD-ROM, but
14 eventually on a Web site. The information made it quite
15 easy to navigate.

16 Q You mentioned the Microsoft developer relations group.
17 Why did Microsoft have such a group?

18 A Well, simply to get feedback on the operating system,
19 you know, what things weren't working, what things would
20 they like to see improved, what new features would they be
21 willing to take advantage of, answer technical questions
22 that came up. And so that was a -- we had good people in
23 DRG that facilitated that communication.

24 Q Did DRG work with ISVs who were developing applications
25 that competed with Microsoft's own applications?

1 A Yes.

2 Q Why did you do that?

3 A Well, we thought having those applications on Windows,
4 on balance was a good thing for us.

5 Q Even if that meant that you would lose sales of
6 Microsoft Word and Microsoft Excel?

7 MR. JOHNSON: Objection, leading.

8 THE COURT: Overruled.

9 THE WITNESS: That's correct. We decided that we
10 wanted to work with them and chose to do so.

11 BY MR. HOLLEY:

12 Q What was the Microsoft Press -- what is the Microsoft
13 Press?

14 A That was a group at Microsoft who had actually come out
15 with books mostly about developing for Windows and other
16 Microsoft environments. But they did quite a variety of
17 books.

18 Q And can you tell us what the Microsoft Systems Journal
19 is?

20 A Yeah. That was essentially like a magazine, a very
21 hard core magazine about technical issues that if you were
22 really into writing Windows applications, you would
23 definitely want to catch the latest issue of the Microsoft
24 Journal.

25 THE COURT: On the other hand, if you didn't, you

1 wouldn't.

2 THE WITNESS: That is certainly correct.

3 MR. HOLLEY: It might not be on your coffee table,
4 Your Honor.

5 THE WITNESS: It would be gobbledegook.

6 BY MR. HOLLEY:

7 Q Turning to the late 1980s in word processing software
8 on the DOS, MS DOS, was Microsoft the leader in that area?

9 A No. In DOS word processing, WordPerfect was
10 substantially the company that sold the most MS DOS word
11 processors. And then there was MultiMate, there was
12 MicroPro. Microsoft's Word product was out there, but would
13 have been somewhere fourth or fifth in terms of relative
14 sales volume.

15 Q Given that the people writing Microsoft Word for MS DOS
16 worked on the same campus as the people writing MS DOS, why
17 wasn't Microsoft Word more popular?

18 A I think there are several things that explain that.
19 One is that we picked up a design that anticipated that
20 variable sized fonts and laser printers and all these things
21 would come along. So some of the off-putting user interface
22 of Microsoft Word was because we supported those things, but
23 they weren't that interesting until better printers or
24 graphics interface came along.

25 Also I would say we just didn't do a very good job.

1 You know, our overall usability in particular was not as
2 good as a number of other vendors.

3 Q Did the WordPerfect Corporation create a version of its
4 word processing software for early versions of Windows?

5 A No. They didn't come out with a word processor for
6 Windows until about 1991. So fairly late in the Windows
7 game.

8 Q What, if anything, did you personally do to attempt to
9 persuade the WordPerfect Corporation to develop a version of
10 its word processor for Windows?

11 A Well, we devoted resources both in DRG and executive
12 time to communicate with WordPerfect on a regular basis
13 that, come on, you should do a Windows version. Windows is
14 going to be popular. And, you know, Pete Peterson, I
15 remember at one of the industry conferences, said, hey --

16 MR. JOHNSON: Objection.

17 THE COURT: Overruled. It's not for the truth of
18 what he said.

19 Go ahead. You may answer. You can say what he
20 said.

21 THE WITNESS: Okay.

22 THE COURT: It's just the jury can't consider
23 whatever you say he said for the truth of what he said is
24 all.

25 Go ahead and answer the question.

1 MR. HOLLEY: Don't think too hard about it.

2 THE COURT: I have been trying to think about
3 computers, so maybe you ought to think about law.

4 Go ahead.

5 THE WITNESS: Pete said that he wanted to wait
6 until everybody demanded it and he wasn't going to get out
7 in front on this one.

8 In any case, they -- you know, they -- everybody
9 knew that we were out talking to everyone trying to
10 encourage them to do Windows applications.

11 BY MR. HOLLEY:

12 Q What difference does it make to you whether WordPerfect
13 Corporation developed a version of its word processor for
14 Windows?

