

DHRUV64

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DHRUV64 Latest News

Recently, India unveiled its first fully indigenously developed microprocessor DHRUV64.

About DHRUV64

- It is a **fully indigenously developed microprocessor** of India.
- It is developed by the **Centre for Development of Advanced Computing** (C-DAC) under the **Microprocessor Development Programme** (MDP).

Key Features of DHRUV64

- **Processor Core & Speed:** It is a **64-bit dual-core processor running at 1.0 GHz**, giving it the ability to handle multiple tasks smoothly.
- **Execution Method:** It uses **superscalar execution**, which allows the processor to start more than one instruction in the same moment for better speed.

- **Instruction Handling:** It supports **out-of-order processing**, meaning it can complete instructions that are ready first, improving overall efficiency.
- **Packaging & Integration:** It includes **built-in communication** and control functions inside an advanced **FCBGA package**, making the chip **compact and ready for use in many systems**.

Potential Application of DHRUV64

- It is capable of supporting **strategic and commercial applications**.
- DHRUV64 is suitable for sectors such as **5G infrastructure, automotive systems**, consumer electronics, industrial automation and the **Internet of Things (IoT)**.
- It provides homegrown microprocessor technology designed for startups, academia, and industry to build, test, and scale indigenous computing products without relying on foreign processors.
- DHRUV64 **supports prototype development** for new system architectures at lower cost.

Source: PIB

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