Q1 2021 Earnings Call

Company Participants

- George Davis, Chief Financial Officer
- Patrick Gelsinger, Chief Executive Officer
- Tony Balow, Senior Director, Investor Relations

Other Participants

- Ambrish Srivastava, Analyst
- CJ Muse, Analyst
- Chris Danely, Analyst
- Harlan Sur, Analyst
- Joe Moore, Analyst
- John Pitzer, Analyst
- Matt Ramsay, Analyst
- Pierre Ferragu, Analyst
- Stacey Rasgon, Analyst
- Timothy Arcuri, Analyst
- Vivek Arya, Analyst

Presentation

Operator

Good day. Thank you for standing by. Welcome to the Intel Corp's First Quarter 2021 Earnings Conference Call. At this time, all participant lines are in a listen-only mode. After the speaker presentation, there will be a question-and-answer session. (Operator Instructions). Please be advised that today's conference is being recorded. (Operator Instructions).

I would now like to hand the conference over to your speaker, Head of Investor Relations, Tony Balow. Please go ahead.

Tony Balow {BIO 21936645 <GO>}

Thank you, operator. Welcome, everyone, to Intel's First Quarter Earnings Conference Call. By now you should have received a copy of our earnings release and the earnings presentation. If you've not received both documents, they're available on our investor website. The earnings presentation is also available in the webcast window for those joining us online. I'm joined today by our CEO, Pat Gelsinger; and our CFO, George Davis. In a moment, we'll hear brief remarks from both followed by Q&A.

Before we begin, let me remind everyone that today's discussion contains forwardlooking statements based on the environment as we currently see it, and as such does include risks and uncertainties. Please refer to our press release for more information on the specific risk factors that could cause actual results to differ materially.

Today, we have provided both GAAP and non-GAAP financial measures. We will be speaking to the non-GAAP financial measures when describing our consolidated results. As a reminder, our non-GAAP results exclude our NAND memory business, which is subject to a pending divestiture and our non-GAAP year-over-year comparisons also exclude NAND from 2020 results. The earnings presentation and earnings release available on intc.com include the full GAAP and non-GAAP reconciliations.

With that, let me hand it over to Pat.

Patrick Gelsinger {BIO 1740128 <GO>}

Thank you, Tony. Good afternoon, everyone. It's a pleasure to be with you for my first earnings call. I consider it an honor to be CEO of this great company. Thanks for joining today. Intel delivered a strong Q1 that beat our January guide on both the top and bottom line driven by exceptional demand for our products and exquisite execution by our team.

We shipped a record volume of notebook CPUs, we launched new competitive Intel Core and Xeon processors, Mobileye had its best quarter ever, with tremendous industry support we unveiled our IDM 2.0 strategy setting a bold new course for technology leadership at Intel. The response from employees, partners and customers has been incredible. Our teams are reinvigorated, innovating and executing. It's amazing to be back at Intel and Intel is back.

Before George takes you through the financial details of the quarter, I'll begin with the industry trends we're seeing and why Intel is well-positioned to aggressively capitalize on them. Said simply, Intel is the only company with the depth and breadth of software, silicon and platforms, and packaging and process with at-scale manufacturing that customers can depend on for their next-generation innovations.

There are four superpowers driving digital transformation: cloud, connectivity, artificial intelligence and the intelligent edge. Intel's mission. And we are uniquely positioned to do so is to help customers harness these superpowers to improve the lives of every human on the planet. The digitization of everything was markedly accelerated by COVID and it spurred innovation and new models of working, learning, interacting and care. Technology is increasingly essential to every aspect of human existence and semiconductors are the foundation. This is creating a cycle of explosive growth in semiconductors that will result in sustained growth for a decade or more. The PC ecosystem, in particular, is experiencing a resurgence. This remote work and learning dynamics of COVID led to more PC shipments in 2020 than at any point since 2012 and that's continuing. 2021 is shaping up to be the largest PC market ever. In fact, we shipped more notebook CPUs in Q1 than in any other quarter in our history. Total platform unit volumes were up well over 30% in the first quarter. In many markets 1 PC in every home is

no longer enough, the number of PCs per household, what we call PC density is increasing. We are seeing strong growth in education where on a global basis, the number of PCs per 100 students and teacher still remains in the single digits. Every student needs a laptop and we have a long way to go. In addition, there are over 400 million PCs running Windows 10 that are over four years old today, which is an enormous PC refresh opportunity. Intel is leading this rejuvenation of the PC with marketing, user experience and purpose-built innovation at the software, silicon and platform level.

We shipped Tiger Lake-H for notebooks and Rocket Lake for desktops, and customer reception has been enthusiastic. As a sign of our improving execution, we qualified Tiger Lake-H ahead of schedule in 10 nanometers and we expect 10-nanometer unit volumes to crossover 14 nanometers in the second half of the year.

Our Intel Evo platform gives buyers the very best mobile experience and we're deepening our ecosystem engagement with partners, including Microsoft, Google and Samsung to advance the PC experience in new innovative ways. We see no signs of PC demand slowing and believe the industry will return to shipping more than 1 million units today. With over 100 million Xeon servers in the installed base, the world runs on Intel.

Building on that foundation, we recently launched our most advanced high-performance data center platform to optimize the power of the industry's broadest range of workloads from the cloud to the network, to the intelligent edge. At the heart of, this is our new third-gen Intel Xeon Scalable processor codenamed Ice Lake, which offers nearly 50% gen-over-gen performance improvements across a range of workloads. We are already shipping Ice Lake to more than 30 customers, including major cloud providers, communication service providers, enterprise and HPC customers.

