

COMPUTER ORGANIZATION AND ARCHITECTURE INTERVIEW QUESTIONS AND ANSWERS

COMPUTER ORGANIZATION AND ARCHITECTURE INTERVIEW QUESTIONS AND ANSWERS ARE ESSENTIAL FOR CANDIDATES PREPARING FOR TECHNICAL ROLES IN COMPUTER ENGINEERING, SOFTWARE DEVELOPMENT, AND IT FIELDS. UNDERSTANDING THE FUNDAMENTAL CONCEPTS OF COMPUTER ORGANIZATION AND ARCHITECTURE IS CRITICAL FOR PERFORMING WELL IN INTERVIEWS FOCUSED ON HARDWARE DESIGN, SYSTEM PROGRAMMING, AND PERFORMANCE OPTIMIZATION. THIS ARTICLE PROVIDES A COMPREHENSIVE SET OF COMMONLY ASKED QUESTIONS AND DETAILED ANSWERS THAT COVER CORE TOPICS SUCH AS CPU DESIGN, MEMORY HIERARCHY, INSTRUCTION SETS, AND INPUT/OUTPUT SYSTEMS. BY EXPLORING THESE TOPICS, JOB SEEKERS CAN BUILD CONFIDENCE AND DEMONSTRATE THEIR EXPERTISE IN BOTH THEORETICAL CONCEPTS AND PRACTICAL APPLICATIONS. THE FOLLOWING SECTIONS INCLUDE QUESTIONS GROUPED BY THEMATIC AREAS, MAKING IT EASIER TO FOCUS ON SPECIFIC SUBFIELDS WITHIN COMPUTER ORGANIZATION AND ARCHITECTURE. THE CONTENT IS OPTIMIZED FOR SEARCH ENGINES AND STRUCTURED FOR CLARITY, ENSURING A VALUABLE RESOURCE FOR INTERVIEW PREPARATION.

- BASIC CONCEPTS OF COMPUTER ORGANIZATION AND ARCHITECTURE
- PROCESSOR AND INSTRUCTION SET ARCHITECTURE
- MEMORY ORGANIZATION AND HIERARCHY
- INPUT/OUTPUT SYSTEMS AND PERIPHERALS
- PERFORMANCE AND OPTIMIZATION TECHNIQUES

BASIC CONCEPTS OF COMPUTER ORGANIZATION AND ARCHITECTURE

THIS SECTION INTRODUCES THE FOUNDATIONAL IDEAS BEHIND COMPUTER ORGANIZATION AND ARCHITECTURE, EXPLAINING THEIR SIGNIFICANCE AND THE DISTINCTIONS BETWEEN THEM. UNDERSTANDING THESE BASICS IS CRUCIAL FOR GRASPING HOW COMPUTERS FUNCTION AT BOTH HARDWARE AND SYSTEM LEVELS.

WHAT IS COMPUTER ORGANIZATION?

COMPUTER ORGANIZATION REFERS TO THE OPERATIONAL UNITS AND THEIR INTERCONNECTIONS THAT REALIZE THE ARCHITECTURAL SPECIFICATIONS. IT FOCUSES ON HOW HARDWARE COMPONENTS SUCH AS THE PROCESSOR, MEMORY, AND INPUT/OUTPUT DEVICES ARE LINKED AND OPERATE TOGETHER TO EXECUTE INSTRUCTIONS.

WHAT IS COMPUTER ARCHITECTURE?

COMPUTER ARCHITECTURE DEFINES THE ATTRIBUTES VISIBLE TO THE PROGRAMMER, SUCH AS THE INSTRUCTION SET, DATA FORMATS, ADDRESSING MODES, AND HARDWARE MECHANISMS THAT AFFECT THE SYSTEM'S PROGRAMMING MODEL AND PERFORMANCE. IT SERVES AS A BLUEPRINT FOR DESIGNING THE SYSTEM'S STRUCTURE.

DIFFERENCE BETWEEN COMPUTER ORGANIZATION AND ARCHITECTURE

THE PRIMARY DIFFERENCE LIES IN THEIR FOCUS: COMPUTER ARCHITECTURE INVOLVES THE LOGICAL ASPECTS VISIBLE TO PROGRAMMERS, WHILE COMPUTER ORGANIZATION DEALS WITH THE PHYSICAL IMPLEMENTATION AND OPERATIONAL DETAILS. ARCHITECTURE IS ABOUT DESIGN PRINCIPLES, WHEREAS ORGANIZATION CONCERNS ACTUAL HARDWARE ARRANGEMENT.

