

1310.12 Mainframe Computer Information Processing

Issued: October 4, 1993

SUBJECT: Mainframe Computer Information Processing.

APPLICATION: Executive Branch Departments and Sub-units.

PURPOSE: To provide procedures for agencies to efficiently operate and manage mainframe computer information processing resources.

CONTACT AGENCY: Department of Technology, Management and Budget (DTMB)
Bureau of Strategic Policy

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SUMMARY: This procedure describes the requirements for computer resource management in agencies which have installed mainframe computer equipment.

APPLICABLE FORMS: None.

PROCEDURES:

Agency Operating Unit (OU):

- Those with mainframe computers installed are required to institute a computer resource management function directed at improving the ability of technicians, managers and administrators to:
 - Determine the upper limit of a system component to perform its intended task(s).
 - Assess attained levels of service and service level objectives in relationship to measured computer system performance.
 - Determine resource requirements for new and changing workloads.
 - Minimize underutilization of resources.
 - Enable forecasting of system utilization.
 - Plan and evaluate performance improvement activities.
 - Enable evaluation of scheduling practices.
 - Provide an objective, quantitative basis for expansion or contraction of computer capabilities.
 - Fulfill Department of Information Technology, Bureau of Strategic Policy reporting requirements.
 - Satisfy other appropriate needs as they evolve.
- A variety of techniques will be employed to satisfy the continuous measurement requirements of computer systems and telecommunication networks. Computer

Procedure Update: 05/01/00

Procedure 1310.12

performance measurement will require a combination of the following techniques depending upon the processing environment:

- Hardware monitoring systems.
 - Software monitoring systems.
 - Operating control system logs.
 - Operations manual logs.
 - Performance management consulting services.
- The output from these tools will assist data installation management toward attainment of efficient and economical operation and fulfill requirements for periodic summary reporting.
 - The decision to support specific computer resource management tools will be based upon needs appropriate to an information processing installation. Implementation responsibility rests with the management of the affected information processing installations.
 - Acquisitions of consulting services, hardware monitors and software monitors are subject to applicable administrative procedures.
 - Performance and utilization reports will be produced to accomplish objectives outlined above. As the need arises, specified reports will be submitted to DTMB, Strategic Policy. These required reports will summarize hourly, daily and quarterly performance parameters and more detailed data depicting performance during critical periods. DTMB, Bureau of Strategic Policy will have access to all performance monitors and their outputs as the need arises.

DTMB:

- The Department of Technology, Management and Budget, Strategic Policy will request and review the outputs of required computer resource monitoring techniques as the need arises; e.g., upon the request for expanded computer resources.

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