15 A Well, when somebody was considering whether to switch
16 from using MS DOS or -- yeah, to switch from using MS DOS,
17 if they had been using WordPerfect, then not only would they
18 have to buy a computer that ran Windows and get used to
19 using Windows, but also at the same time they would have to
20 buy another word processor, which might not handle their
21 documents well, we would have different sets of commands,
22 wouldn't print their documents out the same way that their
23 WordPerfect word processor had on MS DOS. So it meant the
24 barriers for switching up to use Windows were just that much
25 higher.

1 If you could switch and WordPerfect had a version of
2 the word processor that read the same documents, printed in
3 the same way, had the same type of command structure, it
4 would be just an easier switch to move into the graphics
5 interface world and use Microsoft Windows.

6 Q How, if at all, did the fact that WordPerfect competed
7 with Microsoft Word affect your judgment about whether it
8 was a good idea for WordPerfect to create a version of its
9 product for Windows?

10 A Well, we encouraged them and went to the effort to try
11 and make it so they could do it, and eventually they did.

12 Q In terms of creating a new operating system like
13 Windows, is it enough to have one or two applications that
14 run on that operating system?

15 A No. In order for a new operating system to get any
16 volume at all, it's got to have a lot of applications, I
17 mean literally thousands of applications. And so you just
18 need a ton of excitement about something unique that you're
19 doing with that operating system. Now you can write a lot
20 of applications yourself, but you are going to have to get
21 ISVs as well to see it as a big, big opportunity.

22 Q Is that true even if the two or three applications you
23 have are enormously popular?

24 A That's not enough because let's take a company, they
25 want to have some uniformity what software is being used

1 inside the company in terms of how they secure documents,
2 train people to do things. So they are going to pick very
3 few operating systems, sometimes one.

4 MR. JOHNSON: Objection as to what they're going
5 to pick.

6 THE COURT: Overruled. I think he's got to take
7 into account what they are going to do in terms of what he
8 does. Overruled.

9 Go ahead. You can answer.

10 THE WITNESS: Companies -- when companies pick
11 operating systems, they decide on very few because the
12 complexity of having too many would mean their support staff
13 or figuring out if the data is secure such that it would
14 just be too difficult. And so when they pick a few
15 operating systems, they need to make sure that even the more
16 obscure applications that they need are there. You know,
17 their engineering department needs some applications, their
18 legal department needs some applications. So the total set
19 of applications that would make an operating system
20 acceptable to them is going to have to have a lot of
21 applications, not just a few popular applications.

22 BY MR. HOLLEY:

23 Q I would like to switch topics now and talk about
24 something that the jury has heard about, which are suites.
25 What software company was the first to package different

1 business applications together in a suite?

2 A Well, in terms of productivity software, Microsoft was
3 the first to create this office concept where a lot of
4 productivity packages would be both technically integrated
5 and available as a group for a much discounted price.

6 Q Why did Microsoft do that?

7 A Well, we thought that if we put together the various
8 office components, word processing, spreadsheet,
9 presentations and other things, and made that available
10 about a third the price than if you bought them
11 individually, A, it would be a very good deal for somebody
12 who wanted to use multiple of those modules, and, B, for
13 somebody who had hesitated and, say, only bought one module,
14 they would then find that now they were able to get more
15 modules and would probably start using them, would probably
16 start using PowerPoint for presentations. If they hadn't
17 known the power of the spreadsheet, then they would get in
18 there and start having the benefit of that in terms of
19 improving their productivity.

20 Q What impact, if any, did this lower pricing that you
21 just described have on sales of suites?

22 A Suites definitely caught on. So you had -- you know,
23 you had the move towards Windows and graphical applications,
24 and Macintosh. And then you had this move towards suites
25 happening in the early '90s in a big way. Suites became

1 quite popular.

2 Q What, if anything, was the WordPerfect Corporation
3 doing in the suites segment of the software business in the
4 early 1990s?

5 A Well, everyone who had had a popular application had to
6 decide did they want to participate in the suite business or
7 not. And so they had, you know, several ways to go about
8 that if they did. They could assign an internal engineering
9 team to try to create those other products. They could buy
10 or license other products through some type of alliance and
11 assemble a kind of suite.

12 Now one of the aspects of a suite is you want to have
13 the ability to move information between the products and you
14 want to have a very common user interface. So having the
15 same set of engineers work on the suites would allow your
16 suite to be a lot more consistent than if they come from
17 different places.

18 WordPerfect in particular, they, in the DOS
19 environment -- of course, their word processor had been very
20 popular. They had had on some other environments some
21 spreadsheet work, but it wasn't very powerful, not very
22 popular, so they looked at whether they could ally with
23 other people who had spreadsheets. At one time they talked
24 to Lotus, who had the 1-2-3 spreadsheet. Later they talked
25 to Borland, who had the Quattro Pro spreadsheet. So they

1 went out and tried to find things to assemble into a suite.