KEY COMPONENTS OF A COMPUTER SYSTEM

A TYPICAL COMPUTER SYSTEM CONSISTS OF SEVERAL COMPONENTS THAT WORK TOGETHER TO PERFORM COMPUTING TASKS. THESE INCLUDE:

- **CENTRAL PROCESSING UNIT (CPU):** EXECUTES INSTRUCTIONS AND PROCESSES DATA.
- **MEMORY:** STORES DATA AND INSTRUCTIONS TEMPORARILY OR PERMANENTLY.
- **INPUT/OUTPUT DEVICES:** FACILITATE COMMUNICATION BETWEEN THE COMPUTER AND EXTERNAL WORLD.
- **SYSTEM BUS:** TRANSFERS DATA BETWEEN CPU, MEMORY, AND PERIPHERALS.

PROCESSOR AND INSTRUCTION SET ARCHITECTURE

THIS SECTION COVERS QUESTIONS RELATED TO THE DESIGN AND FUNCTIONING OF THE PROCESSOR, FOCUSING ON THE INSTRUCTION SET ARCHITECTURE (ISA) THAT DEFINES HOW SOFTWARE CONTROLS HARDWARE OPERATIONS.

WHAT IS THE ROLE OF THE CPU IN A COMPUTER SYSTEM?

THE CPU IS THE BRAIN OF THE COMPUTER, RESPONSIBLE FOR FETCHING, DECODING, EXECUTING INSTRUCTIONS, AND MANAGING DATA FLOW WITHIN THE SYSTEM. IT CONSISTS OF KEY COMPONENTS LIKE THE ARITHMETIC LOGIC UNIT (ALU), CONTROL UNIT, AND REGISTERS.

EXPLAIN THE INSTRUCTION CYCLE

THE INSTRUCTION CYCLE CONSISTS OF SEVERAL STAGES: FETCH, DECODE, EXECUTE, AND STORE. DURING FETCH, THE CPU RETRIEVES THE INSTRUCTION FROM MEMORY. DECODE INTERPRETS THE INSTRUCTION TO UNDERSTAND THE REQUIRED OPERATION. EXECUTE PERFORMS THE OPERATION, AND STORE WRITES THE RESULT BACK INTO MEMORY OR REGISTERS.

WHAT IS AN INSTRUCTION SET ARCHITECTURE (ISA)?

ISA IS A SET OF INSTRUCTIONS THAT A PROCESSOR CAN EXECUTE. IT DEFINES THE SUPPORTED OPERATIONS, DATA TYPES, REGISTERS, ADDRESSING MODES, AND THE INSTRUCTION FORMAT. EXAMPLES INCLUDE RISC (REDUCED INSTRUCTION SET COMPUTER) AND CISC (COMPLEX INSTRUCTION SET COMPUTER) ARCHITECTURES.

DIFFERENCE BETWEEN RISC AND CISC ARCHITECTURES

THE MAIN DIFFERENCE LIES IN INSTRUCTION COMPLEXITY AND SIZE. RISC ARCHITECTURES USE A SMALL SET OF SIMPLE INSTRUCTIONS THAT EXECUTE QUICKLY, PROMOTING PIPELINE EFFICIENCY. CISC ARCHITECTURES HAVE A LARGER SET OF MORE COMPLEX INSTRUCTIONS THAT CAN EXECUTE MULTI-STEP OPERATIONS WITHIN A SINGLE INSTRUCTION.

WHAT ARE REGISTERS AND THEIR TYPES?

REGISTERS ARE SMALL, FAST STORAGE LOCATIONS WITHIN THE CPU USED TO HOLD DATA AND INSTRUCTIONS TEMPORARILY. COMMON TYPES INCLUDE:

- **GENERAL-PURPOSE REGISTERS:** USED FOR ARITHMETIC AND DATA MANIPULATION.

- **SPECIAL-PURPOSE REGISTERS:** INCLUDE THE PROGRAM COUNTER (PC), STACK POINTER (SP), AND STATUS REGISTER (FLAGS).

