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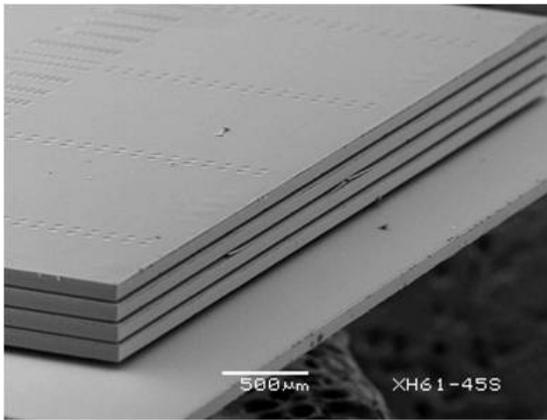
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Microsoft joins Hybrid Memory Cube Consortium to develop new DRAM standard

By Sarah Silbert posted May 9th 2012 5:43PM

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Intel unveiled its [Hybrid Memory Cube](#) at IDF late last year, and there's already an alliance dedicated to standardizing and implementing the technology. Now Microsoft wants in on the action: the outfit just announced that it will lend its clout to the Hybrid Memory Cube Consortium. To jog your memory, HMC technology promises seven times the efficiency of current DDR3 memory modules and is being vaunted by Intel et al. as the solution for monster systems requiring lower power usage and higher bandwidth. Redmond's joining a well-attended party; IBM, Micron, Samsung and many others are already members of the consortium.

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|  | <p><i>Maventwo</i> 2 weeks ago</p> <p>But IBM and 3M 3D IC tech which they announced in September 2011 that they shall develop in joint-venture to end of 2013 for licensing by end of 2013 for makers of server processors and by end of 2014 for processor makers to consumer electronics.IBM and 3M 3D IC tech seems to be a much more dense 3D IC tech than Micron Memory Cube. GlobalFoundries have recently announced that they believe that 3D IC will be common in 2014 in the semiconducting industry.
3D IC will be a much bigger Avalanche tech than USB Light Peak or Thunderbolt as Intel have declared before.
3D IC with TSV=Through-Silicon-Vias will make even very cheap ARM-based SoC-processors integrated with ReRAM-memories so they will have Avalanche capacity in all types of cheaper and small computers as in tablet pc and Smartphones and in super-light Ultrabook computers.</p> | <p>REPORT
+
REPLY</p> |
|  | <p><i>MrDutchman</i> 2 weeks ago</p> <p>Now make the latency 1-1-1-1 at a high clock speed</p> | <p>REPORT
+ 2
REPLY</p> |
|  | <p><i>Dave Bg</i> 2 weeks ago</p> <p>Anything that can increase the memory speed is welcome.</p> | <p>REPORT
+
REPLY</p> |
|  | <p><i>Daniel</i> 2 weeks ago</p> <p>Screw that! SRAM is the way to go! Jk... That would hurt the wallet.
http://en.m.wikipedia.org/wiki...</p> | <p>REPORT
+
REPLY</p> |
|  | <p><i>Jon Stern</i> 2 weeks ago</p> <p>One of my colleagues recently went (back) to Micron to work on this. He's a good guy, so our loss was their gain.</p> | <p>REPORT
+ 3
REPLY</p> |
|  | <p><i>ArrowSmith</i> 2 weeks ago</p> <p>What does Microsoft have to do with DRAM?</p> | <p>REPORT
+ 1
REPLY</p> |
|  | <p><i>menting</i> 2 weeks ago</p> <p>Just to be clear, Intel did not design the HMC at all. Micron did all of that. All Intel did was provide the specs for the interface. The post makes it seem as if Intel did the design.</p> | <p>REPORT
+ 8
REPLY</p> |
|  | <p><i>lilmoe2002</i> 2 weeks ago <i>in reply to menting</i></p> <p>Micron have always been innovators in the Memory business.
I used to own a Micron PC back in the day when they were called the fastest. All thanks to their EDO (Extended Data Out) RAM... Too bad the PC business wasn't going well for them...</p> | <p>REPORT
+ 2
REPLY</p> |
|  | <p><i>oxFADE</i> 2 weeks ago</p> <p>How porous the stuff in the background is really shows the scale.</p> | <p>REPORT
+ 3</p> |

