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HP 10390A System Performance Analysis Software

Technical Data

Performance Characteristics

HP 10390A

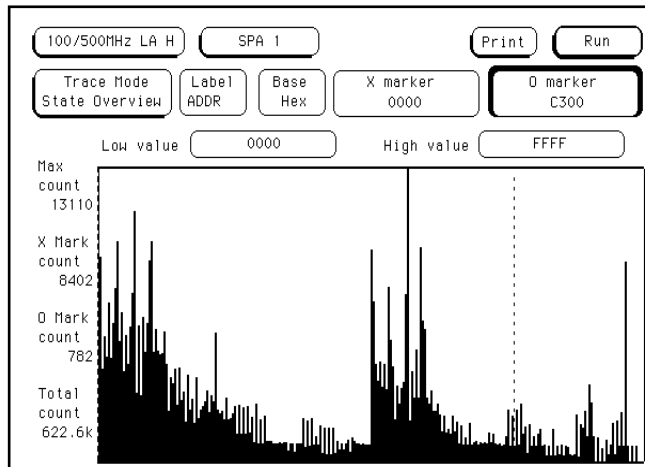
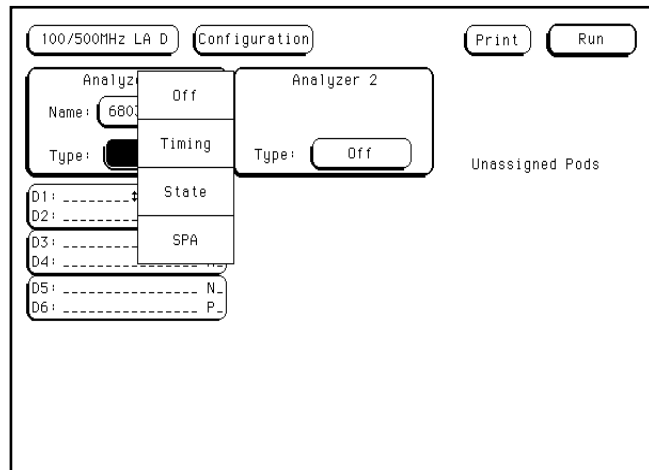
Option	Model
004	HP 16550A
005	HP 1660 Series
006	HP 16554A/555A/556A

System Performance Analysis (SPA) software lets you identify and isolate performance bottlenecks. The 10390A SPA package includes State Histogram, State Overview, and Time Interval measurements to aid in the optimization process.

The software runs in an HP logic analyzer and provides a statistical overview of your synchronous design.

State Overview

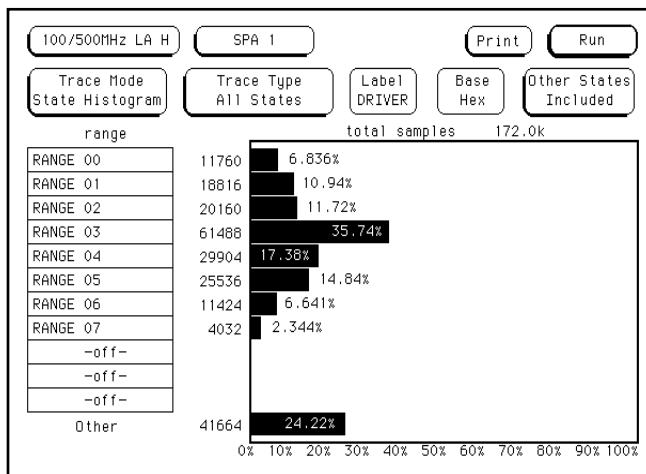
Channels are grouped together and given a unique label name. For each label, SPA graphically displays how often possible state values are present. State overview mode can be used to evaluate memory utilization, such as illegal access in protected portions of memory, and locality of execution.



State Histogram:

Segment a label into up to 10 range state-value buckets and compare relative activities. For example, see which peripheral devices are tying up the CPU by defining the memory block used by each peripheral.

State histogram mode will quickly segment the percentage of time the CPU spends under each memory block. The analyzer lists the number of states acquired in each bucket to the left of the percentage bars. The analyzer records the total number of samples in the upper right.



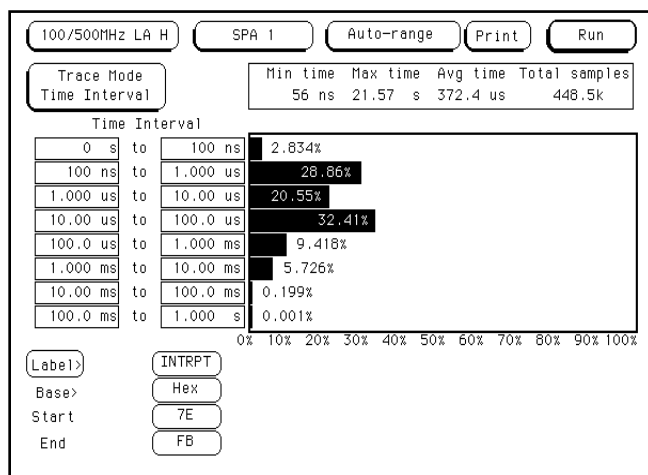
State histogram mode displays states that occur within user-defined ranges of a label.

Time Interval

Show the execution time distribution of a single event.

Define the event by specifying start and end patterns.

Partition up to 8 different time buckets to measure this event. For example, use time interval mode to measure execution times of a particular interrupt response routine.



Time interval mode displays the accumulated execution time for user-defined start and end events.

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