

SmartProduction™

Product Overview



Reducing Inefficiencies,
Expanding Performance.

SmartProduction® Benefits & Justification Summary

The **SmartProduction®** batch analysis and tuning software identifies production batch issues and provides solutions to eliminate frequently occurring production inefficiencies. SmartProduction locates, prioritizes, and explains every addressable batch inefficiency and provides you with the most effective tuning solutions. Once the suggested changes are applied, **SmartProduction** provides facilities to track improvements and document the benefits achieved.

How SmartProduction Works

SmartProduction extracts and analyzes SMF data in a post-production batch job, so it will not add overhead to your existing batch window.

SmartProduction's Good Candidates and Global Reports list jobs and data sets in a prioritized order, allowing you to quickly identify and address the most significant inefficiencies first.

Individual job and data set reports are easily accessed online through user-friendly ISPF panels.

What SmartProduction Does

SmartProduction finds inefficiencies in both physical data set attributes and logical job flows in four general categories:

Application Inefficiencies (duplicate sorts, sorting already sorted data)

Job Inefficiencies (creating duplicate back-ups, use of inefficient programs)

Data Set Inefficiencies (nonoptimal block size, index or buffers, excessive CA/CI splits)

Operational Delays / Job Flow Inefficiencies (extended wait times, data set contention)

- **SmartProduction** categorizes and prioritizes inefficiencies starting with those that have the greatest potential for improvement, so that they may be easily identified and addressed.
- **SmartProduction** focuses on changes that will reduce I/O and run time, improve CPU utilization, and limit DASD consumption.
- **SmartProduction** identifies inefficiencies in both in-house and vendor products. For example, your production environment may differ from the development or "typical user" environments that vendors may use as a basis for installation settings and parameters provided to customers. This may cause system inefficiencies. **SmartProduction** eliminates the expense of bringing a vendor onsite to tune their product on your system, and allows you to tune according to the way vendor products are installed and running in your specific environment.

SmartProduction

- Reduces the batch window by as much as 30%, allowing mission critical applications to run faster and more efficiently, and finish earlier in the batch run.
- Reduces resource consumption, allowing higher volumes of production work to run on your existing hardware. Hardware upgrade needs are significantly decreased, and costly software upgrade fees can be postponed or minimized.
- Allows staff to work more efficiently, identifying inefficiencies having the greatest impact on your system availability, and thereby eliminating the need for manual analysis to determine if time and resource improvements can be made.

How SmartProduction Differs from Other Tuning Tools

- Capacity Planning and Monitoring tools track system capacity and performance and detail the peaks and valleys of the production workload, but they may not identify the root causes of system stress. **SmartProduction** tells you what the problems are, what causes them, when the inefficiencies occur, the exact job step in which they occur, and the solutions to resolve them.
- Monitoring tools indicate that a problem may exist at a given time in the production run, or, take a “snap shot” of that moment. **SmartProduction** analyzes the entire workload in the context of the production cycle or window, providing a more complete view of the process.
- Rather than simply identifying ALL long-running or high I/O jobs, **SmartProduction's** analysis determines if time and resource improvements can be made, and provides the most effective tuning actions.
- **SmartProduction** provides a Trend Analysis Report that allows you to measure the performance of jobs before and after the tuning process has been completed.

How SmartProduction Complements Other System Performance Tools

- **SmartProduction** allows you to work more effectively with your existing application tuning tools. It identifies jobs for which application tuning tools can provide benefit, thereby maximizing use of those products.
- **SmartProduction's** post-production analysis allows you to improve the efficiency of your “front-end” tools by identifying the inefficiency of the current production workload from which the “norms” for their baseline metrics are established.
- **SmartProduction** identifies jobs, applications, and data sets for which automated performance, application tuning, or front-end tools may provide benefit but may not be configured to address.
- **SmartProduction** improves the accuracy of projections given by long-term planning and modeling tools by establishing an account of current utilization/resource needs.



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