Another trend driving demand for more and more optimized computing performance is the infusion of artificial intelligence and machine learning into nearly every application. As the only X86 data center CPU with built-in Al acceleration, Ice Lake provides 74% genover-gen improvement on Al workloads. And our Habana discrete solutions address the needs of those customers with extreme Al demands in areas like training. Sometimes customers want both. For example, UC San Diego will use Intel Xeon and Habana Al accelerators to power their new Voyager supercomputer.

Mobileye set a new quarterly record. Mobileye's assisted driving technology continues to win over automakers with eight new design wins in Q1. We have programs with 13 of the 15 top automotive OEMs. Mobileye continues to open new categories such as delivery transport with the win at Udelv and is rapidly evolving to power L4 fully autonomous robotaxis beginning next year.

We continue to have extraordinary success winning the next-generation 5G environments. A great example from this quarter is our collaboration with Google Cloud to develop solutions that help communication service providers accelerate 5G deployment across multiple network and edge locations. We're already seeing significant adoption of oneAPI and oneAPI powered tool kits for high-performance computing, AI and data analytics. Developers and customers are embracing oneAPI's open standards-based approach for

unified programming across architectures and vendors. This includes leading cloud service providers, who are embracing oneAPI at scale.

The unprecedented demand for semiconductors has stressed supply chains across the industry. We've doubled our internal wafer capacity in the last few years, but the industry is not challenged by a shortage of foundry capacity substrates and components. We expect that it will take a couple of years for the ecosystem to make the significant investments to address these shortages. This fundamental industry challenge underscores the importance of our unique and differentiated IDM 2.0 strategy. IDM 2.0 utilizes our internal factory network to reliably deliver leadership products and provides the industry another source of foundry capacity through our new Intel Foundry Services. Leveraging our IDM advantage we are working aggressively across our global supply chain to solve substrate shortages to satisfy our customers surging demand and gain market share. For example, by partnering closely with our suppliers, we are creatively utilizing our internal assembly factory network to remove a major constraint in our substrate supply. Coming online in Q2 this capability will increase the availability of millions of units in 2021. It's a great example where the IDM model gives us flexibility to address the dynamic market.

It's clear the industry and Intel will need more capacity to meet strong future demand, which is why we are dramatically expanding our foundry capability with Intel Foundry Services, starting with a \$20 billion investment for our first large-scale foundry operations in Arizona. We plan to expand other locations and establish Intel Foundry Services as a major provider of committed foundry capacity in the US and Europe, while assuring a sustainable and secure semiconductor supply for the world. Since its announcement, the industry response to Intel Foundry Services has already been incredible. We are engaged with well over 50 potential customers today. We're seeing excitement from some of the top technology giants in the world across industry verticals ranging from automotive to high-performance compute and cloud service providers.

We've been responding to and proactively engaging with automotive component suppliers on how we can help them with their supply chains and alleviate shortages in both the near and long term. We're doing our part to address this global supply crisis, but we cannot do it alone. The investment needed at the scale required is immense and that will require close industry and government partnership to address this need. Governments around the world are recognizing the critical nature of semiconductors and the need to increase advanced chip manufacturing capacity and prepare for the future. We are encouraged by President Biden's recognition of semiconductor manufacturing as a critical component of our national infrastructure and its inclusion along with key research, and infrastructure investments in broadband and the American jobs plan. Looking ahead, we're confident our strategy will drive innovation and technology leadership for Intel. 7 nanometers is progressing well and IDM 2.0 puts us on the path to restore process performance leadership and build on our industry-leading packaging technologies.

With IDM 2.0, we will have superior capacity and supply resilience by leveraging our internal and external capacity and a superior cost structure. By accelerating our clock rate of innovation, we will deliver leadership products in every category. In the PC business,

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we will follow the successful launches of Tiger Lake and Rocket Lake with Alder Lake, which is currently sampling and will ship in the second half of this year.

Within the next couple of weeks, we'll take in the compute tile for Meteor Lake our first 7 nanometer CPU for 2023. In the data center, we will follow the strong ramp of Ice Lake with Sapphire Rapids, which is scheduled to reach production around the end of this year and ramp in the first half of 2022.

Overall, our 2023 road maps are firm and under execution. And our 2024 in 2025 plans are well underway to provide unquestioned leadership products in every category we participate in, the Intel innovation machine is fired up.

Before I pass it to George for the details in the quarter, let me reiterate how excited I am to be back. You can feel the energy inside of Intel, the passion to innovate, and the drive that made us great. We are reigniting our culture to attract, retain and motivate the best and brightest engineers in the industry. In fact, we've onboarded over 2000 engineers so far this year, including the recent key hire of Sanjay Natarajan, who will co-lead our Logic Technology Development. In total, we expect to add several thousand more engineers, by the end of the year. 2021 is a pivotal year, as we laid the foundation of our winning IDM 2.0 strategy and invest in our future to accelerate our trajectory and execution. Given the incredible demand for computing the strength of our IDM 2.0 strategy and the technology investments we're making, I'm certain Intel's best days are in front of us.

George Davis {BIO 3925391 <GO>}

Thanks, Pat, and good afternoon, everyone. Q1 marked a stronger-than-expected start to the year with both our PC, notebook and Mobileye businesses achieving record quarters. Revenue was \$18.6 billion exceeding our guidance by \$1.1 billion led by strength in our PC business and the first signs of recovery in the enterprise and government portion of our data center business.