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	Paul Shields 2 weeks ago Thought this was a white ps2 at first glance...	REPLY REPORT + 5 REPLY
	Manzoor E Elahi 2 weeks ago Question is 2014 or 2024? I would like the former.	REPORT + REPLY
	Roberto Tomás 2 weeks ago in reply to Manzoor E Elahi maybe 2013, it would make sense why intel was not looking at ddr4 until 2015 for mainstream, given that micron is already making them and expects products on shelves next year.	REPORT + REPLY
	lamerz 2 weeks ago Where's my Memristor?	REPORT + 7 REPLY
	GeneralThade 2 weeks ago pretty small.	REPORT + 2 REPLY
	red_team 2 weeks ago Hopefully this doesn't turn into another RDRAM.	REPORT + REPLY
	WeaponZero 2 weeks ago in reply to red_team With Samsung(45% market share) and Micron(12% marketshare, also buying out Elpida which also has 12% marketshare) as the founding members, i am pretty sure its not going to be another rdram	REPORT + 1 REPLY
	lamerz 2 weeks ago in reply to red_team With all those names involved? I doubt it.	REPORT + REPLY
	red_team 2 weeks ago in reply to lamerz Rep from the Rambus company aside, Intel was pretty invested in the technology itself back in the day. I recall reading articles with Intel really hyping it up. And you know, that shit was fast. But wow, Intel's chipset for RDRAM board was really shitty and Intel's own RDRAM boards were really shitty.	REPORT + REPLY
	WeaponZero 2 weeks ago in reply to red_team I have a pair of rd ram in my old pc and yeah they were nice for the time but extremely expensive. My rd ram sticks value is still the same as it was before. But there is a difference between hyping up technology and actually be in charge of the technology. The 2 founding members of this are Samsung and Micron as I said, that is 70% marketshare right there.	REPORT + 1 REPLY
	BertrandsBox 2 weeks ago The precision with which those "plates" in the photo are made scares me...	REPORT + 9 REPLY
	Robert Potter 2 weeks ago We are not going to see anything come out of this for a while. I will file this under "news that might be relevant at some point in the future"	REPORT + 7 REPLY
	menting 2 weeks ago in reply to Robert Potter	REPORT

A look back on popular stories from today in a specific year.

In the year 2011
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- Facebook could be looking to buy Opera browser via** 14

- it'll happen sooner than you think. Granted, it will only happen on the super high end specialized platforms first. It'll take a while for it to trickle down to the average consumer to take advantage of.

+ 1
REPLY



bobe2 2 weeks ago

I can hardly wait

REPORT
+ 2
REPLY



Joel 2 weeks ago

Given the big backers, it sounds like this could be the next big thing with regards to RAM.

REPORT
+ 21
REPLY



menting 2 weeks ago in reply to Joel

it IS meant to be the next big thing, as CPU performance has been increasing faster than memory performance for a number of years now. Memory speed is holding back the CPU, and this is meant to break that hold.

REPORT
+
REPLY



Viktor_Braunagel 2 weeks ago in reply to menting

I thought HDD speed was the bottleneck. Hopefully SSDs will FINALLY reach a sane price point sometime during the next year.

REPORT
+ 2
REPLY



menting 2 weeks ago in reply to Viktor_Braunagel

the HDD is part of the bottleneck, but doesn't affect the CPU as much as the SRAM (like L2 cache, L3 cache, etc) or the DRAM since it's so many levels away. The closest SRAM to the CPU will affect it the most. HMC is intended to bridge the gap between the SRAM and the DRAM (if I remember correctly from the presentation I saw), as DRAM is getting left further and further behind.

REPORT
+ 1
REPLY

- JOYSTIQ**

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