Newsletter of the North Orange County Computer Club

range Bytes

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NOCCC meetings for Sunday November 3, 2024

MAIN MEETING

Robert Strain will be demoing a new Program for testing flash drives

Special Interest Groups (SIGs) & Main Meeting Schedule

9:00 AM – 10:30 AM

Beginners Digital Photography .....Science 131
Questions and Answers about Digital Photography

Linux for Desktop Users……Science 129
Beginners' Questions about Linux

10:30 AM – 12:00 PM Noon

3D Printing .....Science 127
Questions and Answers about 3D printing

Advanced Digital Photography… .....Science 131
Questions and Answers about Digital Photography

Linux Administration .....Science 129
More topics about the Linux operating system

Mobile Computing.....Science 109
We discuss smart phones, tablets, laptops, operating systems and computer related news. **Waiting for a new leader.**

12:00 PM Noon – 1:00 PM

3D Printing…… Science 127
Questions and Answers about 3D printing if requested.

PIG SIG …… Irvine Courtyard
Bring your lunch. Consume it in the open-air benches in front of the Irvine Hall or join the group that goes to the student cafeteria. Talk about your computer(s) and life experiences.

1:00 – 3:00 PM Main Meeting

There are a large number of ways that you can be short changed with flash drives. One of the more egregious scams revolve around flash drives that are advertised as having a larger capacity than they actually have. To add insult to injury, they are usually way slower than claimed. Then there are the units that actually have the claimed capacity, but are so painfully slow you really don't want to use them for anything but small files. .

BOD…..3-4PM…….. Science 129

3:00 PM – 4:00 PM

Board Meeting……
Science 129

Verify your membership renewal information by checking your address label on the last page. If it is not right, let the treasurer know.

Mark your calendars for these meeting dates
2024: Nov 3, Dec 3,
2025: Jan 5, Feb 2, Mar 2 Apr 6, May 4.

Coffee, cookies and donuts are available during the day in room 129 .

"Friends Helping Friends" since April 1976

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Special email addresses
Jim Sanders is: editor@noccc.org
membership@noccc.org

Our Website
WWW.NOCCC.ORG

Reminder: Membership expiration dates are based on the date that you joined the club. **Example**, you joined or re-upped your membership in the club in October of 2023. That means that in October 2024 you should pay your membership dues. In the address label area of the Orange Bytes is your join month/expiration month.

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Editor's Report

On and off for several years Intel has had to relinquish it's claims as the over all king of the CPU hill. But the main steam desktop PC CPU is the one we most care about. Not the AMD 64 core Threadripper or Intel's Extreme series. Why? For the CPUs we buy, it is Process Technology. That is referring to the goal of making chips with ever smaller features. That allows more transistors in the same size of Integrated Chip. In general, that results in a more powerful, faster, and most of the time, lower power consumption.

Intel choose one technological approach that they had a great deal of trouble converting design theory into a manufacturable product. Intel first announced its 10 nanometer (nm) process in 2014, with plans to release it in 2016. However, the company faced manufacturing issues and delayed the release of the first 10 nm

microprocessor, Cannon Lake, to 2018. According to most tech reviews in 2017, the Intel Core i7-7700K was considered the fastest and most powerful x86 CPU chip, particularly for gaming and high-performance applications, with its strong single-thread performance and overclocking capabilities; however, for users seeking more cores and threads at a slightly lower price point, the AMD Ryzen 7 1700 was a strong competitor.

But in 2023, **AMD's Ryzen 7 7800X3D** was rated as both the best AMD CPU for gaming and the fastest gaming CPU in the world. That is still true in 2024. Ryzen 7 7800X3D has **96 MB** of L3 cache and operates at 4.2 GHz by default, but can boost up to 5 GHz, depending on the workload. AMD is making the Ryzen 7 7800X3D on a 5 nm production node using 11.270 Billion transistors. The silicon die of the chip is not fabricated at AMD, but at the foundry of TSMC.

There is that four letter abbreviation again. TSMC or Taiwan Semiconductor Manufacturing Company, The company that is king of the hill when it comes to making the tiniest, fastest, densest, highest tech ICs in the world. Even Intel has to have some of their chips that require the latest tech be made by TSMC.

Intel has used a numbering scheme each successive generation of its CPUs. The last being the 14xxx series this year. The latest/newest generation released in Oct. 24, is being referred to as the Core Ultra series.

