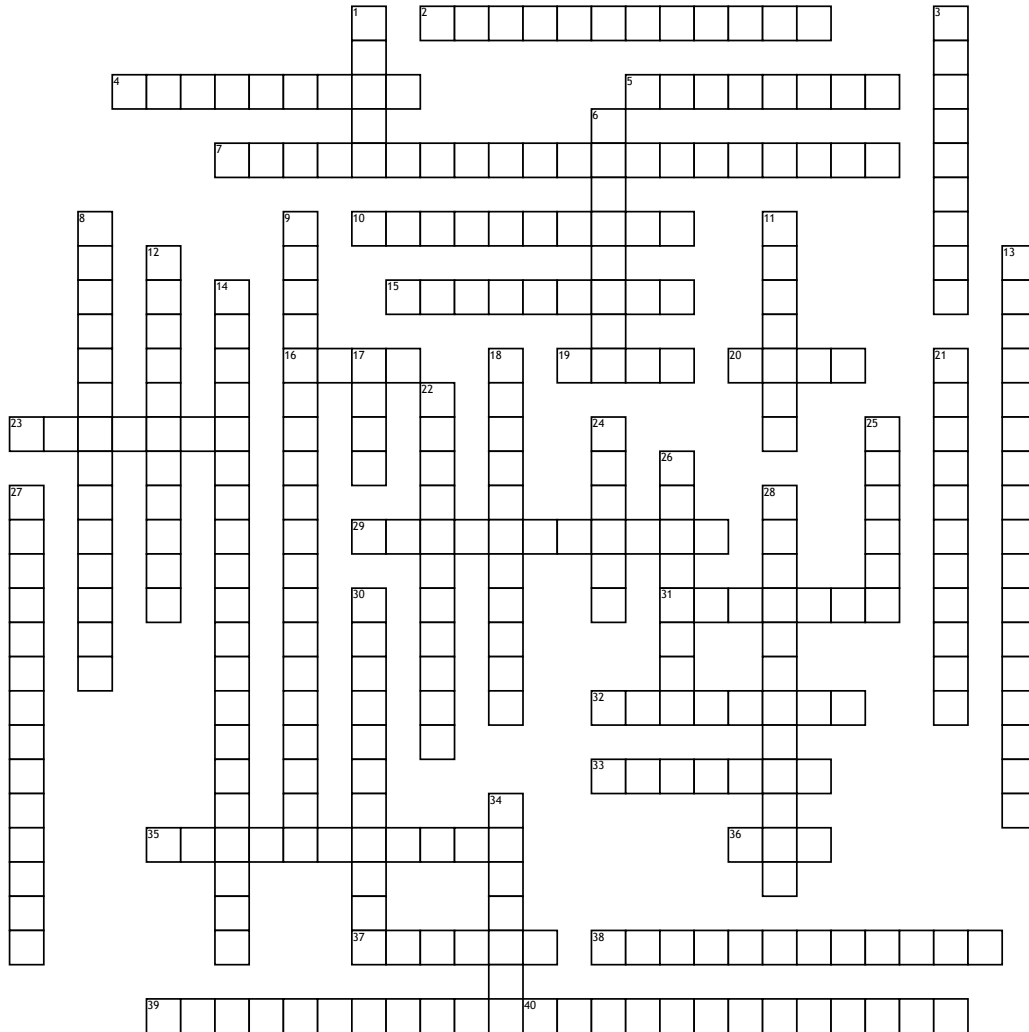


EC_Chpt 2a_CWP



Across

- 2. Circuitry that connects the CPU & RAM
- 4. _____ is the maximum available communication rate
- 5. Directs specifically where you are to jump within a program is called _____ addressing
- 7. Machine Instruction types that perform operations on bit patterns to compute new bit patterns
- 10. _____ is the actual data communication rate achieved
- 15. Every 18-24 months processing power doubles and relative cost decreases
- 16. Machine language philosophy with few, simple, fixed-length instructions
- 19. Memory that needs to be constantly refreshed to maintain a charge
- 20. Machine language philosophy with many, powerful, variable-length instructions
- 23. The 3rd step of the machine cycle, as we defined it
- 29. Co-founder of Intel
- 31. This special type of memory is always located on the processor
- 32. Directs how far you are to jump within a program is called _____ addressing

- 33. In our 2-byte machine instruction, this gives more detailed information based on the first 4 bits
- 35. Holds data / instructions that have recently been used or will be needed
- 36. Circuitry that carries data between computer components
- 37. Signals are transferred one after the other over a single "line" is called _____ communication
- 38. Special memory area located on the processor that holds data/instructions currently being used
- 39. An interface between the computer and the peripheral devices
- 40. Machine instruction types that direct the execution of the program

Down

- 1. The 1st step of the machine cycle, as we defined it
- 3. Contains the circuitry for performing comparison, testings, etc.
- 6. Converts all of your source code into object code at once
- 8. Contains the circuitry for performing arithmetic operations
- 9. A collection of primitives, along with a collection of rules, stating how the primitives can be combined to represent more complex ideas
- 11. A means of isolating particular bits within a bit pattern

- 12. The special purpose register that holds the instruction currently being executed _____ register
- 13. Machine instruction types that copies data from one location to another
- 14. Attributed to John von Neumann
- 17. Memory that maintains its charge (i.e., does not need to be refreshed)
- 18. Coordinates the computer's activities
- 21. The process of coordinating the transfer of data between the computer and the peripheral devices
- 22. Converts your source code into object code as that line is executed
- 24. The 2nd step of the machine cycle, as we defined it
- 25. In our 2-byte machine instruction, this specifies which operation to execute
- 26. Several signals transferred at the same time each on a separate "line" is called _____ communication
- 27. The special purpose register that holds the address of the next instruction
- 28. Connects the peripherals to the motherboard
- 30. Connects the CPU to cache
- 34. The rules governing how a programming statements are implemented

Word Bank

BackSideBus	ArithmeticLogicGroup	OpCode	Parallel	Absolute	GordonMoore
Instruction	StoredProgramConcept	Compiler	Bus	Relative	Decode
ControlGroups	Masking	Throughput	CISC	Control Unit	Serial
ArithmeticUnit	L1Cache	CacheMemory	DataTransferGroup	SRAM	Operand
DRAM	RegisterUnit	FrontSideBus	ProgramCounter	Controllor	LogicUnit
RISC	ProgrammingLanguage	Fetch	Bandwidth	Moore'sLaw	Handshaking
Syntax	Interpreter	ExpansionBus	Execute		