Our IOTG, Mobileye and PSG businesses also posted strong sequential growth, as they began to emerge from an adverse macroeconomic environment driven by COVID. As noted in our January guidance, Q1 revenue includes an approximately \$580 million one-time corporate revenue item.

Gross margin for the quarter was 58.4% exceeding guide by approximately 40 basis points, largely due to flow through on higher revenue. QI EPS was \$1.39, up \$0.29 versus guide with the majority of the beat on strong operational performance and the balance on gains related to our ICAP portfolio.

Note that these non-GAAP results exclude the impact of a charge related to VLSI litigation that are included in GAAP results. In Q1, we generated \$5.5 billion of cash from operations and free cash flow of \$1.6 billion. We repurchased \$2.4 billion of shares completing the \$20 billion repurchase plan announced in October 2019.

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Going forward, we expect to have lower stock repurchases as we enter an investment phase to support strong demand growth in client, build initial infrastructure for future foundry volumes and make necessary investments to accelerate our return to process leadership. We remain committed to growing the dividend.

Moving to segment performance in the quarter. CCG revenue was up 8% year-over-year driven by all-time record notebook unit volumes up 54% year-over-year. Increased volume in the consumer entry and education segments resulted in platform ASPs being down 20% year-over-year. Excluding this upside volume ASPs were flat year-over-year. Combined with growth in our WiFi and Thunderbolt connectivity businesses, revenue grew overall in CCG despite the ramp down of our modem and Mac sales and the impact of exiting our Connected Home division. Operating income was \$4.1 billion, down 2% year-over-year on higher 10-nanometer mix and increased R&D investment.

DCG delivered revenue of \$5.6 billion somewhat above our expectations, but down 20% year-over-year on a challenging compare. Enterprise and government saw initial recovery with sequential performance above seasonal expectations, while cloud inventory digestion persisted through the quarter as expected. Strong network SoC growth and product mix drove more than half of the 14% year-over-year ASP decline. DCG operating income in Q1 was down \$2.2 billion year-over-year on lower revenue, transition to 10-nanometer and increased R&D investment in our Xeon roadmap. Our intelligent edge businesses were up year-over-year and quarter-over-quarter as COVID-related demand impacts began to subside, specifically, IOTG revenue was up 18% quarter-over-quarter with strength in retail and industrial segments.

Mobileye revenue and operating margin were both all-time records at \$377 million and \$147 million respectively. Mobileye continues to execute well and gain market segment share as the auto industry recovers from pandemic lows. PSG revenue was up 15% quarter-over-quarter, with strength in its communications and embedded segments.

Moving to our Q2 and full-year outlook. For Q2, we are guiding revenue of \$17.8 billion, down 2% year-over-year, excluding our NAND business. We continue to see very strong demand for PCs with fulfillment challenges on industry-wide component and substrates shortages. In data center, we believe revenue bottomed in Q1 and will increase in Q2 as cloud digestion impacts begin to subside and enterprise and government momentum continues.

Gross margin is expected to be approximately 57%, up approximately 1 point year-over-year driven by lower inventory reserves and improved 10-nanometer costs, partially offset by factory startup costs. We are forecasting EPS of \$1.05 per share and a tax rate of 13%. For full-year, we are increasing our guidance provided in March and now forecasting \$72.5 billion in revenue, up \$500 million from our prior guidance.

Gross margin of 56.5% and EPS at \$4.60, up \$0.05 from our March 23 call. We now expect free cash flow to be \$10.5 billion, up \$500 million versus prior expectations. We continue to see very strong PC demand with both TAM and our internal PC supply growing double-digits year-over-year, but we expect CCG revenue to be more first-half weighted than

normal seasonality due to industry-wide supply constraints and the continuing ramp down of modem and Apple Mac revenue.

In data center, we expect increased demand in the second half as both cloud, enterprise and government segments return to growth. Gross margin percent will be lower in the second half of the year, predominantly due to increased 7-nanometer startup costs and industry-wide supply constraints impacting client, volume and mix.

We expect increased R&D throughout the year, as we invest in our roadmap and IDM 2.0 strategy. As stated in March, this guide is tempered by DCG-related entity list uncertainty and industry-wide supply constraints, primarily impacting our client, IOTG and PSG businesses. We are working closely with our supply chain partners and leveraging our unique IDM capabilities to mitigate these supply constraints, gain market segment share and outperform this guide.

With that let me turn it back over to Tony and get to your questions.

Tony Balow {BIO 21936645 <GO>}

All right. Thank you, George. Moving on now to the Q&A. As is our normal practice, we would ask each participant to ask just one question. Operator, please go ahead and introduce the first caller.

Questions And Answers

Operator

(Operator Instructions) Our first question will come from the line of Harlan Sur from JPMorgan. You may begin.

Q - Harlan Sur {BIO 6539622 <GO>}

Good afternoon, and nice job on the quarterly execution. It's good to see the unveiling of the IDM 2.0 strategy back in March, it was also good to get to 7-nanometer update and continued execution on getting that ramped in 2023, but that's just a point milestone, right? So in order to sustain your technology and performance leadership with the IDM 2.0 strategy, it's going to require the time to maintain a cadence on both internode optimizations but also more importantly to maintain a cadence of continued node shrinks to 5-nanometer and then ultimately to 3-nanometer. I think the Intel team had previously articulated node migrations Kind of every 2 years, 2.5 years. Pat, I think you said a yearly cadence back in March, but I assume that that was internode optimization, but on the move to 7 to 5, can we expect the team to ramp 5-nanometers, 2, 2.5 years after your 7-nanometer ramp, and then 3-nanometer ramp 2, 2.5 years after 5?

