
Mouse Manufacturer: Mouse Systems
Required driver version: 7.01 or newer
Contact Phone number: (415) 656-1117
BBS Number (415) 683-0617

This information applies to Microsoft MS-DOS version 5.0.

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* MSINTERNAL:
* craigg
.END:

34
From c-anton Tue Jul 30 10:10:12 1991
To: bradsi
Date: Tue Jul 30 10:09:31 1991

Your account is credited..

I'll be interesting to watch this war...

You'll get to ride those cranks when you come down.
It's a fast bike.

Later...
A

35
From robho Tue Jul 30 10:23:59 1991
To: alexn bohnu davidma jindu pamelaf ruthw sergiop tonylau
Cc: adamt andersk bernardv billspe bobkr bobo bradc bradsi bridgetc
cameronm carls celesteb chriskel darbyw davidt donnag dougho
dwaynew dwightk garyqi.garyvot glennt gregs jeffr jefft jodys jonro
kathrynh larryed lisawe markcl mattira mikede nikemur mikeols
nancyla paulma peterhey pradeeps richab richardh richb richbr richf
richt rickthom robg ruthannl stevek stevesh sunirk tomja tomsh
waynef
Subject: Fin. Analysts meeting, part 2 of 2
Date: Tue Jul 30 10:21:37 1991

MS 1991 FINANCIAL ANALYSTS MEETING PART 2 of 2
JULY 25, 1991, 1:30 - 6:30pm
Cascade Room, Corp Campus

THIS EMAIL SUMMARIZES THE MAPLES, BALLMER, AND GATES PRESENTATIONS.

PART 1 OF 2 COVERED GAUDENTE, HALLMAN, AND OKI PRESENTATIONS.

Addendum to part 1 of 2 (Oki presentation):
I should have mentioned that many analysts were surprised at Oki's announcement that Egghead was selling DOS 5 at about \$10 below their cost. It caused some skepticism of Oki's assertion that MS products were the most profitable for resellers.

PLEASE FORWARD ANY COMMENTS YOU HAVE ABOUT THIS REPORT TO ROBHO.

Rob Horwitz
OEM Marketing

===== QUICK SUMMARIES =====

Mike Maples Mike's presentation, an overview of
Apps Strategy our apps business, came across
exceptionally well. No real surprises.
Mentioned that the apps division won't

Plaintiff's Exhibit

5330

Comes V. Microsoft

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be working on anymore OS/2 app versions since IBM has said that Windows apps will run on OS/2 2.0. His points about the factors which will distinguish applications vendors in the 1990s was especially interesting.

Steve Ballmer
Systems Strategy

There were a lot of "new" things in Ballmer's speech like the concept of three modes in Windows (standard, enhanced, and "NT mode"), the announcement that OS/2 will be in the IM 2.1 box, and a much harder public stance vis a vis IBM ("IBM strategy is hard for me to fathom. Our customers can't figure it out either."). Showed a demo where an OS/2 app crashes OS/2 2.0. I'D STRONGLY RECOMMEND REVIEWING SECTION outlined in detail below.

Bill Gates
Challenges and
opportunities

Began w/ a discussion of overall PC market trends & our Windows strategy. Of particular interest to the analysts was the idea of putting Windows functionality into non-PC devices such as copy machines, faxes, phones, etc. Bill's sense of humor was well received. For example, he demo Win Word running under Windows for Pen and the document he edited was the controversial memo that recently leaked to the press. He also spoke about the competition (IBM, Apple, etc.), and our long term IAYF mission.

