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.

$$Min\;buffer = Total\;frame = total\;number\;of\;colors = (1280 * 1024) * 3 = 3932160 \frac{bytes}{frame}$$ b.

$$Min\;time\;for\;frame\;transmission = \frac{Min\;buffer\;[bits]}{speed\;of\;transmission}$$

$$= \frac{3932160 * 8}{100\;mb} = \frac{31468208}{100000000} = 0.314\;seconds$$

1.5 a.

$$Performance = \frac{clock\;rate}{clock\;cycle\;per\;instruction} \quad P1 = \frac{3*10^9}{1.5} = 2*10^9\;instructions/sec$$

$$P2 = \frac{2.5*10^9}{1} = 2.5*10^9\;instructions/sec \quad P3 = \frac{4*10^9}{2.2} = 1.8*10^9\;instructions/sec$$ b.

$$\#\;of\;cycles = clock\;rate * execution\;time \quad P1\;cycles = 3*10^9 * 10 = 30*10^9$$

$$P2\;cycles = 2.5*10^9 * 10 = 25*10^9 \quad P3\;cycles = 4*10^9 * 10 = 40*10^9$$

c.

$$Number\;of\;instructions = \frac{\#\;of\;cycles}{clock\;cycle\;per\;instruction} \quad No.\;instructions\;(P1) = \frac{30*10^9}{1.5} = 20*10^9$$

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