2 Q Now you mentioned moving things from one application in
3 a suite to another. Did Microsoft ever develop any
4 technology along those lines?

5 A Yes. We created initially in the Office group, but it
6 worked out so well that we put it down into Windows so
7 everybody could use it, the ability to have in one document
8 information from another application.

9 And so a classic example would be in Microsoft Word, if
10 you want to chart, well, Word doesn't have any ability to
11 make a pie chart at all. But Excel, which was the
12 spreadsheet, had the ability to make that pie chart. So
13 what it let you do was go point to that chart and move it
14 into the word document. And then it would be sitting in
15 that word document, so whenever you would read it, it was
16 there. Or if you wanted to edit it, you would just point to
17 it, click on it, and actually it would realize. So that
18 came from Excel and it would run Excel.

19 Now doing that so the user interface is fairly clean,
20 it didn't take too much memory, it wasn't too slow, it was
21 very tricky. It had the kind of obscure names -- this
22 capability I'm talking about are object, linking and
23 embedding. They called it that because this ability to put
24 something in another document, that was the object. And
25 then you would embed it in one application, but it was still

1 linked back to the original application, so when you clicked
2 on it, you could still edit it. So it was called object,
3 linking and embedding. Because everything had an acronym,
4 it was also called O-L-E, OLE.

5 Q When Microsoft moved OLE from Microsoft Office to
6 Microsoft Windows, how, if at all, were ISVs benefited by
7 that?

8 A Well, they had the opportunity to use it. Some ISVs
9 chose to use it. Some chose not to use it. It was a
10 feature in Microsoft Office that a lot of users found --
11 that Microsoft Office used, a lot of users found attractive.
12 So over time more and more ISVs included that capability in
13 their applications.

14 Q Are you familiar, Mr. Gates, with a product that was
15 called Borland Office?

16 A Yes.

17 Q What was Borland Office?

18 A Borland Office was where Borland, which had the number
19 three spreadsheet called Quattro, entered into an agreement
20 with WordPerfect to combine their Windows word processor
21 together with Quattro Pro and offer that as one of these
22 suite type products.

23 Q Was Borland a consumer brand at the time Borland Office
24 existed?

25 A No. Borland was mostly known for their development

1 tools. They had written a pascal compiler that was fairly
2 popular. So when they came out with a spreadsheet, it was
3 kind of a different area for them to be in. And, you know,
4 they never really got the prominence that 1-2-3, which was
5 the Lotus spreadsheet, or the Excel, which was the Microsoft
6 spreadsheet, got.

7 Q Did you view Borland Office as a serious competitor to
8 Microsoft Windows -- excuse me, Microsoft Office?

9 A Yeah, it was a competitor. It was one of the suite
10 competitors. It never achieved a large market share, but we
11 took it seriously.

12 Q Now I would like to turn -- to move forward a little
13 bit to 1994, and I'm going to ask you to take a look at
14 what's been marked as Defendant's Exhibit 297.

15 Mr. Gates, can you tell us what Defendant's Exhibit 297
16 is?

17 A Yeah. This is an e-mail -- and I don't know how much
18 people in the courtroom have seen this before, but it's an
19 e-mail that I write where it says from Bill Gates, and it's
20 to some Microsoft people, Chris Peters is one of them, Hank
21 Vigil, Peter Pathe, and then copied to five other people
22 with the subject -- because I'm forwarding it -- re: Word
23 won InfoWorld on February 7th, 1994.

24 Q And can you tell us who the people are that -- not
25 obviously their titles, but if there is any grouping of

1 these people that you are sending this e-mail to?

2 A Yeah. These are people who are in the Office group.

3 What happened here is that we had gotten an e-mail telling
4 us that one of the computer magazines, the one whose reviews
5 were the most watched and the most important at the time, a
6 magazine called InfoWorld, had reviewed Windows word
7 processors recently. And so the first e-mail in the chain
8 is from the people telling us that Windows Word won that
9 review.

10 Then Chris Peters, without adding text, he just sends
11 that to me. And then I take that and send it to a lot of
12 people, but I had that text at the top about what an
13 important development it was. So these are people in the
14 Office group that I'm explaining my view of what a great
15 achievement this is.

16 Q You say in the first paragraph, Mr. Gates, an important
17 win. This is super. Why did you say that?

18 A Well, in the DOS word processing business, WordPerfect
19 had two really key things that had driven their success.
20 One had been that they had won the InforWorld reviews again
21 and again and again. So with their DOS word processor, they
22 added features. They did what users wanted. They had had
23 the right speed. So they stayed ahead in the reviews.