= Mike Maples: Applications Strategy =

- Progress vs. July 1989 Analyst Presentation
 - 1989: identified 25 product categories, had products in 9 of them. Over 1/2 products we had were for the Mac. Today we have products in over 20 out of the 25.
 - We've taken OS/2 apps off the chart (of categories). IBM has said that OS/2 2.0 will run Windows apps, so there is no need for me to spread my R&D thin
- Key issues in the apps division
 - Retain small company spirit
 - Efficient development
 - Professional growth
- Research areas
 - Traveling hardware, home, etc.
- Plans for FY'92
 - Pen, multimedia, home products
- Workgroup apps
 - Definition: Products that allow users and groups to access and share info across a network
 - Messaging will be key enabling technology
 - We will depend on systems software for certain services
 - We will support standards such as X.400 and X.500
 - We'll support a broad set of client & network platforms
- FY'91 recap
 - Shipped MS Mail vs. 3.0 for Appletalk nets
 - Consumers Software acquisition
 - Was the best product and architecture out there
 - Didn't lose any people in the transition
 - Schedule+ for Appletalk Networks
- Application product "family traits"
 - Powerful things made easy — if user doesn't know how to do something, user should just try what makes sense and it should work
 - Integration, consistency — apps which work well together. By end of year virtually all our Win apps will support OLE.
- Application development tools in the 1990s
 - Spectrum of products for novice users to professional programmers
 - Today: Macros and scripts in apps, Visual Basic, C++
 - Future: Object oriented control language, application framework
- Major awards. Number of 1st place awards in past 6 mo:
 - MS Excel: 5

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- Word: 5
- PowerPoint: 4
- Project: 8

What will distinguish app vendors in the 1990s?

- Vision
 - Application architecture moving from stand alone productivity apps, to data-centric tools
 - Taking advantage of new technologies: Pen, MM, object oriented technologies
 - IAYF
- Leadership.
 - You heard the following here first:
 - GUI is future
 - Inter-app communication (we invented DDE)
 - Objects, OLE
 - Computer Based Training, on-line help
 - Consistency, integration
 - Customer focus
 - We have a usability lab where we conduct tests every day.
 - Making it easier to do the common things is one of our greatest competitive advantages
 - Data access: we are on SQL Access committee, working on joint spec

Execution

- Great people investment
- Superior products which work together
- Strong financial performance
- Sound organization concept

QUESTIONS (paraphrased)

- Q) What are the trends in MS's Mac and DOS apps sales?
- A) In Q4, Mac sales were strong, better than we expected. Not as good a trend in Q3 as Mac hardware sales would indicate. The SPA reported that Mac SW sales had 13-15% unit-growth while Apple reported that machines had a 80% unit growth. Our software sales grew at a rate higher than the software average, but not significantly higher. As far as DOS apps are concerned, Word, our most significant DOS app, is holding its own.
- Q) We are the number of share points you are willing to loose before lower prices?
- A) I don't have a formula. My observation is that the cost of learning & using the product is greater than the "selling" price and is thus a larger factor in a business purchase decision. Also, with each version of our products we are adding more and more value. I don't expect price war.
- Q) What was the Mac / Win revenue split?
- A) The trend: our Mac sales (year to year) grew at only about a third of the division averages. Our Win product growth rate was significantly more than the division averages. Thus, the % of our business generated by Mac app sales is declining.

= Systems Strategy: Steve Ballmer =

FY'91 Recap

- Last Year's Accomplishments
 - MS-DOS 5: retail upgrade intro, standard for new PCs
 - Windows 3.0 sales (4 million +), Q4 sales > Q3
 - IM and SQL Server sales and infrastructure ramp-up
 - New and additional talent focused on Windows
 - BallPoint mouse introduction
 - OLE introduced for Windows
- Organizational changes
 - Brad Silverberg: DOS / Windows group
 - Jim Alchin: Advanced Windows services group
- The world has changed from a year ago, didn't anticipate

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- IM / LS convergence stuck in "geopolitical muck"
- IBM / Novell distribution agreement
- DOS 5
 - 70M installed base, 18+M annual run rate
 - 1M DOS 5 upgrades shipped in the first 30 days
 - "No idea how to forecast sales" - hard to predict
 - 100% compatible with DOS, more mem. for DOS apps
 - Future releases in development - "healthy life for DOS going forward"

Windows Overview

- Market Perspective (source: SPA, IDC)
 - Win 3.0 installed base: 4.0M, annual run rate: 7.8M
 - MS-DOS installed base: 70.0M, annual run rate: 18.0M
 - Mac installed base: 5.0M, annual run rate: 1.1M
 - PC UNIX installed base: 1.8M, annual run rate: .9M
 - OS/2 installed base: .6M, annual run rate: .7M
- Windows
 - Our run rate est. "not radically different" from above #
 - In May, Win app business was about 40% size of DOS app business (source: SPA), Win apps mkt 2x > Mac market
- Windows customer feedback highlights
 - High level of satisfaction, increases the longer one uses Windows
 - Greatest benefit: ease of use, 2nd: multitasking
 - Top support questions: setup, networking, printing
 - UAEs represent < 2% of support calls