Intel Core Ultra processors are designed to offer a balance of performance and power efficiency for a variety of tasks, including AI, gaming, and content creation. Here are some things to know about Intel Core Ultra processors:

AI capabilities

Intel Core Ultra processors feature built-in AI capabilities, including a neural processing unit (NPU) that accelerates AI workloads.

Power efficiency

Intel Core Ultra processors use dynamic power management to adjust voltage and frequency based on workload, which can reduce power usage and heat. I find it interesting to think about what that requires. Namely, a computer inside your computer that monitors and controls the computer that you are using to accomplish, say a spreadsheet that needs computing.

Integrated graphics

Intel Core Ultra processors may include an Intel Arc GPU for discrete-level graphics.

Applications

Intel Core Ultra processors are suitable for applications such as AI-enhanced video editing and multitasking with AI-accelerated software.

Mobile and desktop

Intel Core Ultra processors are available for both mobile and desktop use. The Intel Core Ultra 200S desktop processors, codenamed Arrow Lake-S, were released on October 10, 2024. The Intel Core Ultra 200V mobile processors, codenamed Lunar Lake, offer improved power efficiency, core performance, and graphics compared to the previous generation.

Intel Core Ultra 9 285K top of the line Specs
Cost: $629.99 at Newegg, Mid range MoBo ~$500+
Core Count 24 Thread Count 24 (no hyperthreading)
Base Clock Frequency 3.7 GHz
Maximum Boost Clock 5.7 GHz
Socket Compatibility Intel LGA1851
Lithography 3 nm L3 Cache Amount 36 MB
Thermal Design Power (TDP) Rating 250 watts
Integrated Graphics Intel Xe LPG
Integrated Graphics Base Clock 2000 MHz
Bundled Cooler - **None.** That means another $100 to $300+ air or liquid cooler.
So the latest, greatest Intel CPU (TSMC 3nm process) is a bit faster than the best 2 year AMD chips on the TSMC 5nm process. My ancient I5-3500K is still OK.

A LITTLE HUMOR

Tim decided to tie the knot with his long time girlfriend. One evening, after the honeymoon, he was organizing his golfing equipment. His wife was standing nearby watching him. After a long period of silence she finally speaks: "Tim, I've been thinking, now that we're married maybe it's time you quit golfing. You spend so much time on the course. You could probably get a good price for your clubs."
Tim gets this horrified look on his face.
She says, "Darling, what's wrong?"
"For a minute there you were beginning to sound like my ex-wife."
"Ex-wife!" she screams, "I didn't know you were married before!"
"I wasn't," he replied.

A tough old cowboy from Texas counseled his granddaughter that if she wanted to live a long life, the secret was to sprinkle a pinch of gun powder on her oatmeal every morning.
The granddaughter did this religiously until the age of 103, when she died.
She left behind 14 children, 30 grandchildren, 45 great-grandchildren, 25 great-great-grandchildren, and a 40-foot hole where the crematorium used to be.

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To All Members:

The line above your mailing address now shows your joindate. Please use your join month to choose when to renew your membership.

Dated Material – Please deliver ASAP

Membership Level ($)	1 Year	3 Years
Individual Member	35	90
Each Additional Family Member	15	40
Full-Time* Enrolled College Student	20	
Enrolled High School Student	15	
*Minimum 12 Semester Hours		
Business Member + Ad (Business Card)	25	
Business Member + Ad (¼ Page, ½ Page)	65,	100
Business Member + Ad (Full Page)	175	
Contributing Member	75	
Supporting Member	100	
Advocate Member	250	
Patron Member	500	

Directions to the NOCCC meeting location

apcug An International Association of Technology & Computer User Groups

Enter CA-55 N (Costa Mesa Freeway) crossing Interstate 5 toward Anaheim/Riverside for 9 miles. *Notice freeway and street signs stating "Chapman University."* Exit toward E Chapman Ave. Turn right onto N Tustin St. Turn left onto E Walnut Ave.

1) Turn left past N. Center St. for the **best place to park** in the underground parking structure (Lastinger under the sports field). Pay the small fee ($2) to park Ask members or help@noccc.org about parking details, restrictions, and our price break!

2) Turn left onto N Center St. On the right is the Hashinger Science Center, 346 N Center St. Orange California. Parking on the University side is free. Parking on the residential side is a city violation that may cost you a **tow away and a ticket!**