A - Patrick Gelsinger {BIO 1740128 <GO>}

Hi. Thank you for the question, Harlan. Overall, as I said on the call, we're seeing very good progress on the 7-nanometer team. They're executing now. We're very confident of

the changes that we made on that, right, the move to really embrace CUV and since you've done that, we've just seeing superb execution.

And as I said in the unleashed event, we expect to move to a yearly cadence or better for our process technology and we're going to be laying that path out very clearly. We're excited about our team's ability to get us back to process parity and ultimately to sustain leadership yet again. And I'm very happy with the team and some of the investments we're making, the hiring of Sanjay Natarajan, we talked about. The team is getting fired up to execute on that.

We also see -- this is just one piece of our technology leadership strategy. And as we've seen in our IDM 2.0 strategy, it's about packaging. It's about the process. It's about the full set of IP that we're bringing to the table and at-scale manufacturing. And I will say some of the early enthusiasm that we've seen from some of the foundry customer pipeline is really bringing together our packaging technologies with the full IDM 2.0 strategy.

So overall, getting back to the heart of your question. Exactly. We are going to increase the cadence of our process technology innovations. We're seeing very positive signs since we made this change, and we're on track to parity, and again, sustain leadership out in the future. Our team is firing on all cylinders and I'm excited about what we're seeing, as we monitor those milestones very rigorously going forward. This team is on fire and we're executing.

Q - Harlan Sur {BIO 6539622 <GO>}

Great. Thank you.

A - Tony Balow {BIO 21936645 <GO>}

Operator, next question.

Operator

Thank you. Our next question will come from the line of CJ Muse from Evercore. You may begin.

Q - CJ Muse

Yes. Thank you for taking the question. I guess a follow-on question, Pat, to your foundry strategy or IDM 2.0 strategy. I get the vision of gaining scale by investing for yourselves at the leading edge and then backfilling fully depreciated capacity in the '22 down to 10-nanometer nodes over time and the benefit to you guys, but what's the benefit of opening up the business at the leading edge to foundry customers and how are you going to control folks to redesign to your design and will you have to subsidize them or would that be a subsidy that comes from the US government? Would love to hear your thoughts there. Thank you.

A - Patrick Gelsinger {BIO 1740128 <GO>}

Yes. Overall, let's just paint the picture a little bit more broadly, CJ, and thanks for the question. The IDM 2.0 strategy, we're all about making leading-edge capacity available for our foundry customers and the world needs more leading-edge capacity and there's very few companies that can supply it around the world. So we're seeing a lot of enthusiasm for that. It's going to cost us to build and expand our capacity more aggressively. And as you suggest, it also means we have a better monetization on the longer life cycle of the foundry business, and we're planning on getting to foundry kind of margins without investment. Now, as we have already begun engaging with customers, we've seen enthusiasm, right? We've seen enthusiasm that they get to design on our leading process technology and they have more choices for where that might be coming from.

We're also seeing enthusiasm for this idea that they can bring some of their IP and bring our IP to the table. And in particular, some of the cloud customers have been very excited about that ability to say, hey, I can take some of my cool ideas and be better optimize including things like x86 cores, to have a more optimized solution for their market requirements. This is compelling for them. And then we combine that with all the other strengths that we've talked about, such as at-scale manufacturing and then the supply constrained environment like we're in right now. Boy, that's bringing enthusiasm from the customers. Also, we get to do that with all of the other assets that we have, with packaging or software technology.

We think this is a strategy that will be very powerful for the industry, and we've seen that response, early customers, the EDA toolchains, the IP suppliers, this is really hit the right time in the industry, and we are seeing the international aspects, as well as the government aspects, saying, we need a more geographically dispersed resilient supply chain for something that's critical to the future of humanity, of semiconductor technology. This is the right strategy for the right time and we're seeing great response from it.

Q - CJ Muse

Thank you.

A - Tony Balow {BIO 21936645 <GO>}

Operator, next question.

Operator

Our next our next question comes from the line of Joe Moore from Morgan Stanley. You may begin.

Q - Joe Moore {BIO 17644779 <GO>}

Great, thank you. I wonder if you could talk about the Data Center Group numbers, I guess both the 20% year-on-year decline in cloud and the 14% decline in platform average selling price. How much of that is just kind of lingering cloud digestion? And what's your visibility to that resuming and is there any competitive aspect you think to the weakness there?

A - Patrick Gelsinger {BIO 1740128 <GO>}

Yes. I'll start on that one and I'll ask George to jump in a little bit. Overall, as George said in his comments, Q1 was a little bit better than we expected for DCG in terms of revenue and we see it improving as we go through the year. So we saw this is the bottom, a lot of that was driven exactly, as you're asking the question, by cloud digestion. We had an extraordinary last year and now customers are almost through the digestion of that and we're starting to see signs that they want to start the next build phase in their cloud. But we also saw some just great successes with the enterprise business starting to pick up, some of the networking business wins were very strong for our 5G area.

So overall, we believe we're on a path back to growth. I'd also emphasize that the Ice Lake launch superb, right? This product major gains and generation-to-generation improvement and absolute areas of differentiation, like the AI performance. And as you said this is AI infused now into the 100 million-plus Xeon sockets as we're bringing AI into every one of them. This is a powerful new capability and getting great response from our customers overall.

So we feel very good about the path that we're on and our overall outlook for the year is that we're going to continue to see that momentum build as we go through the year and expect to see the business response, the competitive position, the customers getting onboard. It's an exciting time for our data center business. George, anything you'd add?