Windows Product Plans

- Windows 3.1
 - Usability, performance, robustness improvements
 - TrueType, Win 3.0 compatibility
 - DEMO: showed new file manager (drag and drop), launched Write with test doc. Showed TrueType font, used pen to edit doc, gave two examples of OLE: (1) Write and Paint working together and (2) Write and MM extensions (clicked on microphone graphic within document which caused trumpet to play).
- Windows: Scalable Architecture
 - OS with single user interface & single programming model
 - Concept of three modes in Windows (standard, enhanced, and "NT mode").
 - Real mode: goes away soon - not very interesting
 - Enhanced mode: gets pre-emption in future release
 - NT mode: a mode of operation which is even higher end
- NT Mode
 - Is self contained OS (not run from DOS)
 - C+ security, multiprocessing, fault tolerant
 - Packaging: NT mode probably in separate package
 - DEMO: showed how file manager looks just like Win 3.1, showed multiple apps running @ same time (DOS box copying files in background, rotating graphics object, multimedia). Demo crashed first time around and had to be repeated.
- Time line
 - Windows 3.1: 1991
 - Windows NT: 1992
 - Windows 3.x: 1992
 - IM for Windows NT: 1992
 - Win. Advanced Services 1993
- Windows Hardware Support
 - Win 3.1 standard and enhanced modes: intended for notebook, home, desktops
 - Windows NT mode intended for workstations, RISC, servers
 - Pen & MM extensions work on both Win 3.1 and NT kernel
- Advanced Windows Services
 - OLE 2.0 under development
 - Client/server app services like directory, RPC, to come

Server Software

- IM 2.1
 - Brief feature highlights: usability & performance improvements, Netware connectivity, add ins (TCP/IP, Mac support, dial-in)
 - IM 2.1 BOX WILL CONTAIN OS/2
- SQL Server and Comm Server updates continue
- Future support in all products for Windows NT

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People Investment

- 1200 people working on Windows versions, development tools, networking technology

Windows Marketing

- \$31M advertising and marketing
 - Amazing response to Windows Tech workshops
 - 100K tech resource kits shipped
 - >200K will attend Win conferences and tradehows in '91
- \$34M for product support -> (1) we are serious about customer, (2) we have to refine product
- Increased focus on developer support

IBM and OS/2 2.0

- Microsoft and IBM
 - 12 mo. ago we working together on a coherent strategy
 - Today our strategies are "different"
 - IBM OS announcements - incompat. with OS/2 "commitment"
 - "IBM strategy is hard for me to fathom. Our customers can't figure it out either."
- Why would someone buy OS/2 2.0 over Windows?
 - Unique apps? No.
 - As MS-DOS clone? Not compelling reason
 - As Windows clone? Tough to answer. IBM's latest OS/2 2.0 beta can only run Win apps in real mode.
 - Robustness? Not a lot more robust than Windows. DEMOED an OS/2 app ("Terminator") running under OS/2 2.0 which corrupts other apps and eventually brings down the system
 - Breadth / quality of hardware support? Prob not.
- ISVs already sold on Windows
- Some corps and OEMs have made signif. OS/2 investments
 - MS is licensing OS/2 2.0 to OEMs
 - We are building OS/2 and PM (1.x & 2.0) subsystem for Windows NT — aids migration to Windows NT
 - "Won't be available 1st day Win NT is available"

MS Strategy - "Windows, Windows, Windows"

- Evolutionary — no discontinuity
- Scalable — standard, enhanced, and NT modes
- Driven by IAYF vision
- "Open" in the PC tradition
- MS long term commitment

QUESTIONS (paraphrased)

- Q) Other than eliminating PM APIs, is there anything different about NT Windows compared to the OS/2 3.0 you talked about in January?
- A) No, we haven't had to change our tech. strategy
- Q) Could you comment about expenditures?
- A) PSS way up, marketing and advert. growing at similar rate as sales
- Q) Does Windows NT support OS/2 apps or not?
- A) Win NT doesn't. We will provide subsystem to allow OS/2 apps to run on NT. Will not be packaged together. "OS/2 3.0" stays around until the day IBM would like to work together with us.