24 The second thing was they had this free support where
25 you could call up an 800 number and talk as long as you

1 wanted, which was a significant expense for them, but it was
2 something they provided to their users.

3 So those two were two key things. In fact, all of
4 their ads would simply take their support policies and their
5 InfoWorld review information, and that was the DOS
6 WordPerfect had.

7 Now here in the Windows world, their Windows word
8 processor was not nearly as good. So if you look down in
9 this e-mail, it says Word 8.2, Ami 7.0, WordPerfect 6.0. So
10 InfoWorld would rank things on a scale of one to ten, and a
11 six was kind of a so-so ranking and an eight or nine was a
12 very, very good ranking.

13 And so when it says we won, we won that because our
14 score was higher, it says, especially the gap between us and
15 WordPerfect. That's the gap between the 8.2 and the 6.0.
16 Now we knew -- you know, we were working hard on Windows
17 Word. We knew it was a great product. But it, you know,
18 was a great confirmation. Then I go on to say, InfoWorld
19 made WordPerfect and this will help unmake them.

20 Q What did you mean by that, sir?

21 A Well, I'm just referring again to the fact that they
22 had touted their winning the InfoWorld reviews with their
23 DOS product as a key part of their positioning. If you had
24 asked people about DOS WordPerfect, what ads they ever ran,
25 it was the free support policy and the product that got the

1 best reviews. And so I was saying that it was a -- you
2 know, it was a real milestone that, you know, they were no
3 longer doing the word processor that got good reviews.

4 Q Now in the next paragraph, Mr. Gates, you say, I can't
5 believe the string of news about WordPerfect. First we
6 start with no real suite strategy.

7 What did you mean by that?

8 A I meant that they didn't have a set of uniform and
9 strong products to put together into one of these Office
10 suites, that is even though they had done some stuff with
11 Borland, the Quattro Pro user interface was so different,
12 and even the way you got help was different than the way you
13 did it in WordPerfect, so it was kind of incoherent. And
14 they didn't really have a strategy for the other elements,
15 what were they going to do about presentation and database.
16 So they were challenged in terms of coming up with a suite
17 strategy.

18 Q Then you go on in the sentence, Mr. Gates, to say, then
19 we get a new CEO who adds the following.

20 What significance, if any, did you attribute to the
21 fact that WordPerfect had a new chief executive officer in
22 1994?

23 A Well, when a new CEO comes along, it's always an
24 opportunity for a company. It can be a good time where they
25 pick some new strategy that makes more sense, get rid of the

1 software that didn't make sense, or it can be just a time of
2 disruption where the CEO picks some things that are not
3 going to work and doesn't really gel with what the actual
4 strengths of the company are.

5 THE COURT: Mr. Johnson, I could be confused about
6 this. To help the jury, you may want to identify who the
7 new CEO is.

8 THE WITNESS: Bob Frankenberg, who had recently,
9 not long before this e-mail -- sorry.

10 MR. HOLLEY: I don't think either Mr. Johnson or I
11 should be testifying.

12 MR. JOHNSON: I'm not saying a word.

13 BY MR. HOLLEY:

14 Q We're now talking about February 1994, Mr. Gates. So
15 do you know whether WordPerfect had a new CEO, not Novell?

16 THE COURT: Go ahead. That's precisely why I
17 asked the question because I didn't think it was
18 Mr. Frankenberg.

19 Who did you think it was?

20 THE WITNESS: That's a good question.

21 THE COURT: I don't think that Mr. Johnson would
22 object to you leading on this one.

23 MR. JOHNSON: Not at all, Your Honor.

24 BY MR. HOLLEY:

25 Q So Mr. Rietveld had replaced Mr. Peterson?

1 A That's right.

2 THE COURT: Just in terms of the time frame, this
3 is February '94 and it's not until later?

4 THE WITNESS: That's right.

5 MR. HOLLEY: Thank you, Your Honor, for clarifying
6 that.

7 THE COURT: Just doing that for the jury.

8 MR. HOLLEY: Okay.

9 BY MR. HOLLEY:

10 Q So back to this, you attributed significance to the
11 fact that Mr. Rietveld had replaced Mr. Peterson, and then
12 you say, laying off 20 percent.

13 What significance did you attribute to that?

14 A Well, WordPerfect in the earlier periods had been a
15 going company where they added people and people who worked
16 there had a lot of job security. And, you know, I thought,
17 like Microsoft, I think they created a close relationship
18 with their engineers. When you get into a situation then
19 where you're laying those people off, that idea of, hey,
20 we're all in this together, we're going to work super hard,
21 you don't get that same type of positive spiral.