A - George Davis {BIO 3925391 <GO>}

Yes, I would say, really if you think about the impact year-over-year in the first quarter, more than half of it was just the fact that we are comparing the bottom, what we now believe to be the bottom of the digestion phase, with a very, very strong Q1. The other piece is our investment is going up in this space. This is clearly where -- as we make progress on 7-nanometer, you start to see 7-nanometer costs reflected that weren't there year-over-year. That's a good thing. That gets much better over time.

Also -- almost on the same scale, we've increased OpEx to drive the Xeon roadmap even harder in line with some of the things that Pat was talking about. And then finally, you also have -- this is start-up of the 10-nanometer generation for server, and so you're starting to see the initial cost impacts on that. We're already seeing very strong 10-nanometer cost improvements in the client-side of the business. Some of that obviously helping DCG today, but it's going to -- they've got some work still to go through, as they start to ramp their mix from 14 to 10.

Q - Joe Moore {BIO 17644779 <GO>}

Great. And then just to make sure the 14% decline in platform ASP was that more mix related towards comps or was there something that led to any decline like that?

A - George Davis {BIO 3925391 <GO>}

It was mix. You've got a lot higher relative mix of SoCs and whatnot in there. When you're down on revenue all those makes comparisons get tougher and you're down on the strongest margin mix areas.

Q - Joe Moore {BIO 17644779 <GO>}

Great. Thank you very much.

Operator

Stacey Rasgon from Bernstein. You may begin.

Q - Stacey Rasgon

Hi, guys. Thanks for taking my questions. I want to ask that question a little more explicitly. So if more than half or about half of whatever of the ASP decline year-over-year to 14% in data center was due to SoC mix and product mix. What would the other half coming from? How much of that is direct ASP decline? And what should we expect on that front as we go into the second half and how does that tie into the implied gross margin guidance in the second half, which is -- for the company, which is down something like 250 bps second half versus first half?

A - George Davis {BIO 3925391 <GO>}

Yes. So I think -- let me just clarify, Stacey. So the lower revenue includes the ASP and volume effects compared to what we were seeing in the first quarter of last year. So that's what was over half of it. I would say though the remaining was split between the factory start-up costs that I talked about, higher OpEx since we're talking about operating margins and then just the unit cost impact of ramping 10-nanometer relative to what they sell year-over-year. And when we think about the second half of the year on the overall margin, we think you're seeing -- going to see some margin impacts actually from the supply situation impacting the mix and the volume that we're going to see out of clients. Again, the 7-nanometer startup costs ramp throughout the year, so that's probably the next biggest factor. And then a little bit offset by the fact that we're going to see server start to recover.

A - Patrick Gelsinger {BIO 1740128 <GO>}

Yeah. And overall, Stacey, I'd just add, it's about building leadership products. Ice Lake is a great product and we're seeing a strong ramp for it, as the products get better ASPs will get better, and we're going to be very aggressive in terms of market share in this area. So we feel like we're now very much on the front foot again in this business and we're starting to see the market respond that way. And with some of the things that we've talked about with Ice Lake, in particular, and our Sapphire Rapids program following up. We are on a good competitive dynamic and we're leaning into this area of our business and we're seeing great response from our customers.

Q - Stacey Rasgon

Can you define what you mean by aggressive on market share?

A - Patrick Gelsinger {BIO 1740128 <GO>}

Exactly that, aggressive market share. We're going to fight for every socket in the market. This is an area that is core to our business. We're going to be aggressive. We've just

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delivered a great new product for it. We're going to be using our system design, our validation, our software assets, our customer relationships, our supply chain everything that we can to bring value to our customers, right? They are looking for us building on that 100 million installed base of servers that we have now. This is a great business and one that we're going to be very aggressive in bringing the best things to our customers.

And I'd also say Stacey that, as you think about this business, this is an area that with our cloud partners are IDM 2.0 strategy is powerful. Because now, we're saying to them not only are we going to be building better and better products for you in this area, but we're also going to be co-designing, co-innovating and bringing new capabilities for them to optimize solutions for their markets as well. Yes, we're going to be aggressive in the data center and cloud business going forward.

Operator

John Pitzer from Credit Suisse. Your line is open. Your line is open, John.

Q - John Pitzer {BIO 1541792 <GO>}

Can you guys hear me?

A - Patrick Gelsinger {BIO 1740128 <GO>}

Yes. Thank you, John.

A - George Davis {BIO 3925391 <GO>}

Hi, John.

Q - John Pitzer {BIO 1541792 <GO>}

Hey, sorry about that. Just sticking on the theme of data center and the cloud business, can you help us understand why you're comfortable with that this is digestion and not something more like cloud guys going to more internal solutions or solutions away from Intel? And I sort of ask the question because cloud was down about 15% year-over-year in Q4, it's down about 30% in Q1. I know you have another hard compare year-over-year on Q2, but what gives you confidence that this is digested not something more? And I know in George's prepared comments, he said, all of data center would be up sequentially in June. Do you expect that for the cloud portion as well?

A - Patrick Gelsinger {BIO 1740128 <GO>}

So at the highest level. I'll just say we work intimately with these customers, right? Our people are in their environment. We're working supply chains, we're building forecast with them, we know what their inventory levels are. These are very intimate relationships. So I just say at that level we're confident when we speak that what they're doing and what we're going to see in the future, and how they're digesting and deploying the products that we delivered to them last year are now ramping in and becoming instances they're selling and services they are selling as well.

