

- 1.1** **Personal computer:** Computer that emphasizes delivery of good performance to a single user at low cost and usually executes third-party software.
Server: Computer used for large workloads and usually accessed via a network.
Embedded computer: Computer designed to run one application or one set of related applications and integrated into a single system.

- 1.2**
- a. Performance via Pipelining
 - b. Dependability via Redundancy
 - c. Performance via Prediction
 - d. Make the Common Case Fast
 - e. Hierarchy of Memories
 - f. Performance via Parallelism
 - g. Use Abstraction to Simplify Design

- 1.3** The program is compiled into an assembly language program, which is itself assembled into a machine language program.

- 1.4**
- a. $1280 \times 1024 \text{ pixels} = 1,310,720 \text{ pixels} \Rightarrow 1,310,720 \times 3 = 3,932,160 \text{ bytes/frame}$.
 - b. $3,932,160 \text{ bytes} \times (8 \text{ bits/byte}) / 100\text{E6 bits/second} = 0.31 \text{ seconds}$

1.5

Desktop Processor	Year	Tech	Max. Clock Speed (GHz)	Integer IPC/core	Cores	Max. DRAM Bandwidth (GB/s)	FP Floating Point (Gflop/s)	MIPS
Westmere (i7-620)	2010	32	3.33	4	2	17.1	107	4
Ivy Bridge (i7-3770K)	2013	22	3.90	6	4	25.6	250	8
Broadwell (i7-6700K)	2015	14	4.20	8	4	34.1	269	8
Kaby Lake (i7-7700K)	2017	14	4.50	8	4	38.4	288	8
Coffee Lake (i7-9700K)	2019	14	4.90	8	8	42.7	627	12
Imp./year		20%	4%	7%	15%	15%	15%	12%
Doubles every		4 years	18 years	10 years	5 years	7 years	4 years	6 years

Solution Manual Computer Organization 6th Edition

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