

From: Dave Derry  
Sent: Friday, July 09, 1999 11:09 AM  
To: Stephanie Boesch (Exchange); Bill Henningsgaard; Keith Eide  
cc: Matt Pease; Bill Wood; S. Somasegar (Exchange); Ramesh Parameswaran (Exchange); Gregory Jensenworth (Exchange); Michael Murphy (Premier); MikePorter (Exchange)  
Subject: RE: URGENT FW: Intel/Microsoft; Marketing

Just to close the loop, do we not need to respond to the real from Steve?

---Original Message---

From: Stephanie Boesch (Exchange)  
Sent: Wednesday, July 07, 1999 3:30 PM  
To: Bill Henningsgaard; Dave Derry; Keit Eide  
cc: Matt Pease; Bill Wood; S. Somasegar (Exchange); Ramesh parameswaran (Exchange); Gregory Jensenworth (Exchange); Michael Murphy (Premier); MikePorter (Exchange)  
Subject: RE: URGENT FW: Intel/Microsoft; Marketing

unfortunate that MikePo was left off this thread ..... he has already reported back to SteveB on the project status from the development team's perspective. I suggest we not followup with additional email from the field.

I agree little progress has been made over the last three weeks. This has primarily been due to Intel's change in command. Intel is creating a new team of engineers including new management to drive this project moving forward. In addition, we have made similar changes by adding dedicated PM resources to the effort and moving the management to RameshP. We are slowly coming out of the investigation phase and now looking at solutions. This has caused a delay in getting the ball rolling from both sides.

We have commitment to make this effort work, but the question will be on what project. And in what time frame. We don't have enough information yet to make these estimates.

We also need to realize that all efforts are now on Windows 2000 which will probably surface "new" issues as well.

---Original Message---

From: Bill Henningsgaard;  
Sent: Wednesday, July 07, 1999 12:31 PM  
To: Stephanie Boesch (Exchange); Dave Derry; Keit Eide  
CC: Matt Pease; Bill Wood; S. Somasegar (Exchange); Ramesh parameswaran (Exchange); Gregory Jensenworth (Exchange); Michael Murphy (Premier); MikePorter (Exchange)  
Subject: RE: URGENT FW: Intel/Microsoft; Marketing

let's be very honest about our current status on this. my read is that Intel is committing to providing everything we need to deliver their requirements, whether we are on a track to do this is much more questionable.

their requirements are very demanding - a robust and stable computing platform that will run their chip

design and test scenarios AND support an interoperable environment to allow them to coexist their current UNIX-based environment with a future NT-based environment during an extended migration, in their minds this means that NT needs to support most/all of the functionality that UNIX supports today, including running their test scripts, etc. based on their current understanding after 3 years of trying to do this, NT cannot deliver on these requirements and we have no plans in place that will change this Linux delivers this with little effort to even so, an executive view, Intel is very committed to helping us make NT the platform they need.

our current status is that we've committed development resources to this effort and are trying to understand in detail what their environment looks like. i question whether we've made significant progress in the last 3 weeks. I refer to gum's phone call about his perception of lack of progress which I share.

there is a phone call today (it's the 8th here) that will summarize progress and identify issues - that will either confirm or refute whether we've really moved the ball forward.

in summary, the ball is completely in our court. we've got excellent support from intel in allowing us to try to make N'F the platform they need, but honestly I think their management team believes we are NOT on track to do this. if we don't make very tangible progress that changes this perception AND if we don't deliver a timeline that allows them start using NT per the requirements above in a reasonably short (6 month) timeframe, I think they will force us to admit we can't deliver and they will move to linux.

keith - i can't be on the call on the 8th, so i need you to forcefully and honestly communicate whether we've made tangible progress, we need to escalate to steve if we're not on a track to win after that call.

---Original Message---

From: Stephanie Boesch (Exchange)  
Sent: Wednesday, July 07, 1999 11:58 AM  
To: Dave Derry; Keit Eide; Bill Henningsgaard;  
cc: Matt Pease; Bill Wood; S. Somasegar (Exchange);Ramesh parameswaran (Exchange);Gregory Jensenworth (Exchange); Michael Murphy (Premier);  
Subject: RE: URGENT FW: Intel/Microsoft; Marketing

Keith, I'm on the read today heading to Dallas. I'll send you our feedback this evening for you to incorporate.