22 So having a layoff, not only does it have the direct
23 consequence of reducing your capacity by that percentage, it
24 also kind of creates a negative aura, certainly an aura of
25 who is going to get laid off next. So anyway, it's not a

1 good situation for a software company and clearly was going
2 to hurt their productivity.

3 MR. JOHNSON: Your Honor, move to strike that
4 answer. He's no expert in the industry of lay-offs or what
5 that means to a company.

6 THE COURT: Overruled. He is a chief executive.

7 Ladies and gentlemen, consider it for whatever you
8 consider it for.

9 BY MR. HOLLEY:

10 Q Your Honor -- Mr. Gates, what significance, if any, did
11 you attribute to your second point, getting rid of free
12 support policy?

13 A We were very surprised that they got rid of their free
14 support policy. Of course, it cost them a lot of money
15 because when people would call in on that 800 number, they
16 were being billed per minute, and it made it very easy for
17 people to call up and they had a high volume of calls. But
18 from a competitive point of view, their decision not to bear
19 that expense took one of the things that they had really
20 stood for and got rid of it.

21 So it -- you know, we viewed it as likely to cause a
22 lot more people to take a hard look at another word
23 processor.

24 Q Your third point, what significance, if any, did you
25 attribute to no more upgrade of DOS WordPerfect?

1 A Well, most of their users by far were using their
2 MS DOS product. And so for somebody who's thinking, hey,
3 this thing is still missing a few features, I will stick
4 with it, maybe there will be an update that I can get that
5 will give me those new features, you know, new printers come
6 along, I will get updates that will support those things.
7 By actually announcing that you don't plan to improve your
8 MS DOS product, it makes people realize, wow, I can't stick
9 with MS DOS if I want new word processing features. I'm
10 going to have to switch over to Windows. As long as I'm
11 switching to Windows, there's a question whether you want to
12 stay with the same word processor, or also switch that at
13 the same time. So they kind of created a dead end for the
14 install base user on their DOS product.

15 Q I think we've already talked about item D. What
16 significance did you attribute to Microsoft coming up with
17 great ads explaining our support quality, if any?

18 A Well, I had been very critical of the ads that this
19 group had done in a prior time period. They had improved
20 them enough that I was saying, hey, now you're actually
21 running decent ads -- great ads explaining that we have good
22 support too, so that users wouldn't have the perception that
23 only WordPerfect was offering high support quality.

24 Q I would like to show you now what's been marked as
25 Defendant's Exhibit 315.

1 Mr. Gates, can you tell us what Defendant's Exhibit 315
2 is, please?

3 A Yeah. This looks like the document I wrote at the time
4 when I heard that Novell was buying WordPerfect and
5 acquiring Quattro Pro from Borland and talked about my
6 reaction and some of the possibilities coming out of this
7 business combination.

8 Q Now directing your attention, sir, to the first
9 paragraph, you write, the already intensely competitive
10 software business has become even more competitive.

11 What did you mean by that, sir?

12 A I meant that if they were able to take the set of
13 products and the scale that this new combination would
14 create, that, you know, they would be a better competitor.
15 They would have more pieces that they could put together. I
16 already viewed the software industry as fast moving, highly
17 competitive, products getting better, prices going down, but
18 this looked like at least it gave them a chance of being a
19 stronger competitor.

20 Q Now under the heading key impacts under the subheading
21 Office, you wrote if Novell executes well, they will be able
22 to turn their Office suite into a serious contender.

23 Why did you write that, sir?

24 A Well, at the time Windows WordPerfect was not achieving
25 high market share and they didn't have a particularly strong

1 suite offering. But my view was that if they executed well,
2 if they took the resources that would be available and did a
3 very good job, they would have a better suite product. So
4 they had a -- it was a chance with the right execution for
5 essentially a comeback.

6 Q In the second sentence, Mr. Gates, you write, the
7 fading strength of WordPerfect and Quattro could be
8 reversed.

9 Could you explain what you meant by that, sir?

10 A Again, both those products were not achieving a high
11 share. And if you could have gotten all the Quattro Pro
12 engineers, hired them in, got them very quickly to change
13 the user interface to be consistent with the WordPerfect
14 interface. Even the most basic things were quite different
15 between those two products. It was bizarre that they even
16 previous to this had been put into a suite. You could
17 actually take some of those problems, you know, then take
18 the resources of Novell, if you hired more engineers, you
19 could fix some of the big things that InfoWorld had pointed
20 out were the missing features and the clunkiness of the
21 Windows WordPerfect product. You had a chance to both fix
22 the products individually and integrate them in a stronger
23 fashion.

