NTT DATA
Services

Re-host Batch Workloads and Reduce IT Complexity

NTT DATA Batch Processing Environment

Benefits:

- Provides comprehensive and dynamic JCL translation capabilities
- Supports job step management and recovery, priority classes, conditioned execution, job monitoring and more
- Provides native support for generation data groups (GDGs), virtual storage access method (VSAM) files, sequential files and relational databases
- Integrates with industry-standard software and common IBM utilities, such as IDCAMS, IEBGENER and SORT
- Includes a GUI-based job editor

Robust mainframe batch execution on cost-effective open systems

Batch workloads address a large percentage of legacy application processing. With the NTT DATA Batch Processing Environment (BPE), you get software that protects your existing application and data investments by bringing the best aspects of mainframe jobmanagement to cost-effective industry-standard systems. As a core component of Mainframe Re-hosting by NTT DATA, BPE rapidly migrates valuable batch application investments to open systems without excessive code change and complex integration requirements.

Evolutionary path forward

There's no need to re-implement complex batch processes and procedures when legacy workloads are re-hosted. Our software delivers affordable, efficient and highly manageable production environments with:

- Comprehensive Job Control Language (JCL) translators
- Pre-built integration with common mainframe and third-party batch utilities
- Native support for standard mainframe data file types

Compared to risky alternatives that re-implement business procedures and environmental variables, BPE maps common JCL syntax on a one-for-one basis and offers you the choice of continuing to program in JCL syntax or translate JCL to scripts.

The facilities provided with BPE include IBM® z/OS® and IBM z/VSE® operating environment JCL translators. Jobs, job steps and procedure steps are maintained, along with support of common mainframe utilities like IDCAMS, IEBGENER and SORT.`

Complete operational job control

Our BPE software includes functionality for complete batch job execution. The NTT DATA Batch Processing Environment Manager facilitates the ability to manage non-interactive jobs and allows actions such as:

- Monitoring active jobs and job classes
- Listing specific job status and execution reports
- Submitting jobs
- Canceling and suspending jobs that are in execution
- Saving configurations

NTT DATA Batch Processing Environment

Jobs can be designated in specific job classes and assigned priorities within a job class. Specific jobs or procedure steps can also be restarted.

Robust, flexible administration

Our BPE Manager enables you to define, configure and administer systems, you can configure databases (VSAM and relational), define security, specify accounting criteria, create job classes, configure a batch console and set many other attributes associated with the BPE.

With BPE, batch programs can be managed and scheduled according to specific configuration parameter such as start time and job priority. You can assign or change job attributes, and determine the current status of a job. You can also create and manage multiple batch nodes and subsystems when separate environments are required, such as for individual production and test regions.

A GUI-based file editor allows you to intuitively add, modify or delete file entries and attributes. The editor also allows you to create and edit jobs using a point-and click

Native support for mainframe data types

Our BPE software supports standard mainframe data file types, such as VSAM files (KSDS, RRDS and ESDS), sequential files, GDGs and concatenated data sets. This support enables applications accessing these legacy file formats to be migrated rapidly to open systems with minimal change. By preserving data file iterations instead of collecting information into one large file, BPE minimizes disk space consumption and compute cycle requirements on the new target platform. Our technology also supports leading relational databases such as IBM DB2® (LUW), Oracle® database and Microsoft SQL Server, as well as Adabas from Software AG.

Addressing the complete picture

A large percentage of mainframe batch workload processing time involves interacting with common utilities, such as IDCAMS, IEBGENER and IEBCOPY, in addition to third-party solutions, such as sort utilities, job schedulers and print spoolers. With built-in integration for both tightly and loosely coupled application utilities, BPE automates a large portion of the integration efforts commonly associated with migrating batch environments to open systems. BPE allows administrators to integrate their preferred middleware components, forming a complete software solution for supporting business logic and minimizing risk.

Remote job submission

BPE provides a remote job submission facility where you can submit z/OS or z/VSE jobs via FTP from a mainframe or open systems server. Once the transfer is complete, BPE automatically translates and submits jobs for execution.
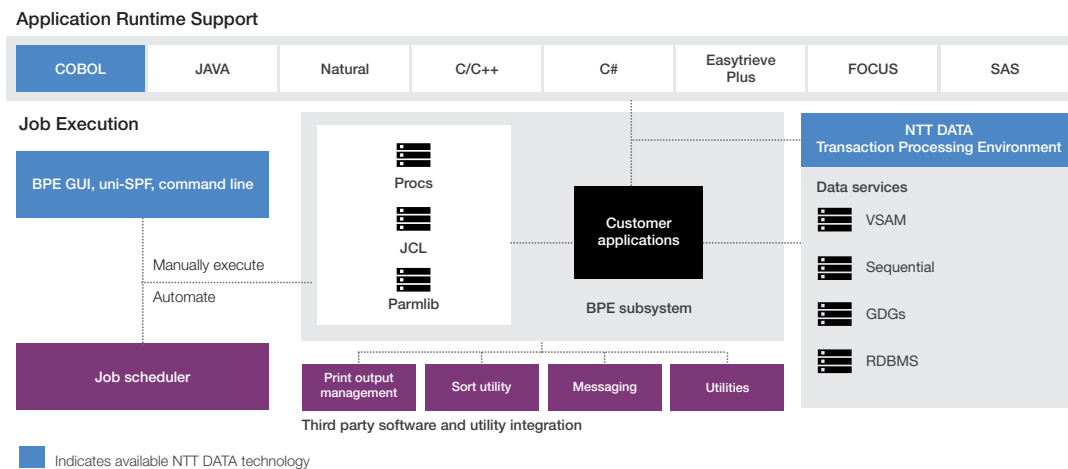
Configuration import facility

In order to simplify the upgrade process for new software releases and movement of processes between nodes, the configuration import facility allows administrators to import existing subsystems from other nodes.

Batch statistics

Our BPE software contains enhanced commands that display statistics such as time spent in VSAM code, wait times, and logical and physical I/O statistics.

Comprehensive legacy investment protection

When considering a migration project, both the path to obtain the desired target environment and the destination are equally as important. Batch application investments can be quickly used on industry-standard systems with BPE, without excessive code change or complex integration efforts, resulting in a highly manageable and well-supported platform moving forward.

Application Runtime Support

COBOL	JAVA	Natural	C/C++	C#	Easytrieve Plus	FOCUS	SAS

Job Execution

- BPE GUI, uni-SPF, command line
  - Manually execute
  - Automate
- Job scheduler

Procs
JCL
Parmlib
BPE subsystem

Customer applications

Print output management | Sort utility | Messaging | Utilities

Third party software and utility integration

NTT DATA Transaction Processing Environment

Data services
- VSAM
- Sequential
- GDGs
- RDBMS

■ Indicates available NTT DATA technology