---Original Message---

From: Dave Derry  
Sent: Wednesday, July 07, 1999 11:58 AM  
To: Keit Eide; Bill Henningsgaard;Stephanie Boesch  
cc: Matt Pease; Bill Wood; S. Somasegar (Exchange);Ramesh parameswaran (Exchange);Gregory Jensenworth (Exchange); Michael Murphy (Premier);  
Subject: RE: URGENT FW: Intel/Microsoft; Marketing

We met with Alber Yu, VP Microprocessor group, on June 17th, he too reiterated Intel's commitment to move their EDA/applications/tools to windows 2000 we have SWAT team including developers

working closely with Tntel with this migration. I don't believe linux is a further threat going forward going though, they did thru necessity move a tool to linux.

Stephanie can you add further updates as to progress we have made and your take on Linux making further inroads.

---Original Message---

From: Dave Derry  
Sent: Wednesday, July 07, 1999 11:27 AM  
To: Keit Eide; Bill Henningsgaard;Stephanie Boesch;Matt Pease;  
Subject: RE: URGENT FW: Intel/Microsoft; Marketting

Keith - with BillWo out of town and BillHE in Australia, can you provide SteveB an update on this? I am happy to review prior to you sending.

Thanks

---Original Message---

From: Steve Ballmar  
sent: Wednesday, July 07, 1999 10:48 AM  
To: Bill Gates; Bob Herbold; Shannon Perdue  
Cc: Mike porter(Exchange);Marshall Brumer(Exchange);Charles Stevens;Dave Derry;  
Subject:Subject: RE: URGENT FW: Intel/Microsoft; Marketting

Charles stevens and dave derry please advise.

----Original Message--

From: Bill Gates  
Sant: Tuesday, July 06, 1999 10:33 AM  
To: Steve Ballmer, Bob Herbold; Shannon Perdue  
Co: Mike Porter (Exchange); Marshall Brumer (Exchange)  
Subject: RE: Intel/Microsoft Marketing

At the workstation leadership forum they reiterated their commitment to move all their stuff to Windows 2000.

I asked our people many times if there is any backsliding on their not using Linux for this.

If this has changed I wasn't informed. I knew I would get a chance to talk to Barrett and the question I asked was whether I needed to bring this up or not.

If we are not in good shape on this I need to know.

----Original Message--

**From:** Steve Ballmer  
Sent: Tuesday, July 06, 1999 9:48 AM  
To: Bob Herbold; Shannon Perdue  
Cc: Mike Poder (Exchange); Marshall Brumer (Exchange); Bill Gates  
Subject: RE: Intel/Microsoft Marketing

**We cannot let intel do chip design on Linux ever what do we need to do to change the decision who do we need to call we will put whatever skin to the game they need.**

---Original Message---

From: Bob Herbold

Sent: Monday, July 05, 1999 8:58 AM

To: Shannon Perdue

Cc: Mike Porter (Exchange); Marshall Brumer (Exchange); Bill Gates; Steve Ballmer

Subject: Intel/Microsoft Marketing

We had the marketing coordination conference call last week, and Jami Dover and her people feel very good about the relationship with the Microsoft marketing folks at this point in time. She and Dennis Carter (who is working 2 days a week at this time, phasing into retirement) can't remember when things have been so active and so clearcut with Microsoft. Jami's assessment with things was very similar to yours, Shannon. By the way, she was very high on the Office 2000 event. Naturally, they were also very pleased with the Workstation Leadership Forum featuring Bill and Craig, which generated a lot of positive PR. They didn't have any issues to bring up.

Mike, we didn't get into a lot of the specifics of the hardware issues, but she did say that the Win64/IA-64 work seems to be moving along fine. I did stress that we need early, stable hardware ASAP. She did cite that they were pleased that we have finally reached a NDA that allows us to work security issues together; a big step forward.

---Original Message---

From: shannon perdue

Sent: Tuesday, June 29, 1999 6:58 PM

To: Bob Herbold

Cc: Mike Porter (Exchange); Marshall Brumer (Exchange)

Subject: RE: Intel

On the OS marketing front things are straightforward & busy.

### **What's going well**

#### **Windows 2000 Launch & Partner Participation**

Intel wants to play a key role in the Windows 2000 launch. We agree on this point and are in the planning process to define what this means.

#### **OS Strategy & Product Information**

We continue to share information regularly via bi-weekly conference calls. Includes strategy and specifics such as product milestones and delivery dates; key product features and directions. We have mutually acceptable joint messaging for upcoming technologies such as Geyserville (Intel's next generation mobile tech; basic but important that our OEMs understand our collaboration) for both MS and Intel field forces. Other items coming up include performance testing & subsequent messaging. We've also had success in putting out PR fires and obtaining positive press coverage around the Pentium III and MS OS/apps.

Intel is sponsoring a Pentium III evaluation program in conjunction with the Windows 2000 RDP conference coming up July 6-8. Intel will participate in the conference to kick off this program and participate as a sponsor.