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I'll say, because of that intimate relationship that we have, we're quite confident in those comments. Like we said, as we see the sequential growth, we expect that across the business, we see that in networking, we see that in enterprise and government and we see that in cloud as well. We do see some of the elements that we've talked about with respect to some of them exploring some of their own design work. Well, I'd just say with that we're very close to that, those are fairly modest overall, in terms of their volumes so far.

And as I mentioned in the last question, this is an area that the IDM 2.0 strategy, the Intel Foundry Services is powerful and the response that we've seen from those customers saying, wow, now we can co-innovate without doing all the work of creating a new architectural point in the cloud environment. This is powerful and something that we think is uniquely going to help us to navigate them to an answer that is much more favorable for them, as well as for us and we're off to a great start.

A - George Davis (BIO 3925391 <GO>)

Hey, John. One thing I would add, we're going to see growth in all three of the major areas in data center, but the standout grower in Q2 is going to be cloud.

Q - John Pitzer {BIO 1541792 <GO>}

Perfect. Thank you, guys.

Operator

Our next question comes from the line of Ambrish Srivastava from BMO. You may begin.

Q - Ambrish Srivastava {BIO 4109276 <GO>}

Yes. Thank you. Pat and George, I just wanted to come back to the IDM 2.0 strategy. George, you mentioned clamping down on buyback which makes sense. So you're adrif somewhat capital allocation, excuse me. But how should investors be thinking about the impact to P&L as we go through implementing IDM 2.0? And kind of related to that is free cash flow impact as you go to an elevated level of capital spend? And what really are the milestones that investors should be looking for?

A - George Davis {BIO 3925391 <GO>}

Yes, thanks for the question. We're clearly going to cover a lot of those details at our Analyst Day, which will be much more forward-looking. And as you know the investment cycles are -- for foundry are long. Not only does it take time to qualify customers, also capacity additions take a certain period of time.

What we're doing to be nimble is investing aggressively in the build-out of shells, which will give us -- and Arizona is a very good example of that, where, first off, we've been chasing demand for -- certainly, since I've been here, for a number of years and the idea being, we've got to have more optionality to respond to the market both for foundry and also for our core market, which we cannot fulfill today. And so what you'll see from us is

really building in that optionality, so you would expect capital to be up somewhat reflecting that. That will have some impact on free cash flow. But we also -- we have a good growth forecast, and which helps obviously with the growth of cash from operations. And so overall, I think the investment cycle for this will be logical as we lay it out. The types of returns you can get will be an investment phase for sure for the next two to three years. But then you'll start to see customer demand starting to balance out the investment.

A - Patrick Gelsinger {BIO 1740128 <GO>}

Yes. And I'd just add through that from some of the things building on the unleashed announcement in March, right? Yes, this is a good market, \$100 billion foundry market, huge emphasis in that for leading-edge capacity, which we're uniquely suited to give. I'll say, competitors aren't able to catch up with demand in this area and factories take a long time to build and we are, clearly, as George laid out, this is something that the optionality helps our existing business as well as our foundry business.

And finally, the characteristics of the foundry business for somebody like us, it's a good business. Not only is it large but it has good margin characteristics and we expect that we're going to be able to produce good returns over the long term. And as we think about this, again, we go back, the world needs more semiconductor capacity. It wants a more balanced supply chain, we're seeing industry say that, we're seeing government say that and we're uniquely positioned to fulfill that.

Q - Ambrish Srivastava {BIO 4109276 <GO>}

Okay. Thank you.

Operator

Our next question is from the line of Vivek Arya from Bank of America. You may begin.

Q - Vivek Arya {BIO 6781604 <GO>}

Thanks for taking my question. I had a question on the road map for gross margins both kind of near and longer-term. On the near term, your implied gross margins in the back half are about 55% plus-minus. Is this the trough and is this kind of the starting point for calendar '22 that we should keep in mind as you start to invest more in 7-nanometer? And then longer-term, when I look at your CapEx now, it's about 25%, 27% of sales, much higher than depreciation. So what is the additional pressure as those things converge? And when I look at the foundry business that you are talking about, the best foundry in the world makes 50% gross margin. So how should we think about gross margin both near-term and the longer-term? Thank you.

A - George Davis {BIO 3925391 <GO>}

Yes. First off, we're probably not going to be able to forecast '22 and beyond on this call. We'll certainly give you an idea of what margins will look like over time at Analyst Day. But for the remainder of the year, as I talk about the first half, second half dynamics really, we're in a supply-constrained environment in client and it's constrained in a way that

exposes us to more small core than we would -- than our higher ASP and higher-margin products. The other piece is the 7-nanometer startup, which I talked about, which is a good factor. This is really the -- showing the readiness of both the process and products to move forward on 7-nanometer.

We will get some help because we will see strong recovery from server. Some of that is muted a little bit because this is really where they're ramping to 10-nanometer off of 14, which was a very mature node. And so it won't be quite as rich as we would expect, but I feel good about where we can drive margins over the long run.

You're not going to see material impacts this year from the IFS activities. Obviously, we will be making some investments, but those investments for the next year or two, really are critical just to meet -- much of that investment is critical just to meet the increasing demand that we see in client.

Q - Vivek Arya {BIO 6781604 <GO>}

And when do depreciation and CapEx converge, George?

A - George Davis {BIO 3925391 <GO>}

It will depend really on what the multi-year capital picture looks like. So we'll have to wait and discuss that when we're ready to give a multi-year picture.