24 Q Now moving down the page under the subheading business
25 unknowns, I would like -- just because you just talked about

1 it, I would like to look at the third sentence which says,
2 Quattro Pro developers are being excised from the barbarians
3 world to a completely new company.

4 What did you mean by that, Mr. Gates?

5 A Well, you know, in this sort of memo I'm talking about
6 some of the possibilities, and we had seen mergers before
7 and many of them in the software industry were not well
8 executed. You know, so here, under business unknowns, I
9 talk about how people will be diverted for six months, you
10 know, it's hard -- it's hard to do.

11 Quattro Pro was from Borland and Borland had a very,
12 very different culture than most software companies and, in
13 particular, what I knew of the WordPerfect culture, that is
14 the developers didn't have to come in during the day. They
15 were kind of prima donnas. They even referred to themselves
16 as barbarians, that is they liked that label. The CEO
17 himself of Borland, a guy named Philippe Kahn, liked to
18 think of him as the ultimate barbarian and his developers as
19 the kind of barbarian type who would just come in and work
20 all night and do things.

21 So, you know, it's going to be interesting to see how
22 those people, if they joined the combination and were asked
23 to do these quality improvements that were needed and would
24 help the company, to see if they made that transition, would
25 they stay, would they work well in that environment or not.

1 Q Now skipping a sentence and then going to one that
2 begins, Novell's leadership will be stretched incredibly
3 thin by absorbing all of these pieces, particularly with the
4 succession plan unclear.

5 What did you mean by the succession plan?

6 A Well, at the time this business combination was
7 announced, they had not yet said -- and I don't know, they
8 may not have known themselves. They didn't say who was
9 actually going to run the thing. So it was kind of -- that
10 was kind of the surprising thing to put very disparate
11 pieces together that had very different code bases, very
12 different user interfaces, put them together and, you know,
13 say they were going to execute as a competitor for Lotus and
14 Microsoft and not say who was going to be in charge of the
15 whole thing.

16 Q Who had been the CEO of Novell up until this time?

17 A I think Ray Noorda was still the CEO up through the
18 this time period.

19 Q Who replaced Mr. Noorda?

20 A Eventually Bob Frankenberg took the position to run
21 Novell, and including these new assets that were part of the
22 company.

23 Q Did you have any view on Novell's choice of
24 Mr. Frankenberg?

25 A Well, he's a good person, but his background was at

1 Hewlett Packard, which was a hardware company. When they
2 tried to do software, like Open View, it hadn't been
3 successful. So I thought he was an unusual choice, but, you
4 know, not a bad person.

5 Q Now turning to the second page of this document under
6 the subheading technology unknowns, you write, Novell has
7 never had a technical agenda that its product was designed
8 around.

9 What did you mean by that, Mr. Gates?

10 A I meant that they hadn't come up with architecture that
11 really would show how their products would fit together.
12 The original product NetWare, that Drew Major and some other
13 people created, was a great piece of work. It was very
14 efficient, very well tuned for the one thing that it did,
15 which was file sharing. But once they had done that, they
16 never really got a plan for where they wanted to go around.
17 So I was commenting on that they didn't -- they didn't have
18 a technical agenda that rallied their developers to work
19 towards a common set of architectural goals.

20 Q What significance, if any, did you see that having for
21 their suite product?

22 A Well, when you do a suite product, where they come --
23 the suite elements come from different backgrounds, there is
24 a lot of architectural decisions to be made. Here I talk
25 about what are they going to do about the database

1 component. You know, Microsoft Office had this module
2 called Access that was very, very popular. And here they
3 just had a temporary license to a database product.

4 They didn't have a way of writing macros, doing
5 automation across the different modules. So I talk about,
6 well, are they going to use the Quattro Pro automation
7 language, which really is very structured specific, or were
8 they going to use what was in WordPerfect that was very
9 limited. You know, they had to make some choices and drive
10 everybody to a common technical agenda and do it fairly
11 rapidly to take what were essentially assets that were
12 losing share and see if they could actually, through
13 reenergizing them, get them back onto a positive track.

14 Q I think this may be a new term or a new concept for
15 people in the courtroom, at least some of them. Can you
16 explain what an automation language is in the context of a
17 business application?

18 A Yeah. Even when you work with a spreadsheet or a word
19 processor or a database, you might want to write a little
20 program. So say you want to print mailing labels, the
21 actual format of the mailing labels you might want a little
22 software that decides how you're going to organize those
23 things. Or if you want to do a report that presents
24 information, you might want a little bit of logic that
25 determines what numbers are in that report.

