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# RE-Engineering



**Optimal Engineering**  
in the construction  
of batch processes.

Improves the performance and quality of  
batch processes in Z/OS by increasing  
the parallelism and providing automation of  
recovery/restart operations.

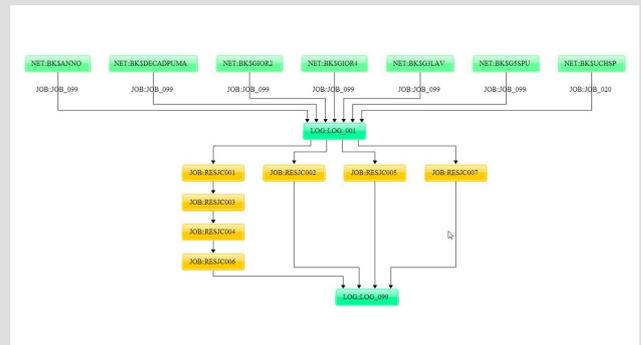
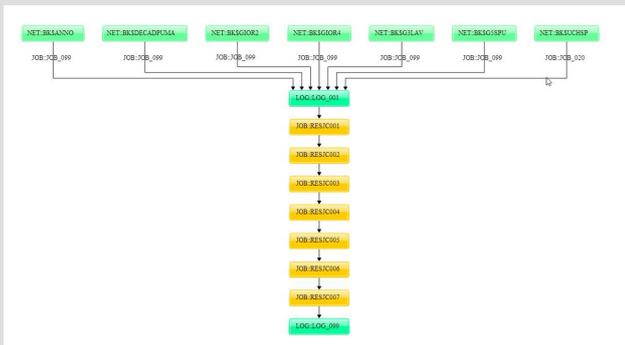
## RE-Engineering

### Growth and development, a natural trend towards the future.

The design, generation and maintenance of batch Jobs and schedules is often an extremely detailed and error-prone task. There are a variety of causes: the **complex process structure**, the continuing **need for change**, the **acquisition of externally developed application packages**, the **limited time** available between the creation or modification of an application and its activation in production, the **difficulty** in capturing **all the information** about the use of resources, the complex network of links between applications.

This can result in:

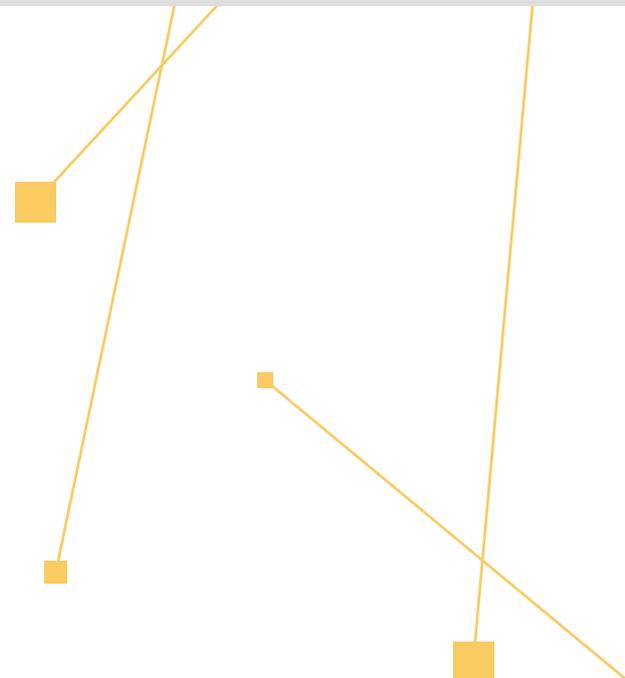
- Design and generation of schedules where the processes are run in sequence versus in parallel, typically resulting in a noticeable increase of the processing time
- Redundant backup/restore activities, due to lack of information, resulting in a waste of time and resources
- Risk of incomplete backups/restores
- Non-adherence to site-specific behavioral standards
- Misuse of optimally available resources.