MEMORY ORGANIZATION AND HIERARCHY

MEMORY PLAYS A VITAL ROLE IN COMPUTER PERFORMANCE. THIS SECTION ADDRESSES QUESTIONS ABOUT MEMORY TYPES, ORGANIZATION, AND HOW MEMORY HIERARCHY IMPROVES SPEED AND EFFICIENCY.

WHAT IS MEMORY HIERARCHY?

MEMORY HIERARCHY ORGANIZES DIFFERENT TYPES OF MEMORY BASED ON SPEED, COST, AND SIZE, RANGING FROM FAST AND EXPENSIVE REGISTERS TO SLOWER AND CHEAPER SECONDARY STORAGE. THIS STRUCTURE AIMS TO MAXIMIZE PERFORMANCE WHILE MINIMIZING COST.

EXPLAIN CACHE MEMORY AND ITS IMPORTANCE

CACHE MEMORY IS A SMALL, HIGH-SPEED MEMORY LOCATED CLOSE TO THE CPU THAT STORES FREQUENTLY ACCESSED DATA AND INSTRUCTIONS TO REDUCE ACCESS TIME. IT IMPROVES OVERALL SYSTEM PERFORMANCE BY MINIMIZING DELAYS CAUSED BY SLOWER MAIN MEMORY ACCESS.

TYPES OF MEMORY IN A COMPUTER SYSTEM

COMMON TYPES OF MEMORY INCLUDE:

- **REGISTERS:** FASTEST STORAGE INSIDE THE CPU.
- **CACHE:** SMALL, FAST MEMORY BETWEEN CPU AND MAIN MEMORY.
- **MAIN MEMORY (RAM):** STORES DATA AND PROGRAMS CURRENTLY IN USE.
- **SECONDARY STORAGE:** PERSISTENT STORAGE SUCH AS HARD DRIVES AND SSDs.
- **VIRTUAL MEMORY:** USES DISK STORAGE TO EXTEND MAIN MEMORY CAPACITY.

WHAT IS ADDRESSING MODE?

ADDRESSING MODES DETERMINE HOW THE EFFECTIVE ADDRESS OF AN OPERAND IS CALCULATED DURING INSTRUCTION EXECUTION. COMMON MODES INCLUDE IMMEDIATE, DIRECT, INDIRECT, REGISTER, AND INDEXED ADDRESSING.

INPUT/OUTPUT SYSTEMS AND PERIPHERALS

THIS SECTION EXPLORES QUESTIONS RELATED TO INPUT/OUTPUT MECHANISMS, INTERFACES, AND HOW PERIPHERALS INTERACT WITH THE COMPUTER SYSTEM TO ENABLE USER COMMUNICATION AND DATA TRANSFER.

WHAT IS AN I/O DEVICE?

AN INPUT/OUTPUT DEVICE ALLOWS THE COMPUTER TO COMMUNICATE WITH THE EXTERNAL ENVIRONMENT. INPUT DEVICES PROVIDE DATA TO THE COMPUTER, WHILE OUTPUT DEVICES PRESENT PROCESSED DATA TO USERS.

EXPLAIN INTERRUPTS AND THEIR TYPES

INTERRUPTS ARE SIGNALS THAT TEMPORARILY HALT THE CPU'S CURRENT ACTIVITIES TO ATTEND TO URGENT TASKS. TYPES OF INTERRUPTS INCLUDE HARDWARE INTERRUPTS, SOFTWARE INTERRUPTS, AND TIMER INTERRUPTS, EACH SERVING DIFFERENT PURPOSES TO MANAGE SYSTEM RESPONSIVENESS.

WHAT IS DIRECT MEMORY ACCESS (DMA)?

DMA IS A FEATURE THAT ALLOWS INPUT/OUTPUT DEVICES TO TRANSFER DATA DIRECTLY TO OR FROM MEMORY WITHOUT INVOLVING THE CPU, THEREBY IMPROVING DATA TRANSFER EFFICIENCY AND FREEING THE CPU FOR OTHER TASKS.

TYPES OF I/O TECHNIQUES

COMMON INPUT/OUTPUT TECHNIQUES INCLUDE:

- **PROGRAMMED I/O:** THE CPU ACTIVELY CONTROLS DATA TRANSFER BY POLLING THE DEVICE STATUS.
- **INTERRUPT-DRIVEN I/O:** DEVICES INTERRUPT THE CPU WHEN READY FOR DATA TRANSFER.
- **DIRECT MEMORY ACCESS (DMA):** DATA IS TRANSFERRED DIRECTLY BETWEEN I/O DEVICES AND MEMORY.

PERFORMANCE AND OPTIMIZATION TECHNIQUES

UNDERSTANDING HOW TO IMPROVE COMPUTER SYSTEM PERFORMANCE IS CRUCIAL IN BOTH DESIGN AND INTERVIEW CONTEXTS. THIS SECTION DISCUSSES TECHNIQUES AND ARCHITECTURAL FEATURES AIMED AT ENHANCING SPEED AND EFFICIENCY.

WHAT IS PIPELINING IN CPU?

PIPELINING IS A TECHNIQUE WHERE MULTIPLE INSTRUCTION STAGES ARE OVERLAPPED TO IMPROVE CPU THROUGHPUT. EACH STAGE PROCESSES A DIFFERENT INSTRUCTION SIMULTANEOUSLY, REDUCING THE TOTAL EXECUTION TIME FOR INSTRUCTION SEQUENCES.

EXPLAIN HAZARDS IN PIPELINING

HAZARDS ARE ISSUES THAT PREVENT THE NEXT INSTRUCTION IN THE PIPELINE FROM EXECUTING DURING ITS DESIGNATED CLOCK CYCLE. TYPES OF HAZARDS INCLUDE DATA HAZARDS, CONTROL HAZARDS, AND STRUCTURAL HAZARDS, EACH REQUIRING SPECIFIC SOLUTIONS TO MAINTAIN PIPELINE EFFICIENCY.

WHAT IS PARALLEL PROCESSING?

PARALLEL PROCESSING INVOLVES EXECUTING MULTIPLE INSTRUCTIONS OR TASKS SIMULTANEOUSLY USING MULTIPLE PROCESSING

UNITS. THIS APPROACH INCREASES COMPUTATIONAL SPEED AND SYSTEM THROUGHPUT, COMMONLY USED IN MULTI-CORE PROCESSORS AND DISTRIBUTED SYSTEMS.

METHODS TO OPTIMIZE MEMORY ACCESS

MEMORY ACCESS OPTIMIZATION TECHNIQUES INCLUDE:

- **CACHE OPTIMIZATION:** USING CACHE TO REDUCE MEMORY LATENCY.
- **PREFETCHING:** LOADING DATA INTO CACHE BEFORE IT IS NEEDED.
- **MEMORY INTERLEAVING:** DISTRIBUTING MEMORY ADDRESSES ACROSS MULTIPLE MODULES TO INCREASE BANDWIDTH.
- **USE OF VIRTUAL MEMORY:** EFFICIENTLY MANAGING THE ADDRESS SPACE AND ENABLING MULTITASKING.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE DIFFERENCE BETWEEN VON NEUMANN AND HARVARD ARCHITECTURE?

VON NEUMANN ARCHITECTURE USES A SINGLE MEMORY SPACE FOR BOTH INSTRUCTIONS AND DATA, WHEREAS HARVARD ARCHITECTURE USES SEPARATE MEMORY SPACES FOR INSTRUCTIONS AND DATA, ALLOWING SIMULTANEOUS ACCESS WHICH CAN IMPROVE PERFORMANCE.

CAN YOU EXPLAIN WHAT PIPELINING IS IN COMPUTER ARCHITECTURE?

PIPELINING IS A TECHNIQUE WHERE MULTIPLE INSTRUCTION PHASES ARE OVERLAPPED IN EXECUTION TO IMPROVE CPU THROUGHPUT. EACH STAGE OF THE PIPELINE PROCESSES A PART OF AN INSTRUCTION, ALLOWING MULTIPLE INSTRUCTIONS TO BE PROCESSED SIMULTANEOUSLY.

WHAT ARE THE PRIMARY COMPONENTS OF A CPU?

THE PRIMARY COMPONENTS OF A CPU ARE THE ARITHMETIC LOGIC UNIT (ALU), CONTROL UNIT (CU), REGISTERS, AND CACHE MEMORY. THE ALU PERFORMS ARITHMETIC AND LOGICAL OPERATIONS, THE CU DIRECTS OPERATIONS, REGISTERS STORE DATA TEMPORARILY, AND CACHE PROVIDES FAST MEMORY ACCESS.

