

MVS (z/OS)

*Mainframe Computing
 July 2021*

Rate

Description	Rate FY22/FY23	Debit Code
MVS Enterprise Server	\$0.0900/CPU	02
MVS DB2 CPU	\$0.0900/CPU	03
MVS Enterprise zIIP Processor	\$0.0761/CPU	04

All OCIO rates can be found at: <https://cio.nebraska.gov/financial/serv-rates.html>

General Overview

Enterprise Computing Services (ECS) supports the large-scale development and processing requirements of numerous State agencies. The mainframe operating system—z/OS—is the most secure and stable operating system available. z/OS supports a comprehensive and diverse application environment which is further described in the following section. Continuous availability is a mainstay of the mainframe servers, unparalleled by any other platform. Resource sharing enables z/OS to service thousands of users concurrently, using workload manager to prioritize workloads by level of importance.

The architecture of the mainframe operating system continues to be improved, while always maintaining compatibility with earlier releases. Programs written decades ago can still run on the most current mainframe hardware using the most current operating system.

Service Details

z/OS provides CICS (Customer Information Control System) application support. Thousands of CICS transactions can be serviced simultaneously, and millions over the course of a normal workday. z/OS provides TSO (Time Sharing Option), enabling individual users to interact with mainframe applications, develop mainframe programs, submit jobs for execution, and view reports, etc. z/OS also supports DB2 relational database environments to handle large data requirements for multiple simultaneous users. z/OS supports DDF (Distributed Data Facility), allowing remote clients access to DB2 data residing on mainframe storage.

z/OS provides for the processing of large volumes of data using batch programs. z/OS produces reports of any size, which can be viewed on-line, routed to remote servers, routed to printers anywhere, or printed centrally. z/OS provides unsurpassed data security. z/OS supports data storage on both disk and tape.

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Roles and Responsibilities

z/OS Systems Staff is responsible for:

- Management and assigning of disk storage
- Management and assigning of tape storage
- Installation, tuning, and maintenance of z/OS
- Monitoring the utilization of mainframe resources
- Installation and support of numerous Independent Software Vendor applications
- Security and integrity of z/OS
- RACF, the component that protects all user data and resources
- Definition and control of all printers, both local and remote
- Diagnosing and resolution of all system software issues
- Assisting Application Analysts in problem resolution
- Defining users to z/OS, and providing the required access to those users
- Managing and monitoring the mirroring of disk data to the recovery site
- Managing and monitoring the copying of tape data to the recovery site
- Coordinating all hardware maintenance requirements with IBM
- Determining content of release implementations
- Ensuring the stability of new release implementations
- Capacity planning
- Hardware configuration changes
- Distribution of resources to mainframe users
- Business continuity readiness
- Collection of data used for charge-back

The customer is responsible for:

- Ensuring data allocations utilize the appropriate physical medium
- Scheduling production jobs to run outside of core hours
- Monitoring test jobs to avoid excessive resource consumption
- Coding JCL that conforms to site standards

Requesting Service

Contact the OCIO Service Desk to order the service or submit a Service Request via the Service Portal:

<https://serviceportal.ne.gov>

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Service Expectations, Hours, Availability and Reliability

The mainframe provides services 24x7. The mainframe is on a bi-monthly maintenance cycle, at which time new software and software changes are implemented.

The office of the CIO runs multiple z/OS images configured into what is known as a Parallel Sysplex, which supports the sharing of resources. This sharing allows for critical workloads to always remain available as changes are implemented in a serial fashion.

While one z/OS system or LPAR is undergoing maintenance, the other related z/OS systems continue operating. Since all maintenance is scheduled outside of core hours—late in the day on the second Sunday every other month—capacity and performance issues are avoided. A second processor is at the remote or secondary site for disaster recovery. This processor can be given access to all the replicated data, both DASD and virtual Tape when necessary.

Cost and Billing Information

The Office of the CIO uses Billing Accounts, Job Codes and Work Order numbers for authorizing work and tracking costs for specific projects. Customers may designate which job code and work order number to use or request a new job code and work order number. Contact the Office of the CIO for assistance with developing an accounting structure that meets the needs of the organization.

For further information, please contact:
The Office of the CIO Service Desk

Request this Service: <https://serviceportal.ne.gov>

402-471-4636 or 800-982-2468