Please let me know if you have any questions

Shannon Perdue

Product Manager, Windows 2000 Client Marketing

Business Enterprise Division

Microsoft Corporation

425.936 9934

---Original Message---

From: Mike Porter(Exchange)

Sent: Tuesday, June 29, 1999 12:25 PM

To: Bob Herbold;shannon perdue; Marshall Brumer (Exchange)

Subject:RE: Intel

Bob,

I am the owner of the Intel relationship, in conjunction with Marshall, who is on sabbatical. I have putted this broad overview together rather quickly. It would be worth our time to ask about the "New Business Group" at Intel (on the org chart I've included) and see what their plans are there. In general, the consumer space is going well, but there are a few road bumps in Miner's Server org. Intel's predilection for Linux and their NGIO efforts (which are failing) have been a long, slow burning set of frustrations for us. We do however seem to be making positive progress on all fronts of the relationship, If there are any specifics or drill down you'd Like, please Let me know.

Mike Porter

### **Processor/platform/MS operating system/tools releases**

IA-64/Win64 The Win64 effort has made some pretty fantastic progress. Particularly since this was all done while trying to ship Win2K, It's an impressive effort. Steve Ballmer did the first public 64bit demo as part of his WinHFC '99 keynote. The messages for Win64 are simple and clear:

### **Support Alpha & Merced**

Single source code for 64-bit and 32-bit version of Windows 2000

Huge virtual memory support

SQL64

This is REAL

It should be noted that the Merced demo was done on a simulator, and we worked hard to ensure that a software emulated version of Merced looked decent next to Alpha systems. We've come a Long way. Below shows Win64 achievements for the past 16 months. We have done this with very Limited resources and during with Win2K, IE5, and other key deliverables.

10/97, started the project, designed, prototyped, talked to customers

12/97, Microsoft Internal presentation

01/98, Design Preview with 170. external developers. Released the first Win64 "SDK".

03/98, Kernel boot

04/98, WinHEC, Released the first Win64 "SDK" and second Win64 "SDK"  
08/98, HT Beta 2 release. Delivered COM/OLE,MFC, NOTEPAD.EXE, CMD.EXE,  
CALC.EXE,SQL.EXE  
10/98, Delivered networking, sandbox, Limited WOW64  
11/98, SQL64 is Limping along  
4/7/99, First Win64 public demo, WinHEC99

Only feedback from Intel to you that I anticipate here is that our schedules are currently mis-aligned by 2-3 months (Intel being earlier with their ship dates than our OS dates). We believe that Intel will hit some delays and are being overly optimistic about what they can achieve by when. We, believe and have repeatedly stated that we can deliver the OS 12 months after receiving a Large volume of systems sufficient to self-host our Win64 focused developers on. At present, Intel would Like us to make that 9 months, while the NT group has been very dear that we need 12.

**Key message, to Intel: get us early, state hardware ASAP.**

Consumer Space (Appliance Devices/Internet PC/Other alternatives) Intel sees Microsoft doing (or at least talking) more in this space on Low-end, "non PC" devices. Intel is very interested in making sure that we keep the PC #1 on the net. They are concerned about where we are heading in the low-end space, and fear that WinCE and non-X86 processors might play a larger role here for Microsoft than they'd like. Intel now considers it Important to be seen as a Leader in the "appliance" space as they see a threat if they aren't dear Leaders in this space. They believe StrongARM has a rote to play in very Low-end "fixed-function" devices, but not in any space that could threaten the PC. intel sees three areas that need to be addressed to create x86-based "appliances":

Develop appropriate OS feature subsets and UI (that don't: undermine the main PC role) Eliminate "clunkiness" [David Cote's "It Just Works" message] (Boot Time, "Known Good" boot images, etc)

**Lower OS Royalties**

The lower OS royalties is a message I'd expect Andy to drive hard as it's the one area he doesn't feel he's made any progress on with Microsoft. We both seem to agree that there are different potential devices in this space: an Internet terminal, a gaming console with web connectivity, a DVD, DVCR console with web access, etc). We seem to disagree on the relative priority of these devices. We sees the "game system" (PlayStation 2) as a threat growing upward Into the PC space. Inter is presently focused on "Portal PCs" mainly because that's what they think OF.Ms want. You sent: a great piece of email about the Playstation threat and the need for killer graphics. This meeting would be a great opportunity to make that case to Intel, as they don't Bet it yet.