EXPLAIN THE CONCEPT OF MEMORY HIERARCHY AND ITS IMPORTANCE.

MEMORY HIERARCHY ORGANIZES DIFFERENT TYPES OF MEMORY BASED ON SPEED, COST, AND SIZE. IT TYPICALLY INCLUDES REGISTERS, CACHE, MAIN MEMORY, AND SECONDARY STORAGE. THIS HIERARCHY OPTIMIZES PERFORMANCE BY KEEPING FREQUENTLY ACCESSED DATA IN FASTER MEMORY.

WHAT IS THE DIFFERENCE BETWEEN RISC AND CISC ARCHITECTURES?

RISC (REDUCED INSTRUCTION SET COMPUTER) USES A SMALL SET OF SIMPLE INSTRUCTIONS THAT CAN EXECUTE QUICKLY, WHILE CISC (COMPLEX INSTRUCTION SET COMPUTER) HAS A LARGER SET OF MORE COMPLEX INSTRUCTIONS THAT CAN EXECUTE MULTIPLE LOW-LEVEL OPERATIONS IN A SINGLE INSTRUCTION.

HOW DOES CACHE MEMORY IMPROVE SYSTEM PERFORMANCE?

CACHE MEMORY STORES FREQUENTLY ACCESSED INSTRUCTIONS AND DATA CLOSE TO THE CPU, REDUCING THE AVERAGE TIME

TO ACCESS DATA FROM THE MAIN MEMORY. THIS MINIMIZES LATENCY AND IMPROVES OVERALL SYSTEM SPEED.

WHAT IS INSTRUCTION SET ARCHITECTURE (ISA)?

ISA IS THE PART OF THE PROCESSOR THAT IS VISIBLE TO THE PROGRAMMER. IT DEFINES THE SET OF INSTRUCTIONS, DATA TYPES, REGISTERS, ADDRESSING MODES, AND THE HARDWARE SUPPORT FOR MANAGING MEMORY AND I/O OPERATIONS.

ADDITIONAL RESOURCES

1. *COMPUTER ORGANIZATION AND ARCHITECTURE INTERVIEW QUESTIONS AND ANSWERS*

THIS BOOK PROVIDES A COMPREHENSIVE COLLECTION OF COMMONLY ASKED INTERVIEW QUESTIONS AND DETAILED ANSWERS RELATED TO COMPUTER ORGANIZATION AND ARCHITECTURE. IT COVERS FUNDAMENTAL CONCEPTS SUCH AS CPU DESIGN, MEMORY HIERARCHY, INSTRUCTION SETS, AND PIPELINING. IDEAL FOR FRESHERS AND EXPERIENCED PROFESSIONALS PREPARING FOR TECHNICAL INTERVIEWS IN HARDWARE AND SYSTEMS ROLES.

2. *CRACKING THE CODING INTERVIEW: COMPUTER ARCHITECTURE EDITION*

FOCUSED SPECIFICALLY ON COMPUTER ARCHITECTURE TOPICS, THIS EDITION OFFERS A BLEND OF THEORY AND PRACTICAL INTERVIEW PROBLEMS. IT INCLUDES EXPLANATIONS OF CORE CONCEPTS LIKE CACHE DESIGN, PARALLEL PROCESSING, AND MICROARCHITECTURE ALONG WITH PROBLEM-SOLVING STRATEGIES. THE BOOK IS DESIGNED TO HELP CANDIDATES BUILD A STRONG CONCEPTUAL FOUNDATION WHILE PRACTICING REAL-WORLD INTERVIEW QUESTIONS.

3. *INTERVIEW QUESTIONS ON COMPUTER ORGANIZATION AND ARCHITECTURE*

A TARGETED GUIDEBOOK THAT COMPILES HUNDREDS OF QUESTIONS AND ANSWERS ON THE ESSENTIAL TOPICS OF COMPUTER ORGANIZATION AND ARCHITECTURE. IT THOROUGHLY EXPLAINS SUBJECTS SUCH AS INSTRUCTION CYCLE, MEMORY MANAGEMENT, AND CONTROL UNITS. THIS RESOURCE IS PERFECT FOR QUICK REVISION AND MASTERING CONCEPTS BEFORE TECHNICAL INTERVIEWS.