Challenges and Opportunities: Bill Gates

PC market overview

- PC sales 1981-91. Decade total is over 120M
- PC hardware market over past 4 years
 - US/Intl sales ratio. 1987: 55%/45%, 1991: 37%/63%
 - Top vendors have not maintained market share (top 10 OEMs had 60% of market in 1987 and 48% in 1991)
 - Significant changes in the top 20 worldwide OEM list
- PC market in 1991
 - Emphasis on low cost manuf and distribution

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- Erosion of name-brand price premium, dramatic increase in # of companies willing to buy from 2nd tier vendors.
- Little product differentiation -> will see signif HW innovations by PC leaders, by necessity
- IBM no longer setting PC standard - now 19% of WW market
- Customers
 - They've "won". "The latest software and microprocessor technology has never improved so quickly or flowed so efficiently to the user."
- Intel Processors
 - Intel bringing prices down very fast -- faster than the market had anticipated
 - Intel is aggressively pushing the tech. forward -- 486 will go to 66MHz and beyond.
 - High volumes and increased competition (AMD) is incentive for Intel to keep pushing ahead.
 - We will support other architectures like MIPS but these only become of significant interest if/when they have >2x performance (since would have to move app binaries to the new architecture)

Windows Strategy

- Opportunities for Innovation (OEMs)
 - PC styling, sound (multimedia), built in networking, portables / pen-based systems, graphics speed and resolution, multiprocessor (more of a server issue)
- Windows: a scalable architecture
 - One architecture, multiple implementations to handle notebook, pen, home, multimedia, RISC, and server.
 - Windows for DOS: smaller, simpler, Intel-optimized, ROMable
 - Windows for NT: security, multiproc, RISC
 - Advantages: common API (applications compatibility), common user interface
 - Same idea as IBM's and DEC's approaches with the 360 and VAX hardware lines -- now is first time concept is being done with operating system software
- GUI Apps sales
 - All of the top 10 ISVs will be shipping Win apps this yr
 - Visual Basic allows casual users to write apps
- Application innovation - listed a bunch of interesting recently introduced Windows apps
- Objects: OLE
 - OLE allows apps to work with data, the format of which is completely unknown. Allows functionality to be added to existing applications.
 - There is more "techno-babble" about objects than all other subjects put together.
 - Continue to enhance OLE -- working on OLE vs. 2.0
 - We will use OLE more and more in our own applications
- Windows for Pen
 - Direct manipulation, gestures, handwritten input
 - Runs all existing Windows applications
 - Supports "pen centric" apps
 - Over 30 hardware manuf. signed up for Windows for Pen
 - DEMOED:
 - Various parts of the notebook applet including the drawing capabilities. Bill used it to draw a diagram of the recent alliances in the industry, with a quip about how the diagram looked awfully confusing.
 - A pen centric app developed by Slate corp (house insulation / heating cost form / report generator
 - A speeding ticket form for police to use on a portable computer which eliminates the need for paper
 - Using the pen in Excel (on a spreadsheet with MS financial data)
 - Using the pen in Win Word. The document he demsed on was the controversial executive memo that got into the hands of the press.
 - Handwriting recognizer and how it is trained
- Multimedia:
 - Integration of sound, image, animation, and information
 - Two groups within MS: apps and systems software
 - Expect somewhat slow take off
 - 30-50 new multimedia titles and apps by end of yr.
 - Spoke about "content acquisition" (and the 26% interest we recently acquired in a British publisher - gives us writes to exploit their material in electronic form)

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Competition from a number of areas

- Apple/IBM: "Smushing together of Pink and Patriot Partner"
 - Expect that their stuff is 2-3 years away
 - We expect to deliver in advance of them WITH COMPATIBILITY WITH EXISTING (TODAY'S) SYSTEMS
- Apple: how design and develop software for Sys 7, Pink, and handwriting system is totally different
- MIS message - IBM's "trust us" message is a challenge
 - MS's ability to communicate with all the other constituencies is extremely good. In the area of communicating with MIS, we must get better.
- Consumer products
 - Such products will have PC type functionality internally and will require an OS. Gave example of HDTV and "downloading" video game.
 - Microsoft investing early, will try to play a role