Intel is looking for ways to engage Microsoft in these devices. David Cole and Pat Gelsinger have been working together, and we have set up a "Concept Platform Project" announced at WinHEC by Ballmer and Gelsinger (GeorgeM is leading this under DavidCol). Our first "kick-off" meeting tomorrow, we will cover fast-boot enhancements and legacy hardware reduction In the short term of the we plan to do together, with more to be investigated in this meeting.

We have given Intel the Feedback that there are several areas here that Intel is deficient in to competing in this space:

Integrated CPU/Graphics/Chipset solution (Timna) is a very poor solution for the graphics component. Enabling high-value digital content won't be possible without solving content protection issues (See Security section below)

Intel's primary feedback to us has been:  
We don't have a "low-cost" OS solution

Fear of cannibalizing PC sales

Investigating ways to Improve 3D performance into their low-end CPUs

Intel decision to deploy Linux for EDA (chip design )

Intel plans to deploy Linux to run their internal EDA (chip design) applications, due largely to NT stability issues. Andy, Craig, and Albert have all committed to maintain their long-term strategy on NT, and work closely with us on messaging for Workstation Leadership Forum. Intel has been trying to move it's internal chip design applications from AIX to NT for -3 years. There are two key apps; desktop (interactive design tools) and server (C-Sym, a batch processing app). The server application has been ported, but Intel cannot get close to the 99% availability target required for production use - they claim -96%. They have frequent system hangs and "blue screens". We offered support thru local MCS, but Intel (Albert Yu) rejected our bid. They wanted more MS skin in the game. Albert and Louis Burns (VP IS) share the decision. Because of project deadlines, and their desire to design on Intel-based systems, Intel did a quick port of C-Sym to Linux. The Linux version is 'more robust than the AIX version'. Stephanie Boesh has put together a SWAT team and she has been working to pull multiple group together within Microsoft to improve this relationship and get the project back on track. Last week, we re-secured Albert Yu's commitment to make this work.

## **Networking**

In general, networking has become something Intel is quite serious about. Apparently they've made over 15 investments in this space last year, and are approaching \$1.5 billion in sales here. The primary concerns that Intel is expressing in the networking space are

Networking business is strategically important to Intel

Intel has a perception that Microsoft is favoring one IHV (3com)

Desire to grow NCG-MS strategic relationship

Jim Allchin heard a part of this message, quite by surprise, during a security update conference call several weeks ago. Since then, Jawad and his team have engaged Intel heavily, and we've had several meetings. We are investigating ways to work together. Intel has particularly been interested in Microsoft's participation in Open Networking, and we are investigating that now.

## **Security**

While we have both invested a ton of energy here, and have made some very real progress. We have finally reached agreement on an NDA that allows Microsoft and Intel to work together in the security space. There have been numerous technical meetings and we are investigating to bottom out on a digital content security architecture that could be assisted in hardware for very advanced levels of security.

Most Recent Org Chart for Key Intel Executive contact at Intel

These people are all members of Intel's executive staff.

(ESM) Executive Office = Andy Grove, Craig Barrett, Gordon Moore

Intel's Architecture Business Group = Paul Otellini

Pat Getsinger - Desktop Products Group

John Miner - Enterprise Server Group

Bob Jecman - Mobile and Handheld Products Group

Home Products Group - Claude Leglise

Reseller Products Group - Jim Yasso

Platform Launch Operation - Jana Greer (Acting)

New Business Group - Gerry Parker  
Craig Kinnie - Intel Architecture Labs  
Ron Whittier - Content Group  
Mike Aymar - Internet Services  
Computer Enhancement Group - Ron Smith  
Microprocessor Products Group - Albert Yu  
Network Communications Group - Mark Christensen  
Sales and Marketing - Jami Dover (Marketing) Sean Maloney (Sales)  
Strategic Marketing - Dennis Carter  
Information Technology - Louis Burns  
Corporate Business Development - Steve Nachtsheim/Les Vadasz  
Legal - Tom Dunlap

---Original Message---

From: Shannon perdue  
Sent: Tuesday, June 29, 1999 12:04 PM  
To: Bob Herbold; Marshall Brumer (Exchange); Mike Porter(Exchange)  
Subject: RE: Intel

Yes although Marshall is OOF on sabbatical Mike - can you please provide high-level tech overview?  
Jami is the Intel Marketing VP.  
I'll send an overview later this afternoon.

---Original Message---

From: Bob Herbold;  
Sent: Tuesday, June 29, 1999 11:42 PM  
To: Shannon perdue; Marshall Brumer (Exchange);  
Subject: RE: Intel

I assume that you two are still Intel Brian trust. If not let me know. I am going to have a call with Jami Dover from Intel tomorrow, and would be interested in what is going well, and what isn't. I don't need anything fancy; just sketch what you see going on.

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