

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

- Performance via Pipelining
- Dependability via Redundancy
- Performance via Prediction
- Make the Common Case Fast
- Hierarchy of Memories
- Performance via Parallelism
- 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

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

1.5

Desktop Processor	Year	Tech	Max. Clock Speed (GHz)	Integer IPC/core	Cores	Max. DRAM Bandwidth (GB/s)	FP Floating Point (GComp/s)	MBB
Westmere (i7-920)	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
MBB/year	20%		4%	7%	15%	10%	15%	12%
Doubles every	4 years		18 years	10 years	5 years	7 years	4 years	6 years

Computer Organization Design Solution Manual

**United States. National Aeronautics
and Space Administration. Scientific
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