CA-NETWORK .

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Q. Identify a real-world application for both parallel computing and networked System. Explain how these technologies are used and why these are important in that context.

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Real-world application for parallel computing.

* Smartphone: Smartphones relyon rely on parallel processing to accomplish their tasks faster and more efficiently.

* Laptop computers: Today's most powerfull laptops — MacBooks, ChromeBooks, and ThinkPade

— use chips with mutiple processing cores, a fundation of parallesim.

* Internet of Things: The Internet of Things (IOT) relies on data that is collected from sensors which are connected to the internet. Once that data has been collected, parallel computing is required to analyze it for insights and help complex system, such as power polants, dams and traffic systems, function.

* Super computers: It rely so so heavily on parallel computing that they are often called parallel computer.

Real-world application of networked System.

* **Email and Instant Messaging:** Networks are the foundation for sending and receiving email and instant messaging.

* **Video Conferencing:** Facilites real-time video and audio communication for meeting and collaborations.

* **File Sharing:** Allows user to share documents, presentations and other files with other over the networks.

* **Web Browsing:** Enables access to information and services on the internet through web browers.

* **Network Monitoring:** Monitoring networking traffic and device health to detect potential

security threats and performance issues.

Healthcare: Networked systems are crucial for patient monitoring, medical device connectivity, and secure data storage is hospitals and healthcare facilities.