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 × 1024 pixels = 1,310,720 pixels => 1,310,720 × 3 = 3,932,160 bytes/frame.
b. 3,932,160 bytes × (8 bits/byte) /100E6 bits/second = 0.31 seconds

1.5

Desktop Processor	Year	Tech	Max. Clock Speed (GHz)	Integer IPC/core	Cores	Max. DRAM Bandwidth (GB/s)	SP Floating Point (Gflop/s)	MIB
Westmere i7-620	2010	32	3.33	4	2	17.1	107	4
Ivy Bridge i7-3770K	2013	22	3.50	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%	10%	19%	12%
Doubles every		4 years	18 years	10 years	5 years	7 years	4 years	6 years

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