# Multiple Choices Static

1. Vector processors and parallel processors increase performance by reducing \_\_\_\_\_\_\_\_\_\_\_.

A. CPU time

B. Memory time

C. Output time

D. Compilation time

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# True/False

2. Mathematical and statistical tools give us many ways to rate the overall performance of a system and its components.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# Multiple Choices Static

3. Measures of\_\_\_\_\_\_\_\_\_\_\_ indicate to us the expected behavior of the sampled system.

A. central tendency

B. Throughput

C. response time

D. Compilation time

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 636

4. It would be easy for the computer buyer if there were some way to classify systems according to a \_\_\_\_\_\_\_\_\_\_\_.

A. Metric

B. Method

C. Ranking

D. Cadre

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# True/False

5. A CPU running at double the clock speed of another is likely to give better CPU throughput.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# Multiple Choices Static

6. SPEC stands for\_\_\_\_\_\_\_\_\_\_\_.

A. System Performance Evaluation Corporation

B. Standard Performance Evaluation Computer

C. Standard Perdominant Evaluation Corporation

D. Standard Performance Evaluation Corporation

<Answer: D>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 648

7. The final collection of kernel programs is called a\_\_\_\_\_\_\_\_\_\_\_.

A. Benchmark suite.

B. Benchmark group

C. Benchmark route

D. Benchmark tree

<Answer A>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 648

8. \_\_\_\_\_\_\_\_\_\_\_ benchmarks are helpful to computer buyers whose prime concern is CPU performance.

A. TP CPU

B. SPEC’s CPU

C. CPA CPU

D. PEC’s CPU

<Answer: B>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 651

9. The \_\_\_\_\_\_\_\_\_\_\_ benchmarking suite models the activities of a wholesale product distribution company.

A. TPC-C

B. TPC-D

C. TPC-E

D. TPC-F

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 634

10. The TPC produced two benchmarks,\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_, to describe the performance of decision support systems through OLTP.

A. TPC-H,TPC-E

B. TPC-H,TPC-R

C. TPC-U,TPC-R

D. TPC-G,TPC-R

<Answer: B>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# True/False

11. Branch prediction is the process of attempting to guess the next instruction in the instruction stream.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: difficult

Page: 661

12. In branching, static prediction and fixed prediction are the same.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# Multiple Choices Static

13. \_\_\_\_\_\_\_\_\_\_\_ is an important tool for improving program performance.

A. Loop fusion

B. Loop optimization

C. Loop breaking

D. Loop triping

<Answer: B>

Topic: Performance Measurement and Analysis

Difficulty: medium

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14. A CPU needs only a few \_\_\_\_\_\_\_\_\_\_\_ to execute an instruction when all operands are in its registers.

A. Nanoseconds

B. Microseconds

C. Seconds

D. Minutes

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: easy

Page: 666

# True/False

15. Disk scheduling can be a function of either the disk controller or the host operating system.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 668

16. The elevator algorithm works much similar to how skyscraper elevators service their passengers.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 669

17. Caches with battery backups are costly.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: easy

Page: 673

# Multiple Choices Static

18. \_\_\_\_\_\_\_\_\_\_\_ is the process of removing the beginning or ending statements from a loop.

A. Loop peeling

B. Loop fusion

C. Loop optimization

D. Loop breaking

<Answer:A>

Topic: Performance Measurement and Analysis

Difficulty: difficult

Page:665

19. SSTF stands for \_\_\_\_\_\_\_\_\_\_\_.

A. Shortest seek time first

B. Shortest standard time first

C. Small seek time first

D. Shortest seek time found

<Answer:A>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 669

# True/False

20. When throughput is more important than reliability, a system may employ the write-back cache policy.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: easy

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# Multiple Choices Static

21. A computer user is most concerned with\_\_\_\_\_\_\_\_\_\_\_.

A. response time

B. Compilation time

C. Seek time

D. Lead time

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 635

# True/False

22. More time-consuming programs have greater influence on the harmonic mean.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: difficult

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# Multiple Choices Static

23. MIPS stands for \_\_\_\_\_\_\_\_\_\_\_.

A. minute of instructions per second

B. millions of instructions per sector

C. millions of instruments per second

D. millions of instructions per second

<Answer: D>

Topic: Performance Measurement and Analysis

Difficulty: easy

Page: 634

# True/False

24. Clock speed, MIPS, and FLOPS are the metrics in comparing relative performance across a line of similar computers offered by the same vendor.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# Multiple Choices Static

25. The IBM Corporation invented a benchmark to help with the design of its mainframe systems it was called as \_\_\_\_\_\_\_\_\_\_\_.