4. *COMPUTER ARCHITECTURE AND ORGANIZATION: INTERVIEW PREP GUIDE*

THIS GUIDE FOCUSES ON CLARIFYING THE KEY PRINCIPLES OF COMPUTER ARCHITECTURE AND ORGANIZATION THROUGH INTERVIEW-STYLE QUESTIONS AND CONCISE ANSWERS. TOPICS INCLUDE PROCESSOR DESIGN, DATA PATHS, INSTRUCTION SETS, AND PERFORMANCE METRICS. THE BOOK ALSO OFFERS TIPS ON HOW TO APPROACH COMPLEX QUESTIONS CONFIDENTLY DURING INTERVIEWS.

5. *ESSENTIAL COMPUTER ORGANIZATION AND ARCHITECTURE INTERVIEW QUESTIONS*

COVERING A BROAD RANGE OF INTERVIEW QUESTIONS, THIS BOOK IS DESIGNED TO HELP CANDIDATES UNDERSTAND BOTH THEORETICAL AND PRACTICAL ASPECTS OF COMPUTER ARCHITECTURE. IT ADDRESSES AREAS LIKE MEMORY HIERARCHY, INSTRUCTION PIPELINING, AND I/O SYSTEMS IN AN EASY-TO-UNDERSTAND MANNER. THE EXPLANATIONS HELP BRIDGE THE GAP BETWEEN ACADEMIC KNOWLEDGE AND INDUSTRY EXPECTATIONS.

6. *COMPUTER ORGANIZATION AND ARCHITECTURE: QUESTIONS AND ANSWERS FOR INTERVIEWS*

THIS RESOURCE PROVIDES CLEAR, STRAIGHTFORWARD ANSWERS TO FREQUENTLY ASKED INTERVIEW QUESTIONS ON COMPUTER ORGANIZATION AND ARCHITECTURE. IT INCLUDES DETAILED DISCUSSIONS ON CPU STRUCTURE, ADDRESSING MODES, AND CONTROL SIGNALS. THE BOOK IS USEFUL FOR STUDENTS AND PROFESSIONALS AIMING TO STRENGTHEN THEIR TECHNICAL INTERVIEW SKILLS.

7. *MASTERING COMPUTER ARCHITECTURE INTERVIEW QUESTIONS*

A COMPREHENSIVE BOOK THAT DIVES DEEP INTO THE DESIGN AND FUNCTIONING OF COMPUTER SYSTEMS THROUGH INTERVIEW QUESTIONS. IT COVERS ADVANCED TOPICS SUCH AS SUPERSCALAR PROCESSORS, MEMORY COHERENCE, AND RISC VS CISC ARCHITECTURES. THE BOOK ALSO FEATURES PRACTICAL EXAMPLES AND EXERCISES TO ENHANCE PROBLEM-SOLVING ABILITIES.

8. *TOP INTERVIEW QUESTIONS ON COMPUTER ORGANIZATION AND ARCHITECTURE*

THIS BOOK COMPILES THE MOST FREQUENTLY ASKED QUESTIONS IN INTERVIEWS RELATED TO COMPUTER ORGANIZATION AND ARCHITECTURE. IT INCLUDES DETAILED EXPLANATIONS OF CONCEPTS LIKE INSTRUCTION FORMATS, MICROPROGRAMMING, AND PERFORMANCE OPTIMIZATION. THE CONTENT IS IDEAL FOR QUICK PREPARATION AND REVIEW BEFORE TECHNICAL ROUNDS.

9. *COMPUTER ORGANIZATION & ARCHITECTURE INTERVIEW QUESTIONS MADE EASY*

DESIGNED FOR EASY UNDERSTANDING, THIS BOOK BREAKS DOWN COMPLEX TOPICS INTO SIMPLE QUESTIONS AND ANSWERS. IT

COVERS ESSENTIAL AREAS SUCH AS CPU OPERATIONS, MEMORY SYSTEMS, AND INPUT/OUTPUT MECHANISMS WITH ILLUSTRATIVE EXAMPLES. SUITABLE FOR BEGINNERS AND PROFESSIONALS ALIKE, IT HELPS BUILD CONFIDENCE FOR INTERVIEWS IN THE COMPUTER HARDWARE DOMAIN.

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