Editor’s Note: This article addresses Batch Queue management specifically for the AS/400 platform. We will gain an understanding of the default queue, QBATCH, and learn how to create, maintain, and manage our own customized queues to gain UBE scheduling and execution efficiency.

Introduction

Oracle JD Edwards EnterpriseOne has built a reputation for getting the work of managing your organization done effectively and efficiently. There are primarily three ways that work gets done in EnterpriseOne: interactive applications, real time events / business services, and batch jobs. In this article, we are going to look at batch jobs and specifically how we can set up job queues to get them through the system efficiently.

Batch processing is the heart and soul of almost any EnterpriseOne installation. Whether it is a quick report or a complicated MRP requirements calculation report, efficient batch processing is essential to an organization’s success. In EnterpriseOne, these batch jobs are called Universal Batch Engine jobs or UBEs.

In addition to processing the data efficiently using UBEs, the manner in which those jobs flow through the system is also very important. That process involves setting up job queues that are used to determine which of those UBEs the system should work on next. EnterpriseOne job queues are very similar to other queueing theory (https://en.wikipedia.org/wiki/Queueing_theory)
examples such as: vehicle traffic or toll booth lines, retail store checkout lines or the lines at your favorite amusement park. By default, EnterpriseOne is installed with one Job Queue: QBATCH. This name is taken from the default IBM AS400 job queue, which is the platform where JD Edwards began. Each job queue follows the queuing principle of First-In-First-Out (FIFO): UBEs are processed one at a time (single-threaded) and the UBE that has been waiting the longest is served first.

Why would you need more Job Queues in addition to QBATCH? Well, in most cases you will want QBATCH to process more than one UBE at a time (multi-threaded). That way, more UBEs can be processed by the system. However, there are many UBEs that should be either run in a single-threaded queue or have very stringent data selection. So, you will want to make more Job Queues to manage your UBE throughput. There are several criteria that can be used to separate the UBEs into different Job Queues:

1. UBE Type (Reports, Data Conversions, etc.)
2. UBE System Code (Payroll, MRP, Sales, AR, AP, etc.)
3. UBE Runtime (Long – 1hr, Standard – 15min, Short – 5min, Shorter – 1min)
4. Business Process (Payroll Checks, Invoicing, Work Orders, etc.)

This is where you will need to determine how your EnterpriseOne installation will be used and what kind of UBEs will need to be processed.

Create an EnterpriseOne Job Queue

Now that you know what kind of UBEs your system will be processing, we will look at how Job Queues are managed. EnterpriseOne job queues are created and maintained using the Work With Job Queues application (P986130). This application will allow you to create, modify, and delete the job queues that are essential to a healthy EnterpriseOne installation. For each job queue that you create, you will need to know seven things:

1. Port Number – The port that your server is using.
2. Host Name – The name of your server as defined in the Machine Definitions application.
3. Job Queue – The name of your new Job Queue.
4. Is it a Default Queue – Default Job Queues are defined to allow jobs to be processed that do not have a Job Queue specified.
5. Queue Type – There are two Job Queue Types:
   a. JD Edwards Queue – used for all platforms, except IBM AS/400.
   b. AS/400 Queue – used only for IBM AS/400.
6. Job Queue Status – This can be active or inactive.
7. Maximum Batch Jobs – This is the maximum number of UBEs that can be run at the same time in a job queue.
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