A. TP1

B. TP2

C. TP3

D. TP4

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# True/False

26. The TPC has recently improved (but not yet replaced) the TPC-C benchmark.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: difficult

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# True/False

27. Simulation is very useful for estimating the performance of systems or system configurations that only exist.

<Answer False>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# Multiple Choices Static

28. Modern processors have increasingly longer \_\_\_\_\_\_\_\_\_\_\_.

A. pipelines.

B. Queues

C. Streams

D. process

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# Multiple Choices Static

29. \_\_\_\_\_\_\_\_\_\_\_ is one method of dealing with the effects branching on pipelines.

A. Delayed branching

B. Queues branching

C. Streams branching

D. process branching

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# Multiple Choices Static

30. \_\_\_\_\_\_\_\_\_\_\_ is one way to enhance the performance of your program.

A. Operation counting

B. Branch counting

C. Looping

D. snooping

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: easy

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# Multiple Choices Static

31. \_\_\_\_\_\_\_\_\_\_\_ combines loops that use the same data items.

A. Loop fusion

B. Loop optimization

C. Loop breaking

D. Loop triping

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 664

# True/False

32. Disk utilization, the measure of the percentage of time that the disk is busy servicing I/O requests.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# Multiple Choices Static

33. \_\_\_\_\_\_\_\_\_\_\_ is moving the disk arm from the innermost track to the outermost, or vice versa

A. full-stroke seek.

B. Fool stoke seek

C. Greek seek

D. Stroke seek

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# True/False

34. Disks should not be defragmented, or reorganized, on a regular basis.

<Answer: False>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# True/False

35. Disk cache memory is usually associative memory type.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# Multiple Choices Static

36. \_\_\_\_\_\_\_\_\_\_\_ occurs when the cache is filled with data that needs no process leaving less space for useful data.

A. Cache processing

B. Cache pollution

C. Cache pollination

D. Cache polling

<Answer: B>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# True/False

37. Prefetching is conceptually similar to CPU-to-memory caching.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

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38. CPU optimization is not the only way to increase system performance.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

Page: 634

# Multiple Choices Static

39. The \_\_\_\_\_\_\_\_\_\_\_ allows us to form a mathematical expectation of throughput and to compare the relative throughput of systems or system components.

A. harmonic mean

B. Geometric mean

C. Arithmetic mean

D. Median mean

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# True/False

40. A rhetorical logic, this is called the argumentum ad verecundiam.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

# Multiple Choices Static

41. Three of the best known synthetic benchmarks are the \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_.

A. Wheatstone, Linpack, and Dhrystone metrics.

B. Whetstone, Linpack, and Dhrystone metrics.

C. Whetstone, Linpad, and Dhrystone metrics.

D. Whetstone, Linpack, and Drystone metrics.

<Answer: B>

Topic: Performance Measurement and Analysis

Difficulty: difficult

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# True/False

42. TPC-A is now in the fifth version of its third major revision, TPC-C Version 5.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# Multiple Choices Static

43. The \_\_\_\_\_\_\_\_\_\_\_ benchmark simulates an online brokerage.

A. TPC-C

B. TPC-D

C. TPC-E

D. TPC-F

<Answer: C>

Topic: Performance Measurement and Analysis

Difficulty: medium

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# True/False

44. One of the major challenges of system simulation lies in determining the characteristics of the workload.

<Answer: True>

Topic: Performance Measurement and Analysis

Difficulty: medium

# Multiple Choices Static

45. \_\_\_\_\_\_\_\_\_\_\_ gather detailed behavior information using hardware or software probes into the activity of the component of interest.

A. System traces

B. System drives

C. System trap

D. System process

<Answer: A>

Topic: Performance Measurement and Analysis

Difficulty: easy

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