A - Patrick Gelsinger {BIO 1740128 <GO>}

Yes, I'll just say, this is a pivotal year, right? I mean, this is where we're building out the IDM 2.0 strategy. We're getting our product roadmap back in shape, leadership products, produced leadership margins. And as we see -- as we go through the year, we have opportunities of supply, right? As we drive revenues, if we're overachieving, and as George said in his prepared remarks, if we overachieve on supply, we will see revenue, we'll see gross margin improvements and leadership products as we're committing to on our road map over time, we'll get effects on leadership margins.

So overall, this is pivotal and we're well underway, right, in making that turn to have a -- Intel is back, right, with the kind of products, the kind of growth that you would expect and want to see from us.

Q - Vivek Arya {BIO 6781604 <GO>}

Thank you.

Operator

Our next question comes from the line of Timothy Arcuri from UBS. You may begin.

Q - Timothy Arcuri {BIO 3824613 <GO>}

Company Ticker: INTC US Equity Date: 2021-04-22

Company Name: Intel Corp

Thanks a lot. George, I had a two-part question. I guess the first thing is the \$500 million in prepayments that was corporate-related, where was that reported from a segment perspective, or was it sort of like sprinkled throughout all the segments? And I guess the second part is just on CapEx, I know you had talked before about some CapEx had pushed from last year into this year. I think it was about \$1.5 billion something like that. So I'm just sort of wondering what the right sort of new normal is as trajectory into next year? Is it is -- is like \$20 million the right number or is it a little bit less than \$20 million? Thanks.

A - George Davis {BIO 3925391 <GO>}

Yes. First off, the \$500 million was not spread. It was in other revenue. So, all in one place. In terms of the CapEx, yes, we had basically eight weeks or more of capital pushed out, just because of the pandemic. It really affected the construction activities. And as you know, it continues to be challenging, but that was probably the biggest factor that we saw last year.

So maybe \$1.5 billion to \$2.5 billion you could argue is really just catching up with where we were behind from last year. And so, you could add both that to our free cash flow estimates for the year, and also you could bring down the CapEx requirements for this year. So I think I think \$20 million for this year is a good number and we'll talk more about next year later.

Q - Timothy Arcuri {BIO 3824613 <GO>}

Thanks, George.

A - George Davis {BIO 3925391 <GO>}

Thanks.

Operator

Our next question comes from Pierre Ferragu from New Street. You may begin.

Q - Pierre Ferragu {BIO 15753665 <GO>}

Hey. Thanks for taking my question. Pat, I'd like to come back to what you said about your foundry initiative and there are really two ways I look at it. One is bringing a foundry service, where your clients can integrate what they want to design with Intel's IT. And one is more like being like a mainstream general-purpose foundry to compete more directly with existing players like Samsung and TSMC.

And I think these two are very different in nature. And what I was wondering is in the 50 conversations you've had so far, what would you say the percentage of conversation were more centered on the first one versus the second one? And then in your own mind if you think about Intel in the long run, how do you see the balance between these two ways of being a foundry in our business mix?

A - Patrick Gelsinger {BIO 1740128 <GO>}

Yes. Hi. Thanks for the question, Pierre. I think it's a good question. And to some degree, I'd say, we don't know, right? We're in this phase where we're beginning to engage with customers, we have a good pipeline of customers that fit in both of those buckets, right, definitely some of the cloud customers particularly interested and where they can comingle or create, I'll say, hybrid design, some of their IP with some of our IP.

And then we have a very rich pipeline of customers, really across pretty much every segment of the industry communications providers, automakers etcetera, that would fit into the second bucket where it's much more about them using us as a world-class foundry for all of their design. I'll say we view this as a very, I'll say, broad set of customers that we're aiming at, with a broad set of IP, and as we get IP for the RISC-V, the ARM ecosystem and the x86 ecosystem. Our value proposition to customers is across that spectrum, where they don't need to prioritize ours versus theirs, they got to design with that full spectrum.

The other thing I would say, Pierre, is we're also seeing extreme interest in our packaging technologies. And here it might be a tile from Samsung or TSMC being combined with a tile from Intel, right, and those might be on older process technologies, newer process technologies and taking advantage of our world-class packaging and assembly test technologies. So we really see that full-spectrum coming to bear and it really is a combination of world-class foundry, world-class IP, world-class assembly package and test that we think gives us a unique proposition in the industry and so far the enthusiasm is very high for that offering,

A - George Davis {BIO 3925391 <GO>}

And, Pierre, I would add, as you talk about the two different alternatives. One of the things to remember is that if you look at our internal roadmap, people are used to seeing a highly differentiated and very specific to Intel set of IP capabilities. We've said over time that it's very clear that we're going to be adopting more and more of the industry ecosystem IPs and libraries because it makes sense to do it, and it makes sense in terms of cycle time, in terms of taking advantage of capabilities that already exist out there.

So we're closing -- we're not going to -- when we intercept on some of these nodes, we're not going to be as far away I think as people might think in terms of being able to demonstrate a lot of knowledge around many of the IP blocks that our customers depend on today.

A - Patrick Gelsinger {BIO 1740128 <GO>}

Yes, let me just add to that. I think it's a great point, George, because every IP that I generate from the industry increases the IP available to my internal design teams, every piece of IP I develop internally is going to be made available to the industry, right, for their use as well. This becomes a powerful reinforcing cycle, right? Also, we're being benchmarked against the industry for our process technology, as we move to industry-standard PDKs, right? We're seeing strong embrace from the EDA suppliers, so we see all of this that makes our process better, it makes our products better, it increases our efficiency and takes our clock rate of innovation up with the industry. It's a powerful strategy.

Q - Pierre Ferragu {BIO 15753665 <GO>}

Excellent. Thanks, George and Pat.