IAYF

- MS direction for 1990s
- Will articulate each year with more and more examples
- Is about making it easy for people to get at info of all types
- We demo our internal IAYF tools to visiting corp customers
- Vision requires distributed, object oriented systems, & significant changes in file system and shell
- Interesting to think of how this will effect other equipment you work with in the office and who MS should be working with beyond PC suppliers to make IAYF a reality
- Interesting to integrate a number of non PC devices with a PC or to build Windows functionality into the devices themselves
 - Phone: Use Windows app on PC as front-end to phone
 - FAX: Would want type of security and font capability we are building into Windows
 - Whiteboard: Replacement for traditional display
 - Copier: Is really a digital scanner + digital printer
 - Pocket organizers, size of checkbook or calculator
 - Consumer devices: cameras, games, TVs, VCRs

R & D Investments for the Future

- Still on track
- New twist is "Microsoft Research" group, doing true research in areas with may or may not result in shippable products
 - Will be recruiting person to run group over next few months
 - Will be about 50 people in group for starters
 - Research areas: linguistics, automated programming, automated testing, advanced graphics, etc.

SUMMARY

- MICROSOFT SYSTEMS STRATEGY IS WINDOWS
- Leveraging success of Win into new areas of opportunity

QUESTIONS (paraphrased)

- Q) You've talked about integrating networking with Windows, what does this mean?
- A) We've been intentionally vague. Over the past 6 mo. we have figured out what we need — exactly how we roll this out in a way which accommodates low, mid, and high ends of the market is part of our competitive strategy. We architect the latest version of the OS w/ all its networking functionality. As we ship it, we may adapt parts of it in different ways. The goal is to get number of networking facilities (advanced directory facility, email, file system replication, etc.) designed into the OS. Novall and Microsoft basically agree that desktop & server OSs largely converging — it will be interesting to see what each of us do in this area.
- Q) As a result of your divergence w/ IBM, a lot of customers feel like they are loosing in terms of their compatibility as well as ability to make good choices about the future. How would you respond to that?
- A) I'd asked them if they bought OS/2. Not many did so

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there can't be too many people who say that. OS/2 wasn't leading to products that sold in high volumes. As Windows got more popular, did it make sense to have two different approaches? There is no company that has worked harder and sacrificed more [than Microsoft] in order to have a unified message with IBM. Having two approaches was inefficient and ineffective and we had to bring clarity to this issue. If we could be executing this strategy and have IBM involved with it, that would be great. That invitation is open every day. But, we seem to be going in different directions today.

- Q) Your vision for the future suggests a huge acceleration in PC hardware sales. At what point do you see this happening - 1992 / 1993 or beyond?
- A) Can't tell you when - I'm not the best market prognosticator. With time, the definition of what a PC is will get much broader. Most impact probably further out than 1992/93.

36
From sharonh Tue Jul 30 10:49:17 1991
To: dwgroup
Subject: *!* July Birthday Party *!*
Date: Tue Jul 30 10:46:14 PDT 1991

..will be tomorrow, July 31st, at 4:00 in the lobby or outside in front of our building if the sun is out.

Please come and celebrate with us in toasting and singing at the top of lungs to our Cancerians and Leos.

- * Tom Anderson *
- * Eric Arneson *
- * T-Jeffbo *
- * Lisa Cram *
- * Fred Dewitt *
- * Ian Ellison-Taylor *
- * Chris Guzak *
- * Paul Kennedy *
- * Laura Knapp *
- * Paula McElroy *
- * Donn Morse *
- * Sankar Ramasubramanian *
- * Dorothy Shattuck *
- * Mark Simonton *
- * Ken Sykes *
- * Rich Tong *
- * Hai Vu *

Hope to see you all there ... and please let me know if there's anyone else that didn't make the list for this month ... thanks ...

37
From mikedr Tue Jul 30 10:59:08 1991
To: bradsi
Subject: review results
Date: Tue Jul 30 10:58:43 1991

When will I be seeing the financial results of the last review for my group? Is this something that fell through the cracks when Adrian left?

38
From o-anton Tue Jul 30 11:04:55 1991
To: bradsi
Date: Tue Jul 30 11:04:43 1991

Seems to me that WinNT has everything in it that OS/2 was supposed to have. Are you responsible for it also? Or is Maritz still doing system stuff?

39
From chriswo Tue Jul 30 11:10:40 1991

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