There are also indirect consequences such as:

- An excessive number of links between the human resources and applications due to the large quantity of information needed to manage them
- Difficulty in the change management of objects and in the alignment between different environments, including production and development
- Difficulty with the timing of change of a variety of different kinds of objects such as programs, batch applications and JCL.

A lack of knowledge of the applications makes changes difficult to manage and the actions necessary for restarts after abnormal terminations of batch procedures themselves.



## The RE-Engineering solution

The **RES Reengineering tool**, thanks to its **methodology** and **technological** superiority, helps to **optimize batch processes** - including existing, new and/or modified processes - reducing the processing time, making them adhere to corporate standards and resulting in better reliability at the same time.

The methodology that is available to the user to perform a **critical analysis** of existing processes and an **optimal design** solution will lead to **newly generated, more efficient** and **shorter running** processes. It also promotes **adherence** to technical and **behavioral standards** in the implementation of backup/restore requirements, restart, checkpoint management, temporary files, the use and management of GDGs, the report generation process and condition code processing.

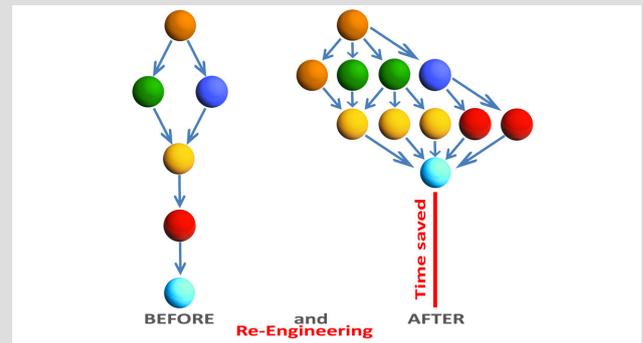
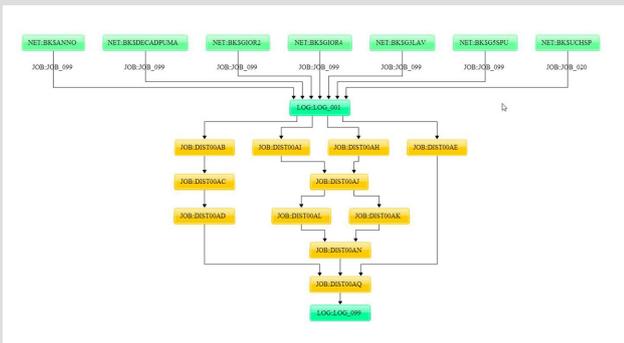
Particularly important is also the benefit in terms of **logical redesign**, application shutdown

and isolation in logical units of processing of the key parts of the production process, among others.

The technology component then automates the **enforcement** activities of any **client-specific standards**, ensuring the **automatic creation of schedules** ready to be invoked by the most popular automated workload schedulers.

All tasks can be performed via an **interactive interface** or managed by the automated reengineering option, **1SR** (One Step Re-Engineering). In the first case it is possible to perform detailed interventions, in the second case it is possible to obtain the best automation and speed of the Re-Engineering application.

There is also a version of **“Easy Re-Engineering”** which, applied to the generation of parallel scheduling nets, keeps the job as provided, without concern for the sequence of the steps within them.



## Objectives and functionalities of RE-Engineering

The main objective is to significantly **improve the quality** in terms of greater adherence to standards, greater security and reliability, and performance in terms of decreased processing time and better use of resources.

**Creating Jobs and schedules** is a fully automated **function of RE-Engineering** and can easily be inserted in the object change management life cycle.

Not only can existing schedules be re-engineered, but also **brand new schedules** can be generated (fully optimized) **starting from a given list of jobs**.

## Benefits

- Automatic generation of standard schedules and jobs
- Behavioral standardization of the management of abnormal termination
- Absolute reliability of backup and restore processes
- Automatic documentation of optimized processes
- Automatic alignment of multiple production environments
- Drastic reduction in the time to move new applications into production
- Drastic reduction in response times for applications which are currently in production
- Optimization of the execution of applications for improved SLA adherence.

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■ **RE-Engineering**



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