Operator

Our next question will come from the line of Chris Danely from Citigroup. You may begin.

Q - Chris Danely {BIO 3509857 <GO>}

Thanks, guys. I always thought it was Jewish. I guess I'm Italian now. Hey, Pat.

A - Patrick Gelsinger {BIO 1740128 <GO>}

Now, you could be Catholic.

Q - Chris Danely {BIO 3509857 <GO>}

So it seems like we're in the middle of this never-ending fused lot of ARM products out there, both from a merchant and a captive perspective. So, Pat, I just appreciate your thoughts on, I guess, where you see things shaking out on x86 versus ARM both in the PC and the data center space? And would you guys ever consider maybe licensing the x86 technology to some of your hyperscale customers and having them design their own products with the foundry?

A - Patrick Gelsinger {BIO 1740128 <GO>}

The simple answer to the last part of the question is, yes, that's what we just announced, right? x86 cores will be available on our foundry services and available for people to design with them. So that will include the cloud service providers to take advantage of that. So the simple answer is, yes.

And we do believe that the ability for our customers to take advantage of x86 this way will be a meaningful shift in how people think about ARM versus x86. Because part of it was we weren't giving them the flexibility to design, to co-mingle IP, as I've described it. So they really -- if they were trying to do unique design work, they didn't have a good x86 choice. We gave them our standard products, which have lots of capability, but in some -- particularly for the cloud guys, I'd say, boy, I don't use those particular features. I really could optimize with a few of these other things, in the network, in the memory hierarchy. And now we're saying absolutely come on in, and we're opening the doors of our IP, the doors of our leading process and packaging technologies to be able to say, let's do this together, or let them do their own designs on our foundry as well. It's a very powerful strategy that I think will be a meaningful shift in the exact question that you asked.

Overall, we do think that making the x86 available this way is powerful. There are trillion lines of code that have been optimized for the x86. This is a powerful ecosystem that continues to have very great innovation and capabilities associated with it. And we're enhancing that with new capabilities like AI being integrated into the core instruction set of the new products, as you saw with Ice Lake. These are powerful differentiators. We're

continuing to innovate and the ecosystem is excited about what we're doing in our standard products, as well as what we're making available through IDM 2.0.

Q - Chris Danely {BIO 3509857 <GO>}

Great. Thanks.

Operator

And our last question will come from the line of Matt Ramsay from Cowen. You may begin.

Q - Matt Ramsay {BIO 17978411 <GO>}

Thank you very much. Good afternoon, guys. Pat, I wanted to ask a couple of questions on the data center in terms of architecture, and I think on the strategy event I asked a similar one and maybe we can dig into it a little bit more here. I know you guys just launched Ice Lake and a lot of new features and capabilities as you layout, but it is a platform transition from Cascade Lake and then another platform transition on to Sapphire. And I just wonder, first, what's been the feedback from Ice Lake, as you guys have sampled it and now launched it in terms of platform compatibility issues that customers might be facing? And I guess the second part of the question is what has been the feedback from customers that you've sampled Sapphire Rapids to, particularly, around the change from a single dye to a tile dye architecture and what that does to the memory system? Thank you.

A - Patrick Gelsinger {BIO 1740128 <GO>}

Yes, I think we could spend an hour on that question, so let me try to be quick here for it. The response from Ice Lake has been very strong, early ramp is very strong. Obviously, with the platform change, it does put a bit more work on the part of the customers, but we've been working through that with them, good response to that as well.

And as your question suggests. I mean clearly, it would be better if we weren't bringing a new platform transition with Sapphire Rapids as well, but there are so many good things in that platform that the customers are excited about, new PCI, new DDR, and probably most seemingly [ph] is the new CXL launch, right, as part of that. And I'll tell you, opening up, right, that additional interface on the platform has gotten tremendous support from the industry, new capabilities, co-processor capabilities, memory pooling capabilities. It really has been maybe the most exciting new platform capabilities since PCI Gen when we introduced that quite a number of years ago.

So a lot of excitement about that, and particularly, for cloud customers who have seen their memory portion of their TCO costs rise quite rapidly. There is a lot of enthusiasm in that area of the platform. So I'd say overall, yeah, we would have probably like to have less platform transitions than this has induced. But so far, the response from customers as they're going through those transitions with us, they're seeing value in those transitions. And particularly, as I say, as we look out to the Sapphire Rapids generation, there's a lot of value in there with some of the major, major enhancements that are part of that.

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Obviously, as we look further out in time, having more platform stability in the architecture I think is something we're striving for and I think as we lay out the 2023, 2024, 2025 road map directions to the industry, you'll start to see that seem much more seeminly, right, centered in the road map. Also, I think as we get all aspects of our core leadership, our vector, AI leadership, process leadership all of those start to come into play. I think we'll see a very nice view of how that platform architecture lays out over time.

Q - Matt Ramsay {BIO 17978411 <GO>}

Great. Thank you.

A - Tony Balow {BIO 21936645 <GO>}

Pat, do you have few closing thoughts for the call?

A - Patrick Gelsinger (BIO 1740128 <GO>)

Well, hey, first, I just wanted to again say thank you to everybody for joining my first call back as the CEO of VMware. One last opportunity to say, Intel is back, we're firing on all cylinders. Our best days are ahead of us. We're investing for the future. We're executing and we're just getting started. We look forward to our next quarterly call with you.

A - Tony Balow {BIO 21936645 <GO>}

Thanks, Pat. Thank you all for joining today. Operator, could you please close the call.

Operator

This concludes today's conference call. Thank you for participating. You may now disconnect.

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