1 So even at the level of these Office productivity
2 applications, there was the ability to write what were
3 sometimes called automation programs, or macro programs,
4 that take the capabilities of the Office pieces and tell
5 them to do something. And once you put things in a suite,
6 you would want to use one language, one automation language
7 across the different modules so that, A, you only had to
8 learn one, and, B, if you wanted to do a task that involved
9 multiple modules, then that automation link would be able to
10 perform them.

11 Q Did Microsoft write any automation languages for use
12 with Microsoft Office?

13 A Yeah, that was a huge strength of the Microsoft Office
14 suite is that we had a way of using visual basic programming
15 to control all the different modules. We had one automation
16 strategy across all the products.

17 Q What was that product called, the automation language
18 for Office?

19 A Well, it was sort of Visual Basic for Office, or Visual
20 Basic for Applications. And because everything has an
21 acronym, that was called VBA, Visual Basic for Applications.

22 Q Was VBA available only to Microsoft applications and
23 developers?

24 A No. In fact, it was completely optional. Some Windows
25 developers took advantage of the fact that we offered VBA,

1 actually put that into their productivity software, and some
2 did not. But we got a lot of people to take on VBA, and
3 that became a selling feature for the people who actually
4 chose to do it.

5 Q I would like to switch topics now and talk about
6 something called middleware. The jury has heard quite a lot
7 about it.

8 THE COURT: Can we go another ten minutes?
9 Everybody okay? We're switching topics. This would be a
10 good time to take a break. If everybody is okay, we'll go
11 another ten minutes or so.

12 BY MR. HOLLEY:

13 Q Mr. Gates, is there a generally accepted definition of
14 the word middleware in the software industry?

15 A No. It's used in different ways by different people.

16 Q I'm going to ask you to accept the definition of
17 middleware for the next series of questions and, you know,
18 you can tell me if you disagree with any of these elements.
19 But let's look at demonstrative Exhibit 186.

20 Now, Mr. Gates, just so we're on the same page in terms
21 of terminology, if I say to you that a piece of middleware
22 is cross-platform, what does that mean to you?

23 MR. JOHNSON: Your Honor, I would just like to
24 note an objection to this slide. Professor Noll didn't say
25 that. And so we would just have a continuing objection to

1 the use of that slide.

2 THE COURT: Nobody -- this is Mr. Gates'
3 understanding.

4 Go ahead.

5 MR. JOHNSON: Your Honor, it says that this is --
6 the source of this list is the testimony of Roger Noll on
7 the bottom, and we would just raise an objection, that's not
8 what he said.

9 THE COURT: If it is, you all can argue that to
10 the jury, whether or not that's -- I'm sorry. I was -- I
11 didn't see that.

12 Ladies and gentlemen, forget the source. That can
13 be argued to you, what the source is. This is Mr. Gates'
14 understanding. Whether it's the source or not, you ought to
15 determine later.

16 MR. HOLLEY: Thank you, Your Honor.

17 BY MR. HOLLEY:

18 Q Mr. Gates, back to my question, if I say to you that a
19 piece of middleware is cross-platform, what does that mean
20 to you, sir?

21 A That means it's available to run on a number of
22 operating systems. So, you know, generally the popular --
23 it would have to be available on popular operating systems.

24 Q And what does it mean to you to say that a piece of
25 middleware is ubiquitous?

1 A Actually the parenthetical makes that clear, that is it
2 has to be out on a huge number, a very high percentage, you
3 know, say over 80 percent of all the machines out there, so
4 that a developer would consider requiring it for their
5 application to run on.

6 Q And the third element here on this chart, what does it
7 mean to you to say that a piece of middleware exposes enough
8 APIs to allow ISVs profitably to write full-featured
9 personal productivity applications that rely solely on those
10 APIs?

11 A Well, it means that if this -- if the middleware -- to
12 meet this definition, it has to have enough power that
13 literally you write -- something like a word processor, so
14 that just by the middleware being available, the word
15 processor runs on any platform where you have that
16 middleware and runs in a decent way, that is people really
17 want to use it, it's fast enough, it fits in with other
18 things they do on that platform. And the way to get there
19 is you would have to have a lot of capabilities exposed
20 through application programming interfaces, which is that
21 acronym API, to allow the software developers, that's the
22 ISVs, to say that yes, they wanted to go ahead and create
23 such applications.

24 Q As we're here in November 2011, has any middleware ever
25 been created that meets those three conditions?

1 A No, sir.

2 Q Has anyone ever tried to do that?

3 A Well, you could say that some of the stuff that the
4 Java -- Java script browser people talked about doing, they
5 talked about aiming to get to this point. Now they never
6 actually got there. There isn't, you know, a single
7 productivity application that ever relied just on those
8 APIs. But, you know, in their prognostications about where
9 they wanted to go with it, it was something they talked
10 about wanting to achieve, but they did not.

