



BSTAR Batch Split-Streaming Toolkit description

BSTAR Batch Split-Streaming Toolkit licensed program is an IBM System i tool designed to accelerate batch processes by splitting them at run-time into a number of parallel streams.

The tool is extremely easy to use. The main properties of the batch process, such as the name of the batch control program, its parameters, and the names of files processed are defined and stored in the Toolkit's repository using a simple command interface. The definition is then compiled and the batch process is automatically split-streamed (or multi-streamed), i.e. a number of jobs are submitted to do the processing.

Rules for breaking down a single-streamed process into a number of streams (e.g. by values of a certain key or by ranges of relative record numbers) are user-defined.

Example

The existing batch process is submitted daily to read incoming payments from the payments file and update account balances in the accounts file. Since the process does summary processing at the branch level, incoming payments are processed in the branch key sequence. Branch number is a 4-digit field. For each record retrieved from the payments logical file the related account record is retrieved from the accounts logical file. Both records are then updated: the payment record with the "processed" flag and the account record - with the updated balance. Processing takes sometimes a very long time due to large numbers of incoming payments. A few simple definitions

DFNSPTRM UNIT(SSS) PROGRAM(LIB1/PAYBTCH) MASTERFILE((DBLIB/PAYMENTL BRANCHN)) BRANCHN is the name of "branch number" field	<i>Main split definition</i>
CRCVSY/DFNSPTRNG UNIT(SSS) PROGRAM(PAYBTCH) LMTS(0000 5555 9999) 2 streams with 0000-5555 and 5556-9999 ranges	<i>Stream definition</i>

would be sufficient to automatically multi-stream processing for the batch:

