

15

output from the event selection logic means to be used as the monitoring event for a monitoring operation.

13. An event-driven monitoring means as defined in claim 1, further comprising:

an output buffer means for receiving the content of the ITU in a processor being monitored in the system;

means for initiating the transfer of the content of the ITU to the output buffer when all ITA entries in the ITU in the processor are full;

means for inhibiting the event-driven monitoring means from transmitting signals to the ITA from when the ITA is full until the content of the ITA has been transferred to the output buffer means.

14. A monitoring means internal to a data processing system, comprising:

an event-driven monitoring means as defined in claim 1, the event-driven monitoring means operating aperiodically for a processor being monitored in the system,

time-sampling monitoring means being provided internal to each processor in the system, the time-sampling monitoring means operating periodically for monitoring a predetermined group of internal

16

signals in each processor being monitored in the system, time-sampling means being synchronized among all processors that are time-sampling monitorable in the system,

a command controller means connected between the system control console having display screens under operator control and the monitoring means in a processor,

command transmitting means in the command controller means for sending monitoring control commands entered by a system operator on the display screen and transmitting each monitoring control command to the monitoring means internal to the processors, the monitoring means registering the commands to control a monitoring operation in each processor to be monitored, and

a monitoring-mode control means in the system for being set by the command transmitting means to either an event-driven monitoring mode or a time-sampling monitoring mode for enabling, respectively, either an event-driven monitoring operation or a time-sampling monitoring operation in the system.

* * * * *

30

35

40

45

50

55

60

65