11 Q Does Microsoft Office expose any APIs?

12 A Yes, it exposes APIs.

13 Q Does it meet these three conditions, Microsoft Office?

14 A No. You would never -- the API set exposed by Office
15 is quite narrow. It's specifically for people who want to
16 do enhancements on top of those Office applications, which
17 would be fairly narrow vertical type applications. So very
18 different than the API that's down in Windows itself.

19 Q Now you used a term I don't think we've heard before,
20 which is vertical application. What do you mean when you
21 say vertical application?

22 A I mean having a very targeted purpose. So, for
23 example, if there is a way that, say, a baseball team likes
24 to print out summaries of games, there is a little piece of
25 software that runs on Microsoft Word that makes it easy to

1 print out box score type things, statistic type things. So
2 generally these little applications are for quite a specific
3 purpose and they tend not -- you know, compared to a
4 full-blown application, they would have like a few percent
5 of the lines of code, that is they would be hundreds of
6 lines of code instead of tens of thousands of lines of code.
7 So very different. Nobody would ever be confused about Word
8 as a platform versus Windows as a platform.

9 Q I wish I could share your optimism on that point,
10 Mr. Gates.

11 THE COURT: I will strike that one.

12 BY MR. HOLLEY:

13 Q Mr. Gates, were you ever concerned that a product
14 called WordPerfect was middleware under this definition?

15 A No.

16 Q Why not?

17 A Because WordPerfect, what it exposed was very similar
18 to what Word exposed, that is the type of extensibility that
19 somebody who would program on top of a word processor would
20 need. So none of the things that you associated with an
21 operating system or that you would need for productivity
22 applications, like deep memory management, device
23 management, task management, none of those things are in
24 productivity application APIs, neither WordPerfect or Word
25 or other productivity applications. So you would never

1 think of them as middleware.

2 Q What if I added two other software products to
3 WordPerfect, if I asked you WordPerfect plus something
4 called AppWare plus something called OpenDoc, did you ever
5 regard that combination as middleware under this definition?

6 A No.

7 Q Why not, sir?

8 A Well, in the case of OpenDoc, it was one of those
9 technologies where it never actually became concrete. Apple
10 had done some work and a bunch of other people got together
11 and said, okay, let's do some non-Microsoft sort of OLE type
12 thing. So they talked about did they want to do a common
13 format, did they want to do a common API, and the whole
14 thing fell apart before it became a concrete thing because
15 the disparate platforms that were involved in the particular
16 technical choices that had to be made just weren't going to
17 be satisfactory to all these -- the people who got together.

18 In the case of AppWare, I don't know that any
19 applications were ever written to that. It was something
20 that I think Novell bought, but I don't know why they bought
21 it because they never -- they never convinced people to
22 write applications for it.

23 Q Are you familiar with a product called PerfectOffice?

24 A Yes.

25 Q What was PerfectOffice?

1 A Well, sometimes WordPerfect, when they put together
2 their horizontal productivity applications in a group, that
3 was the marketing term they used.

4 Q At any time did you ever regard PerfectOffice as a
5 middleware threat to Windows under this three-part
6 definition?

7 A No.

8 Q Why not?

9 A Well, it didn't meet any of the three criteria. It
10 didn't expose enough APIs to allow ISVs to write a
11 productivity application. Nobody would seriously
12 contemplate doing that with PerfectOffice.

13 Q Why? Why wouldn't they contemplate doing that?

14 A Because --

15 MR. JOHNSON: Your Honor, Mr. Gates may be an
16 industry expert, but he's not qualified as a technical
17 expert.

18 THE COURT: Just rephrase the question.

19 BY MR. HOLLEY:

20 Q Mr. Gates, based on your experience in competing with
21 WordPerfect in the suite business, did you ever view
22 PerfectOffice as a competitor to Windows?

23 A No.

24 Q Why not?

25 A Because it didn't offer -- it's hard to keep a straight

1 face. It didn't offer a set of APIs and applications that
2 anybody would ever say to themselves, hum, should I buy
3 Windows or should I buy PerfectOffice. That never would
4 come up.

5 MR. HOLLEY: Your Honor, I'm about to change
6 topics.

7 THE COURT: If this is a good time. I'm ready as
8 soon as everybody is. About ten minutes.

9 MR. HOLLEY: Thank you, Your Honor.

10 (Jury excused)

11 (Recess)

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